

P. B. L. A. ENGINEERING, INC

PLANNING • ENGINEERING • SURVEYING

PRELIMINARY DRAINAGE STUDY

MAJESTIC OTAY

OTAY MESA SAN DIEGO COUNTY, CA

PREPARED FOR:

**Majestic Realty
13191 Crossroads Parkway North
Industry, CA 91746**

Preparation Date: May, 2023

Revised April, 2024



Prepared under the supervision of:

A handwritten signature in blue ink that reads "Steve Levisse". The signature is written in a cursive style and is positioned above a horizontal line.

Steve Levisse, P.E.

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Summary

Majestic Realty is proposing to develop 250 acres in Otay Mesa, San Diego County, California, on properties located north of Highway 11 and Otay Mesa Road and east of Highway 125, on the northeast corner of Otay Mesa Road and Harvest Road and a partially west of Harvest Road. The development proposes 12 commercial/industrial warehouses. The property is vacant and unimproved. The terrain is comprised of undulating foothill slopes.

The existing storm water runoff flow of the property travels in all directions resulting from a high point sitting centrally in the northeast portion of the property. One undeveloped flow path travels south and concentrates at a low point on the development property and crosses Otay Mesa Road via a concrete box culvert. A second undeveloped flow path travels to the northeast into a riparian area. Another undeveloped flow path travels to a low spot adjacent the western extent of proposed Zinser Road. And lastly another undeveloped flow path originates just south of the centrally located vernal pool and flows south towards the intersection of existing Otay Mesa Road and Harvest Road.

The proposed project runoff is mitigated by two underground basins and seven above ground basins. Each above ground basin utilizes a bio-retention basin bottom that connects to an overflow structure that is equipped with low-flow and mid-flow orifices and an overflow weir. The overflow structures control the flow to maintain maximum flood storage capacity and minimum flow to each POC to ensure a lower proposed condition flow compared to the existing condition flow.

In addition, the proposed project does not alter the existing drainage pattern in a substantial way. Four existing "Points of Compliance" (POC) have been identified and three of the four POCs will have proposed flow directed to them, and one existing POC will no longer have flow directed towards it. No stream or river are impacted by the proposed project. No flooding on or off project site will occur due to the proposed project development.

A 10-acre area of the property is designated as sensitive wildlife habitat and will not be developed, 3.5 acres of the sensitive habitat designated area retains all storm water runoff in a vernal pool. 9.8 acres of the development will be developed into seven water quality bio-retention basins.

Study Scope

This study will establish the basis for final design of flood protection and drainage conveyance elements, ensure that these elements can be sized properly, and will ensure the development can comply with San Diego County requirements when constructed.

The scope of this study is existing and developed condition 100-year, six-hour storm rational method analyses and detention basin flood routing. The analyses include four

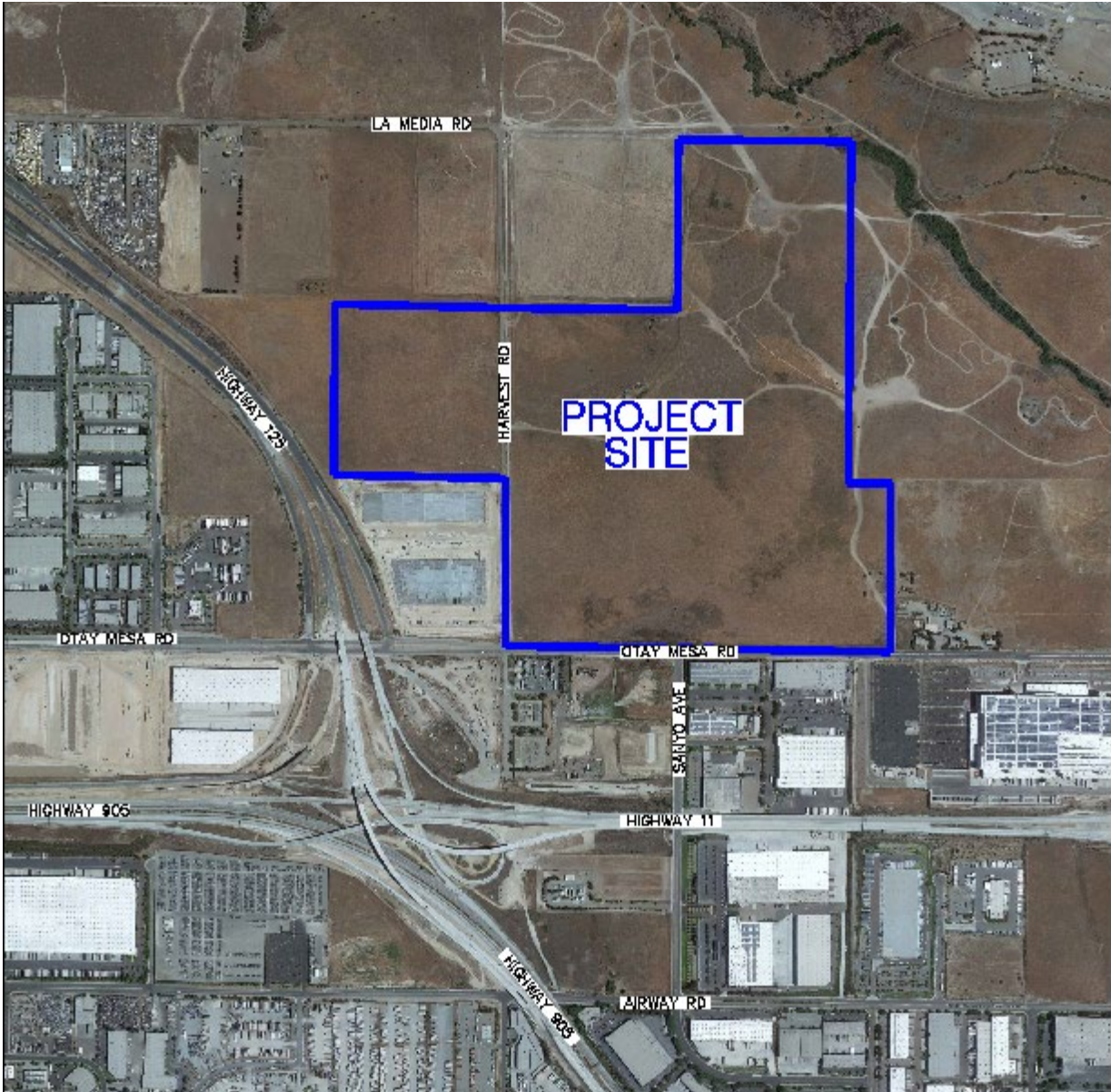
existing condition tributary areas and seven developed condition tributary areas. The seven developed condition tributary areas have peak flow attenuated by a biofiltration detention basin, including one tributary area that includes an underground detention basin upstream of a biofiltration detention basin. Each developed condition tributary area or combined multiple developed condition tributary areas detention basin outflow is designed to be less than or equal to corresponding existing condition outflow. The hydrology maps for the existing and developed rational method analyses are provided in Appendix A.

Flood Designation

The property described on this survey lies within Zone "X" described as an "area of minimal flood hazard." The property is depicted on the Flood Insurance Rate Map number 06073C2179G with an effective date of May 16, 2012.

There is no proposed development within a 100-year flood hazard area.

Project Location



Design Criteria and Methods

The runoff calculations presented in this study are produced using the San Diego Hydrology Manual specific rational method procedure. A hydrograph is developed from the results of the rational method study per Section 6 of the San Diego Hydrology Manual and used as input flow for flood routing calculations to ensure proper detention basin sizing. Detention basin volume and outflow are produced via spreadsheet calculation.

Rational Method Analysis Assumptions

Hydrological Soil Group – C & D – Soil map included.

Rainfall Data – County of San Diego Hydrology Manual Rainfall Isopluvials – 100 year, 6 Hour and 100 year, 24 hour.

Rational Method Time of Concentration – Determined using the “Rational Formula – Overland Time of Flow Nomograph” (Figure 3-3) and the “Nomograph for Determination of Time of Concentration (Tc) or Travel Time (Tt) for Natural Watersheds” (Figure 3-4) found in the San Diego Hydrology Manual. Attached as Appendix F

Runoff Coefficients – For initial subareas a General Commercial C value was used, remaining areas utilized a synthesized C value per soil type ratios and impervious/pervious ratios. C value tables are located on the Rational Method Maps in Appendix A.

Base Flow = 0 – No offsite flows will enter site.

Bio-Filtration Rate

The bio-filtration rate for each retention basin is dictated by an engineered three and a half foot thick bio-filtration layer at the bottom of each basin that will perform at a rate of 4 inches per hour. Native soil at the site has negligible infiltration rates. Infiltration is not feasible per Soil Report in Appendix F.

Conclusion

This study and the related calculations indicate that the proposed development design flows can be conveyed to the proposed detention basins, and those basins are capable of attenuating peak flows and of treating a determined water quality volume for the developed runoff without exceeding the basin capacity or existing condition outflows of the site.

Note that a final hydrology and hydraulics study will be required to accompany final construction documents to analyze final basin geometry, provide conveyance element hydraulics for pipe sizing, surface drainage facilities and energy dissipation.

Conclusion Tables:

EXISTING CONDITION	DRAINAGE AREA ID	AREA (acres)	RUNOFF COEFFICIENT	IMPERVIOUS VALUE	Tc (mins)	PEAK VELOCITY (FPS)	PEAK RUNOFF (CFS)
	1	65.52	0.337	0.00	25.27	3.4	51.1
	2	6.18	0.350	0.00	12.64	2.4	7.8
	3	24.9	0.346	0.00	18.54	4.1	24.3
	4	112.45	0.341	0.00	27.09	3.8	84.9

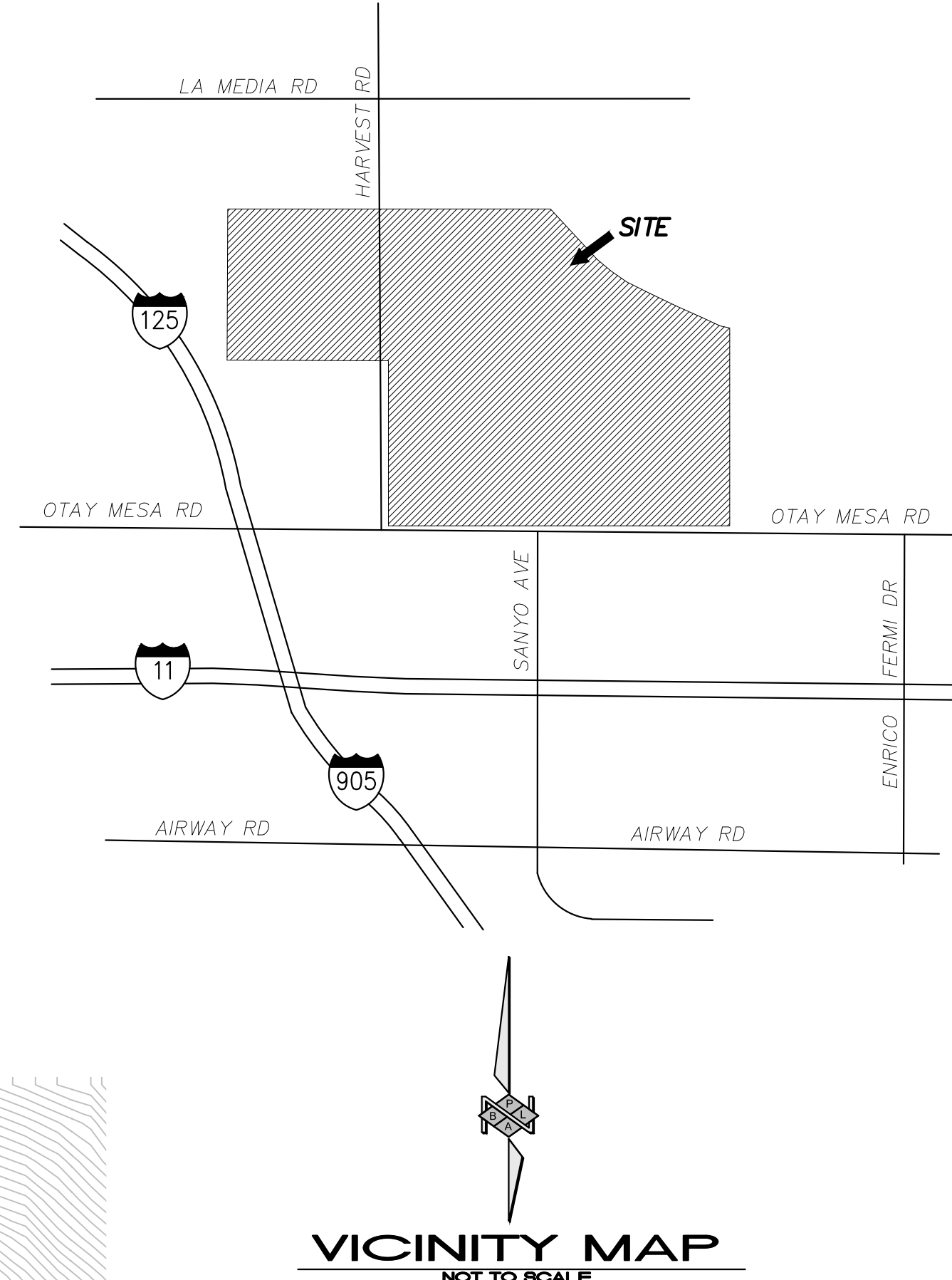
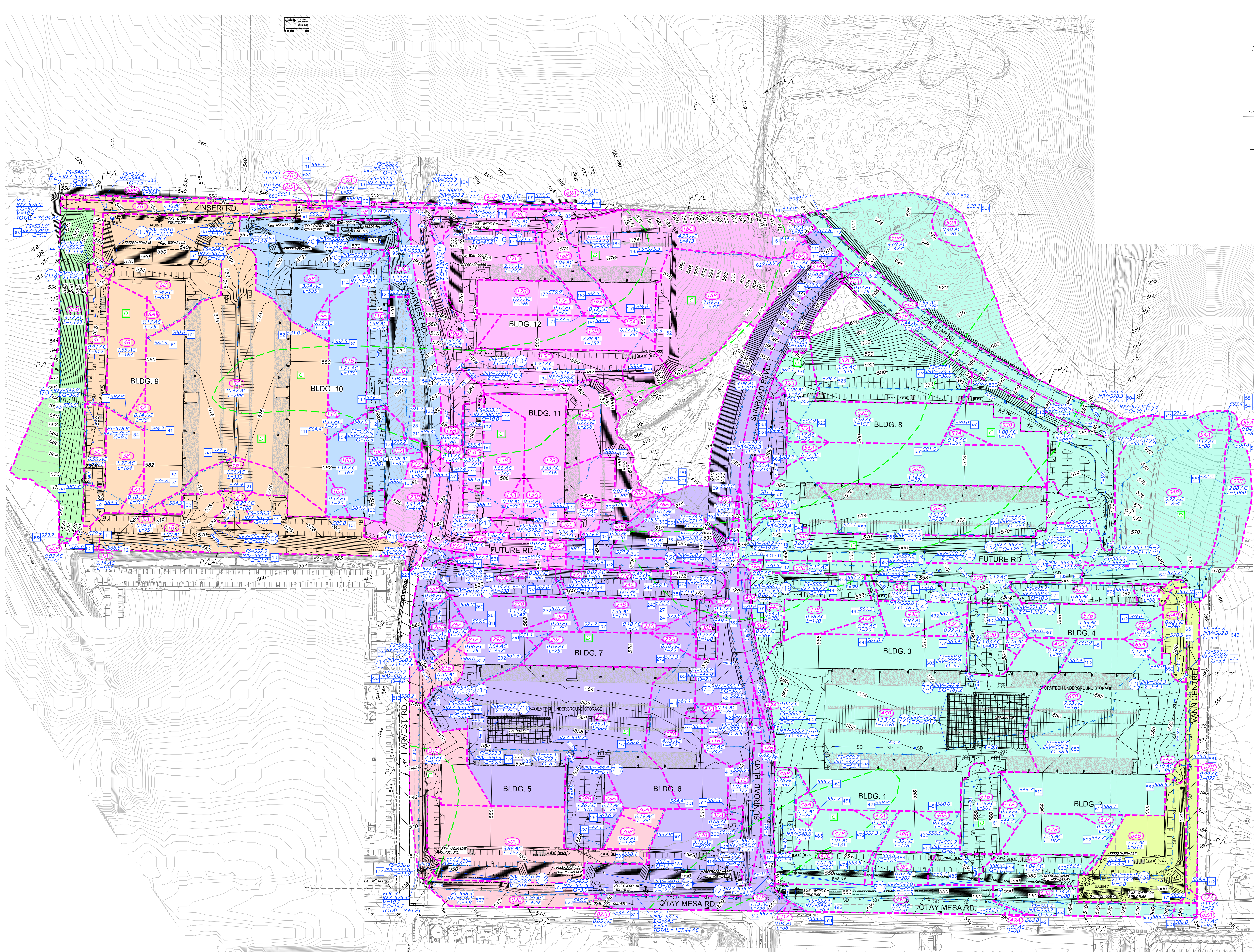
Total Area = 209.05

DEVELOPED CONDITION	BASIN DRAINAGE AREA ID	AREA (acres)	AREA RUNOFF COEFFICIENT	IMPERVIOUS VALUE	Tc (mins)	VOLUME (ac-ft)	PEAK RUNOFF VELOCITY (FPS)	PEAK RUNOFF (CFS)	PEAK BASIN OUTFLOW (CFS)	MAX DEPTH (ft)	CORRESPONDING EXISTING AREA	TOTAL AREA TRIBUTARY TO POC	MITIGATED OUTFLOW Tc (mins)	MITIGATED OUTFLOW VELOCITY (FPS)	MITIGATED OUTFLOW (CFS)	EXISTING & DEVELOPED OUTFLOW DIFFERENCE (CFS)
	1A	4.12	0.35	0.00	13	0.30	9.08	5.2	n/a	n/a	1	75.04	253	18.4	50.7	0.4
	1	26.48	0.77	0.77	8.0	4.28	28.3	101.7	2.09	4.9						
	2	12.10	0.69	0.63	7.7	2.92	49.0	43.9	1.73	2.7						
	3	32.34	0.67	0.60	7.2	5.71	49.6	120.4	44.27	4.3	3	8.61	257	10.7	14.7	9.6
	4	8.61	0.74	0.72	8.5	1.88	20.6	29.9	14.67	2.2						
	5	40.48	0.76	0.74	250.0	7.22	27.0	70.6	30.63	3.9	4	127.44	249	8.4	64.5	20.4
	6	82.18	0.72	0.68	246.0	14.44	22.5	55.8	19.08	4.4						
7	4.78	0.70	0.63	2.6	0.49	5.8	14.7	0.08	3.4							

Total Area= 211.09

APPENDIX A

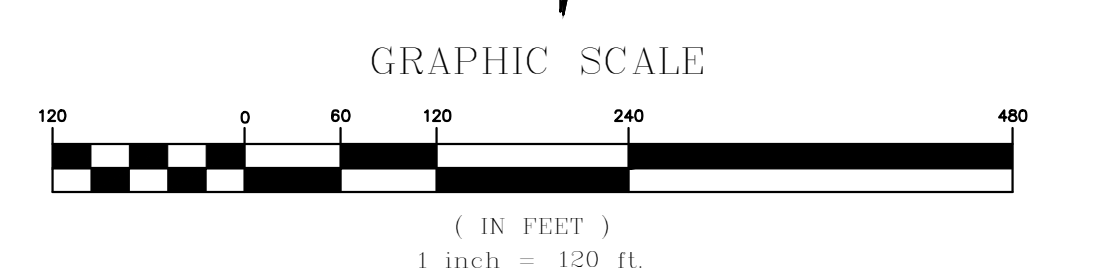
RATIONAL METHOD HYDROLOGY MAPS



- LEGEND**
- (1) — SUBAREA DESIGNATION
 - SUBAREA BOUNDARY
 - FLOWPATH
 - SD — 18" - 48" DUAL WALL HDPE OR RCP PIPE
 - Q=30.1 — RUNOFF FROM SUBAREA IN CFS (100 YEAR, 24 HOUR STORM)
 - 1.58 AC — SUB-AREA (ACRES)
 - L=100 — FLOWPATH LENGTH
 - A — SOIL CLASS
 - 212 — RATIONAL METHOD CALCULATION NODE
 - 728 — RATIONAL METHOD CONFLUENCE NODE
 - ➔ — BASIN OUTLET
 - — SELF-MITIGATED TRIBUTARY AREA 1A
 - — BASIN TRIBUTARY AREA 1
 - — BASIN TRIBUTARY AREA 2
 - — BASIN TRIBUTARY AREA 3
 - — BASIN TRIBUTARY AREA 4
 - — BASIN TRIBUTARY AREA 5
 - — BASIN TRIBUTARY AREA 6
 - — BASIN TRIBUTARY AREA 7

C-VALUES

TRIBUTARY	Imperv. Ratio	Soil-C Ratio	Soil-C Cp	Soil-D Ratio	Soil-D Cp	Symm. C
1A	0.00	0.00	1.00	0.35	0.35	
1	0.77	0.00	0.30	0.02	0.77	
2	0.63	0.25	0.30	0.75	0.69	
3	0.60	0.40	0.30	0.60	0.67	
4	0.72	0.10	0.30	0.81	0.74	
5	0.74	0.12	0.30	0.68	0.76	
6	0.68	0.19	0.30	0.81	0.72	
7	0.63	0.00	0.30	1.00	0.70	



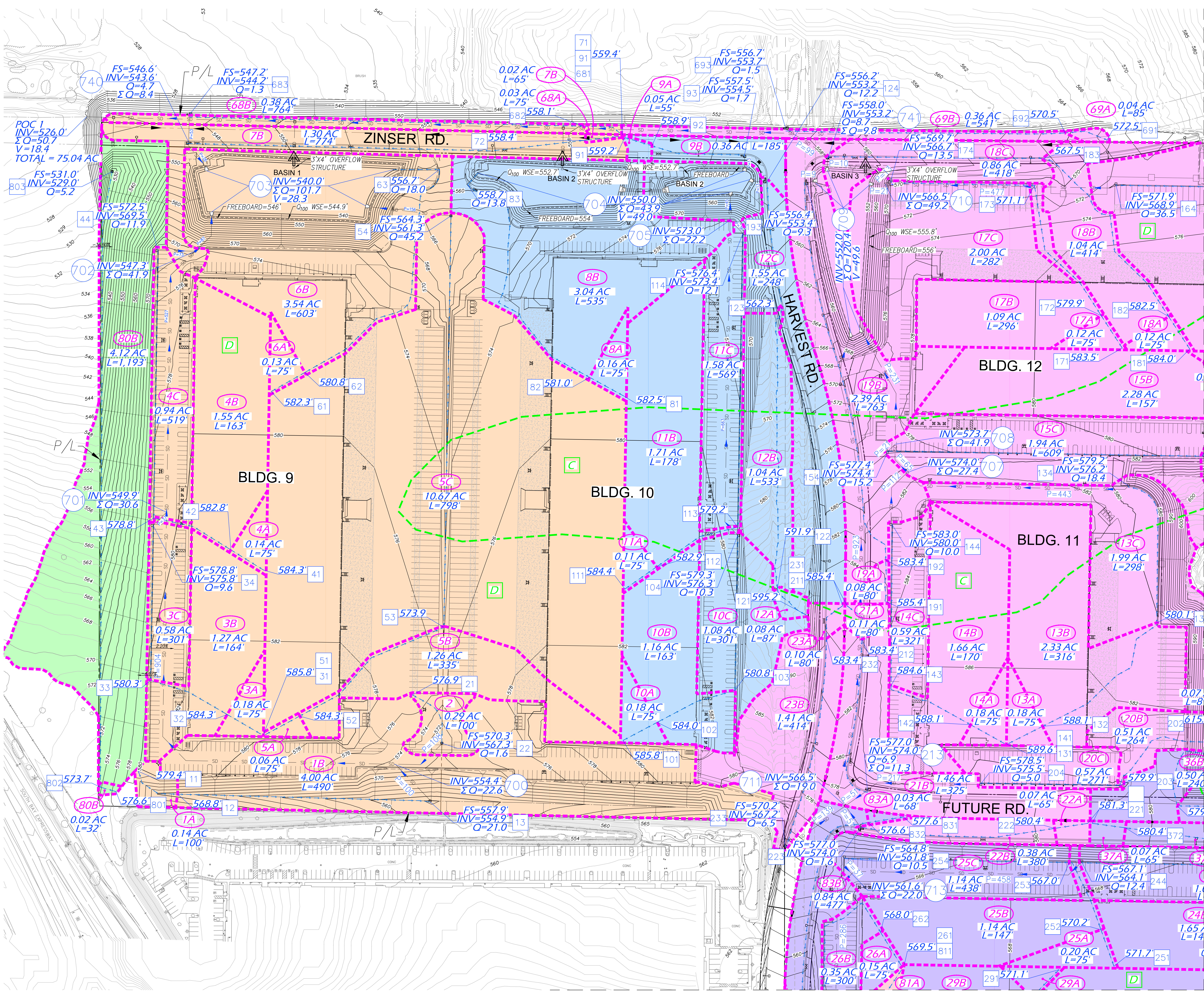
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 Planning • Engineering • Surveying
 1800 E. DYER ROAD, STE 301
 SANTA ANA, CA 92705
 (888) 714-0842 • (714) 839-9161 FAX

REVISIONS:

HYDROLOGY MAP
RATIONAL METHOD
DEVELOPED CONDITION
MAJESTIC OTAY
OTAY MESA, CALIFORNIA

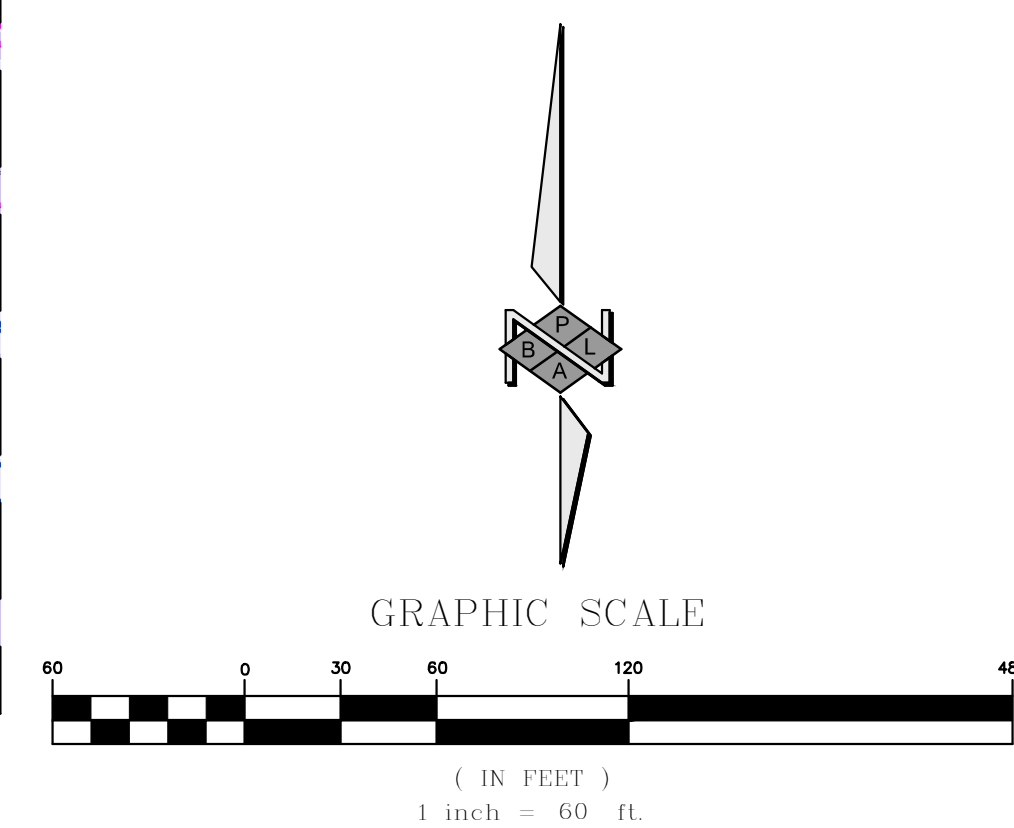
JOB NO. 100-160
 SHEET 1 of 1



LEGEND

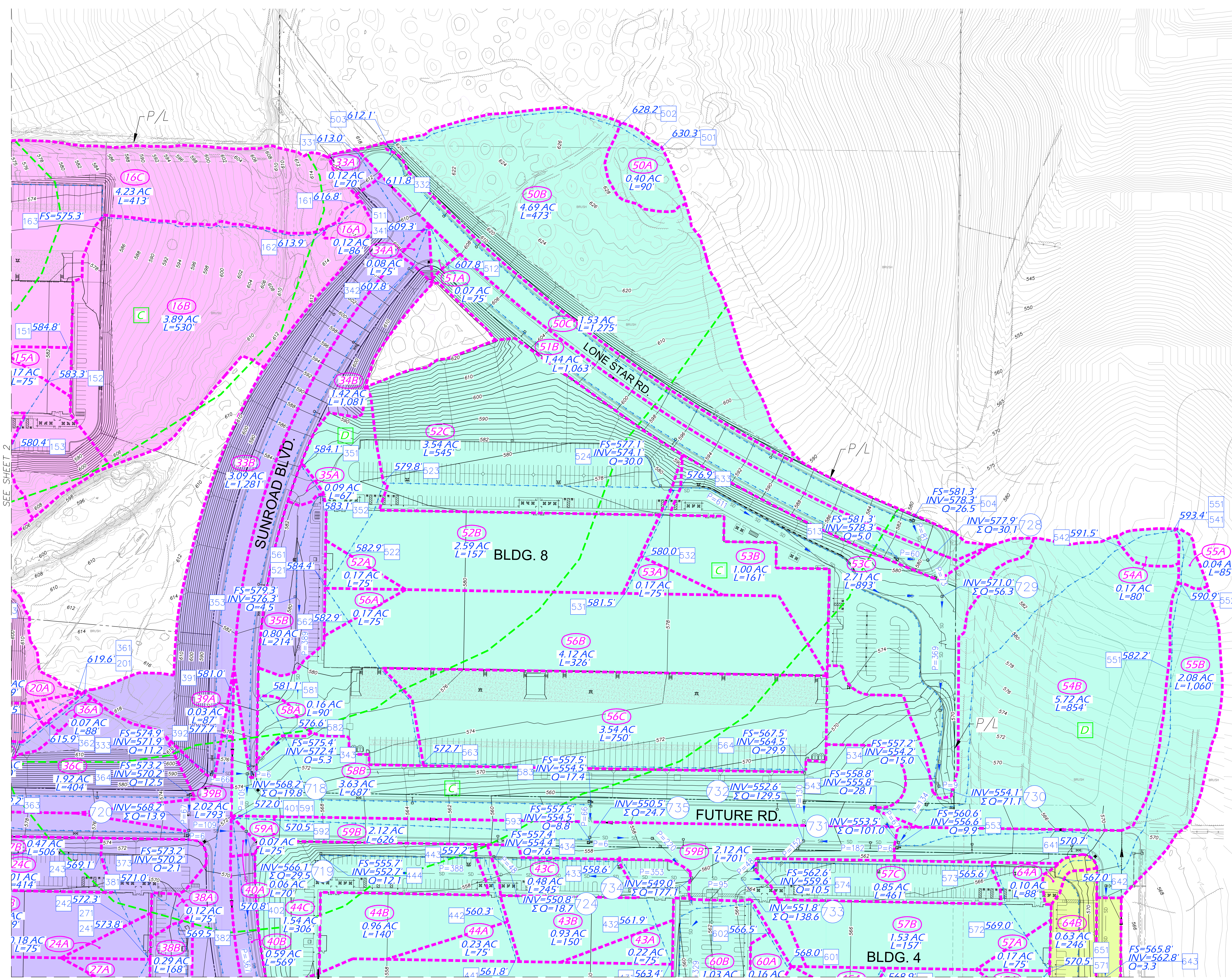
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- BASIN TRIBUTARY AREA 6
- BASIN TRIBUTARY AREA 7

SEE SHEET 3



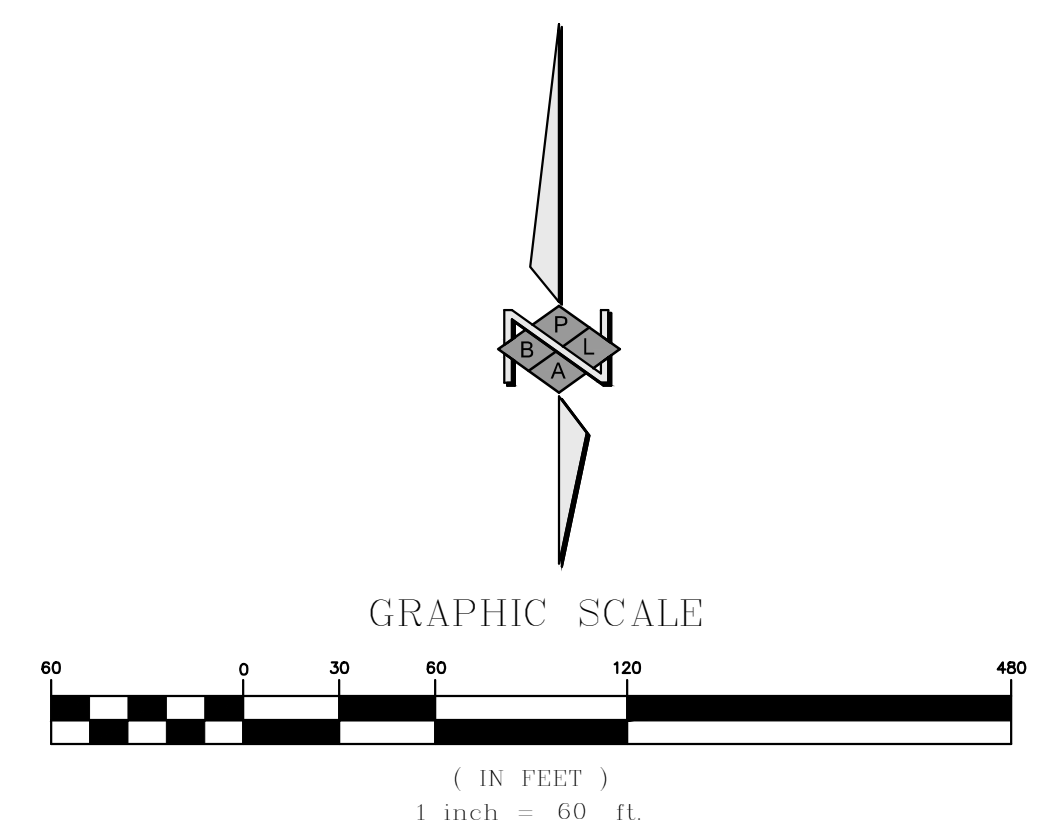
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LEGEND

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SEE SHEET 2

SEE SHEET 4

SEE SHEET 5

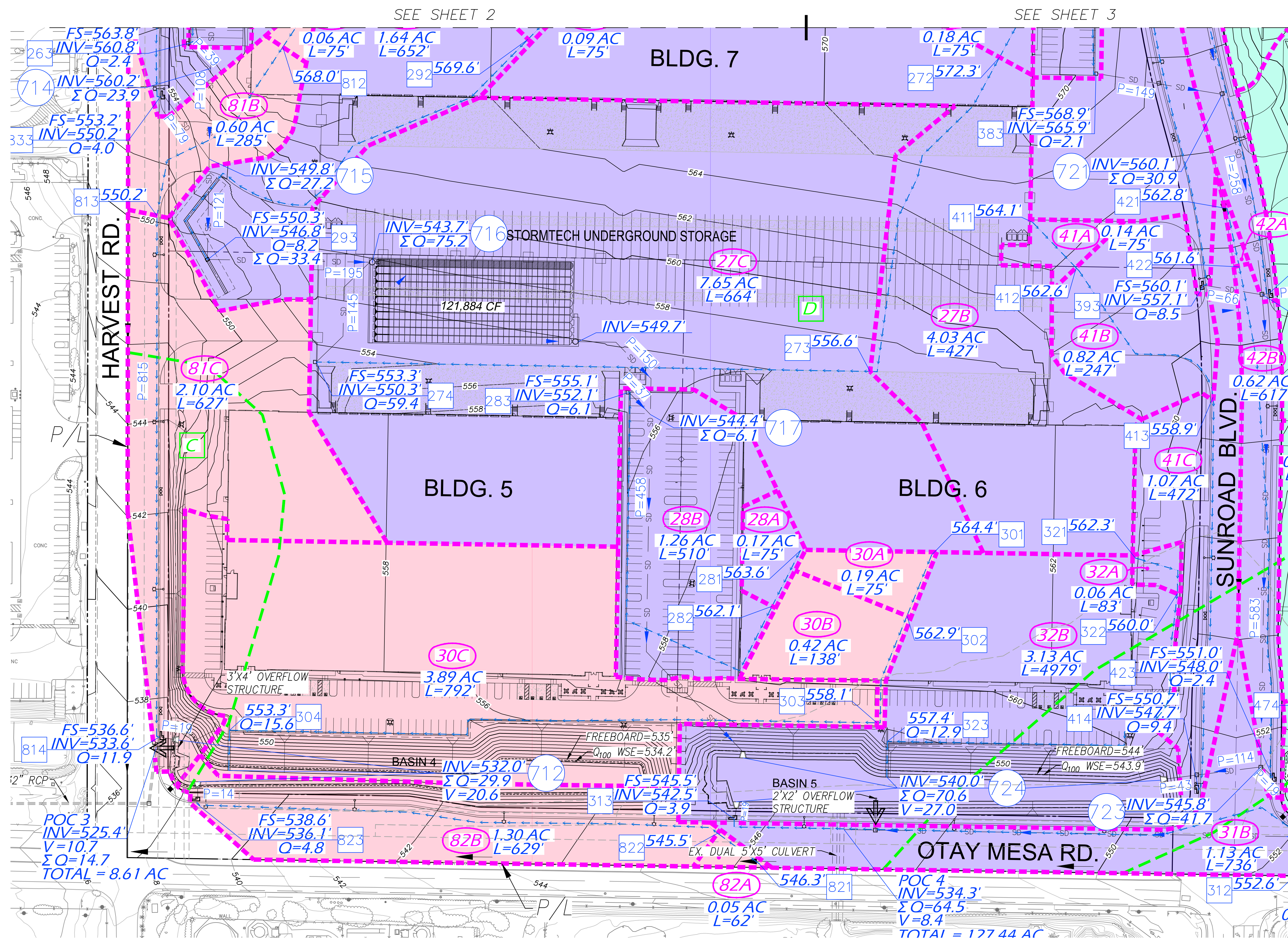
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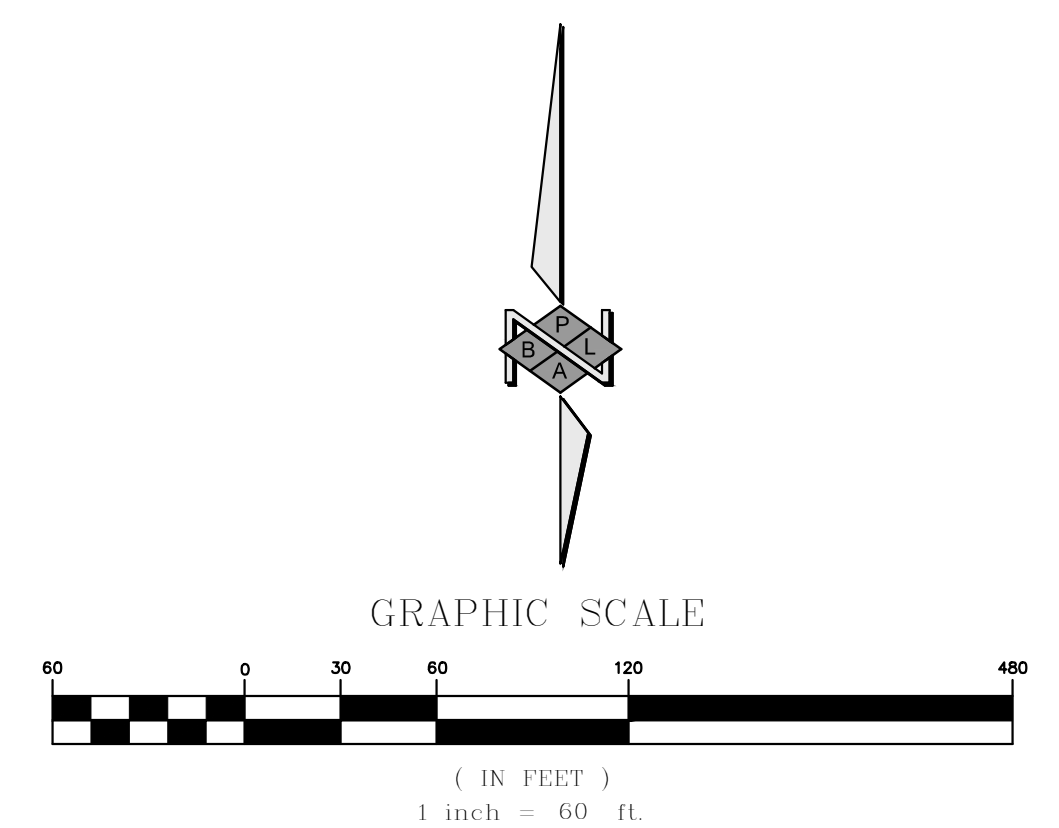
HYDROLOGY MAP
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JOB NO.
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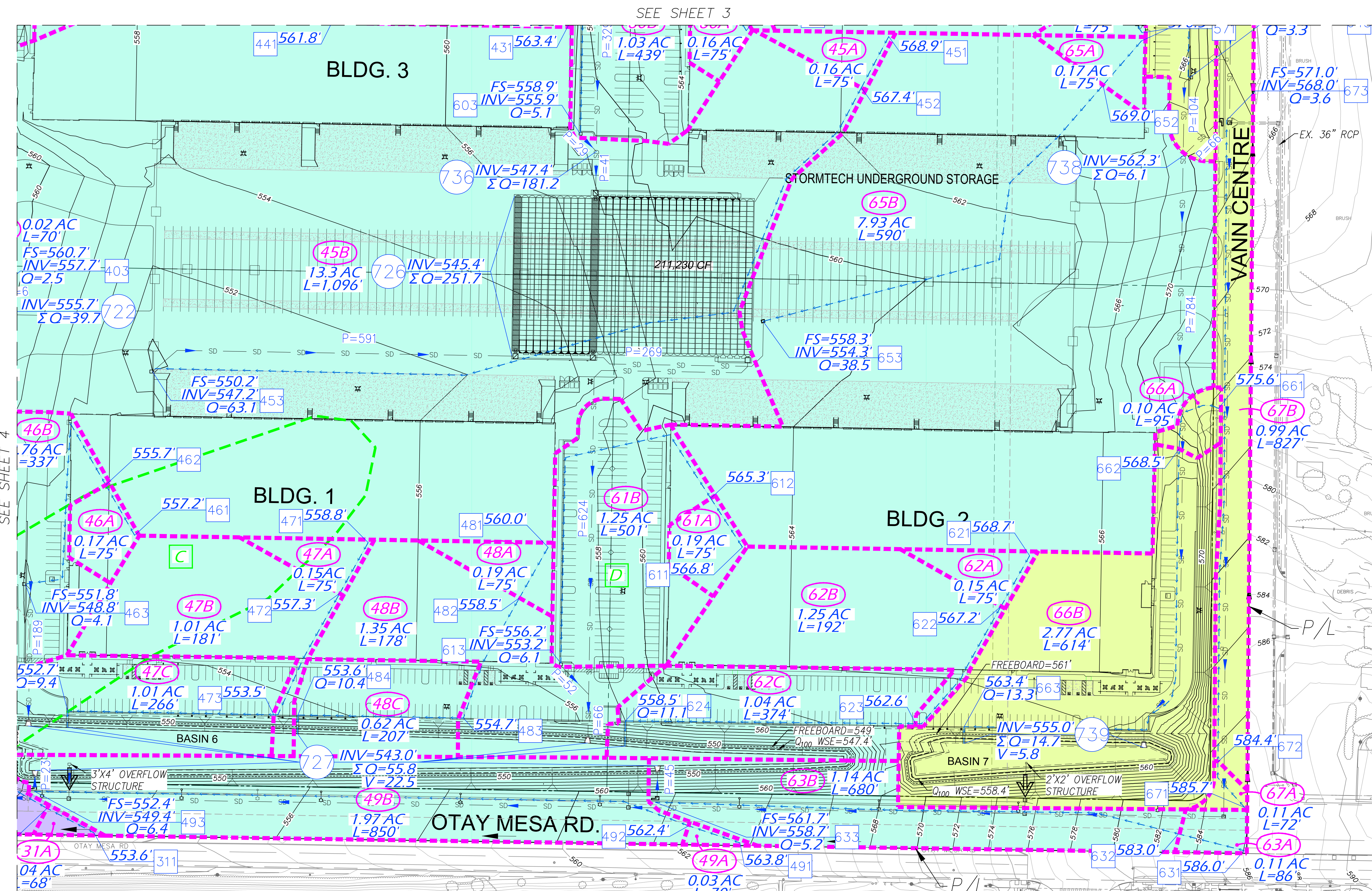
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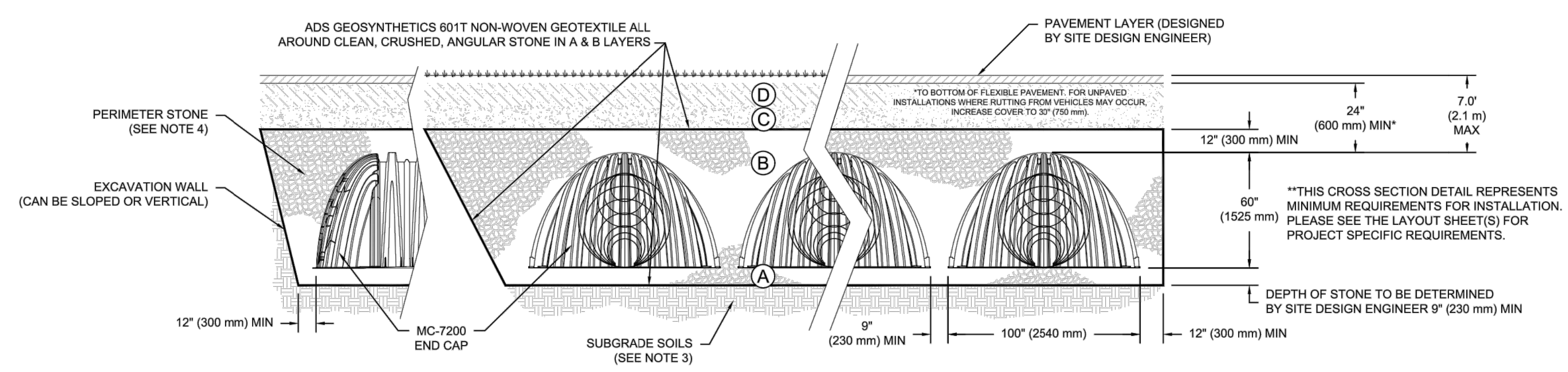
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4 of 5

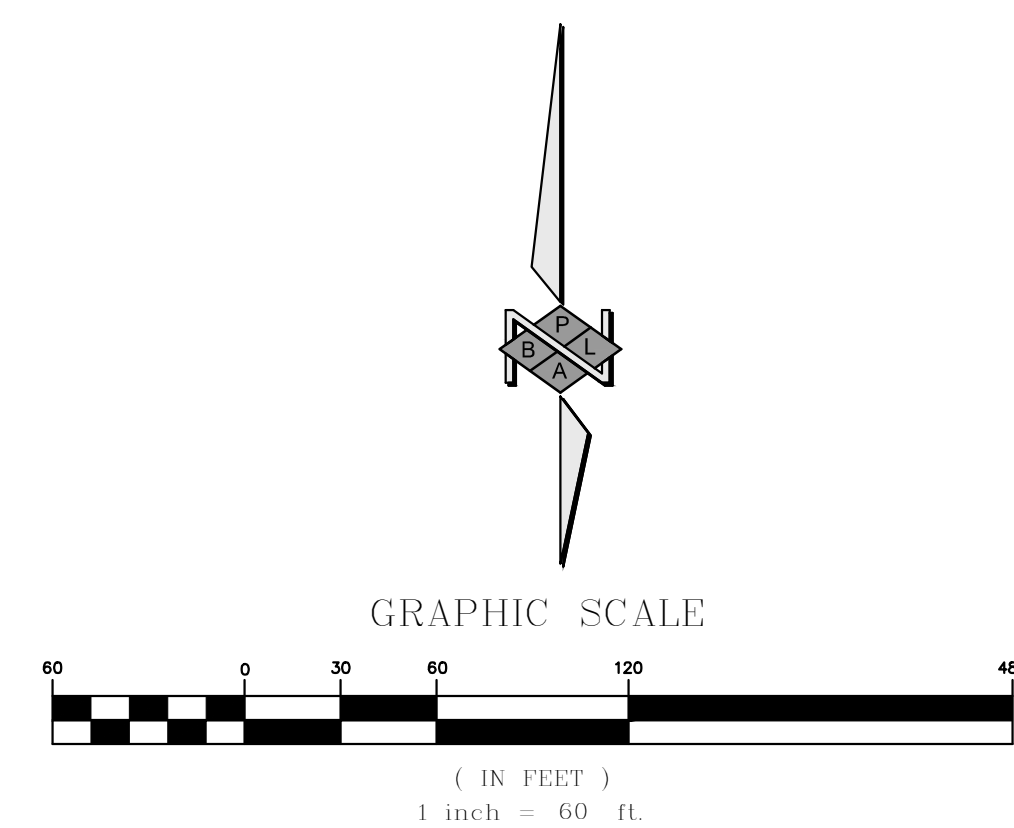
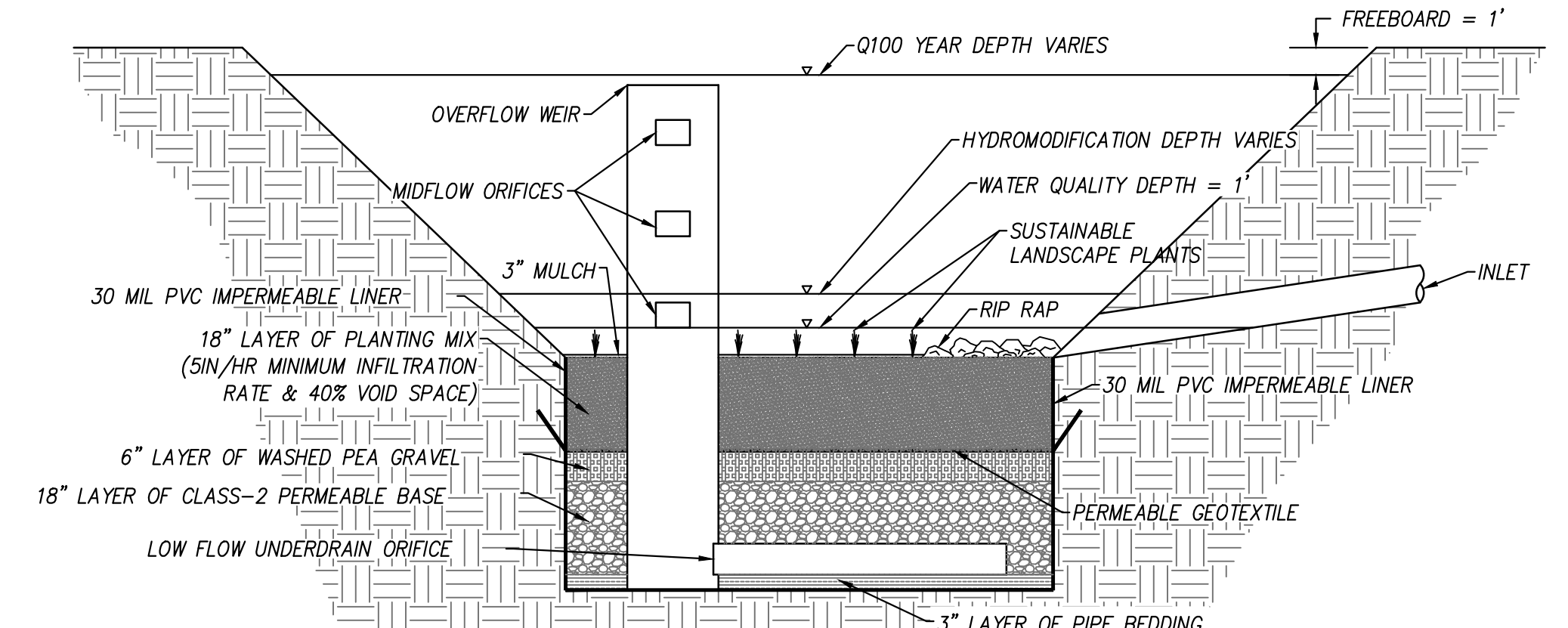


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UNDERGROUND DETENTION BASIN TYPICAL DETAIL



BIO-FILTRATION BASIN TYPICAL DETAIL



APPENDIX B

RATIONAL METHOD HYDROLOGY CALCULATIONS

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/15/24

Sunroad 200 Otay Mesa San Diego County
Existing Condition
100160extrat

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 11.000 to Point/Station 13.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.270
Decimal fraction soil group D = 0.730
[UNDISTURBED NATURAL TERRAIN]
(Permanent Open Space)
Impervious value, Ai = 0.000
Sub-Area C Value = 0.337
Initial subarea total flow distance = 3470.000(Ft.)
Highest elevation = 630.300(Ft.)
Lowest elevation = 526.600(Ft.)
Elevation difference = 103.700(Ft.) Slope = 2.988 %
Top of Initial Area Slope adjusted by User to 2.333 %
Bottom of Initial Area Slope adjusted by User to 3.005 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 85.00 (Ft)
for the top area slope value of 2.33 %, in a development type of
Permanent Open Space
In Accordance With Figure 3-3
Initial Area Time of Concentration = 9.55 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.3365) * (85.000^{.5})] / (2.333^{(1/3)}) = 9.55$
The initial area total distance of 3470.00 (Ft.) entered leaves a
remaining distance of 3385.00 (Ft.)
Using Figure 3-4, the travel time for this distance is 15.72 minutes
for a distance of 3385.00 (Ft.) and a slope of 3.00 %
with an elevation difference of 101.72(Ft.) from the end of the top area
 $Tt = [11.9 * length(Mi)^3] / (elevation change(Ft.))^{.385} * 60 (min/hr)$
= 15.718 Minutes
 $Tt = [(11.9 * 0.6411^3) / (101.72)]^{.385} = 15.72$
Total initial area Ti = 9.55 minutes from Figure 3-3 formula plus
15.72 minutes from the Figure 3-4 formula = 25.27 minutes
Rainfall intensity (I) = 2.316(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.337
Subarea runoff = 51.072(CFS)
Total initial stream area = 65.520(Ac.)

Process from Point/Station 21.000 to Point/Station 23.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
[UNDISTURBED NATURAL TERRAIN]
(Permanent Open Space)
Impervious value, Ai = 0.000
Sub-Area C Value = 0.350
Initial subarea total flow distance = 901.000(Ft.)
Highest elevation = 591.700(Ft.)
Lowest elevation = 559.000(Ft.)
Elevation difference = 32.700(Ft.) Slope = 3.629 %
Top of Initial Area Slope adjusted by User to 5.400 %
Bottom of Initial Area Slope adjusted by User to 3.400 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 100.00 (Ft)
for the top area slope value of 5.40 %, in a development type of
Permanent Open Space
In Accordance With Figure 3-3
Initial Area Time of Concentration = 7.69 minutes
TC = $[1.8*(1.1-C)*distance(Ft.)^0.5]/(%\ slope^{(1/3)})]$
TC = $[1.8*(1.1-0.3500)*(100.000^0.5)/(5.400^{(1/3)})]= 7.69$
The initial area total distance of 901.00 (Ft.) entered leaves a
remaining distance of 801.00 (Ft.)
Using Figure 3-4, the travel time for this distance is 4.94 minutes
for a distance of 801.00 (Ft.) and a slope of 3.40 %
with an elevation difference of 27.23(Ft.) from the end of the top area
Tt = $[11.9*length(Mi)^3]/(elevation\ change(Ft.))^{0.385} *60(min/hr)$
= 4.941 Minutes
Tt= $[11.9*0.1517^3]/(27.23)^{0.385}= 4.94$
Total initial area Ti = 7.69 minutes from Figure 3-3 formula plus
4.94 minutes from the Figure 3-4 formula = 12.64 minutes
Rainfall intensity (I) = 3.622(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.350
Subarea runoff = 7.835(CFS)
Total initial stream area = 6.180(Ac.)

Process from Point/Station 31.000 to Point/Station 33.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.090
Decimal fraction soil group D = 0.910
[UNDISTURBED NATURAL TERRAIN]
(Permanent Open Space)
Impervious value, Ai = 0.000
Sub-Area C Value = 0.346
Initial subarea total flow distance = 2046.000(Ft.)
Highest elevation = 619.000(Ft.)
Lowest elevation = 540.700(Ft.)
Elevation difference = 78.300(Ft.) Slope = 3.827 %
Top of Initial Area Slope adjusted by User to 3.200 %
Bottom of Initial Area Slope adjusted by User to 3.859 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 100.00 (Ft)
for the top area slope value of 3.20 %, in a development type of
Permanent Open Space
In Accordance With Figure 3-3
Initial Area Time of Concentration = 9.22 minutes
TC = $[1.8*(1.1-C)*distance(Ft.)^0.5]/(%\ slope^{(1/3)})]$
TC = $[1.8*(1.1-0.3455)*(100.000^0.5)/(3.200^{(1/3)})]= 9.22$
The initial area total distance of 2046.00 (Ft.) entered leaves a

remaining distance of 1946.00 (Ft.)
 Using Figure 3-4, the travel time for this distance is 9.32 minutes
 for a distance of 1946.00 (Ft.) and a slope of 3.86 %
 with an elevation difference of 75.10(Ft.) from the end of the top area
 $Tt = [11.9 * \text{length}(\text{Mi})^3 / (\text{elevation change}(\text{Ft.}))]^{.385} * 60(\text{min/hr})$
 = 9.321 Minutes
 $Tt = [(11.9 * 0.3686^3) / (75.10)]^{.385} = 9.32$
 Total initial area $Ti = 9.22$ minutes from Figure 3-3 formula plus
 9.32 minutes from the Figure 3-4 formula = 18.54 minutes
 Rainfall intensity (I) = 2.829(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.346
 Subarea runoff = 24.338(CFS)
 Total initial stream area = 24.900(Ac.)

+++++
 Process from Point/Station 41.000 to Point/Station 43.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.180
 Decimal fraction soil group D = 0.820
 [UNDISTURBED NATURAL TERRAIN]
 (Permanent Open Space)
 Impervious value, $A_i = 0.000$
 Sub-Area C Value = 0.341
 Initial subarea total flow distance = 3622.000(Ft.)
 Highest elevation = 630.300(Ft.)
 Lowest elevation = 535.300(Ft.)
 Elevation difference = 95.000(Ft.) Slope = 2.623 %
 Top of Initial Area Slope adjusted by User to 2.000 %
 Bottom of Initial Area Slope adjusted by User to 2.638 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 85.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 Permanent Open Space
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 10.00 minutes
 $TC = [1.8 * (1.1 - C) * \text{distance}(\text{Ft.})^{.5} / (\% \text{ slope}^{(1/3)})]$
 $TC = [1.8 * (1.1 - 0.3410) * (85.000^{.5}) / (2.000^{(1/3)})] = 10.00$
 The initial area total distance of 3622.00 (Ft.) entered leaves a
 remaining distance of 3537.00 (Ft.)
 Using Figure 3-4, the travel time for this distance is 17.09 minutes
 for a distance of 3537.00 (Ft.) and a slope of 2.64 %
 with an elevation difference of 93.31(Ft.) from the end of the top area
 $Tt = [11.9 * \text{length}(\text{Mi})^3 / (\text{elevation change}(\text{Ft.}))]^{.385} * 60(\text{min/hr})$
 = 17.094 Minutes
 $Tt = [(11.9 * 0.6699^3) / (93.31)]^{.385} = 17.09$
 Total initial area $Ti = 10.00$ minutes from Figure 3-3 formula plus
 17.09 minutes from the Figure 3-4 formula = 27.09 minutes
 Rainfall intensity (I) = 2.215(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.341
 Subarea runoff = 84.928(CFS)
 Total initial stream area = 112.450(Ac.)
 End of computations, total study area = 209.050 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/12/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Area 80
100160prratArea80

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

Process from Point/Station 801.000 to Point/Station 802.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
[UNDISTURBED NATURAL TERRAIN]
(Permanent Open Space)
Impervious value, Ai = 0.000
Sub-Area C Value = 0.350
Initial subarea total flow distance = 32.000(Ft.)
Highest elevation = 576.600(Ft.)
Lowest elevation = 573.700(Ft.)
Elevation difference = 2.900(Ft.) Slope = 9.062 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 100.00 (Ft)
for the top area slope value of 9.06 %, in a development type of
Permanent Open Space
In Accordance With Figure 3-3
Initial Area Time of Concentration = 6.48 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.3500)*(100.000^0.5)/(9.062^(1/3))]= 6.48
Rainfall intensity (I) = 5.575(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.350
Subarea runoff = 0.039(CFS)
Total initial stream area = 0.020(Ac.)

Process from Point/Station 802.000 to Point/Station 803.000
**** IMPROVED CHANNEL TRAVEL TIME ****

Upstream point elevation = 573.700(Ft.)
Downstream point elevation = 531.000(Ft.)
Channel length thru subarea = 1193.000(Ft.)
Channel base width = 0.000(Ft.)
Slope or 'Z' of left channel bank = 0.330
Slope or 'Z' of right channel bank = 0.330

Estimated mean flow rate at midpoint of channel = 2.650 (CFS)
 Manning's 'N' = 0.035
 Maximum depth of channel = 2.000 (Ft.)
 Flow (q) thru subarea = 2.650 (CFS)
 Depth of flow = 1.589 (Ft.), Average velocity = 3.179 (Ft/s)
 Channel flow top width = 1.049 (Ft.)
 Flow Velocity = 3.18 (Ft/s)
 Travel time = 6.25 min.
 Time of concentration = 12.73 min.
 Critical depth = 1.320 (Ft.)
 Adding area flow to channel
 Rainfall intensity (I) = 3.605 (In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.350 given for subarea
 Rainfall intensity = 3.605 (In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.350 CA = 1.442
 Subarea runoff = 5.159 (CFS) for 4.100 (Ac.)
 Total runoff = 5.199 (CFS) Total area = 4.120 (Ac.)
 Depth of flow = 2.037 (Ft.), Average velocity = 3.797 (Ft/s)
 !!Warning: Water is above left or right bank elevations
 ERROR - Channel depth exceeds maximum allowable depth
 Critical depth = 1.734 (Ft.)

++++++
 Process from Point/Station 803.000 to Point/Station 1.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 531.000 (Ft.)
 Downstream point/station elevation = 526.000 (Ft.)
 Pipe length = 155.00 (Ft.) Slope = 0.0323 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 5.199 (CFS)
 Nearest computed pipe diameter = 12.00 (In.)
 Calculated individual pipe flow = 5.199 (CFS)
 Normal flow depth in pipe = 8.21 (In.)
 Flow top width inside pipe = 11.15 (In.)
 Critical Depth = 11.12 (In.)
 Pipe flow velocity = 9.08 (Ft/s)
 Travel time through pipe = 0.28 min.
 Time of concentration (TC) = 13.01 min.

++++++
 Process from Point/Station 803.000 to Point/Station 1.000
 **** 6 HOUR HYDROGRAPH ****

Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 13.01
 Basin Area = 4.12 Acres
 6 Hour Rainfall = 2.500 Inches
 Runoff Coefficient = 0.350
 Peak Discharge = 5.20 CFS

Time (Min)	Discharge (CFS)
0	0.000
13	0.220
26	0.225
39	0.238
52	0.244
65	0.260
78	0.268
91	0.287
104	0.299
117	0.325
130	0.340
143	0.377
156	0.400
169	0.458
182	0.497

195	0.607
208	0.692
221	1.015
234	1.431
247	5.199
260	0.814
273	0.545
286	0.426
299	0.357
312	0.311
325	0.277
338	0.252
351	0.231
364	0.215

+++++

6 - H O U R S T O R M
 R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	1.3	2.6	3.9	5.2
0+ 0	0.0000	0.00	Q				
0+ 1	0.0000	0.02	Q				
0+ 2	0.0001	0.03	Q				
0+ 3	0.0001	0.05	Q				
0+ 4	0.0002	0.07	Q				
0+ 5	0.0003	0.08	Q				
0+ 6	0.0005	0.10	Q				
0+ 7	0.0007	0.12	Q				
0+ 8	0.0008	0.14	VQ				
0+ 9	0.0010	0.15	VQ				
0+10	0.0013	0.17	VQ				
0+11	0.0015	0.19	VQ				
0+12	0.0018	0.20	VQ				
0+13	0.0021	0.22	VQ				
0+14	0.0024	0.22	VQ				
0+15	0.0027	0.22	VQ				
0+16	0.0030	0.22	VQ				
0+17	0.0033	0.22	VQ				
0+18	0.0036	0.22	VQ				
0+19	0.0040	0.22	VQ				
0+20	0.0043	0.22	VQ				
0+21	0.0046	0.22	VQ				
0+22	0.0049	0.22	VQ				
0+23	0.0052	0.22	VQ				
0+24	0.0055	0.22	VQ				
0+25	0.0058	0.23	VQ				
0+26	0.0061	0.23	VQ				
0+27	0.0064	0.23	VQ				
0+28	0.0067	0.23	VQ				
0+29	0.0071	0.23	VQ				
0+30	0.0074	0.23	VQ				
0+31	0.0077	0.23	IQ				
0+32	0.0080	0.23	IQ				
0+33	0.0083	0.23	IQ				
0+34	0.0086	0.23	IQ				
0+35	0.0090	0.23	IQ				
0+36	0.0093	0.23	IQ				
0+37	0.0096	0.24	IQ				
0+38	0.0099	0.24	IQ				
0+39	0.0103	0.24	IQ				
0+40	0.0106	0.24	IQ				
0+41	0.0109	0.24	IQ				
0+42	0.0113	0.24	IQ				
0+43	0.0116	0.24	IQ				
0+44	0.0119	0.24	IQ				
0+45	0.0122	0.24	IQ				
0+46	0.0126	0.24	IQ				
0+47	0.0129	0.24	IQ				

0+48	0.0132	0.24	Q				
0+49	0.0136	0.24	Q				
0+50	0.0139	0.24	Q				
0+51	0.0142	0.24	Q				
0+52	0.0146	0.24	Q				
0+53	0.0149	0.25	Q				
0+54	0.0153	0.25	QV				
0+55	0.0156	0.25	QV				
0+56	0.0159	0.25	QV				
0+57	0.0163	0.25	QV				
0+58	0.0166	0.25	QV				
0+59	0.0170	0.25	QV				
1+ 0	0.0173	0.25	QV				
1+ 1	0.0177	0.25	QV				
1+ 2	0.0180	0.26	QV				
1+ 3	0.0184	0.26	QV				
1+ 4	0.0188	0.26	QV				
1+ 5	0.0191	0.26	QV				
1+ 6	0.0195	0.26	Q				
1+ 7	0.0198	0.26	Q				
1+ 8	0.0202	0.26	Q				
1+ 9	0.0205	0.26	Q				
1+10	0.0209	0.26	Q				
1+11	0.0213	0.26	Q				
1+12	0.0216	0.26	Q				
1+13	0.0220	0.26	Q				
1+14	0.0224	0.27	Q				
1+15	0.0227	0.27	QV				
1+16	0.0231	0.27	QV				
1+17	0.0235	0.27	QV				
1+18	0.0238	0.27	QV				
1+19	0.0242	0.27	QV				
1+20	0.0246	0.27	QV				
1+21	0.0250	0.27	QV				
1+22	0.0253	0.27	QV				
1+23	0.0257	0.28	QV				
1+24	0.0261	0.28	QV				
1+25	0.0265	0.28	QV				
1+26	0.0269	0.28	QV				
1+27	0.0273	0.28	QV				
1+28	0.0276	0.28	QV				
1+29	0.0280	0.28	QV				
1+30	0.0284	0.29	QV				
1+31	0.0288	0.29	QV				
1+32	0.0292	0.29	QV				
1+33	0.0296	0.29	QV				
1+34	0.0300	0.29	Q V				
1+35	0.0304	0.29	Q V				
1+36	0.0308	0.29	Q V				
1+37	0.0312	0.29	Q V				
1+38	0.0316	0.29	Q V				
1+39	0.0320	0.29	Q V				
1+40	0.0324	0.30	Q V				
1+41	0.0328	0.30	Q V				
1+42	0.0333	0.30	Q V				
1+43	0.0337	0.30	Q V				
1+44	0.0341	0.30	Q V				
1+45	0.0345	0.30	Q V				
1+46	0.0349	0.30	Q V				
1+47	0.0353	0.30	Q V				
1+48	0.0358	0.31	Q V				
1+49	0.0362	0.31	Q V				
1+50	0.0366	0.31	Q V				
1+51	0.0370	0.31	Q V				
1+52	0.0375	0.31	Q V				
1+53	0.0379	0.32	Q V				
1+54	0.0383	0.32	Q V				
1+55	0.0388	0.32	Q V				
1+56	0.0392	0.32	Q V				
1+57	0.0397	0.32	Q V				
1+58	0.0401	0.33	Q V				

1+59	0.0406	0.33	Q	V					
2+ 0	0.0410	0.33	Q	V					
2+ 1	0.0415	0.33	Q	V					
2+ 2	0.0419	0.33	Q	V					
2+ 3	0.0424	0.33	Q	V					
2+ 4	0.0428	0.33	Q	V					
2+ 5	0.0433	0.33	Q	V					
2+ 6	0.0438	0.34	Q	V					
2+ 7	0.0442	0.34	Q	V					
2+ 8	0.0447	0.34	Q	V					
2+ 9	0.0452	0.34	Q	V					
2+10	0.0456	0.34	Q	V					
2+11	0.0461	0.34	Q	V					
2+12	0.0466	0.35	Q	V					
2+13	0.0471	0.35	Q	V					
2+14	0.0475	0.35	Q	V					
2+15	0.0480	0.35	Q	V					
2+16	0.0485	0.36	Q	V					
2+17	0.0490	0.36	Q	V					
2+18	0.0495	0.36	Q	V					
2+19	0.0500	0.37	Q	V					
2+20	0.0505	0.37	Q	V					
2+21	0.0510	0.37	Q	V					
2+22	0.0516	0.37	Q	V					
2+23	0.0521	0.38	Q	V					
2+24	0.0526	0.38	Q	V					
2+25	0.0531	0.38	Q	V					
2+26	0.0536	0.38	Q	V					
2+27	0.0542	0.38	Q	V					
2+28	0.0547	0.39	Q	V					
2+29	0.0552	0.39	Q	V					
2+30	0.0558	0.39	Q	V					
2+31	0.0563	0.39	Q	V					
2+32	0.0569	0.39	Q	V					
2+33	0.0574	0.39	Q	V					
2+34	0.0579	0.40	Q	V					
2+35	0.0585	0.40	Q	V					
2+36	0.0590	0.40	Q	V					
2+37	0.0596	0.40	Q	V					
2+38	0.0602	0.41	Q	V					
2+39	0.0607	0.41	Q	V					
2+40	0.0613	0.42	Q	V					
2+41	0.0619	0.42	Q	V					
2+42	0.0625	0.43	Q	V					
2+43	0.0631	0.43	Q	V					
2+44	0.0637	0.44	Q	V					
2+45	0.0643	0.44	Q	V					
2+46	0.0649	0.44	Q	V					
2+47	0.0655	0.45	Q	V					
2+48	0.0661	0.45	Q	V					
2+49	0.0668	0.46	Q	V					
2+50	0.0674	0.46	Q	V					
2+51	0.0680	0.46	Q	V					
2+52	0.0687	0.47	Q	V					
2+53	0.0693	0.47	Q	V					
2+54	0.0700	0.47	Q	V					
2+55	0.0706	0.48	Q	V					
2+56	0.0713	0.48	Q	V					
2+57	0.0720	0.48	Q	V					
2+58	0.0726	0.48	Q	V					
2+59	0.0733	0.49	Q	V					
3+ 0	0.0740	0.49	Q	V					
3+ 1	0.0747	0.49	Q	V					
3+ 2	0.0753	0.50	Q	V					
3+ 3	0.0760	0.51	Q	V					
3+ 4	0.0767	0.51	Q	V					
3+ 5	0.0775	0.52	Q	V					
3+ 6	0.0782	0.53	Q	V					
3+ 7	0.0789	0.54	Q	V					
3+ 8	0.0797	0.55	Q	V					
3+ 9	0.0805	0.56	Q	V					

4+21	0.2485	0.79		Q				V	
4+22	0.2496	0.77						V	
4+23	0.2506	0.75		Q				V	
4+24	0.2516	0.73		Q				V	
4+25	0.2526	0.71		Q				V	
4+26	0.2536	0.69		Q				V	
4+27	0.2545	0.67		Q				V	
4+28	0.2554	0.65		Q				V	
4+29	0.2563	0.63		Q				V	
4+30	0.2571	0.61		Q				V	
4+31	0.2579	0.59		Q				V	
4+32	0.2587	0.57		Q				V	
4+33	0.2594	0.54		Q				V	
4+34	0.2602	0.54		Q				V	
4+35	0.2609	0.53		Q				V	
4+36	0.2616	0.52		Q				V	
4+37	0.2623	0.51		Q				V	
4+38	0.2630	0.50		Q				V	
4+39	0.2637	0.49		Q				V	
4+40	0.2643	0.48		Q				V	
4+41	0.2650	0.47		Q				V	
4+42	0.2656	0.46		Q				V	
4+43	0.2662	0.45		Q				V	
4+44	0.2669	0.44		Q				V	
4+45	0.2675	0.44		Q				V	
4+46	0.2680	0.43		Q				V	
4+47	0.2686	0.42		Q				V	
4+48	0.2692	0.42		Q				V	
4+49	0.2698	0.41		Q				V	
4+50	0.2703	0.41		Q				V	
4+51	0.2709	0.40		Q				V	
4+52	0.2714	0.39		Q				V	
4+53	0.2719	0.39		Q				V	
4+54	0.2725	0.38		Q				V	
4+55	0.2730	0.38		Q				V	
4+56	0.2735	0.37		Q				V	
4+57	0.2740	0.37		Q				V	
4+58	0.2745	0.36		Q				V	
4+59	0.2750	0.36		Q				V	
5+ 0	0.2755	0.35		Q				V	
5+ 1	0.2760	0.35		Q				V	
5+ 2	0.2765	0.35		Q				V	
5+ 3	0.2769	0.34		Q				V	
5+ 4	0.2774	0.34		Q				V	
5+ 5	0.2779	0.34		Q				V	
5+ 6	0.2783	0.33		Q				V	
5+ 7	0.2788	0.33		Q				V	
5+ 8	0.2792	0.33		Q				V	
5+ 9	0.2797	0.32		Q				V	
5+10	0.2801	0.32		Q				V	
5+11	0.2805	0.31		Q				V	
5+12	0.2810	0.31		Q				V	
5+13	0.2814	0.31		Q				V	
5+14	0.2818	0.31		Q				V	
5+15	0.2822	0.30		Q				V	
5+16	0.2826	0.30		Q				V	
5+17	0.2830	0.30		Q				V	
5+18	0.2835	0.30		Q				V	
5+19	0.2839	0.29		Q				V	
5+20	0.2843	0.29		Q				V	
5+21	0.2847	0.29		Q				V	
5+22	0.2850	0.29		Q				V	
5+23	0.2854	0.28		Q				V	
5+24	0.2858	0.28		Q				V	
5+25	0.2862	0.28		Q				V	
5+26	0.2866	0.28		Q				V	
5+27	0.2870	0.27		Q				V	
5+28	0.2873	0.27		Q				V	
5+29	0.2877	0.27		Q				V	
5+30	0.2881	0.27		Q				V	
5+31	0.2884	0.27		Q				V	

5+32	0.2888	0.26	Q				V
5+33	0.2892	0.26	Q				V
5+34	0.2895	0.26	Q				V
5+35	0.2899	0.26	Q				V
5+36	0.2902	0.26	Q				V
5+37	0.2906	0.25	Q				V
5+38	0.2909	0.25	Q				V
5+39	0.2913	0.25	Q				V
5+40	0.2916	0.25	Q				V
5+41	0.2919	0.25	Q				V
5+42	0.2923	0.25	Q				V
5+43	0.2926	0.24	Q				V
5+44	0.2930	0.24	Q				V
5+45	0.2933	0.24	Q				V
5+46	0.2936	0.24	Q				V
5+47	0.2939	0.24	Q				V
5+48	0.2943	0.24	Q				V
5+49	0.2946	0.23	Q				V
5+50	0.2949	0.23	Q				V
5+51	0.2952	0.23	Q				V
5+52	0.2955	0.23	Q				V
5+53	0.2959	0.23	Q				V
5+54	0.2962	0.23	Q				V
5+55	0.2965	0.23	Q				V
5+56	0.2968	0.22	Q				V
5+57	0.2971	0.22	Q				V
5+58	0.2974	0.22	Q				V
5+59	0.2977	0.22	Q				V
6+ 0	0.2980	0.22	Q				V
6+ 1	0.2983	0.22	Q				V
6+ 2	0.2986	0.22	Q				V
6+ 3	0.2989	0.22	Q				V
6+ 4	0.2992	0.21	Q				V

End of computations, total study area =

4.120 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/12/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Basin 1
100160prratbas1

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 11.000 to Point/Station 12.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.080
Decimal fraction soil group D = 0.920
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 100.000(Ft.)
Highest elevation = 579.400(Ft.)
Lowest elevation = 568.800(Ft.)
Elevation difference = 10.600(Ft.) Slope = 10.600 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 100.00 (Ft)
for the top area slope value of 10.60 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.30 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8192)*(100.000^0.5)/(10.600^(1/3))]= 2.30
Calculated TC of 2.301 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.755(CFS)
Total initial stream area = 0.140(Ac.)

+++++
Process from Point/Station 12.000 to Point/Station 13.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 2.301 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm

User specified 'C' value of 0.770 given for subarea
Time of concentration = 2.30 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.772 CA = 3.195
Subarea runoff = 20.287(CFS) for 4.000(Ac.)
Total runoff = 21.043(CFS) Total area = 4.140(Ac.)

Process from Point/Station 13.000 to Point/Station 700.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.900(Ft.)
Downstream point/station elevation = 554.400(Ft.)
Pipe length = 100.00(Ft.) Slope = 0.0050 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 21.043(CFS)
Nearest computed pipe diameter = 27.00(In.)
Calculated individual pipe flow = 21.043(CFS)
Normal flow depth in pipe = 21.23(In.)
Flow top width inside pipe = 22.13(In.)
Critical Depth = 19.26(In.)
Pipe flow velocity = 6.27(Ft/s)
Travel time through pipe = 0.27 min.
Time of concentration (TC) = 2.57 min.

Process from Point/Station 13.000 to Point/Station 700.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 4.140(Ac.)
Runoff from this stream = 21.043(CFS)
Time of concentration = 2.57 min.
Rainfall intensity = 6.587(In/Hr)

Process from Point/Station 21.000 to Point/Station 22.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.080
Decimal fraction soil group D = 0.920
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 100.000(Ft.)
Highest elevation = 576.900(Ft.)
Lowest elevation = 570.300(Ft.)
Elevation difference = 6.600(Ft.) Slope = 6.600 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 90.00 (Ft)
for the top area slope value of 6.60 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.56 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8192)*(90.000^0.5)/(6.600^(1/3))]= 2.56
Calculated TC of 2.556 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 1.565(CFS)
Total initial stream area = 0.290(Ac.)

Process from Point/Station 22.000 to Point/Station 700.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 567.300(Ft.)
 Downstream point/station elevation = 554.400(Ft.)
 Pipe length = 108.00(Ft.) Slope = 0.1194 Manning's N = 0.009
 No. of pipes = 1 Required pipe flow = 1.565(CFS)
 Nearest computed pipe diameter = 6.00(In.)
 Calculated individual pipe flow = 1.565(CFS)
 Normal flow depth in pipe = 3.21(In.)
 Flow top width inside pipe = 5.99(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 14.66(Ft/s)
 Travel time through pipe = 0.12 min.
 Time of concentration (TC) = 2.68 min.

 Process from Point/Station 22.000 to Point/Station 700.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 0.290(Ac.)
 Runoff from this stream = 1.565(CFS)
 Time of concentration = 2.68 min.
 Rainfall intensity = 6.587(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	21.043	2.57	6.587
2	1.565	2.68	6.587
Qmax(1) =			
	1.000 *	1.000 *	21.043) +
	1.000 *	0.958 *	1.565) + = 22.542
Qmax(2) =			
	1.000 *	1.000 *	21.043) +
	1.000 *	1.000 *	1.565) + = 22.608

Total of 2 streams to confluence:
 Flow rates before confluence point:
 21.043 1.565
 Maximum flow rates at confluence using above data:
 22.542 22.608
 Area of streams before confluence:
 4.140 0.290
 Results of confluence:
 Total flow rate = 22.608(CFS)
 Time of concentration = 2.679 min.
 Effective stream area after confluence = 4.430(Ac.)

 Process from Point/Station 700.000 to Point/Station 701.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.400(Ft.)
 Downstream point/station elevation = 549.900(Ft.)
 Pipe length = 904.00(Ft.) Slope = 0.0050 Manning's N = 0.009
 No. of pipes = 1 Required pipe flow = 22.608(CFS)
 Nearest computed pipe diameter = 24.00(In.)
 Calculated individual pipe flow = 22.608(CFS)
 Normal flow depth in pipe = 19.27(In.)
 Flow top width inside pipe = 19.10(In.)
 Critical Depth = 20.34(In.)
 Pipe flow velocity = 8.36(Ft/s)
 Travel time through pipe = 1.80 min.
 Time of concentration (TC) = 4.48 min.

Process from Point/Station 700.000 to Point/Station 701.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 4.430(Ac.)
Runoff from this stream = 22.608(CFS)
Time of concentration = 4.48 min.
Rainfall intensity = 6.587(In/Hr)

Process from Point/Station 31.000 to Point/Station 32.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.080
Decimal fraction soil group D = 0.920
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 585.800(Ft.)
Lowest elevation = 584.300(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.47 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8192)*(75.000^0.5)]/(2.000^(1/3))= 3.47
Calculated TC of 3.474 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.971(CFS)
Total initial stream area = 0.180(Ac.)

Process from Point/Station 32.000 to Point/Station 33.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.474 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.770 given for subarea
Time of concentration = 3.47 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.776 CA = 1.125
Subarea runoff = 6.441(CFS) for 1.270(Ac.)
Total runoff = 7.413(CFS) Total area = 1.450(Ac.)

Process from Point/Station 33.000 to Point/Station 34.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 580.300(Ft.)
End of street segment elevation = 578.800(Ft.)
Length of street segment = 301.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 75.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015

Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 7.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 8.576(CFS)
 Depth of flow = 0.452(Ft.), Average velocity = 2.376(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 21.645(Ft.)
 Flow velocity = 2.38(Ft/s)
 Travel time = 2.11 min. TC = 5.59 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.133(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.770 given for subarea
 Rainfall intensity = 6.133(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.774 CA = 1.572
 Subarea runoff = 2.228(CFS) for 0.580(Ac.)
 Total runoff = 9.640(CFS) Total area = 2.030(Ac.)
 Street flow at end of street = 9.640(CFS)
 Half street flow at end of street = 9.640(CFS)
 Depth of flow = 0.467(Ft.), Average velocity = 2.446(Ft/s)
 Flow width (from curb towards crown)= 22.642(Ft.)

++++++
 Process from Point/Station 34.000 to Point/Station 701.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 575.800(Ft.)
 Downstream point/station elevation = 549.900(Ft.)
 Pipe length = 37.00(Ft.) Slope = 0.7000 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 9.640(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 9.640(CFS)
 Normal flow depth in pipe = 5.53(In.)
 Flow top width inside pipe = 8.76(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 33.86(Ft/s)
 Travel time through pipe = 0.02 min.
 Time of concentration (TC) = 5.60 min.

++++++
 Process from Point/Station 34.000 to Point/Station 701.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 2.030(Ac.)
 Runoff from this stream = 9.640(CFS)
 Time of concentration = 5.60 min.
 Rainfall intensity = 6.120(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	22.608	4.48	6.587
2	9.640	5.60	6.120
Qmax(1) =			
	1.000 *	1.000 *	22.608) +
	1.000 *	0.799 *	9.640) + = 30.315
Qmax(2) =			
	0.929 *	1.000 *	22.608) +
	1.000 *	1.000 *	9.640) + = 30.645

Total initial stream area = 0.140(Ac.)

Process from Point/Station 42.000 to Point/Station 43.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.474 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.770 given for subarea
Time of concentration = 3.47 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.774 CA = 1.308
Subarea runoff = 7.861(CFS) for 1.550(Ac.)
Total runoff = 8.617(CFS) Total area = 1.690(Ac.)

Process from Point/Station 43.000 to Point/Station 44.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 578.800(Ft.)
End of street segment elevation = 572.500(Ft.)
Length of street segment = 519.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 75.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 7.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 10.308(CFS)
Depth of flow = 0.421(Ft.), Average velocity = 3.474(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 19.566(Ft.)
Flow velocity = 3.47(Ft/s)
Travel time = 2.49 min. TC = 5.96 min.
Adding area flow to street
Rainfall intensity (I) = 5.879(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.770 given for subarea
Rainfall intensity = 5.879(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.773 CA = 2.032
Subarea runoff = 3.329(CFS) for 0.940(Ac.)
Total runoff = 11.946(CFS) Total area = 2.630(Ac.)
Street flow at end of street = 11.946(CFS)
Half street flow at end of street = 11.946(CFS)
Depth of flow = 0.438(Ft.), Average velocity = 3.604(Ft/s)
Flow width (from curb towards crown)= 20.716(Ft.)

Process from Point/Station 44.000 to Point/Station 702.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 569.500(Ft.)
Downstream point/station elevation = 547.300(Ft.)
Pipe length = 73.00(Ft.) Slope = 0.3041 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 11.946(CFS)
Nearest computed pipe diameter = 12.00(In.)
Calculated individual pipe flow = 11.946(CFS)
Normal flow depth in pipe = 6.76(In.)
Flow top width inside pipe = 11.90(In.)

Critical depth could not be calculated.
 Pipe flow velocity = 26.23(Ft/s)
 Travel time through pipe = 0.05 min.
 Time of concentration (TC) = 6.01 min.

 Process from Point/Station 44.000 to Point/Station 702.000
 **** CONFLUENCE OF MINOR STREAMS ****

 Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 2.630(Ac.)
 Runoff from this stream = 11.946(CFS)
 Time of concentration = 6.01 min.
 Rainfall intensity = 5.850(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	30.645	6.58	5.518
2	11.946	6.01	5.850
Qmax(1) =			
	1.000 *	1.000 *	30.645) +
	0.943 *	1.000 *	11.946) + = 41.914
Qmax(2) =			
	1.000 *	0.914 *	30.645) +
	1.000 *	1.000 *	11.946) + = 39.941

Total of 2 streams to confluence:
 Flow rates before confluence point:
 30.645 11.946
 Maximum flow rates at confluence using above data:
 41.914 39.941
 Area of streams before confluence:
 6.460 2.630
 Results of confluence:
 Total flow rate = 41.914(CFS)
 Time of concentration = 6.579 min.
 Effective stream area after confluence = 9.090(Ac.)

 Process from Point/Station 702.000 to Point/Station 703.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 547.300(Ft.)
 Downstream point/station elevation = 540.000(Ft.)
 Pipe length = 87.00(Ft.) Slope = 0.0839 Manning's N = 0.009
 No. of pipes = 1 Required pipe flow = 41.914(CFS)
 Nearest computed pipe diameter = 18.00(In.)
 Calculated individual pipe flow = 41.914(CFS)
 Normal flow depth in pipe = 14.06(In.)
 Flow top width inside pipe = 14.88(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 28.31(Ft/s)
 Travel time through pipe = 0.05 min.
 Time of concentration (TC) = 6.63 min.

 Process from Point/Station 702.000 to Point/Station 703.000
 **** CONFLUENCE OF MAIN STREAMS ****

 The following data inside Main Stream is listed:
 In Main Stream number: 1
 Stream flow area = 9.090(Ac.)
 Runoff from this stream = 41.914(CFS)
 Time of concentration = 6.63 min.
 Rainfall intensity = 5.491(In/Hr)

Program is now starting with Main Stream No. 2

Process from Point/Station 51.000 to Point/Station 52.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.080
Decimal fraction soil group D = 0.920
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 585.800(Ft.)
Lowest elevation = 584.300(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.47 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8192)*(75.000^0.5)/(2.000^(1/3))]= 3.47
Calculated TC of 3.474 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.324(CFS)
Total initial stream area = 0.060(Ac.)

Process from Point/Station 52.000 to Point/Station 53.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.474 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.770 given for subarea
Time of concentration = 3.47 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.772 CA = 1.019
Subarea runoff = 6.391(CFS) for 1.260(Ac.)
Total runoff = 6.714(CFS) Total area = 1.320(Ac.)

Process from Point/Station 53.000 to Point/Station 54.000
**** IRREGULAR CHANNEL FLOW TRAVEL TIME ****

Estimated mean flow rate at midpoint of channel = 26.011(CFS)
Depth of flow = 1.041(Ft.), Average velocity = 2.998(Ft/s)
***** Irregular Channel Data *****

Information entered for subchannel number 1 :
Point number 'X' coordinate 'Y' coordinate
1 0.00 1.25
2 10.00 0.00
3 20.00 1.25
Manning's 'N' friction factor = 0.035

Sub-Channel flow = 26.011(CFS)
' ' flow top width = 16.661(Ft.)
' ' velocity= 2.998(Ft/s)
' ' area = 8.675(Sq.Ft)
' ' Froude number = 0.732

Upstream point elevation = 573.900(Ft.)
 Downstream point elevation = 564.300(Ft.)
 Flow length = 798.000(Ft.)
 Travel time = 4.44 min.
 Time of concentration = 7.91 min.
 Depth of flow = 1.041(Ft.)
 Average velocity = 2.998(Ft/s)
 Total irregular channel flow = 26.011(CFS)
 Irregular channel normal depth above invert elev. = 1.041(Ft.)
 Average velocity of channel(s) = 2.998(Ft/s)
 Adding area flow to channel
 Rainfall intensity (I) = 4.900(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.770 given for subarea
 Rainfall intensity = 4.900(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.770 CA = 9.235
 Subarea runoff = 38.538(CFS) for 10.670(Ac.)
 Total runoff = 45.252(CFS) Total area = 11.990(Ac.)
 Depth of flow = 1.276(Ft.), Average velocity = 3.478(Ft/s)
 !!Warning: Water is above left or right bank elevations

++++++
 Process from Point/Station 54.000 to Point/Station 703.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 561.300(Ft.)
 Downstream point/station elevation = 540.000(Ft.)
 Pipe length = 156.00(Ft.) Slope = 0.1365 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 45.252(CFS)
 Nearest computed pipe diameter = 21.00(In.)
 Calculated individual pipe flow = 45.252(CFS)
 Normal flow depth in pipe = 13.85(In.)
 Flow top width inside pipe = 19.90(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 26.87(Ft/s)
 Travel time through pipe = 0.10 min.
 Time of concentration (TC) = 8.01 min.

++++++
 Process from Point/Station 54.000 to Point/Station 703.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
 In Main Stream number: 2
 Stream flow area = 11.990(Ac.)
 Runoff from this stream = 45.252(CFS)
 Time of concentration = 8.01 min.
 Rainfall intensity = 4.862(In/Hr)
 Program is now starting with Main Stream No. 3

++++++
 Process from Point/Station 61.000 to Point/Station 62.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.080
 Decimal fraction soil group D = 0.920
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.819
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 582.300(Ft.)
 Lowest elevation = 580.800(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:

The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.47 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(%\ slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8192)*(75.000^0.5)/(2.000^{(1/3)})] = 3.47$
 Calculated TC of 3.474 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
 Subarea runoff = 0.701(CFS)
 Total initial stream area = 0.130(Ac.)

 Process from Point/Station 62.000 to Point/Station 63.000
 **** SUBAREA FLOW ADDITION ****

Calculated TC of 3.474 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.770 given for subarea
 Time of concentration = 3.47 min.
 Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.772 CA = 2.832
 Subarea runoff = 17.954(CFS) for 3.540(Ac.)
 Total runoff = 18.656(CFS) Total area = 3.670(Ac.)

 Process from Point/Station 63.000 to Point/Station 703.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
 In Main Stream number: 3
 Stream flow area = 3.670(Ac.)
 Runoff from this stream = 18.656(CFS)
 Time of concentration = 3.47 min.
 Rainfall intensity = 6.587(In/Hr)
 Program is now starting with Main Stream No. 4

 Process from Point/Station 681.000 to Point/Station 682.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.080
 Decimal fraction soil group D = 0.920
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.819
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 559.400(Ft.)
 Lowest elevation = 558.100(Ft.)
 Elevation difference = 1.300(Ft.) Slope = 1.733 %
 Top of Initial Area Slope adjusted by User to 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.47 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(%\ slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8192)*(75.000^0.5)/(2.000^{(1/3)})] = 3.47$
 Calculated TC of 3.474 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.162(CFS)
Total initial stream area = 0.030(Ac.)

Process from Point/Station 682.000 to Point/Station 683.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 558.100(Ft.)
End of street segment elevation = 547.200(Ft.)
Length of street segment = 764.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 26.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 0.709(CFS)
Depth of flow = 0.217(Ft.), Average velocity = 1.967(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 5.943(Ft.)
Flow velocity = 1.97(Ft/s)
Travel time = 6.47 min. TC = 9.95 min.
Adding area flow to street
Rainfall intensity (I) = 4.227(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.770 given for subarea
Rainfall intensity = 4.227(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.774 CA = 0.317
Subarea runoff = 1.179(CFS) for 0.380(Ac.)
Total runoff = 1.341(CFS) Total area = 0.410(Ac.)
Street flow at end of street = 1.341(CFS)
Half street flow at end of street = 1.341(CFS)
Depth of flow = 0.250(Ft.), Average velocity = 2.256(Ft/s)
Flow width (from curb towards crown) = 8.153(Ft.)

Process from Point/Station 683.000 to Point/Station 740.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 544.200(Ft.)
Downstream point/station elevation = 543.600(Ft.)
Pipe length = 53.00(Ft.) Slope = 0.0113 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 1.341(CFS)
Nearest computed pipe diameter = 9.00(In.)
Calculated individual pipe flow = 1.341(CFS)
Normal flow depth in pipe = 5.88(In.)
Flow top width inside pipe = 8.57(In.)
Critical Depth = 6.41(In.)
Pipe flow velocity = 4.39(Ft/s)
Travel time through pipe = 0.20 min.
Time of concentration (TC) = 10.15 min.

Process from Point/Station 683.000 to Point/Station 740.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 4 in normal stream number 1
Stream flow area = 0.410(Ac.)
Runoff from this stream = 1.341(CFS)

Time of concentration = 10.15 min.
Rainfall intensity = 4.172(In/Hr)

Process from Point/Station 71.000 to Point/Station 72.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.080
Decimal fraction soil group D = 0.920
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 65.000(Ft.)
Highest elevation = 559.400(Ft.)
Lowest elevation = 558.400(Ft.)
Elevation difference = 1.000(Ft.) Slope = 1.538 %
Top of Initial Area Slope adjusted by User to 1.330 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 60.00 (Ft)
for the top area slope value of 1.33 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.56 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8192)*(60.000^0.5)/(1.330^(1/3))]= 3.56
Calculated TC of 3.560 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.108(CFS)
Total initial stream area = 0.020(Ac.)

Process from Point/Station 72.000 to Point/Station 740.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 558.400(Ft.)
End of street segment elevation = 546.600(Ft.)
Length of street segment = 774.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 34.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 16.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 2.416(CFS)
Depth of flow = 0.284(Ft.), Average velocity = 2.655(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 10.421(Ft.)
Flow velocity = 2.65(Ft/s)
Travel time = 4.86 min. TC = 8.42 min.
Adding area flow to street
Rainfall intensity (I) = 4.707(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.770 given for subarea
Rainfall intensity = 4.707(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.771 CA = 1.017
Subarea runoff = 4.681(CFS) for 1.300(Ac.)
Total runoff = 4.789(CFS) Total area = 1.320(Ac.)

Street flow at end of street = 4.789(CFS)
 Half street flow at end of street = 4.789(CFS)
 Depth of flow = 0.335(Ft.), Average velocity = 3.132(Ft/s)
 Flow width (from curb towards crown)= 13.823(Ft.)

 Process from Point/Station 72.000 to Point/Station 740.000
 **** CONFLUENCE OF MINOR STREAMS ****

 Along Main Stream number: 4 in normal stream number 2
 Stream flow area = 1.320(Ac.)
 Runoff from this stream = 4.789(CFS)
 Time of concentration = 8.42 min.
 Rainfall intensity = 4.707(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	1.341	10.15	4.172
2	4.789	8.42	4.707
Qmax(1) =			
	1.000 *	1.000 *	1.341) +
	0.886 *	1.000 *	4.789) + = 5.586
Qmax(2) =			
	1.000 *	0.830 *	1.341) +
	1.000 *	1.000 *	4.789) + = 5.901

Total of 2 streams to confluence:
 Flow rates before confluence point:
 1.341 4.789
 Maximum flow rates at confluence using above data:
 5.586 5.901
 Area of streams before confluence:
 0.410 1.320
 Results of confluence:
 Total flow rate = 5.901(CFS)
 Time of concentration = 8.419 min.
 Effective stream area after confluence = 1.730(Ac.)

 Process from Point/Station 740.000 to Point/Station 703.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 543.600(Ft.)
 Downstream point/station elevation = 540.000(Ft.)
 Pipe length = 26.00(Ft.) Slope = 0.1385 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 5.901(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 5.901(CFS)
 Normal flow depth in pipe = 7.07(In.)
 Flow top width inside pipe = 7.39(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 15.87(Ft/s)
 Travel time through pipe = 0.03 min.
 Time of concentration (TC) = 8.45 min.

 Process from Point/Station 740.000 to Point/Station 703.000
 **** CONFLUENCE OF MAIN STREAMS ****

 The following data inside Main Stream is listed:
 In Main Stream number: 4
 Stream flow area = 1.730(Ac.)
 Runoff from this stream = 5.901(CFS)
 Time of concentration = 8.45 min.
 Rainfall intensity = 4.697(In/Hr)

Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	41.914	6.63	5.491
2	45.252	8.01	4.862
3	18.656	3.47	6.587
4	5.901	8.45	4.697
Qmax (1) =			
	1.000 *	1.000 *	41.914) +
	1.000 *	0.828 *	45.252) +
	0.834 *	1.000 *	18.656) +
	1.000 *	0.785 *	5.901) + =
			99.570
Qmax (2) =			
	0.885 *	1.000 *	41.914) +
	1.000 *	1.000 *	45.252) +
	0.738 *	1.000 *	18.656) +
	1.000 *	0.948 *	5.901) + =
			101.728
Qmax (3) =			
	1.000 *	0.524 *	41.914) +
	1.000 *	0.434 *	45.252) +
	1.000 *	1.000 *	18.656) +
	1.000 *	0.411 *	5.901) + =
			62.681
Qmax (4) =			
	0.855 *	1.000 *	41.914) +
	0.966 *	1.000 *	45.252) +
	0.713 *	1.000 *	18.656) +
	1.000 *	1.000 *	5.901) + =
			98.777

Total of 4 main streams to confluence:

Flow rates before confluence point:

41.914 45.252 18.656 5.901

Maximum flow rates at confluence using above data:

99.570 101.728 62.681 98.777

Area of streams before confluence:

9.090 11.990 3.670 1.730

Results of confluence:

Total flow rate = 101.728(CFS)

Time of concentration = 8.007 min.

Effective stream area after confluence = 26.480(Ac.)

 Process from Point/Station 703.000 to Point/Station 703.000
 **** 6 HOUR HYDROGRAPH ****

 Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 8.01

Basin Area = 26.48 Acres

6 Hour Rainfall = 2.500 Inches

Runoff Coefficient = 0.772

Peak Discharge = 101.73 CFS

Time (Min)	Discharge (CFS)
0	0.000
8	3.051
16	3.097
24	3.192
32	3.243
40	3.350
48	3.408
56	3.530
64	3.596
72	3.737
80	3.813

88	3.978
96	4.068
104	4.263
112	4.370
120	4.607
128	4.738
136	5.031
144	5.196
152	5.572
160	5.787
168	6.291
176	6.588
184	7.306
192	7.748
200	8.881
208	9.630
216	11.771
224	13.407
232	19.685
240	27.736
248	101.728
256	15.789
264	10.564
272	8.266
280	6.923
288	6.026
296	5.376
304	4.879
312	4.484
320	4.162
328	3.894
336	3.665
344	3.468
352	3.295
360	3.143
368	3.008

+++++

6 - H O U R S T O R M

R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals ((CFS))

Time (h+m)	Volume	Ac.Ft	Q(CFS)	0	25.4	50.9	76.3	101.7
0+ 0	0.0000		0.00	Q				
0+ 1	0.0005		0.38	Q				
0+ 2	0.0016		0.76	Q				
0+ 3	0.0032		1.14	Q				
0+ 4	0.0053		1.53	Q				
0+ 5	0.0079		1.91	Q				
0+ 6	0.0110		2.29	Q				
0+ 7	0.0147		2.67	VQ				
0+ 8	0.0189		3.05	VQ				
0+ 9	0.0231		3.06	VQ				
0+10	0.0273		3.06	VQ				
0+11	0.0316		3.07	VQ				
0+12	0.0358		3.07	VQ				
0+13	0.0400		3.08	VQ				
0+14	0.0443		3.09	VQ				
0+15	0.0486		3.09	VQ				
0+16	0.0528		3.10	VQ				
0+17	0.0571		3.11	VQ				
0+18	0.0614		3.12	VQ				
0+19	0.0657		3.13	VQ				
0+20	0.0700		3.14	VQ				
0+21	0.0744		3.16	VQ				
0+22	0.0788		3.17	VQ				
0+23	0.0831		3.18	VQ				
0+24	0.0875		3.19	VQ				
0+25	0.0919		3.20	VQ				

0+26	0.0964	3.20	VQ				
0+27	0.1008	3.21	VQ				
0+28	0.1052	3.22	VQ				
0+29	0.1096	3.22	IQ				
0+30	0.1141	3.23	IQ				
0+31	0.1186	3.24	IQ				
0+32	0.1230	3.24	IQ				
0+33	0.1275	3.26	IQ				
0+34	0.1320	3.27	IQ				
0+35	0.1365	3.28	IQ				
0+36	0.1411	3.30	IQ				
0+37	0.1456	3.31	IQ				
0+38	0.1502	3.32	IQ				
0+39	0.1548	3.34	IQ				
0+40	0.1594	3.35	IQ				
0+41	0.1640	3.36	IQ				
0+42	0.1687	3.36	IQ				
0+43	0.1733	3.37	IQ				
0+44	0.1780	3.38	IQ				
0+45	0.1826	3.39	IQ				
0+46	0.1873	3.39	IQ				
0+47	0.1920	3.40	IQ				
0+48	0.1967	3.41	IQ				
0+49	0.2014	3.42	IQ				
0+50	0.2061	3.44	IQ				
0+51	0.2109	3.45	IQ				
0+52	0.2157	3.47	IQV				
0+53	0.2205	3.48	IQV				
0+54	0.2253	3.50	IQV				
0+55	0.2301	3.51	IQV				
0+56	0.2350	3.53	IQV				
0+57	0.2399	3.54	IQV				
0+58	0.2448	3.55	IQV				
0+59	0.2497	3.55	IQV				
1+ 0	0.2546	3.56	IQV				
1+ 1	0.2595	3.57	IQV				
1+ 2	0.2644	3.58	IQV				
1+ 3	0.2694	3.59	IQV				
1+ 4	0.2743	3.60	IQV				
1+ 5	0.2793	3.61	IQV				
1+ 6	0.2843	3.63	IQV				
1+ 7	0.2893	3.65	IQV				
1+ 8	0.2944	3.67	IQV				
1+ 9	0.2994	3.68	IQV				
1+10	0.3045	3.70	IQV				
1+11	0.3097	3.72	IQV				
1+12	0.3148	3.74	IQV				
1+13	0.3200	3.75	IQV				
1+14	0.3251	3.76	IQ V				
1+15	0.3303	3.77	IQ V				
1+16	0.3355	3.78	IQ V				
1+17	0.3407	3.78	IQ V				
1+18	0.3460	3.79	IQ V				
1+19	0.3512	3.80	IQ V				
1+20	0.3565	3.81	IQ V				
1+21	0.3617	3.83	IQ V				
1+22	0.3671	3.85	IQ V				
1+23	0.3724	3.88	IQ V				
1+24	0.3778	3.90	IQ V				
1+25	0.3832	3.92	IQ V				
1+26	0.3886	3.94	IQ V				
1+27	0.3940	3.96	IQ V				
1+28	0.3995	3.98	IQ V				
1+29	0.4050	3.99	IQ V				
1+30	0.4105	4.00	IQ V				
1+31	0.4160	4.01	IQ V				
1+32	0.4216	4.02	IQ V				
1+33	0.4271	4.03	IQ V				
1+34	0.4327	4.05	IQ V				
1+35	0.4383	4.06	IQ V				
1+36	0.4439	4.07	IQ V				

1+37	0.4495	4.09	Q	V					
1+38	0.4552	4.12	Q	V					
1+39	0.4609	4.14	Q	V					
1+40	0.4666	4.17	Q	V					
1+41	0.4724	4.19	Q	V					
1+42	0.4782	4.21	Q	V					
1+43	0.4841	4.24	Q	V					
1+44	0.4899	4.26	Q	V					
1+45	0.4958	4.28	Q	V					
1+46	0.5017	4.29	Q	V					
1+47	0.5077	4.30	Q	V					
1+48	0.5136	4.32	Q	V					
1+49	0.5196	4.33	Q	V					
1+50	0.5255	4.34	Q	V					
1+51	0.5316	4.36	Q	V					
1+52	0.5376	4.37	Q	V					
1+53	0.5436	4.40	Q	V					
1+54	0.5497	4.43	Q	V					
1+55	0.5559	4.46	Q	V					
1+56	0.5621	4.49	Q	V					
1+57	0.5683	4.52	Q	V					
1+58	0.5745	4.55	Q	V					
1+59	0.5808	4.58	Q	V					
2+ 0	0.5872	4.61	Q	V					
2+ 1	0.5936	4.62	Q	V					
2+ 2	0.6000	4.64	Q	V					
2+ 3	0.6064	4.66	Q	V					
2+ 4	0.6128	4.67	Q	V					
2+ 5	0.6193	4.69	Q	V					
2+ 6	0.6257	4.70	Q	V					
2+ 7	0.6322	4.72	Q	V					
2+ 8	0.6388	4.74	Q	V					
2+ 9	0.6453	4.77	Q	V					
2+10	0.6520	4.81	Q	V					
2+11	0.6586	4.85	Q	V					
2+12	0.6654	4.88	Q	V					
2+13	0.6722	4.92	Q	V					
2+14	0.6790	4.96	Q	V					
2+15	0.6859	4.99	Q	V					
2+16	0.6928	5.03	Q	V					
2+17	0.6998	5.05	Q	V					
2+18	0.7067	5.07	Q	V					
2+19	0.7138	5.09	Q	V					
2+20	0.7208	5.11	Q	V					
2+21	0.7279	5.13	Q	V					
2+22	0.7350	5.15	Q	V					
2+23	0.7421	5.18	Q	V					
2+24	0.7493	5.20	Q	V					
2+25	0.7565	5.24	Q	V					
2+26	0.7638	5.29	Q	V					
2+27	0.7711	5.34	Q	V					
2+28	0.7785	5.38	Q	V					
2+29	0.7860	5.43	Q	V					
2+30	0.7936	5.48	Q	V					
2+31	0.8012	5.52	Q	V					
2+32	0.8088	5.57	Q	V					
2+33	0.8166	5.60	Q	V					
2+34	0.8243	5.63	Q	V					
2+35	0.8321	5.65	Q	V					
2+36	0.8399	5.68	Q	V					
2+37	0.8478	5.71	Q	V					
2+38	0.8557	5.73	Q	V					
2+39	0.8636	5.76	Q	V					
2+40	0.8716	5.79	Q	V					
2+41	0.8796	5.85	Q	V					
2+42	0.8878	5.91	Q	V					
2+43	0.8960	5.98	Q	V					
2+44	0.9043	6.04	Q	V					
2+45	0.9127	6.10	Q	V					
2+46	0.9212	6.16	Q	V					
2+47	0.9298	6.23	Q	V					

2+48	0.9385	6.29	Q	V					
2+49	0.9472	6.33	Q	V					
2+50	0.9559	6.36	Q	V					
2+51	0.9648	6.40	Q	V					
2+52	0.9736	6.44	Q	V					
2+53	0.9826	6.48	Q	V					
2+54	0.9915	6.51	Q	V					
2+55	1.0006	6.55	Q	V					
2+56	1.0096	6.59	Q	V					
2+57	1.0188	6.68	Q	V					
2+58	1.0281	6.77	Q	V					
2+59	1.0376	6.86	Q	V					
3+ 0	1.0472	6.95	Q	V					
3+ 1	1.0569	7.04	Q	V					
3+ 2	1.0667	7.13	Q	V					
3+ 3	1.0766	7.22	Q	V					
3+ 4	1.0867	7.31	Q	V					
3+ 5	1.0968	7.36	Q	V					
3+ 6	1.1070	7.42	Q	V					
3+ 7	1.1173	7.47	Q	V					
3+ 8	1.1277	7.53	Q	V					
3+ 9	1.1381	7.58	Q	V					
3+10	1.1487	7.64	Q	V					
3+11	1.1592	7.69	Q	V					
3+12	1.1699	7.75	Q	V					
3+13	1.1808	7.89	Q	V					
3+14	1.1919	8.03	Q	V					
3+15	1.2031	8.17	Q	V					
3+16	1.2146	8.31	Q	V					
3+17	1.2262	8.46	Q	V					
3+18	1.2381	8.60	Q	V					
3+19	1.2501	8.74	Q	V					
3+20	1.2623	8.88	Q	V					
3+21	1.2747	8.98	Q	V					
3+22	1.2872	9.07	Q	V					
3+23	1.2998	9.16	Q	V					
3+24	1.3125	9.26	Q	V					
3+25	1.3254	9.35	Q	V					
3+26	1.3384	9.44	Q	V					
3+27	1.3516	9.54	Q	V					
3+28	1.3648	9.63	Q	V					
3+29	1.3785	9.90	Q	V					
3+30	1.3925	10.17	Q	V					
3+31	1.4068	10.43	Q	V					
3+32	1.4216	10.70	Q	V					
3+33	1.4367	10.97	Q	V					
3+34	1.4522	11.24	Q	V					
3+35	1.4680	11.50	Q	V					
3+36	1.4842	11.77	Q	V					
3+37	1.5007	11.98	Q	V					
3+38	1.5175	12.18	Q	V					
3+39	1.5345	12.38	Q	V					
3+40	1.5519	12.59	Q	V					
3+41	1.5695	12.79	Q	V					
3+42	1.5874	13.00	Q	V					
3+43	1.6056	13.20	Q	V					
3+44	1.6241	13.41	Q	V					
3+45	1.6436	14.19	Q	V					
3+46	1.6642	14.98	Q	V					
3+47	1.6859	15.76	Q	V					
3+48	1.7087	16.55	Q	V					
3+49	1.7326	17.33	Q	V					
3+50	1.7576	18.12	Q	V					
3+51	1.7836	18.90	Q	V					
3+52	1.8107	19.69	Q	V					
3+53	1.8392	20.69	Q	V					
3+54	1.8691	21.70	Q	V					
3+55	1.9004	22.70	Q	V					
3+56	1.9330	23.71	Q	V					
3+57	1.9671	24.72	Q	V					
3+58	2.0025	25.72	Q	V					

3+59	2.0393	26.73			Q		V			
4+ 0	2.0775	27.74			Q		V			
4+ 1	2.1285	36.99				Q	V			
4+ 2	2.1922	46.23					Q V			
4+ 3	2.2686	55.48					Q			
4+ 4	2.3577	64.73					V Q			
4+ 5	2.4596	73.98					V V	Q		
4+ 6	2.5743	83.23					V V	Q		
4+ 7	2.7017	92.48					V V		Q	
4+ 8	2.8418	101.73					V V			Q
4+ 9	2.9671	90.99					V V		Q	
4+10	3.0776	80.24					V V	Q		
4+11	3.1734	69.50					Q V			
4+12	3.2543	58.76					V			
4+13	3.3204	48.02				Q		V		
4+14	3.3718	37.27			Q			V		
4+15	3.4083	26.53			Q			V		
4+16	3.4301	15.79				Q			V	
4+17	3.4509	15.14				Q			V	
4+18	3.4709	14.48				Q			V	
4+19	3.4899	13.83				Q			V	
4+20	3.5081	13.18				Q			V	
4+21	3.5253	12.52				Q			V	
4+22	3.5417	11.87				Q			V	
4+23	3.5571	11.22				Q			V	
4+24	3.5717	10.56				Q			V	
4+25	3.5858	10.28				Q			V	
4+26	3.5996	9.99				Q			V	
4+27	3.6129	9.70				Q			V	
4+28	3.6259	9.41				Q			V	
4+29	3.6385	9.13				Q			V	
4+30	3.6507	8.84				Q			V	
4+31	3.6624	8.55				Q			V	
4+32	3.6738	8.27				Q			V	
4+33	3.6850	8.10				Q			V	
4+34	3.6959	7.93				Q			V	
4+35	3.7066	7.76				Q			V	
4+36	3.7171	7.59				Q			V	
4+37	3.7273	7.43				Q			V	
4+38	3.7373	7.26				Q			V	
4+39	3.7471	7.09				Q			V	
4+40	3.7566	6.92				Q			V	
4+41	3.7660	6.81				Q			V	
4+42	3.7752	6.70				Q			V	
4+43	3.7843	6.59				Q			V	
4+44	3.7932	6.47				Q			V	
4+45	3.8020	6.36				Q			V	
4+46	3.8106	6.25				Q			V	
4+47	3.8190	6.14				Q			V	
4+48	3.8273	6.03				Q			V	
4+49	3.8355	5.94				Q			V	
4+50	3.8436	5.86				Q			V	
4+51	3.8515	5.78				Q			V	
4+52	3.8594	5.70				Q			V	
4+53	3.8671	5.62				Q			V	
4+54	3.8748	5.54				Q			V	
4+55	3.8823	5.46				Q			V	
4+56	3.8897	5.38				Q			V	
4+57	3.8970	5.31				Q			V	
4+58	3.9042	5.25				Q			V	
4+59	3.9114	5.19				Q			V	
5+ 0	3.9184	5.13				Q			V	
5+ 1	3.9254	5.07				Q			V	
5+ 2	3.9323	5.00				Q			V	
5+ 3	3.9391	4.94				Q			V	
5+ 4	3.9458	4.88				Q			V	
5+ 5	3.9525	4.83				Q			V	
5+ 6	3.9591	4.78				Q			V	
5+ 7	3.9656	4.73				Q			V	
5+ 8	3.9720	4.68				Q			V	
5+ 9	3.9784	4.63				Q			V	

5+10	3.9847	4.58	Q				V	
5+11	3.9910	4.53	Q				V	
5+12	3.9972	4.48	Q				V	
5+13	4.0033	4.44	Q				V	
5+14	4.0093	4.40	Q				V	
5+15	4.0154	4.36	Q				V	
5+16	4.0213	4.32	Q				V	
5+17	4.0272	4.28	Q				V	
5+18	4.0331	4.24	Q				V	
5+19	4.0388	4.20	Q				V	
5+20	4.0446	4.16	Q				V	
5+21	4.0503	4.13	Q				V	
5+22	4.0559	4.10	Q				V	
5+23	4.0615	4.06	Q				V	
5+24	4.0670	4.03	Q				V	
5+25	4.0725	3.99	Q				V	
5+26	4.0780	3.96	Q				V	
5+27	4.0834	3.93	Q				V	
5+28	4.0888	3.89	Q				V	
5+29	4.0941	3.86	Q				V	
5+30	4.0994	3.84	Q				V	
5+31	4.1046	3.81	Q				V	
5+32	4.1098	3.78	Q				V	
5+33	4.1150	3.75	Q				V	
5+34	4.1201	3.72	Q				V	
5+35	4.1252	3.69	Q				V	
5+36	4.1303	3.66	Q				V	
5+37	4.1353	3.64	Q				V	
5+38	4.1403	3.62	Q				V	
5+39	4.1452	3.59	Q				V	
5+40	4.1501	3.57	Q				V	
5+41	4.1550	3.54	Q				V	
5+42	4.1598	3.52	Q				V	
5+43	4.1646	3.49	Q				V	
5+44	4.1694	3.47	Q				V	
5+45	4.1742	3.45	Q				V	
5+46	4.1789	3.42	Q				V	
5+47	4.1836	3.40	Q				V	
5+48	4.1882	3.38	Q				V	
5+49	4.1929	3.36	Q				V	
5+50	4.1975	3.34	Q				V	
5+51	4.2020	3.32	Q				V	
5+52	4.2066	3.30	Q				V	
5+53	4.2111	3.28	Q				V	
5+54	4.2156	3.26	Q				V	
5+55	4.2200	3.24	Q				V	
5+56	4.2245	3.22	Q				V	
5+57	4.2289	3.20	Q				V	
5+58	4.2333	3.18	Q				V	
5+59	4.2376	3.16	Q				V	
6+ 0	4.2419	3.14	Q				V	
6+ 1	4.2462	3.13	Q				V	
6+ 2	4.2505	3.11	Q				V	
6+ 3	4.2548	3.09	Q				V	
6+ 4	4.2590	3.08	Q				V	
6+ 5	4.2632	3.06	Q				V	
6+ 6	4.2674	3.04	Q				V	
6+ 7	4.2716	3.02	Q				V	
6+ 8	4.2757	3.01	Q				V	

End of computations, total study area = 26.480 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/12/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Basin 2
100160prratbas2

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 81.000 to Point/Station 82.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.250
Decimal fraction soil group D = 0.750
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 582.500(Ft.)
Lowest elevation = 581.000(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.50 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8175)*(75.000^0.5)/(2.000^(1/3))]= 3.50
Calculated TC of 3.495 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.862(CFS)
Total initial stream area = 0.160(Ac.)

+++++
Process from Point/Station 82.000 to Point/Station 83.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.495 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm

User specified 'C' value of 0.690 given for subarea
Time of concentration = 3.50 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.696 CA = 2.228
Subarea runoff = 13.817(CFS) for 3.040(Ac.)
Total runoff = 14.678(CFS) Total area = 3.200(Ac.)

Process from Point/Station 83.000 to Point/Station 704.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 1
Stream flow area = 3.200(Ac.)
Runoff from this stream = 14.678(CFS)
Time of concentration = 3.50 min.
Rainfall intensity = 6.587(In/Hr)
Program is now starting with Main Stream No. 2

Process from Point/Station 91.000 to Point/Station 92.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.250
Decimal fraction soil group D = 0.750
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 55.000(Ft.)
Highest elevation = 559.400(Ft.)
Lowest elevation = 558.900(Ft.)
Elevation difference = 0.500(Ft.) Slope = 0.909 %
Top of Initial Area Slope adjusted by User to 0.750 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 60.00 (Ft)
for the top area slope value of 0.75 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 4.34 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8175)*(60.000^0.5)/(0.750^(1/3))]= 4.34
Calculated TC of 4.335 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.269(CFS)
Total initial stream area = 0.050(Ac.)

Process from Point/Station 92.000 to Point/Station 93.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 558.900(Ft.)
End of street segment elevation = 557.500(Ft.)
Length of street segment = 185.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 34.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)

Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 0.914(CFS)
Depth of flow = 0.246(Ft.), Average velocity = 1.619(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 7.907(Ft.)
Flow velocity = 1.62(Ft/s)
Travel time = 1.90 min. TC = 6.24 min.
Adding area flow to street
Rainfall intensity (I) = 5.710(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.690 given for subarea
Rainfall intensity = 5.710(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.706 CA = 0.289
Subarea runoff = 1.383(CFS) for 0.360(Ac.)
Total runoff = 1.652(CFS) Total area = 0.410(Ac.)
Street flow at end of street = 1.652(CFS)
Half street flow at end of street = 1.652(CFS)
Depth of flow = 0.282(Ft.), Average velocity = 1.857(Ft/s)
Flow width (from curb towards crown)= 10.288(Ft.)

Process from Point/Station 93.000 to Point/Station 704.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.500(Ft.)
Downstream point/station elevation = 550.000(Ft.)
Pipe length = 13.00(Ft.) Slope = 0.3462 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 1.652(CFS)
Nearest computed pipe diameter = 6.00(In.)
Calculated individual pipe flow = 1.652(CFS)
Normal flow depth in pipe = 3.00(In.)
Flow top width inside pipe = 6.00(In.)
Critical depth could not be calculated.
Pipe flow velocity = 16.81(Ft/s)
Travel time through pipe = 0.01 min.
Time of concentration (TC) = 6.25 min.

Process from Point/Station 93.000 to Point/Station 704.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area = 0.410(Ac.)
Runoff from this stream = 1.652(CFS)
Time of concentration = 6.25 min.
Rainfall intensity = 5.702(In/Hr)
Program is now starting with Main Stream No. 3

Process from Point/Station 101.000 to Point/Station 102.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.250
Decimal fraction soil group D = 0.750
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 585.800(Ft.)
Lowest elevation = 584.000(Ft.)
Elevation difference = 1.800(Ft.) Slope = 2.400 %

Top of Initial Area Slope adjusted by User to 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.50 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (\% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8175) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.50$
 Calculated TC of 3.495 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
 Subarea runoff = 0.969(CFS)
 Total initial stream area = 0.180(Ac.)

 Process from Point/Station 102.000 to Point/Station 103.000
 **** SUBAREA FLOW ADDITION ****

Calculated TC of 3.495 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.690 given for subarea
 Time of concentration = 3.50 min.
 Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.707 CA = 0.948
 Subarea runoff = 5.272(CFS) for 1.160(Ac.)
 Total runoff = 6.241(CFS) Total area = 1.340(Ac.)

 Process from Point/Station 103.000 to Point/Station 104.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 580.800(Ft.)
 End of street segment elevation = 579.300(Ft.)
 Length of street segment = 301.000(Ft.)
 Height of curb above gutter flowline = 6.0(In.)
 Width of half street (curb to crown) = 64.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 6.000(Ft.)
 Slope from curb to property line (v/hz) = 0.500
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 8.322(CFS)
 Depth of flow = 0.448(Ft.), Average velocity = 2.358(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 21.396(Ft.)
 Flow velocity = 2.36(Ft/s)
 Travel time = 2.13 min. TC = 5.62 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.107(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.690 given for subarea
 Rainfall intensity = 6.107(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.699 CA = 1.693
 Subarea runoff = 4.096(CFS) for 1.080(Ac.)
 Total runoff = 10.337(CFS) Total area = 2.420(Ac.)
 Street flow at end of street = 10.337(CFS)
 Half street flow at end of street = 10.337(CFS)
 Depth of flow = 0.476(Ft.), Average velocity = 2.489(Ft/s)
 Flow width (from curb towards crown) = 23.258(Ft.)

Process from Point/Station 104.000 to Point/Station 705.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 576.300(Ft.)
Downstream point/station elevation = 573.000(Ft.)
Pipe length = 663.00(Ft.) Slope = 0.0050 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 10.337(CFS)
Nearest computed pipe diameter = 21.00(In.)
Calculated individual pipe flow = 10.337(CFS)
Normal flow depth in pipe = 15.94(In.)
Flow top width inside pipe = 17.96(In.)
Critical Depth = 14.37(In.)
Pipe flow velocity = 5.28(Ft/s)
Travel time through pipe = 2.09 min.
Time of concentration (TC) = 7.72 min.

Process from Point/Station 104.000 to Point/Station 705.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 3 in normal stream number 1
Stream flow area = 2.420(Ac.)
Runoff from this stream = 10.337(CFS)
Time of concentration = 7.72 min.
Rainfall intensity = 4.979(In/Hr)

Process from Point/Station 111.000 to Point/Station 112.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.250
Decimal fraction soil group D = 0.750
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 584.400(Ft.)
Lowest elevation = 582.900(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.50 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8175)*(75.000^0.5)/(2.000^(1/3))]= 3.50
Calculated TC of 3.495 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.592(CFS)
Total initial stream area = 0.110(Ac.)

Process from Point/Station 112.000 to Point/Station 113.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.495 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.690 given for subarea

Time of concentration = 3.50 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.698 CA = 1.270
Subarea runoff = 7.772(CFS) for 1.710(Ac.)
Total runoff = 8.364(CFS) Total area = 1.820(Ac.)

Process from Point/Station 113.000 to Point/Station 114.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 579.200(Ft.)
End of street segment elevation = 576.400(Ft.)
Length of street segment = 569.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 6.000(Ft.)
Slope from curb to property line (v/hz) = 0.500
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 10.291(CFS)
Depth of flow = 0.477(Ft.), Average velocity = 2.475(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 23.274(Ft.)
Flow velocity = 2.47(Ft/s)
Travel time = 3.83 min. TC = 7.33 min.
Adding area flow to street
Rainfall intensity (I) = 5.148(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.690 given for subarea
Rainfall intensity = 5.148(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.694 CA = 2.360
Subarea runoff = 3.785(CFS) for 1.580(Ac.)
Total runoff = 12.149(CFS) Total area = 3.400(Ac.)
Street flow at end of street = 12.149(CFS)
Half street flow at end of street = 12.149(CFS)
Depth of flow = 0.500(Ft.), Average velocity = 2.580(Ft/s)
Flow width (from curb towards crown)= 24.803(Ft.)

Process from Point/Station 114.000 to Point/Station 705.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 573.400(Ft.)
Downstream point/station elevation = 573.000(Ft.)
Pipe length = 36.00(Ft.) Slope = 0.0111 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 12.149(CFS)
Nearest computed pipe diameter = 21.00(In.)
Calculated individual pipe flow = 12.149(CFS)
Normal flow depth in pipe = 13.29(In.)
Flow top width inside pipe = 20.25(In.)
Critical Depth = 15.59(In.)
Pipe flow velocity = 7.57(Ft/s)
Travel time through pipe = 0.08 min.
Time of concentration (TC) = 7.41 min.

Process from Point/Station 114.000 to Point/Station 705.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 3 in normal stream number 2

Stream flow area = 3.400 (Ac.)
 Runoff from this stream = 12.149 (CFS)
 Time of concentration = 7.41 min.
 Rainfall intensity = 5.112 (In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	10.337	7.72	4.979
2	12.149	7.41	5.112
Qmax(1) =			
	1.000 *	1.000 *	10.337) +
	0.974 *	1.000 *	12.149) + = 22.168
Qmax(2) =			
	1.000 *	0.960 *	10.337) +
	1.000 *	1.000 *	12.149) + = 22.070

Total of 2 streams to confluence:
 Flow rates before confluence point:
 10.337 12.149
 Maximum flow rates at confluence using above data:
 22.168 22.070
 Area of streams before confluence:
 2.420 3.400
 Results of confluence:
 Total flow rate = 22.168 (CFS)
 Time of concentration = 7.717 min.
 Effective stream area after confluence = 5.820 (Ac.)

 Process from Point/Station 705.000 to Point/Station 704.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 573.000 (Ft.)
 Downstream point/station elevation = 550.000 (Ft.)
 Pipe length = 45.00 (Ft.) Slope = 0.5111 Manning's N = 0.009
 No. of pipes = 1 Required pipe flow = 22.168 (CFS)
 Nearest computed pipe diameter = 12.00 (In.)
 Calculated individual pipe flow = 22.168 (CFS)
 Normal flow depth in pipe = 6.71 (In.)
 Flow top width inside pipe = 11.91 (In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 49.01 (Ft/s)
 Travel time through pipe = 0.02 min.
 Time of concentration (TC) = 7.73 min.

 Process from Point/Station 705.000 to Point/Station 704.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
 In Main Stream number: 3
 Stream flow area = 5.820 (Ac.)
 Runoff from this stream = 22.168 (CFS)
 Time of concentration = 7.73 min.
 Rainfall intensity = 4.972 (In/Hr)
 Program is now starting with Main Stream No. 4

 Process from Point/Station 121.000 to Point/Station 122.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.250
 Decimal fraction soil group D = 0.750

[COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.818
 Initial subarea total flow distance = 87.000(Ft.)
 Highest elevation = 595.200(Ft.)
 Lowest elevation = 591.900(Ft.)
 Elevation difference = 3.300(Ft.) Slope = 3.793 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 85.00 (Ft)
 for the top area slope value of 3.80 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.00 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}/(%\ slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8175)*(85.000^{.5})/(3.800^{(1/3)})] = 3.00$
 Calculated TC of 3.004 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
 Subarea runoff = 0.431(CFS)
 Total initial stream area = 0.080(Ac.)

 Process from Point/Station 122.000 to Point/Station 123.000
 **** SUBAREA FLOW ADDITION ****

Calculated TC of 3.004 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.690 given for subarea
 Time of concentration = 3.00 min.
 Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.699 CA = 0.783
 Subarea runoff = 4.727(CFS) for 1.040(Ac.)
 Total runoff = 5.157(CFS) Total area = 1.120(Ac.)

 Process from Point/Station 123.000 to Point/Station 124.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 562.300(Ft.)
 End of street segment elevation = 556.200(Ft.)
 Length of street segment = 248.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 8.726(CFS)
 Depth of flow = 0.367(Ft.), Average velocity = 4.348(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 15.964(Ft.)
 Flow velocity = 4.35(Ft/s)
 Travel time = 0.95 min. TC = 3.95 min.
 Adding area flow to street
 Calculated TC of 3.955 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.690 given for subarea

Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.694 CA = 1.853
 Subarea runoff = 7.045(CFS) for 1.550(Ac.)
 Total runoff = 12.202(CFS) Total area = 2.670(Ac.)
 Street flow at end of street = 12.202(CFS)
 Half street flow at end of street = 12.202(CFS)
 Depth of flow = 0.401(Ft.), Average velocity = 4.724(Ft/s)
 Flow width (from curb towards crown)= 18.211(Ft.)

++++++
 Process from Point/Station 124.000 to Point/Station 704.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 553.200(Ft.)
 Downstream point/station elevation = 550.000(Ft.)
 Pipe length = 13.00(Ft.) Slope = 0.2462 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 12.202(CFS)
 Nearest computed pipe diameter = 12.00(In.)
 Calculated individual pipe flow = 12.202(CFS)
 Normal flow depth in pipe = 7.33(In.)
 Flow top width inside pipe = 11.70(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 24.28(Ft/s)
 Travel time through pipe = 0.01 min.
 Time of concentration (TC) = 3.96 min.

++++++
 Process from Point/Station 124.000 to Point/Station 704.000
 **** CONFLUENCE OF MAIN STREAMS ****

 The following data inside Main Stream is listed:

In Main Stream number: 4
 Stream flow area = 2.670(Ac.)
 Runoff from this stream = 12.202(CFS)
 Time of concentration = 3.96 min.
 Rainfall intensity = 6.587(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	14.678	3.50	6.587
2	1.652	6.25	5.702
3	22.168	7.73	4.972
4	12.202	3.96	6.587
Qmax(1) =			
	1.000 *	1.000 *	14.678) +
	1.000 *	0.559 *	1.652) +
	1.000 *	0.452 *	22.168) +
	1.000 *	0.882 *	12.202) + =
			36.382
Qmax(2) =			
	0.866 *	1.000 *	14.678) +
	1.000 *	1.000 *	1.652) +
	1.000 *	0.809 *	22.168) +
	0.866 *	1.000 *	12.202) + =
			42.848
Qmax(3) =			
	0.755 *	1.000 *	14.678) +
	0.872 *	1.000 *	1.652) +
	1.000 *	1.000 *	22.168) +
	0.755 *	1.000 *	12.202) + =
			43.900
Qmax(4) =			
	1.000 *	1.000 *	14.678) +
	1.000 *	0.634 *	1.652) +
	1.000 *	0.513 *	22.168) +
	1.000 *	1.000 *	12.202) + =
			39.291

Total of 4 main streams to confluence:

Flow rates before confluence point:
 14.678 1.652 22.168 12.202
 Maximum flow rates at confluence using above data:
 36.382 42.848 43.900 39.291
 Area of streams before confluence:
 3.200 0.410 5.820 2.670

Results of confluence:
 Total flow rate = 43.900 (CFS)
 Time of concentration = 7.732 min.
 Effective stream area after confluence = 12.100 (Ac.)

++++
 Process from Point/Station 704.000 to Point/Station 704.000
 **** 6 HOUR HYDROGRAPH ****

++++
 Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 7.73
 Basin Area = 12.10 Acres
 6 Hour Rainfall = 2.500 Inches
 Runoff Coefficient = 0.696
 Peak Discharge = 43.90 CFS

Time (Min)	Discharge (CFS)
0	0.000
7	1.263
14	1.280
21	1.314
28	1.332
35	1.371
42	1.391
49	1.434
56	1.457
63	1.505
70	1.531
77	1.586
84	1.615
91	1.679
98	1.713
105	1.787
112	1.827
119	1.915
126	1.963
133	2.069
140	2.128
147	2.260
154	2.334
161	2.503
168	2.600
175	2.826
182	2.959
189	3.282
196	3.480
203	3.989
210	4.326
217	5.287
224	6.022
231	8.842
238	12.459
245	43.900
252	7.092
259	4.745
266	3.713
273	3.110
280	2.707
287	2.415
294	2.191

301	2.014
308	1.870
315	1.749
322	1.646
329	1.558
336	1.480
343	1.412
350	1.351
357	1.297
364	1.247

+++++

6 - H O U R S T O R M
 R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals ((CFS))

Time (h+m)	Volume Ac.Ft	Q (CFS)	0	11.0	21.9	32.9	43.9
0+ 0	0.0000	0.00	Q				
0+ 1	0.0002	0.18	Q				
0+ 2	0.0007	0.36	Q				
0+ 3	0.0015	0.54	Q				
0+ 4	0.0025	0.72	Q				
0+ 5	0.0037	0.90	Q				
0+ 6	0.0052	1.08	Q				
0+ 7	0.0070	1.26	VQ				
0+ 8	0.0087	1.27	VQ				
0+ 9	0.0105	1.27	VQ				
0+10	0.0122	1.27	VQ				
0+11	0.0140	1.27	VQ				
0+12	0.0157	1.28	VQ				
0+13	0.0175	1.28	VQ				
0+14	0.0192	1.28	VQ				
0+15	0.0210	1.28	VQ				
0+16	0.0228	1.29	VQ				
0+17	0.0246	1.29	VQ				
0+18	0.0263	1.30	VQ				
0+19	0.0281	1.30	VQ				
0+20	0.0299	1.31	VQ				
0+21	0.0318	1.31	VQ				
0+22	0.0336	1.32	VQ				
0+23	0.0354	1.32	VQ				
0+24	0.0372	1.32	VQ				
0+25	0.0390	1.32	VQ				
0+26	0.0409	1.33	VQ				
0+27	0.0427	1.33	VQ				
0+28	0.0445	1.33	IQ				
0+29	0.0464	1.34	IQ				
0+30	0.0482	1.34	IQ				
0+31	0.0501	1.35	IQ				
0+32	0.0519	1.35	IQ				
0+33	0.0538	1.36	IQ				
0+34	0.0557	1.37	IQ				
0+35	0.0576	1.37	IQ				
0+36	0.0595	1.37	IQ				
0+37	0.0614	1.38	IQ				
0+38	0.0633	1.38	IQ				
0+39	0.0652	1.38	IQ				
0+40	0.0671	1.39	IQ				
0+41	0.0690	1.39	IQ				
0+42	0.0709	1.39	IQ				
0+43	0.0728	1.40	IQ				
0+44	0.0748	1.40	IQ				
0+45	0.0767	1.41	IQ				
0+46	0.0787	1.42	IQ				
0+47	0.0806	1.42	IQ				
0+48	0.0826	1.43	IQ				
0+49	0.0846	1.43	IQ				
0+50	0.0865	1.44	IQ				
0+51	0.0885	1.44	IQV				

0+52	0.0905	1.44	QV				
0+53	0.0925	1.45	QV				
0+54	0.0945	1.45	QV				
0+55	0.0965	1.45	QV				
0+56	0.0985	1.46	QV				
0+57	0.1005	1.46	QV				
0+58	0.1026	1.47	QV				
0+59	0.1046	1.48	QV				
1+ 0	0.1066	1.48	QV				
1+ 1	0.1087	1.49	QV				
1+ 2	0.1108	1.50	QV				
1+ 3	0.1128	1.50	QV				
1+ 4	0.1149	1.51	QV				
1+ 5	0.1170	1.51	QV				
1+ 6	0.1191	1.52	QV				
1+ 7	0.1212	1.52	QV				
1+ 8	0.1233	1.52	QV				
1+ 9	0.1254	1.53	QV				
1+10	0.1275	1.53	QV				
1+11	0.1296	1.54	QV				
1+12	0.1317	1.55	Q V				
1+13	0.1339	1.55	Q V				
1+14	0.1360	1.56	Q V				
1+15	0.1382	1.57	Q V				
1+16	0.1404	1.58	Q V				
1+17	0.1425	1.59	Q V				
1+18	0.1447	1.59	Q V				
1+19	0.1469	1.59	Q V				
1+20	0.1491	1.60	Q V				
1+21	0.1513	1.60	Q V				
1+22	0.1535	1.61	Q V				
1+23	0.1558	1.61	Q V				
1+24	0.1580	1.62	Q V				
1+25	0.1602	1.62	Q V				
1+26	0.1625	1.63	Q V				
1+27	0.1647	1.64	Q V				
1+28	0.1670	1.65	Q V				
1+29	0.1693	1.66	Q V				
1+30	0.1716	1.67	Q V				
1+31	0.1739	1.68	Q V				
1+32	0.1762	1.68	Q V				
1+33	0.1786	1.69	Q V				
1+34	0.1809	1.69	Q V				
1+35	0.1832	1.70	Q V				
1+36	0.1856	1.70	Q V				
1+37	0.1879	1.71	Q V				
1+38	0.1903	1.71	Q V				
1+39	0.1927	1.72	Q V				
1+40	0.1950	1.73	Q V				
1+41	0.1975	1.74	Q V				
1+42	0.1999	1.76	Q V				
1+43	0.2023	1.77	Q V				
1+44	0.2047	1.78	Q V				
1+45	0.2072	1.79	Q V				
1+46	0.2097	1.79	Q V				
1+47	0.2122	1.80	Q V				
1+48	0.2146	1.80	Q V				
1+49	0.2171	1.81	Q V				
1+50	0.2196	1.82	Q V				
1+51	0.2221	1.82	Q V				
1+52	0.2247	1.83	Q V				
1+53	0.2272	1.84	Q V				
1+54	0.2297	1.85	Q V				
1+55	0.2323	1.86	Q V				
1+56	0.2349	1.88	Q V				
1+57	0.2375	1.89	Q V				
1+58	0.2401	1.90	Q V				
1+59	0.2428	1.91	Q V				
2+ 0	0.2454	1.92	Q V				
2+ 1	0.2481	1.93	Q V				
2+ 2	0.2507	1.94	Q V				

2+ 3	0.2534	1.94	Q	V					
2+ 4	0.2561	1.95	Q	V					
2+ 5	0.2588	1.96	Q	V					
2+ 6	0.2615	1.96	Q	V					
2+ 7	0.2642	1.98	Q	V					
2+ 8	0.2670	1.99	Q	V					
2+ 9	0.2697	2.01	Q	V					
2+10	0.2725	2.02	Q	V					
2+11	0.2753	2.04	Q	V					
2+12	0.2782	2.05	Q	V					
2+13	0.2810	2.07	Q	V					
2+14	0.2839	2.08	Q	V					
2+15	0.2867	2.09	Q	V					
2+16	0.2896	2.09	Q	V					
2+17	0.2925	2.10	Q	V					
2+18	0.2954	2.11	Q	V					
2+19	0.2983	2.12	Q	V					
2+20	0.3013	2.13	Q	V					
2+21	0.3042	2.15	Q	V					
2+22	0.3072	2.17	Q	V					
2+23	0.3102	2.18	Q	V					
2+24	0.3133	2.20	Q	V					
2+25	0.3163	2.22	Q	V					
2+26	0.3194	2.24	Q	V					
2+27	0.3225	2.26	Q	V					
2+28	0.3257	2.27	Q	V					
2+29	0.3288	2.28	Q	V					
2+30	0.3319	2.29	Q	V					
2+31	0.3351	2.30	Q	V					
2+32	0.3383	2.31	Q	V					
2+33	0.3415	2.32	Q	V					
2+34	0.3447	2.33	Q	V					
2+35	0.3480	2.36	Q	V					
2+36	0.3513	2.38	Q	V					
2+37	0.3546	2.41	Q	V					
2+38	0.3579	2.43	Q	V					
2+39	0.3613	2.45	Q	V					
2+40	0.3647	2.48	Q	V					
2+41	0.3682	2.50	Q	V					
2+42	0.3716	2.52	Q	V					
2+43	0.3751	2.53	Q	V					
2+44	0.3786	2.54	Q	V					
2+45	0.3821	2.56	Q	V					
2+46	0.3857	2.57	Q	V					
2+47	0.3892	2.59	Q	V					
2+48	0.3928	2.60	Q	V					
2+49	0.3964	2.63	Q	V					
2+50	0.4001	2.66	Q	V					
2+51	0.4038	2.70	Q	V					
2+52	0.4076	2.73	Q	V					
2+53	0.4114	2.76	Q	V					
2+54	0.4152	2.79	Q	V					
2+55	0.4191	2.83	Q	V					
2+56	0.4230	2.84	Q	V					
2+57	0.4270	2.86	Q	V					
2+58	0.4310	2.88	Q	V					
2+59	0.4350	2.90	Q	V					
3+ 0	0.4390	2.92	Q	V					
3+ 1	0.4430	2.94	Q	V					
3+ 2	0.4471	2.96	Q	V					
3+ 3	0.4513	3.01	Q	V					
3+ 4	0.4555	3.05	Q	V					
3+ 5	0.4597	3.10	Q	V					
3+ 6	0.4640	3.14	Q	V					
3+ 7	0.4684	3.19	Q	V					
3+ 8	0.4729	3.24	Q	V					
3+ 9	0.4774	3.28	Q	V					
3+10	0.4820	3.31	Q	V					
3+11	0.4866	3.34	Q	V					
3+12	0.4912	3.37	Q	V					
3+13	0.4959	3.40	Q	V					

4+25	1.4719	3.86	Q				V	
4+26	1.4770	3.71	Q				V	
4+27	1.4820	3.63	Q				V	
4+28	1.4869	3.54	Q				V	
4+29	1.4916	3.45	Q				V	
4+30	1.4963	3.37	Q				V	
4+31	1.5008	3.28	Q				V	
4+32	1.5052	3.20	Q				V	
4+33	1.5095	3.11	Q				V	
4+34	1.5137	3.05	Q				V	
4+35	1.5178	2.99	Q				V	
4+36	1.5218	2.94	Q				V	
4+37	1.5258	2.88	Q				V	
4+38	1.5297	2.82	Q				V	
4+39	1.5335	2.76	Q				V	
4+40	1.5372	2.71	Q				V	
4+41	1.5409	2.66	Q				V	
4+42	1.5445	2.62	Q				V	
4+43	1.5481	2.58	Q				V	
4+44	1.5516	2.54	Q				V	
4+45	1.5550	2.50	Q				V	
4+46	1.5584	2.46	Q				V	
4+47	1.5617	2.41	Q				V	
4+48	1.5650	2.38	Q				V	
4+49	1.5682	2.35	Q				V	
4+50	1.5714	2.32	Q				V	
4+51	1.5746	2.29	Q				V	
4+52	1.5777	2.26	Q				V	
4+53	1.5808	2.22	Q				V	
4+54	1.5838	2.19	Q				V	
4+55	1.5868	2.17	Q				V	
4+56	1.5897	2.14	Q				V	
4+57	1.5926	2.12	Q				V	
4+58	1.5955	2.09	Q				V	
4+59	1.5983	2.06	Q				V	
5+ 0	1.6012	2.04	Q				V	
5+ 1	1.6039	2.01	Q				V	
5+ 2	1.6067	1.99	Q				V	
5+ 3	1.6094	1.97	Q				V	
5+ 4	1.6121	1.95	Q				V	
5+ 5	1.6147	1.93	Q				V	
5+ 6	1.6174	1.91	Q				V	
5+ 7	1.6200	1.89	Q				V	
5+ 8	1.6226	1.87	Q				V	
5+ 9	1.6251	1.85	Q				V	
5+10	1.6276	1.84	Q				V	
5+11	1.6301	1.82	Q				V	
5+12	1.6326	1.80	Q				V	
5+13	1.6351	1.78	Q				V	
5+14	1.6375	1.77	Q				V	
5+15	1.6399	1.75	Q				V	
5+16	1.6423	1.73	Q				V	
5+17	1.6447	1.72	Q				V	
5+18	1.6470	1.70	Q				V	
5+19	1.6494	1.69	Q				V	
5+20	1.6517	1.68	Q				V	
5+21	1.6539	1.66	Q				V	
5+22	1.6562	1.65	Q				V	
5+23	1.6585	1.63	Q				V	
5+24	1.6607	1.62	Q				V	
5+25	1.6629	1.61	Q				V	
5+26	1.6651	1.60	Q				V	
5+27	1.6673	1.58	Q				V	
5+28	1.6695	1.57	Q				V	
5+29	1.6716	1.56	Q				V	
5+30	1.6737	1.55	Q				V	
5+31	1.6758	1.54	Q				V	
5+32	1.6779	1.52	Q				V	
5+33	1.6800	1.51	Q				V	
5+34	1.6821	1.50	Q				V	
5+35	1.6842	1.49	Q				V	

5+36	1.6862	1.48	Q				V	
5+37	1.6882	1.47	Q				V	
5+38	1.6902	1.46	Q				V	
5+39	1.6922	1.45	Q				V	
5+40	1.6942	1.44	Q				V	
5+41	1.6962	1.43	Q				V	
5+42	1.6981	1.42	Q				V	
5+43	1.7001	1.41	Q				V	
5+44	1.7020	1.40	Q				V	
5+45	1.7039	1.39	Q				V	
5+46	1.7058	1.39	Q				V	
5+47	1.7077	1.38	Q				V	
5+48	1.7096	1.37	Q				V	
5+49	1.7115	1.36	Q				V	
5+50	1.7134	1.35	Q				V	
5+51	1.7152	1.34	Q				V	
5+52	1.7171	1.34	Q				V	
5+53	1.7189	1.33	Q				V	
5+54	1.7207	1.32	Q				V	
5+55	1.7225	1.31	Q				V	
5+56	1.7243	1.30	Q				V	
5+57	1.7261	1.30	Q				V	
5+58	1.7279	1.29	Q				V	
5+59	1.7296	1.28	Q				V	
6+ 0	1.7314	1.28	Q				V	
6+ 1	1.7331	1.27	Q				V	
6+ 2	1.7349	1.26	Q				V	
6+ 3	1.7366	1.25	Q				V	
6+ 4	1.7383	1.25	Q				V	

End of computations, total study area = 12.100 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/08/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Basin 3
100160prratbas3

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 131.000 to Point/Station 132.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 589.600(Ft.)
Lowest elevation = 588.100(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.51 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8160)*(75.000^0.5)/(2.000^(1/3))]= 3.51
Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.967(CFS)
Total initial stream area = 0.180(Ac.)

+++++
Process from Point/Station 132.000 to Point/Station 133.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm

User specified 'C' value of 0.670 given for subarea
Time of concentration = 3.51 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.680 CA = 1.708
Subarea runoff = 10.283(CFS) for 2.330(Ac.)
Total runoff = 11.250(CFS) Total area = 2.510(Ac.)

Process from Point/Station 133.000 to Point/Station 134.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 580.100(Ft.)
End of street segment elevation = 579.200(Ft.)
Length of street segment = 298.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 79.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 14.852(CFS)
Depth of flow = 0.568(Ft.), Average velocity = 2.262(Ft/s)
Warning: depth of flow exceeds top of curb
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 29.370(Ft.)
Flow velocity = 2.26(Ft/s)
Travel time = 2.20 min. TC = 5.71 min.
Adding area flow to street
Rainfall intensity (I) = 6.047(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Rainfall intensity = 6.047(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.676 CA = 3.041
Subarea runoff = 7.140(CFS) for 1.990(Ac.)
Total runoff = 18.390(CFS) Total area = 4.500(Ac.)
Street flow at end of street = 18.390(CFS)
Half street flow at end of street = 18.390(CFS)
Depth of flow = 0.605(Ft.), Average velocity = 2.388(Ft/s)
Warning: depth of flow exceeds top of curb
Flow width (from curb towards crown)= 31.843(Ft.)

Process from Point/Station 134.000 to Point/Station 707.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 576.200(Ft.)
Downstream point/station elevation = 574.000(Ft.)
Pipe length = 443.00(Ft.) Slope = 0.0050 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 18.390(CFS)
Nearest computed pipe diameter = 27.00(In.)
Calculated individual pipe flow = 18.390(CFS)
Normal flow depth in pipe = 18.98(In.)
Flow top width inside pipe = 24.67(In.)
Critical Depth = 17.99(In.)
Pipe flow velocity = 6.15(Ft/s)
Travel time through pipe = 1.20 min.
Time of concentration (TC) = 6.91 min.

Process from Point/Station 134.000 to Point/Station 707.000

**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 4.500(Ac.)
Runoff from this stream = 18.390(CFS)
Time of concentration = 6.91 min.
Rainfall intensity = 5.347(In/Hr)

Process from Point/Station 141.000 to Point/Station 142.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 589.600(Ft.)
Lowest elevation = 588.100(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.51 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8160)*(75.000^0.5)/(2.000^(1/3))]= 3.51
Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.967(CFS)
Total initial stream area = 0.180(Ac.)

Process from Point/Station 142.000 to Point/Station 143.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Time of concentration = 3.51 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.684 CA = 1.259
Subarea runoff = 7.326(CFS) for 1.660(Ac.)
Total runoff = 8.293(CFS) Total area = 1.840(Ac.)

Process from Point/Station 143.000 to Point/Station 144.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 584.600(Ft.)
End of street segment elevation = 583.000(Ft.)
Length of street segment = 321.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)

Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 9.171(CFS)
 Depth of flow = 0.461(Ft.), Average velocity = 2.416(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 22.211(Ft.)
 Flow velocity = 2.42(Ft/s)
 Travel time = 2.21 min. TC = 5.73 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.034(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.670 given for subarea
 Rainfall intensity = 6.034(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.681 CA = 1.654
 Subarea runoff = 1.689(CFS) for 0.590(Ac.)
 Total runoff = 9.982(CFS) Total area = 2.430(Ac.)
 Street flow at end of street = 9.982(CFS)
 Half street flow at end of street = 9.982(CFS)
 Depth of flow = 0.472(Ft.), Average velocity = 2.468(Ft/s)
 Flow width (from curb towards crown) = 22.947(Ft.)

++++++
 Process from Point/Station 144.000 to Point/Station 707.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 580.000(Ft.)
 Downstream point/station elevation = 574.000(Ft.)
 Pipe length = 112.00(Ft.) Slope = 0.0536 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 9.982(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 9.982(CFS)
 Normal flow depth in pipe = 8.96(In.)
 Flow top width inside pipe = 14.71(In.)
 Critical Depth = 14.19(In.)
 Pipe flow velocity = 13.05(Ft/s)
 Travel time through pipe = 0.14 min.
 Time of concentration (TC) = 5.87 min.

++++++
 Process from Point/Station 144.000 to Point/Station 707.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 2.430(Ac.)
 Runoff from this stream = 9.982(CFS)
 Time of concentration = 5.87 min.
 Rainfall intensity = 5.939(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	18.390	6.91	5.347
2	9.982	5.87	5.939
Qmax(1) =			
	1.000 *	1.000 *	18.390) +
	0.900 *	1.000 *	9.982) + = 27.377
Qmax(2) =			
	1.000 *	0.850 *	18.390) +
	1.000 *	1.000 *	9.982) + = 25.609

Total of 2 streams to confluence:
 Flow rates before confluence point:
 18.390 9.982

Maximum flow rates at confluence using above data:
27.377 25.609
Area of streams before confluence:
4.500 2.430
Results of confluence:
Total flow rate = 27.377 (CFS)
Time of concentration = 6.909 min.
Effective stream area after confluence = 6.930 (Ac.)

Process from Point/Station 707.000 to Point/Station 708.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 574.000 (Ft.)
Downstream point/station elevation = 573.700 (Ft.)
Pipe length = 65.00 (Ft.) Slope = 0.0046 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 27.377 (CFS)
Nearest computed pipe diameter = 30.00 (In.)
Calculated individual pipe flow = 27.377 (CFS)
Normal flow depth in pipe = 24.14 (In.)
Flow top width inside pipe = 23.79 (In.)
Critical Depth = 21.40 (In.)
Pipe flow velocity = 6.47 (Ft/s)
Travel time through pipe = 0.17 min.
Time of concentration (TC) = 7.08 min.

Process from Point/Station 707.000 to Point/Station 708.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 6.930 (Ac.)
Runoff from this stream = 27.377 (CFS)
Time of concentration = 7.08 min.
Rainfall intensity = 5.265 (In/Hr)

Process from Point/Station 151.000 to Point/Station 152.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 75.000 (Ft.)
Highest elevation = 584.800 (Ft.)
Lowest elevation = 583.300 (Ft.)
Elevation difference = 1.500 (Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.51 minutes
TC = [1.8*(1.1-C)*distance (Ft.)^{0.5} / (% slope^{1/3})]
TC = [1.8*(1.1-0.8160)*(75.000^{0.5}) / (2.000^{1/3})] = 3.51
Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.914 (CFS)
Total initial stream area = 0.170 (Ac.)

Process from Point/Station 152.000 to Point/Station 153.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Time of concentration = 3.51 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.680 CA = 1.666
Subarea runoff = 10.062(CFS) for 2.280(Ac.)
Total runoff = 10.976(CFS) Total area = 2.450(Ac.)

Process from Point/Station 153.000 to Point/Station 154.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 580.400(Ft.)
End of street segment elevation = 577.400(Ft.)
Length of street segment = 609.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 13.138(CFS)
Depth of flow = 0.511(Ft.), Average velocity = 2.632(Ft/s)
Warning: depth of flow exceeds top of curb
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 25.548(Ft.)
Flow velocity = 2.63(Ft/s)
Travel time = 3.86 min. TC = 7.37 min.
Adding area flow to street
Rainfall intensity (I) = 5.129(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Rainfall intensity = 5.129(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.676 CA = 2.966
Subarea runoff = 4.237(CFS) for 1.940(Ac.)
Total runoff = 15.212(CFS) Total area = 4.390(Ac.)
Street flow at end of street = 15.212(CFS)
Half street flow at end of street = 15.212(CFS)
Depth of flow = 0.533(Ft.), Average velocity = 2.732(Ft/s)
Warning: depth of flow exceeds top of curb
Flow width (from curb towards crown)= 27.012(Ft.)

Process from Point/Station 154.000 to Point/Station 708.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 574.400(Ft.)
Downstream point/station elevation = 573.700(Ft.)
Pipe length = 21.00(Ft.) Slope = 0.0333 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 15.212(CFS)
Nearest computed pipe diameter = 18.00(In.)
Calculated individual pipe flow = 15.212(CFS)
Normal flow depth in pipe = 12.11(In.)
Flow top width inside pipe = 16.89(In.)
Critical Depth = 16.92(In.)

Pipe flow velocity = 12.04(Ft/s)
Travel time through pipe = 0.03 min.
Time of concentration (TC) = 7.40 min.

Process from Point/Station 154.000 to Point/Station 708.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 4.390(Ac.)
Runoff from this stream = 15.212(CFS)
Time of concentration = 7.40 min.
Rainfall intensity = 5.116(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	27.377	7.08	5.265
2	15.212	7.40	5.116
Qmax(1) =			
	1.000 *	1.000 *	27.377) +
	1.000 *	0.956 *	15.212) + = 41.927
Qmax(2) =			
	0.972 *	1.000 *	27.377) +
	1.000 *	1.000 *	15.212) + = 41.815

Total of 2 streams to confluence:
Flow rates before confluence point:
27.377 15.212
Maximum flow rates at confluence using above data:
41.927 41.815
Area of streams before confluence:
6.930 4.390
Results of confluence:
Total flow rate = 41.927(CFS)
Time of concentration = 7.077 min.
Effective stream area after confluence = 11.320(Ac.)

Process from Point/Station 708.000 to Point/Station 709.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 573.700(Ft.)
Downstream point/station elevation = 552.000(Ft.)
Pipe length = 216.00(Ft.) Slope = 0.1005 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 41.927(CFS)
Nearest computed pipe diameter = 21.00(In.)
Calculated individual pipe flow = 41.927(CFS)
Normal flow depth in pipe = 14.67(In.)
Flow top width inside pipe = 19.27(In.)
Critical depth could not be calculated.
Pipe flow velocity = 23.37(Ft/s)
Travel time through pipe = 0.15 min.
Time of concentration (TC) = 7.23 min.

Process from Point/Station 708.000 to Point/Station 709.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area = 11.320(Ac.)
Runoff from this stream = 41.927(CFS)
Time of concentration = 7.23 min.
Rainfall intensity = 5.192(In/Hr)
Program is now starting with Main Stream No. 2

Process from Point/Station 161.000 to Point/Station 162.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 86.000(Ft.)
Highest elevation = 616.800(Ft.)
Lowest elevation = 613.900(Ft.)
Elevation difference = 2.900(Ft.) Slope = 3.372 %
Top of Initial Area Slope adjusted by User to 3.400 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 85.00 (Ft)
for the top area slope value of 3.40 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.13 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8160)*(85.000^0.5)/(3.400^(1/3))]= 3.13
Calculated TC of 3.134 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.645(CFS)
Total initial stream area = 0.120(Ac.)

Process from Point/Station 162.000 to Point/Station 163.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.134 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Time of concentration = 3.13 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.674 CA = 2.704
Subarea runoff = 17.167(CFS) for 3.890(Ac.)
Total runoff = 17.812(CFS) Total area = 4.010(Ac.)

Process from Point/Station 163.000 to Point/Station 164.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 575.300(Ft.)
End of street segment elevation = 571.900(Ft.)
Length of street segment = 413.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 130.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130

Estimated mean flow rate at midpoint of street = 27.177 (CFS)
Depth of flow = 0.586 (Ft.), Average velocity = 3.834 (Ft/s)
Warning: depth of flow exceeds top of curb
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 30.536 (Ft.)
Flow velocity = 3.83 (Ft/s)
Travel time = 1.80 min. TC = 4.93 min.
Adding area flow to street
Calculated TC of 4.930 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Rainfall intensity = 6.587 (In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.672 CA = 5.538
Subarea runoff = 18.668 (CFS) for 4.230 (Ac.)
Total runoff = 36.480 (CFS) Total area = 8.240 (Ac.)
Street flow at end of street = 36.480 (CFS)
Half street flow at end of street = 36.480 (CFS)
Depth of flow = 0.639 (Ft.), Average velocity = 4.131 (Ft/s)
Warning: depth of flow exceeds top of curb
Flow width (from curb towards crown) = 34.129 (Ft.)

Process from Point/Station 164.000 to Point/Station 710.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 568.900 (Ft.)
Downstream point/station elevation = 566.500 (Ft.)
Pipe length = 477.00 (Ft.) Slope = 0.0050 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 36.480 (CFS)
Nearest computed pipe diameter = 33.00 (In.)
Calculated individual pipe flow = 36.480 (CFS)
Normal flow depth in pipe = 26.25 (In.)
Flow top width inside pipe = 26.62 (In.)
Critical Depth = 24.13 (In.)
Pipe flow velocity = 7.20 (Ft/s)
Travel time through pipe = 1.10 min.
Time of concentration (TC) = 6.03 min.

Process from Point/Station 164.000 to Point/Station 710.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 2 in normal stream number 1
Stream flow area = 8.240 (Ac.)
Runoff from this stream = 36.480 (CFS)
Time of concentration = 6.03 min.
Rainfall intensity = 5.834 (In/Hr)

Process from Point/Station 171.000 to Point/Station 172.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 75.000 (Ft.)
Highest elevation = 583.500 (Ft.)
Lowest elevation = 579.900 (Ft.)
Elevation difference = 3.600 (Ft.) Slope = 4.800 %
Top of Initial Area Slope adjusted by User to 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:

The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial

In Accordance With Figure 3-3

Initial Area Time of Concentration = 3.51 minutes

$TC = [1.8 * (1.1 - C) * \text{distance}(\text{Ft.})^{.5}] / (\% \text{ slope}^{(1/3)})]$

$TC = [1.8 * (1.1 - 0.8160) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.51$

Calculated TC of 3.514 minutes is less than 5 minutes,

resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm

Effective runoff coefficient used for area (Q=KCIA) is C = 0.816

Subarea runoff = 0.645(CFS)

Total initial stream area = 0.120(Ac.)

Process from Point/Station 172.000 to Point/Station 173.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.514 minutes is less than 5 minutes,

resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm

User specified 'C' value of 0.670 given for subarea

Time of concentration = 3.51 min.

Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm

Effective runoff coefficient used for total area

(Q=KCIA) is C = 0.684 CA = 0.828

Subarea runoff = 4.810(CFS) for 1.090(Ac.)

Total runoff = 5.455(CFS) Total area = 1.210(Ac.)

Process from Point/Station 173.000 to Point/Station 174.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 571.100(Ft.)

End of street segment elevation = 569.700(Ft.)

Length of street segment = 282.000(Ft.)

Height of curb above gutter flowline = 6.0(In.)

Width of half street (curb to crown) = 130.000(Ft.)

Distance from crown to crossfall grade break = 0.500(Ft.)

Slope from gutter to grade break (v/hz) = 0.015

Slope from grade break to crown (v/hz) = 0.015

Street flow is on [1] side(s) of the street

Distance from curb to property line = 0.000(Ft.)

Slope from curb to property line (v/hz) = 0.000

Gutter width = 1.500(Ft.)

Gutter hike from flowline = 1.800(In.)

Manning's N in gutter = 0.0150

Manning's N from gutter to grade break = 0.0130

Manning's N from grade break to crown = 0.0130

Estimated mean flow rate at midpoint of street = 9.521(CFS)

Depth of flow = 0.466(Ft.), Average velocity = 2.435(Ft/s)

Streetflow hydraulics at midpoint of street travel:

Halfstreet flow width = 22.551(Ft.)

Flow velocity = 2.44(Ft/s)

Travel time = 1.93 min. TC = 5.44 min.

Adding area flow to street

Rainfall intensity (I) = 6.235(In/Hr) for a 100.0 year storm

User specified 'C' value of 0.670 given for subarea

Rainfall intensity = 6.235(In/Hr) for a 100.0 year storm

Effective runoff coefficient used for total area

(Q=KCIA) is C = 0.675 CA = 2.168

Subarea runoff = 8.064(CFS) for 2.000(Ac.)

Total runoff = 13.519(CFS) Total area = 3.210(Ac.)

Street flow at end of street = 13.519(CFS)

Half street flow at end of street = 13.519(CFS)

Depth of flow = 0.514(Ft.), Average velocity = 2.659(Ft/s)

Warning: depth of flow exceeds top of curb

Flow width (from curb towards crown) = 25.790(Ft.)

+-----+
 Process from Point/Station 174.000 to Point/Station 710.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 566.700(Ft.)
 Downstream point/station elevation = 566.500(Ft.)
 Pipe length = 13.00(Ft.) Slope = 0.0154 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 13.519(CFS)
 Nearest computed pipe diameter = 21.00(In.)
 Calculated individual pipe flow = 13.519(CFS)
 Normal flow depth in pipe = 12.80(In.)
 Flow top width inside pipe = 20.49(In.)
 Critical Depth = 16.42(In.)
 Pipe flow velocity = 8.81(Ft/s)
 Travel time through pipe = 0.02 min.
 Time of concentration (TC) = 5.47 min.

+-----+
 Process from Point/Station 174.000 to Point/Station 710.000
 **** CONFLUENCE OF MINOR STREAMS ****

 Along Main Stream number: 2 in normal stream number 2
 Stream flow area = 3.210(Ac.)
 Runoff from this stream = 13.519(CFS)
 Time of concentration = 5.47 min.
 Rainfall intensity = 6.217(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	36.480	6.03	5.834
2	13.519	5.47	6.217
Qmax(1) =			
	1.000 *	1.000 *	36.480) +
	0.938 *	1.000 *	13.519) + = 49.167
Qmax(2) =			
	1.000 *	0.906 *	36.480) +
	1.000 *	1.000 *	13.519) + = 46.578

Total of 2 streams to confluence:
 Flow rates before confluence point:
 36.480 13.519
 Maximum flow rates at confluence using above data:
 49.167 46.578
 Area of streams before confluence:
 8.240 3.210
 Results of confluence:
 Total flow rate = 49.167(CFS)
 Time of concentration = 6.034 min.
 Effective stream area after confluence = 11.450(Ac.)

+-----+
 Process from Point/Station 710.000 to Point/Station 709.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 566.500(Ft.)
 Downstream point/station elevation = 552.000(Ft.)
 Pipe length = 21.00(Ft.) Slope = 0.6905 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 49.167(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 49.167(CFS)
 Normal flow depth in pipe = 11.30(In.)
 Flow top width inside pipe = 12.94(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 49.61(Ft/s)
 Travel time through pipe = 0.01 min.

Time of concentration (TC) = 6.04 min.

Process from Point/Station 710.000 to Point/Station 709.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area = 11.450(Ac.)
Runoff from this stream = 49.167(CFS)
Time of concentration = 6.04 min.
Rainfall intensity = 5.830(In/Hr)
Program is now starting with Main Stream No. 3

Process from Point/Station 181.000 to Point/Station 182.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 584.000(Ft.)
Lowest elevation = 582.500(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.51 minutes
TC = $[1.8 * (1.1 - C) * \text{distance}(\text{Ft.})^{.5}] / (\% \text{ slope}^{(1/3)})$
TC = $[1.8 * (1.1 - 0.8160) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.51$
Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.645(CFS)
Total initial stream area = 0.120(Ac.)

Process from Point/Station 182.000 to Point/Station 183.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.514 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Time of concentration = 3.51 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.685 CA = 0.795
Subarea runoff = 4.590(CFS) for 1.040(Ac.)
Total runoff = 5.235(CFS) Total area = 1.160(Ac.)

Process from Point/Station 183.000 to Point/Station 741.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 567.500(Ft.)
End of street segment elevation = 558.000(Ft.)
Length of street segment = 418.000(Ft.)

Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 34.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 7.038(CFS)
 Depth of flow = 0.351(Ft.), Average velocity = 4.002(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 14.890(Ft.)
 Flow velocity = 4.00(Ft/s)
 Travel time = 1.74 min. TC = 5.25 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.379(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.670 given for subarea
 Rainfall intensity = 6.379(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.679 CA = 1.371
 Subarea runoff = 3.511(CFS) for 0.860(Ac.)
 Total runoff = 8.746(CFS) Total area = 2.020(Ac.)
 Street flow at end of street = 8.746(CFS)
 Half street flow at end of street = 8.746(CFS)
 Depth of flow = 0.371(Ft.), Average velocity = 4.223(Ft/s)
 Flow width (from curb towards crown)= 16.230(Ft.)

++++++
 Process from Point/Station 183.000 to Point/Station 741.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 3 in normal stream number 1
 Stream flow area = 2.020(Ac.)
 Runoff from this stream = 8.746(CFS)
 Time of concentration = 5.25 min.
 Rainfall intensity = 6.379(In/Hr)

++++++
 Process from Point/Station 691.000 to Point/Station 692.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.400
 Decimal fraction soil group D = 0.600
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.816
 Initial subarea total flow distance = 85.000(Ft.)
 Highest elevation = 572.500(Ft.)
 Lowest elevation = 570.500(Ft.)
 Elevation difference = 2.000(Ft.) Slope = 2.353 %
 Top of Initial Area Slope adjusted by User to 3.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 85.00 (Ft)
 for the top area slope value of 3.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.27 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8160) * (85.000^{.5})] / (3.000^{(1/3)}) = 3.27$
 Calculated TC of 3.268 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.215(CFS)
Total initial stream area = 0.040(Ac.)

Process from Point/Station 692.000 to Point/Station 693.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 570.500(Ft.)
End of street segment elevation = 556.700(Ft.)
Length of street segment = 541.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 20.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 0.805(CFS)
Depth of flow = 0.209(Ft.), Average velocity = 2.548(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 5.418(Ft.)
Flow velocity = 2.55(Ft/s)
Travel time = 3.54 min. TC = 6.81 min.
Adding area flow to street
Rainfall intensity (I) = 5.399(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Rainfall intensity = 5.399(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.685 CA = 0.274
Subarea runoff = 1.263(CFS) for 0.360(Ac.)
Total runoff = 1.478(CFS) Total area = 0.400(Ac.)
Street flow at end of street = 1.478(CFS)
Half street flow at end of street = 1.478(CFS)
Depth of flow = 0.239(Ft.), Average velocity = 2.890(Ft/s)
Flow width (from curb towards crown)= 7.448(Ft.)

Process from Point/Station 693.000 to Point/Station 741.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 553.700(Ft.)
Downstream point/station elevation = 553.200(Ft.)
Pipe length = 99.00(Ft.) Slope = 0.0051 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 1.478(CFS)
Nearest computed pipe diameter = 12.00(In.)
Calculated individual pipe flow = 1.478(CFS)
Normal flow depth in pipe = 6.59(In.)
Flow top width inside pipe = 11.94(In.)
Critical Depth = 6.18(In.)
Pipe flow velocity = 3.35(Ft/s)
Travel time through pipe = 0.49 min.
Time of concentration (TC) = 7.30 min.

Process from Point/Station 693.000 to Point/Station 741.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 3 in normal stream number 2
Stream flow area = 0.400(Ac.)
Runoff from this stream = 1.478(CFS)

Time of concentration = 7.30 min.
Rainfall intensity = 5.161(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	8.746	5.25	6.379
2	1.478	7.30	5.161
Qmax(1) =			
	1.000 *	1.000 *	8.746) +
	1.000 *	0.720 *	1.478) + = 9.810
Qmax(2) =			
	0.809 *	1.000 *	8.746) +
	1.000 *	1.000 *	1.478) + = 8.553

Total of 2 streams to confluence:
Flow rates before confluence point:
8.746 1.478
Maximum flow rates at confluence using above data:
9.810 8.553
Area of streams before confluence:
2.020 0.400

Results of confluence:
Total flow rate = 9.810(CFS)
Time of concentration = 5.254 min.
Effective stream area after confluence = 2.420(Ac.)

Process from Point/Station 741.000 to Point/Station 709.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 555.000(Ft.)
Downstream point/station elevation = 552.000(Ft.)
Pipe length = 10.00(Ft.) Slope = 0.3000 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 9.810(CFS)
Nearest computed pipe diameter = 12.00(In.)
Calculated individual pipe flow = 9.810(CFS)
Normal flow depth in pipe = 6.02(In.)
Flow top width inside pipe = 12.00(In.)
Critical depth could not be calculated.
Pipe flow velocity = 24.88(Ft/s)
Travel time through pipe = 0.01 min.
Time of concentration (TC) = 5.26 min.

Process from Point/Station 741.000 to Point/Station 709.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 3
Stream flow area = 2.420(Ac.)
Runoff from this stream = 9.810(CFS)
Time of concentration = 5.26 min.
Rainfall intensity = 6.374(In/Hr)
Program is now starting with Main Stream No. 4

Process from Point/Station 191.000 to Point/Station 192.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)

Impervious value, Ai = 0.850
 Sub-Area C Value = 0.816
 Initial subarea total flow distance = 80.000(Ft.)
 Highest elevation = 585.400(Ft.)
 Lowest elevation = 583.400(Ft.)
 Elevation difference = 2.000(Ft.) Slope = 2.500 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 85.00 (Ft)
 for the top area slope value of 2.50 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.47 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (\% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8160) * (85.000^{.5})] / (2.500^{(1/3)}) = 3.47$
 Calculated TC of 3.473 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
 Subarea runoff = 0.430(CFS)
 Total initial stream area = 0.080(Ac.)

++++++
 Process from Point/Station 192.000 to Point/Station 193.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 583.400(Ft.)
 End of street segment elevation = 556.400(Ft.)
 Length of street segment = 763.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 4.862(CFS)
 Depth of flow = 0.303(Ft.), Average velocity = 4.324(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 11.713(Ft.)
 Flow velocity = 4.32(Ft/s)
 Travel time = 2.94 min. TC = 6.41 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.610(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.670 given for subarea
 Rainfall intensity = 5.610(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.675 CA = 1.667
 Subarea runoff = 8.919(CFS) for 2.390(Ac.)
 Total runoff = 9.349(CFS) Total area = 2.470(Ac.)
 Street flow at end of street = 9.349(CFS)
 Half street flow at end of street = 9.349(CFS)
 Depth of flow = 0.356(Ft.), Average velocity = 5.072(Ft/s)
 Flow width (from curb towards crown) = 15.265(Ft.)

++++++
 Process from Point/Station 193.000 to Point/Station 709.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 553.400(Ft.)
 Downstream point/station elevation = 552.000(Ft.)
 Pipe length = 9.00(Ft.) Slope = 0.1556 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 9.349(CFS)
 Nearest computed pipe diameter = 12.00(In.)

Calculated individual pipe flow = 9.349(CFS)
Normal flow depth in pipe = 7.15(In.)
Flow top width inside pipe = 11.78(In.)
Critical depth could not be calculated.
Pipe flow velocity = 19.15(Ft/s)
Travel time through pipe = 0.01 min.
Time of concentration (TC) = 6.42 min.

Process from Point/Station 193.000 to Point/Station 709.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 4
Stream flow area = 2.470(Ac.)
Runoff from this stream = 9.349(CFS)
Time of concentration = 6.42 min.
Rainfall intensity = 5.605(In/Hr)
Program is now starting with Main Stream No. 5

Process from Point/Station 201.000 to Point/Station 202.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 89.000(Ft.)
Highest elevation = 619.600(Ft.)
Lowest elevation = 615.500(Ft.)
Elevation difference = 4.100(Ft.) Slope = 4.607 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 90.00 (Ft)
for the top area slope value of 4.60 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.92 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8160)*(90.000^0.5)]/(4.600^(1/3))= 2.92
Calculated TC of 2.916 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.376(CFS)
Total initial stream area = 0.070(Ac.)

Process from Point/Station 202.000 to Point/Station 203.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 2.916 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Time of concentration = 2.92 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.688 CA = 0.399
Subarea runoff = 2.251(CFS) for 0.510(Ac.)
Total runoff = 2.627(CFS) Total area = 0.580(Ac.)

Process from Point/Station 203.000 to Point/Station 204.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 579.900(Ft.)
End of street segment elevation = 578.500(Ft.)
Length of street segment = 271.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 3.870(CFS)
Depth of flow = 0.364(Ft.), Average velocity = 1.976(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 15.758(Ft.)
Flow velocity = 1.98(Ft/s)
Travel time = 2.29 min. TC = 5.20 min.
Adding area flow to street
Rainfall intensity (I) = 6.421(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.670 given for subarea
Rainfall intensity = 6.421(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.679 CA = 0.781
Subarea runoff = 2.386(CFS) for 0.570(Ac.)
Total runoff = 5.013(CFS) Total area = 1.150(Ac.)
Street flow at end of street = 5.013(CFS)
Half street flow at end of street = 5.013(CFS)
Depth of flow = 0.389(Ft.), Average velocity = 2.107(Ft/s)
Flow width (from curb towards crown)= 17.449(Ft.)

Process from Point/Station 204.000 to Point/Station 213.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 575.500(Ft.)
Downstream point/station elevation = 574.000(Ft.)
Pipe length = 217.00(Ft.) Slope = 0.0069 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 5.013(CFS)
Nearest computed pipe diameter = 15.00(In.)
Calculated individual pipe flow = 5.013(CFS)
Normal flow depth in pipe = 11.48(In.)
Flow top width inside pipe = 12.71(In.)
Critical Depth = 10.89(In.)
Pipe flow velocity = 4.97(Ft/s)
Travel time through pipe = 0.73 min.
Time of concentration (TC) = 5.93 min.

Process from Point/Station 204.000 to Point/Station 213.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 5 in normal stream number 1
Stream flow area = 1.150(Ac.)
Runoff from this stream = 5.013(CFS)
Time of concentration = 5.93 min.
Rainfall intensity = 5.902(In/Hr)

Process from Point/Station 211.000 to Point/Station 212.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.400
 Decimal fraction soil group D = 0.600
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.816
 Initial subarea total flow distance = 80.000(Ft.)
 Highest elevation = 585.400(Ft.)
 Lowest elevation = 583.400(Ft.)
 Elevation difference = 2.000(Ft.) Slope = 2.500 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 85.00 (Ft)
 for the top area slope value of 2.50 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.47 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(%\ slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8160)*(85.000^0.5)/(2.500^{(1/3)})] = 3.47$
 Calculated TC of 3.473 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
 Subarea runoff = 0.591(CFS)
 Total initial stream area = 0.110(Ac.)

++++++
 Process from Point/Station 212.000 to Point/Station 213.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 583.400(Ft.)
 End of street segment elevation = 577.000(Ft.)
 Length of street segment = 325.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 3.781(CFS)
 Depth of flow = 0.306(Ft.), Average velocity = 3.258(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 11.916(Ft.)
 Flow velocity = 3.26(Ft/s)
 Travel time = 1.66 min. TC = 5.14 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.474(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.670 given for subarea
 Rainfall intensity = 6.474(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.680 CA = 1.068
 Subarea runoff = 6.323(CFS) for 1.460(Ac.)
 Total runoff = 6.914(CFS) Total area = 1.570(Ac.)
 Street flow at end of street = 6.914(CFS)
 Half street flow at end of street = 6.914(CFS)
 Depth of flow = 0.356(Ft.), Average velocity = 3.775(Ft/s)
 Flow width (from curb towards crown)= 15.213(Ft.)

++++++
 Process from Point/Station 212.000 to Point/Station 213.000

**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 5 in normal stream number 2
 Stream flow area = 1.570 (Ac.)
 Runoff from this stream = 6.914 (CFS)
 Time of concentration = 5.14 min.
 Rainfall intensity = 6.474 (In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	5.013	5.93	5.902
2	6.914	5.14	6.474
Qmax(1) =			
	1.000 *	1.000 *	5.013) +
	0.912 *	1.000 *	6.914) + = 11.316
Qmax(2) =			
	1.000 *	0.866 *	5.013) +
	1.000 *	1.000 *	6.914) + = 11.257

Total of 2 streams to confluence:
 Flow rates before confluence point:
 5.013 6.914
 Maximum flow rates at confluence using above data:
 11.316 11.257
 Area of streams before confluence:
 1.150 1.570
 Results of confluence:
 Total flow rate = 11.316 (CFS)
 Time of concentration = 5.929 min.
 Effective stream area after confluence = 2.720 (Ac.)

 Process from Point/Station 213.000 to Point/Station 711.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 574.000 (Ft.)
 Downstream point/station elevation = 566.500 (Ft.)
 Pipe length = 51.00 (Ft.) Slope = 0.1471 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 11.316 (CFS)
 Nearest computed pipe diameter = 12.00 (In.)
 Calculated individual pipe flow = 11.316 (CFS)
 Normal flow depth in pipe = 8.33 (In.)
 Flow top width inside pipe = 11.06 (In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 19.44 (Ft/s)
 Travel time through pipe = 0.04 min.
 Time of concentration (TC) = 5.97 min.

 Process from Point/Station 213.000 to Point/Station 711.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 5 in normal stream number 1
 Stream flow area = 2.720 (Ac.)
 Runoff from this stream = 11.316 (CFS)
 Time of concentration = 5.97 min.
 Rainfall intensity = 5.874 (In/Hr)

 Process from Point/Station 221.000 to Point/Station 222.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.400

Decimal fraction soil group D = 0.600
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.816
 Initial subarea total flow distance = 65.000(Ft.)
 Highest elevation = 581.300(Ft.)
 Lowest elevation = 580.400(Ft.)
 Elevation difference = 0.900(Ft.) Slope = 1.385 %
 Top of Initial Area Slope adjusted by User to 1.330 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 60.00 (Ft)
 for the top area slope value of 1.33 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.60 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{1.49} / (slope^{1/3})]$
 $TC = [1.8 * (1.1 - 0.816) * (60.000^{1.49}) / (1.330^{1/3})] = 3.60$
 Calculated TC of 3.601 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
 Subarea runoff = 0.376(CFS)
 Total initial stream area = 0.070(Ac.)

+-----+
 Process from Point/Station 222.000 to Point/Station 223.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 580.400(Ft.)
 End of street segment elevation = 577.000(Ft.)
 Length of street segment = 380.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 0.955(CFS)
 Depth of flow = 0.244(Ft.), Average velocity = 1.745(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 7.761(Ft.)
 Flow velocity = 1.74(Ft/s)
 Travel time = 3.63 min. TC = 7.23 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.192(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.670 given for subarea
 Rainfall intensity = 5.192(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.693 CA = 0.312
 Subarea runoff = 1.242(CFS) for 0.380(Ac.)
 Total runoff = 1.618(CFS) Total area = 0.450(Ac.)
 Street flow at end of street = 1.618(CFS)
 Half street flow at end of street = 1.618(CFS)
 Depth of flow = 0.275(Ft.), Average velocity = 1.970(Ft/s)
 Flow width (from curb towards crown) = 9.838(Ft.)

+-----+
 Process from Point/Station 223.000 to Point/Station 711.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 574.000(Ft.)

Downstream point/station elevation = 566.500(Ft.)
Pipe length = 51.00(Ft.) Slope = 0.1471 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 1.618(CFS)
Nearest computed pipe diameter = 6.00(In.)
Calculated individual pipe flow = 1.618(CFS)
Normal flow depth in pipe = 3.88(In.)
Flow top width inside pipe = 5.73(In.)
Critical depth could not be calculated.
Pipe flow velocity = 12.03(Ft/s)
Travel time through pipe = 0.07 min.
Time of concentration (TC) = 7.30 min.

Process from Point/Station 223.000 to Point/Station 711.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 5 in normal stream number 2
Stream flow area = 0.450(Ac.)
Runoff from this stream = 1.618(CFS)
Time of concentration = 7.30 min.
Rainfall intensity = 5.160(In/Hr)

Process from Point/Station 231.000 to Point/Station 232.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.400
Decimal fraction soil group D = 0.600
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.816
Initial subarea total flow distance = 80.000(Ft.)
Highest elevation = 585.400(Ft.)
Lowest elevation = 583.400(Ft.)
Elevation difference = 2.000(Ft.) Slope = 2.500 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 85.00 (Ft)
for the top area slope value of 2.50 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.47 minutes
TC = $[1.8 * (1.1 - C) * \text{distance}(\text{Ft.})^{.5}] / (\% \text{ slope}^{(1/3)})$
TC = $[1.8 * (1.1 - 0.8160) * (85.000^{.5})] / (2.500^{(1/3)}) = 3.47$
Calculated TC of 3.473 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.816
Subarea runoff = 0.537(CFS)
Total initial stream area = 0.100(Ac.)

Process from Point/Station 232.000 to Point/Station 233.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 583.400(Ft.)
End of street segment elevation = 570.200(Ft.)
Length of street segment = 414.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 38.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000

Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 3.569(CFS)
 Depth of flow = 0.285(Ft.), Average velocity = 3.859(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 10.516(Ft.)
 Flow velocity = 3.86(Ft/s)
 Travel time = 1.79 min. TC = 5.26 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.374(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.670 given for subarea
 Rainfall intensity = 6.374(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.680 CA = 1.026
 Subarea runoff = 6.005(CFS) for 1.410(Ac.)
 Total runoff = 6.542(CFS) Total area = 1.510(Ac.)
 Street flow at end of street = 6.542(CFS)
 Half street flow at end of street = 6.542(CFS)
 Depth of flow = 0.330(Ft.), Average velocity = 4.467(Ft/s)
 Flow width (from curb towards crown)= 13.510(Ft.)

+-----+
 Process from Point/Station 233.000 to Point/Station 711.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 567.200(Ft.)
 Downstream point/station elevation = 566.500(Ft.)
 Pipe length = 139.00(Ft.) Slope = 0.0050 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 6.542(CFS)
 Nearest computed pipe diameter = 18.00(In.)
 Calculated individual pipe flow = 6.542(CFS)
 Normal flow depth in pipe = 13.08(In.)
 Flow top width inside pipe = 16.05(In.)
 Critical Depth = 11.87(In.)
 Pipe flow velocity = 4.76(Ft/s)
 Travel time through pipe = 0.49 min.
 Time of concentration (TC) = 5.75 min.

+-----+
 Process from Point/Station 233.000 to Point/Station 711.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 5 in normal stream number 3
 Stream flow area = 1.510(Ac.)
 Runoff from this stream = 6.542(CFS)
 Time of concentration = 5.75 min.
 Rainfall intensity = 6.021(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	11.316	5.97	5.874
2	1.618	7.30	5.160
3	6.542	5.75	6.021
Qmax(1) =			
	1.000 *	1.000 *	11.316) +
	1.000 *	0.818 *	1.618) +
	0.976 *	1.000 *	6.542) + = 19.022
Qmax(2) =			
	0.878 *	1.000 *	11.316) +
	1.000 *	1.000 *	1.618) +
	0.857 *	1.000 *	6.542) + = 17.165
Qmax(3) =			
	1.000 *	0.962 *	11.316) +

1.000 * 0.787 * 1.618) +
 1.000 * 1.000 * 6.542) + = 18.706

Total of 3 streams to confluence:
 Flow rates before confluence point:
 11.316 1.618 6.542
 Maximum flow rates at confluence using above data:
 19.022 17.165 18.706
 Area of streams before confluence:
 2.720 0.450 1.510
 Results of confluence:
 Total flow rate = 19.022(CFS)
 Time of concentration = 5.972 min.
 Effective stream area after confluence = 4.680(Ac.)

 Process from Point/Station 711.000 to Point/Station 709.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 566.500(Ft.)
 Downstream point/station elevation = 552.000(Ft.)
 Pipe length = 923.00(Ft.) Slope = 0.0157 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 19.022(CFS)
 Nearest computed pipe diameter = 21.00(In.)
 Calculated individual pipe flow = 19.022(CFS)
 Normal flow depth in pipe = 16.45(In.)
 Flow top width inside pipe = 17.30(In.)
 Critical Depth = 18.88(In.)
 Pipe flow velocity = 9.40(Ft/s)
 Travel time through pipe = 1.64 min.
 Time of concentration (TC) = 7.61 min.

 Process from Point/Station 711.000 to Point/Station 709.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 5
 Stream flow area = 4.680(Ac.)
 Runoff from this stream = 19.022(CFS)
 Time of concentration = 7.61 min.
 Rainfall intensity = 5.024(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	41.927	7.23	5.192
2	49.167	6.04	5.830
3	9.810	5.26	6.374
4	9.349	6.42	5.605
5	19.022	7.61	5.024
Qmax(1) =			
	1.000 * 0.891 * 0.815 * 0.926 * 1.000 *	1.000 * 1.000 * 1.000 * 1.000 * 0.950 *	41.927) + 49.167) + 9.810) + 9.349) + 19.022) + = 120.441
Qmax(2) =			
	1.000 * 1.000 * 0.915 * 1.000 * 1.000 *	0.836 * 1.000 * 1.000 * 0.941 * 0.794 *	41.927) + 49.167) + 9.810) + 9.349) + 19.022) + = 117.070
Qmax(3) =			
	1.000 * 1.000 * 1.000 *	0.728 * 0.871 * 1.000 *	41.927) + 49.167) + 9.810) +

1.000 * 0.819 * 9.349) +
 1.000 * 0.691 * 19.022) + = 103.944
 Qmax (4) =
 1.000 * 0.888 * 41.927) +
 0.961 * 1.000 * 49.167) +
 0.879 * 1.000 * 9.810) +
 1.000 * 1.000 * 9.349) +
 1.000 * 0.844 * 19.022) + = 118.534
 Qmax (5) =
 0.968 * 1.000 * 41.927) +
 0.862 * 1.000 * 49.167) +
 0.788 * 1.000 * 9.810) +
 0.896 * 1.000 * 9.349) +
 1.000 * 1.000 * 19.022) + = 118.078

Total of 5 main streams to confluence:
 Flow rates before confluence point:
 41.927 49.167 9.810 9.349 19.022
 Maximum flow rates at confluence using above data:
 120.441 117.070 103.944 118.534 118.078
 Area of streams before confluence:
 11.320 11.450 2.420 2.470 4.680

Results of confluence:
 Total flow rate = 120.441 (CFS)
 Time of concentration = 7.231 min.
 Effective stream area after confluence = 32.340 (Ac.)

++++++
 Process from Point/Station 709.000 to Point/Station 709.000
 **** 6 HOUR HYDROGRAPH ****

++++++
 Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 7.23
 Basin Area = 32.34 Acres
 6 Hour Rainfall = 2.500 Inches
 Runoff Coefficient = 0.676
 Peak Discharge = 120.44 CFS

Time (Min)	Discharge (CFS)
0	0.000
7	3.280
14	3.322
21	3.412
28	3.459
35	3.558
42	3.611
49	3.722
56	3.781
63	3.907
70	3.974
77	4.117
84	4.193
91	4.358
98	4.447
105	4.639
112	4.743
119	4.971
126	5.096
133	5.372
140	5.525
147	5.867
154	6.059
161	6.497
168	6.749
175	7.336
182	7.682

189	8.520
196	9.035
203	10.357
210	11.229
217	13.726
224	15.634
231	22.955
238	32.343
245	120.441
252	18.411
259	12.318
266	9.639
273	8.073
280	7.027
287	6.268
294	5.689
301	5.229
308	4.854
315	4.540
322	4.274
329	4.044
336	3.843
343	3.665
350	3.508
357	3.366
364	3.238

+++++
6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals ((CFS))

Time (h+m)	Volume Ac.Ft	Q (CFS)	0	30.1	60.2	90.3	120.4
0+ 0	0.0000	0.00	Q				
0+ 1	0.0006	0.47	Q				
0+ 2	0.0019	0.94	Q				
0+ 3	0.0039	1.41	Q				
0+ 4	0.0065	1.87	Q				
0+ 5	0.0097	2.34	Q				
0+ 6	0.0136	2.81	Q				
0+ 7	0.0181	3.28	VQ				
0+ 8	0.0226	3.29	VQ				
0+ 9	0.0271	3.29	VQ				
0+10	0.0317	3.30	VQ				
0+11	0.0362	3.30	VQ				
0+12	0.0408	3.31	VQ				
0+13	0.0453	3.32	VQ				
0+14	0.0499	3.32	VQ				
0+15	0.0545	3.33	VQ				
0+16	0.0591	3.35	VQ				
0+17	0.0638	3.36	VQ				
0+18	0.0684	3.37	VQ				
0+19	0.0731	3.39	VQ				
0+20	0.0778	3.40	VQ				
0+21	0.0824	3.41	VQ				
0+22	0.0872	3.42	VQ				
0+23	0.0919	3.43	VQ				
0+24	0.0966	3.43	VQ				
0+25	0.1013	3.44	VQ				
0+26	0.1061	3.45	VQ				
0+27	0.1108	3.45	VQ				
0+28	0.1156	3.46	IQ				
0+29	0.1204	3.47	IQ				
0+30	0.1252	3.49	IQ				
0+31	0.1300	3.50	IQ				
0+32	0.1349	3.52	IQ				
0+33	0.1397	3.53	IQ				
0+34	0.1446	3.54	IQ				
0+35	0.1495	3.56	IQ				

0+36	0.1544	3.57	Q				
0+37	0.1593	3.57	Q				
0+38	0.1643	3.58	Q				
0+39	0.1692	3.59	Q				
0+40	0.1742	3.60	Q				
0+41	0.1791	3.60	Q				
0+42	0.1841	3.61	Q				
0+43	0.1891	3.63	Q				
0+44	0.1941	3.64	Q				
0+45	0.1992	3.66	Q				
0+46	0.2042	3.67	Q				
0+47	0.2093	3.69	Q				
0+48	0.2144	3.71	Q				
0+49	0.2195	3.72	Q				
0+50	0.2247	3.73	Q				
0+51	0.2298	3.74	QV				
0+52	0.2350	3.75	QV				
0+53	0.2402	3.76	QV				
0+54	0.2453	3.76	QV				
0+55	0.2505	3.77	QV				
0+56	0.2557	3.78	QV				
0+57	0.2610	3.80	QV				
0+58	0.2662	3.82	QV				
0+59	0.2715	3.84	QV				
1+ 0	0.2768	3.85	QV				
1+ 1	0.2822	3.87	QV				
1+ 2	0.2875	3.89	QV				
1+ 3	0.2929	3.91	QV				
1+ 4	0.2983	3.92	QV				
1+ 5	0.3037	3.93	QV				
1+ 6	0.3091	3.94	QV				
1+ 7	0.3146	3.95	QV				
1+ 8	0.3200	3.95	QV				
1+ 9	0.3255	3.96	QV				
1+10	0.3309	3.97	QV				
1+11	0.3364	3.99	QV				
1+12	0.3420	4.01	QV				
1+13	0.3475	4.03	Q V				
1+14	0.3531	4.06	Q V				
1+15	0.3587	4.08	Q V				
1+16	0.3644	4.10	Q V				
1+17	0.3700	4.12	Q V				
1+18	0.3757	4.13	Q V				
1+19	0.3814	4.14	Q V				
1+20	0.3871	4.15	Q V				
1+21	0.3929	4.16	Q V				
1+22	0.3986	4.17	Q V				
1+23	0.4044	4.18	Q V				
1+24	0.4101	4.19	Q V				
1+25	0.4160	4.22	Q V				
1+26	0.4218	4.24	Q V				
1+27	0.4277	4.26	Q V				
1+28	0.4336	4.29	Q V				
1+29	0.4395	4.31	Q V				
1+30	0.4455	4.33	Q V				
1+31	0.4515	4.36	Q V				
1+32	0.4575	4.37	Q V				
1+33	0.4635	4.38	Q V				
1+34	0.4696	4.40	Q V				
1+35	0.4757	4.41	Q V				
1+36	0.4818	4.42	Q V				
1+37	0.4879	4.43	Q V				
1+38	0.4940	4.45	Q V				
1+39	0.5002	4.47	Q V				
1+40	0.5064	4.50	Q V				
1+41	0.5126	4.53	Q V				
1+42	0.5189	4.56	Q V				
1+43	0.5252	4.58	Q V				
1+44	0.5315	4.61	Q V				
1+45	0.5379	4.64	Q V				
1+46	0.5443	4.65	Q V				

1+47	0.5508	4.67	Q	V					
1+48	0.5572	4.68	Q	V					
1+49	0.5637	4.70	Q	V					
1+50	0.5702	4.71	Q	V					
1+51	0.5767	4.73	Q	V					
1+52	0.5832	4.74	Q	V					
1+53	0.5898	4.78	Q	V					
1+54	0.5964	4.81	Q	V					
1+55	0.6031	4.84	Q	V					
1+56	0.6098	4.87	Q	V					
1+57	0.6166	4.91	Q	V					
1+58	0.6234	4.94	Q	V					
1+59	0.6302	4.97	Q	V					
2+ 0	0.6371	4.99	Q	V					
2+ 1	0.6440	5.01	Q	V					
2+ 2	0.6509	5.02	Q	V					
2+ 3	0.6579	5.04	Q	V					
2+ 4	0.6648	5.06	Q	V					
2+ 5	0.6718	5.08	Q	V					
2+ 6	0.6788	5.10	Q	V					
2+ 7	0.6859	5.14	Q	V					
2+ 8	0.6930	5.17	Q	V					
2+ 9	0.7002	5.21	Q	V					
2+10	0.7075	5.25	Q	V					
2+11	0.7148	5.29	Q	V					
2+12	0.7221	5.33	Q	V					
2+13	0.7295	5.37	Q	V					
2+14	0.7369	5.39	Q	V					
2+15	0.7444	5.42	Q	V					
2+16	0.7519	5.44	Q	V					
2+17	0.7594	5.46	Q	V					
2+18	0.7669	5.48	Q	V					
2+19	0.7745	5.50	Q	V					
2+20	0.7821	5.52	Q	V					
2+21	0.7898	5.57	Q	V					
2+22	0.7976	5.62	Q	V					
2+23	0.8054	5.67	Q	V					
2+24	0.8132	5.72	Q	V					
2+25	0.8212	5.77	Q	V					
2+26	0.8292	5.82	Q	V					
2+27	0.8373	5.87	Q	V					
2+28	0.8454	5.89	Q	V					
2+29	0.8536	5.92	Q	V					
2+30	0.8618	5.95	Q	V					
2+31	0.8700	5.98	Q	V					
2+32	0.8783	6.00	Q	V					
2+33	0.8866	6.03	Q	V					
2+34	0.8949	6.06	Q	V					
2+35	0.9033	6.12	Q	V					
2+36	0.9119	6.18	Q	V					
2+37	0.9205	6.25	Q	V					
2+38	0.9292	6.31	Q	V					
2+39	0.9379	6.37	Q	V					
2+40	0.9468	6.43	Q	V					
2+41	0.9557	6.50	Q	V					
2+42	0.9647	6.53	Q	V					
2+43	0.9738	6.57	Q	V					
2+44	0.9829	6.61	Q	V					
2+45	0.9920	6.64	Q	V					
2+46	1.0012	6.68	Q	V					
2+47	1.0105	6.71	Q	V					
2+48	1.0198	6.75	Q	V					
2+49	1.0292	6.83	Q	V					
2+50	1.0387	6.92	Q	V					
2+51	1.0484	7.00	Q	V					
2+52	1.0581	7.08	Q	V					
2+53	1.0680	7.17	Q	V					
2+54	1.0780	7.25	Q	V					
2+55	1.0881	7.34	Q	V					
2+56	1.0983	7.39	Q	V					
2+57	1.1085	7.43	Q	V					

4+ 9	3.5125	62.14			Q		V	
4+10	3.5780	47.56			Q		V	
4+11	3.6235	32.99		Q			V	
4+12	3.6488	18.41		Q			V	
4+13	3.6730	17.54		Q			V	
4+14	3.6960	16.67		Q			V	
4+15	3.7177	15.80		Q			V	
4+16	3.7383	14.93		Q			V	
4+17	3.7577	14.06		Q			V	
4+18	3.7758	13.19		Q			V	
4+19	3.7928	12.32		Q			V	
4+20	3.8092	11.94		Q			V	
4+21	3.8251	11.55		Q			V	
4+22	3.8405	11.17		Q			V	
4+23	3.8554	10.79		Q			V	
4+24	3.8697	10.40		Q			V	
4+25	3.8835	10.02		Q			V	
4+26	3.8968	9.64		Q			V	
4+27	3.9098	9.41		Q			V	
4+28	3.9224	9.19		Q			V	
4+29	3.9348	8.97		Q			V	
4+30	3.9468	8.74		Q			V	
4+31	3.9586	8.52		Q			V	
4+32	3.9700	8.30		Q			V	
4+33	3.9811	8.07		Q			V	
4+34	3.9920	7.92		Q			V	
4+35	4.0027	7.77		Q			V	
4+36	4.0132	7.62		Q			V	
4+37	4.0235	7.48		Q			V	
4+38	4.0336	7.33		Q			V	
4+39	4.0435	7.18		Q			V	
4+40	4.0532	7.03		Q			V	
4+41	4.0627	6.92		Q			V	
4+42	4.0721	6.81		Q			V	
4+43	4.0813	6.70		Q			V	
4+44	4.0904	6.59		Q			V	
4+45	4.0993	6.49		Q			V	
4+46	4.1081	6.38		Q			V	
4+47	4.1167	6.27		Q			V	
4+48	4.1253	6.19		Q			V	
4+49	4.1337	6.10		Q			V	
4+50	4.1420	6.02		Q			V	
4+51	4.1501	5.94		Q			V	
4+52	4.1582	5.85		Q			V	
4+53	4.1662	5.77		Q			V	
4+54	4.1740	5.69		Q			V	
4+55	4.1817	5.62		Q			V	
4+56	4.1894	5.56		Q			V	
4+57	4.1970	5.49		Q			V	
4+58	4.2044	5.43		Q			V	
4+59	4.2118	5.36		Q			V	
5+ 0	4.2191	5.30		Q			V	
5+ 1	4.2263	5.23		Q			V	
5+ 2	4.2334	5.18		Q			V	
5+ 3	4.2405	5.12		Q			V	
5+ 4	4.2475	5.07		Q			V	
5+ 5	4.2544	5.01		Q			V	
5+ 6	4.2612	4.96		Q			V	
5+ 7	4.2680	4.91		Q			V	
5+ 8	4.2747	4.85		Q			V	
5+ 9	4.2813	4.81		Q			V	
5+10	4.2879	4.76		Q			V	
5+11	4.2944	4.72		Q			V	
5+12	4.3008	4.67		Q			V	
5+13	4.3072	4.63		Q			V	
5+14	4.3135	4.59		Q			V	
5+15	4.3197	4.54		Q			V	
5+16	4.3259	4.50		Q			V	
5+17	4.3321	4.46		Q			V	
5+18	4.3382	4.43		Q			V	
5+19	4.3442	4.39		Q			V	

5+20	4.3502	4.35	Q				V	
5+21	4.3562	4.31	Q				V	
5+22	4.3620	4.27	Q				V	
5+23	4.3679	4.24	Q				V	
5+24	4.3737	4.21	Q				V	
5+25	4.3794	4.18	Q				V	
5+26	4.3851	4.14	Q				V	
5+27	4.3908	4.11	Q				V	
5+28	4.3964	4.08	Q				V	
5+29	4.4020	4.04	Q				V	
5+30	4.4075	4.01	Q				V	
5+31	4.4130	3.99	Q				V	
5+32	4.4185	3.96	Q				V	
5+33	4.4239	3.93	Q				V	
5+34	4.4292	3.90	Q				V	
5+35	4.4346	3.87	Q				V	
5+36	4.4399	3.84	Q				V	
5+37	4.4451	3.82	Q				V	
5+38	4.4503	3.79	Q				V	
5+39	4.4555	3.77	Q				V	
5+40	4.4607	3.74	Q				V	
5+41	4.4658	3.72	Q				V	
5+42	4.4709	3.69	Q				V	
5+43	4.4759	3.67	Q				V	
5+44	4.4810	3.64	Q				V	
5+45	4.4859	3.62	Q				V	
5+46	4.4909	3.60	Q				V	
5+47	4.4958	3.58	Q				V	
5+48	4.5007	3.55	Q				V	
5+49	4.5056	3.53	Q				V	
5+50	4.5104	3.51	Q				V	
5+51	4.5152	3.49	Q				V	
5+52	4.5200	3.47	Q				V	
5+53	4.5247	3.45	Q				V	
5+54	4.5295	3.43	Q				V	
5+55	4.5342	3.41	Q				V	
5+56	4.5388	3.39	Q				V	
5+57	4.5435	3.37	Q				V	
5+58	4.5481	3.35	Q				V	
5+59	4.5527	3.33	Q				V	
6+ 0	4.5572	3.31	Q				V	
6+ 1	4.5617	3.29	Q				V	
6+ 2	4.5663	3.27	Q				V	
6+ 3	4.5707	3.26	Q				V	
6+ 4	4.5752	3.24	Q				V	

End of computations, total study area = 32.340 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/10/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Basin 4
100160prratbas4

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 811.000 to Point/Station 812.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 569.500(Ft.)
Lowest elevation = 568.000(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8181)*(75.000^0.5)/(2.000^(1/3))]= 3.49
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.323(CFS)
Total initial stream area = 0.060(Ac.)

+++++
Process from Point/Station 812.000 to Point/Station 813.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm

User specified 'C' value of 0.740 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.747 CA = 0.493
Subarea runoff = 2.925(CFS) for 0.600(Ac.)
Total runoff = 3.248(CFS) Total area = 0.660(Ac.)

Process from Point/Station 813.000 to Point/Station 814.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 550.200(Ft.)
End of street segment elevation = 536.600(Ft.)
Length of street segment = 627.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 39.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 7.590(CFS)
Depth of flow = 0.360(Ft.), Average velocity = 4.006(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 15.486(Ft.)
Flow velocity = 4.01(Ft/s)
Travel time = 2.61 min. TC = 6.10 min.
Adding area flow to street
Rainfall intensity (I) = 5.796(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.740 given for subarea
Rainfall intensity = 5.796(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.742 CA = 2.047
Subarea runoff = 8.618(CFS) for 2.100(Ac.)
Total runoff = 11.866(CFS) Total area = 2.760(Ac.)
Street flow at end of street = 11.866(CFS)
Half street flow at end of street = 11.866(CFS)
Depth of flow = 0.404(Ft.), Average velocity = 4.475(Ft/s)
Flow width (from curb towards crown)= 18.460(Ft.)

Process from Point/Station 814.000 to Point/Station 712.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 533.600(Ft.)
Downstream point/station elevation = 532.000(Ft.)
Pipe length = 19.00(Ft.) Slope = 0.0842 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 11.866(CFS)
Nearest computed pipe diameter = 15.00(In.)
Calculated individual pipe flow = 11.866(CFS)
Normal flow depth in pipe = 8.66(In.)
Flow top width inside pipe = 14.82(In.)
Critical depth could not be calculated.
Pipe flow velocity = 16.16(Ft/s)
Travel time through pipe = 0.02 min.
Time of concentration (TC) = 6.12 min.

Process from Point/Station 814.000 to Point/Station 712.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 2.760(Ac.)
Runoff from this stream = 11.866(CFS)
Time of concentration = 6.12 min.
Rainfall intensity = 5.784(In/Hr)

Process from Point/Station 301.000 to Point/Station 302.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 564.400(Ft.)
Lowest elevation = 562.900(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8181)*(75.000^0.5)/(2.000^(1/3))]= 3.49
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 1.024(CFS)
Total initial stream area = 0.190(Ac.)

Process from Point/Station 302.000 to Point/Station 303.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.740 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.764 CA = 0.466
Subarea runoff = 2.047(CFS) for 0.420(Ac.)
Total runoff = 3.071(CFS) Total area = 0.610(Ac.)

Process from Point/Station 303.000 to Point/Station 304.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 558.100(Ft.)
End of street segment elevation = 553.300(Ft.)
Length of street segment = 792.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 56.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)

Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 9.380(CFS)
 Depth of flow = 0.451(Ft.), Average velocity = 2.615(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 21.576(Ft.)
 Flow velocity = 2.61(Ft/s)
 Travel time = 5.05 min. TC = 8.54 min.
 Adding area flow to street
 Rainfall intensity (I) = 4.665(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.740 given for subarea
 Rainfall intensity = 4.665(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.743 CA = 3.345
 Subarea runoff = 12.533(CFS) for 3.890(Ac.)
 Total runoff = 15.604(CFS) Total area = 4.500(Ac.)
 Street flow at end of street = 15.604(CFS)
 Half street flow at end of street = 15.604(CFS)
 Depth of flow = 0.521(Ft.), Average velocity = 2.971(Ft/s)
 Warning: depth of flow exceeds top of curb
 Flow width (from curb towards crown)= 26.221(Ft.)

+-----+
 Process from Point/Station 304.000 to Point/Station 712.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 4.500(Ac.)
 Runoff from this stream = 15.604(CFS)
 Time of concentration = 8.54 min.
 Rainfall intensity = 4.665(In/Hr)

+-----+
 Process from Point/Station 821.000 to Point/Station 822.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.190
 Decimal fraction soil group D = 0.810
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.818
 Initial subarea total flow distance = 62.000(Ft.)
 Highest elevation = 546.300(Ft.)
 Lowest elevation = 545.500(Ft.)
 Elevation difference = 0.800(Ft.) Slope = 1.290 %
 Top of Initial Area Slope adjusted by User to 1.133 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 60.00 (Ft)
 for the top area slope value of 1.13 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.77 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}]/(% slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8181)*(60.000^{.5})/(1.133^{(1/3)})]= 3.77$
 Calculated TC of 3.770 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
 Subarea runoff = 0.269(CFS)
 Total initial stream area = 0.050(Ac.)

Process from Point/Station 822.000 to Point/Station 823.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 545.500(Ft.)
End of street segment elevation = 538.600(Ft.)
Length of street segment = 629.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 61.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 2.505(CFS)
Depth of flow = 0.298(Ft.), Average velocity = 2.363(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 11.341(Ft.)
Flow velocity = 2.36(Ft/s)
Travel time = 4.44 min. TC = 8.21 min.
Adding area flow to street
Rainfall intensity (I) = 4.785(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.740 given for subarea
Rainfall intensity = 4.785(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.743 CA = 1.003
Subarea runoff = 4.529(CFS) for 1.300(Ac.)
Total runoff = 4.799(CFS) Total area = 1.350(Ac.)
Street flow at end of street = 4.799(CFS)
Half street flow at end of street = 4.799(CFS)
Depth of flow = 0.349(Ft.), Average velocity = 2.768(Ft/s)
Flow width (from curb towards crown)= 14.779(Ft.)

Process from Point/Station 823.000 to Point/Station 712.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 536.100(Ft.)
Downstream point/station elevation = 532.000(Ft.)
Pipe length = 14.00(Ft.) Slope = 0.2929 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 4.799(CFS)
Nearest computed pipe diameter = 9.00(In.)
Calculated individual pipe flow = 4.799(CFS)
Normal flow depth in pipe = 4.69(In.)
Flow top width inside pipe = 8.99(In.)
Critical depth could not be calculated.
Pipe flow velocity = 20.61(Ft/s)
Travel time through pipe = 0.01 min.
Time of concentration (TC) = 8.22 min.

Process from Point/Station 823.000 to Point/Station 712.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 3
Stream flow area = 1.350(Ac.)
Runoff from this stream = 4.799(CFS)
Time of concentration = 8.22 min.
Rainfall intensity = 4.781(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
------------	-----------------	----------	----------------------------

1	11.866	6.12	5.784	
2	15.604	8.54	4.665	
3	4.799	8.22	4.781	
Qmax(1) =				
	1.000 *	1.000 *	11.866) +	
	1.000 *	0.716 *	15.604) +	
	1.000 *	0.744 *	4.799) + =	26.616
Qmax(2) =				
	0.806 *	1.000 *	11.866) +	
	1.000 *	1.000 *	15.604) +	
	0.976 *	1.000 *	4.799) + =	29.856
Qmax(3) =				
	0.826 *	1.000 *	11.866) +	
	1.000 *	0.963 *	15.604) +	
	1.000 *	1.000 *	4.799) + =	29.628

Total of 3 streams to confluence:
Flow rates before confluence point:
11.866 15.604 4.799
Maximum flow rates at confluence using above data:
26.616 29.856 29.628
Area of streams before confluence:
2.760 4.500 1.350
Results of confluence:
Total flow rate = 29.856(CFS)
Time of concentration = 8.536 min.
Effective stream area after confluence = 8.610(Ac.)

Process from Point/Station 712.000 to Point/Station 712.000
**** 6 HOUR HYDROGRAPH ****

Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 8.54
Basin Area = 8.61 Acres
6 Hour Rainfall = 2.500 Inches
Runoff Coefficient = 0.743
Peak Discharge = 29.86 CFS

Time (Min)	Discharge (CFS)
0	0.000
8	0.955
16	0.969
24	0.999
32	1.015
40	1.048
48	1.066
56	1.105
64	1.125
72	1.169
80	1.193
88	1.245
96	1.273
104	1.334
112	1.367
120	1.441
128	1.482
136	1.574
144	1.626
152	1.743
160	1.811
168	1.968
176	2.061
184	2.286
192	2.424
200	2.779

208	3.013
216	3.683
224	4.195
232	6.159
240	8.678
248	29.856
256	4.940
264	3.305
272	2.586
280	2.166
288	1.885
296	1.682
304	1.526
312	1.403
320	1.302
328	1.218
336	1.147
344	1.085
352	1.031
360	0.984
368	0.941

+++++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals ((CFS))

Time (h+m)	Volume Ac.Ft	Q (CFS)	0	7.5	14.9	22.4	29.9
0+ 0	0.0000	0.00	Q				
0+ 1	0.0002	0.12	Q				
0+ 2	0.0005	0.24	Q				
0+ 3	0.0010	0.36	Q				
0+ 4	0.0016	0.48	Q				
0+ 5	0.0025	0.60	Q				
0+ 6	0.0035	0.72	Q				
0+ 7	0.0046	0.84	VQ				
0+ 8	0.0059	0.95	VQ				
0+ 9	0.0072	0.96	VQ				
0+10	0.0086	0.96	VQ				
0+11	0.0099	0.96	VQ				
0+12	0.0112	0.96	VQ				
0+13	0.0125	0.96	VQ				
0+14	0.0139	0.97	VQ				
0+15	0.0152	0.97	VQ				
0+16	0.0165	0.97	VQ				
0+17	0.0179	0.97	VQ				
0+18	0.0192	0.98	VQ				
0+19	0.0206	0.98	VQ				
0+20	0.0219	0.98	VQ				
0+21	0.0233	0.99	VQ				
0+22	0.0246	0.99	VQ				
0+23	0.0260	0.99	VQ				
0+24	0.0274	1.00	VQ				
0+25	0.0288	1.00	VQ				
0+26	0.0301	1.00	VQ				
0+27	0.0315	1.00	VQ				
0+28	0.0329	1.01	IQ				
0+29	0.0343	1.01	IQ				
0+30	0.0357	1.01	IQ				
0+31	0.0371	1.01	IQ				
0+32	0.0385	1.01	IQ				
0+33	0.0399	1.02	IQ				
0+34	0.0413	1.02	IQ				
0+35	0.0427	1.03	IQ				
0+36	0.0441	1.03	IQ				
0+37	0.0456	1.04	IQ				
0+38	0.0470	1.04	IQ				
0+39	0.0484	1.04	IQ				
0+40	0.0499	1.05	IQ				

0+41	0.0513	1.05	Q				
0+42	0.0528	1.05	Q				
0+43	0.0542	1.05	Q				
0+44	0.0557	1.06	Q				
0+45	0.0571	1.06	Q				
0+46	0.0586	1.06	Q				
0+47	0.0601	1.06	Q				
0+48	0.0615	1.07	Q				
0+49	0.0630	1.07	Q				
0+50	0.0645	1.08	Q				
0+51	0.0660	1.08	QV				
0+52	0.0675	1.09	QV				
0+53	0.0690	1.09	QV				
0+54	0.0705	1.09	QV				
0+55	0.0720	1.10	QV				
0+56	0.0735	1.10	QV				
0+57	0.0751	1.11	QV				
0+58	0.0766	1.11	QV				
0+59	0.0781	1.11	QV				
1+ 0	0.0796	1.11	QV				
1+ 1	0.0812	1.12	QV				
1+ 2	0.0827	1.12	QV				
1+ 3	0.0843	1.12	QV				
1+ 4	0.0858	1.13	QV				
1+ 5	0.0874	1.13	QV				
1+ 6	0.0889	1.14	QV				
1+ 7	0.0905	1.14	QV				
1+ 8	0.0921	1.15	QV				
1+ 9	0.0937	1.15	QV				
1+10	0.0953	1.16	QV				
1+11	0.0969	1.16	QV				
1+12	0.0985	1.17	QV				
1+13	0.1001	1.17	Q V				
1+14	0.1017	1.18	Q V				
1+15	0.1034	1.18	Q V				
1+16	0.1050	1.18	Q V				
1+17	0.1066	1.18	Q V				
1+18	0.1082	1.19	Q V				
1+19	0.1099	1.19	Q V				
1+20	0.1115	1.19	Q V				
1+21	0.1132	1.20	Q V				
1+22	0.1148	1.21	Q V				
1+23	0.1165	1.21	Q V				
1+24	0.1182	1.22	Q V				
1+25	0.1199	1.23	Q V				
1+26	0.1216	1.23	Q V				
1+27	0.1233	1.24	Q V				
1+28	0.1250	1.24	Q V				
1+29	0.1267	1.25	Q V				
1+30	0.1284	1.25	Q V				
1+31	0.1302	1.26	Q V				
1+32	0.1319	1.26	Q V				
1+33	0.1336	1.26	Q V				
1+34	0.1354	1.27	Q V				
1+35	0.1371	1.27	Q V				
1+36	0.1389	1.27	Q V				
1+37	0.1407	1.28	Q V				
1+38	0.1424	1.29	Q V				
1+39	0.1442	1.30	Q V				
1+40	0.1460	1.30	Q V				
1+41	0.1478	1.31	Q V				
1+42	0.1496	1.32	Q V				
1+43	0.1515	1.33	Q V				
1+44	0.1533	1.33	Q V				
1+45	0.1551	1.34	Q V				
1+46	0.1570	1.34	Q V				
1+47	0.1588	1.35	Q V				
1+48	0.1607	1.35	Q V				
1+49	0.1626	1.35	Q V				
1+50	0.1644	1.36	Q V				
1+51	0.1663	1.36	Q V				

1+52	0.1682	1.37	Q	V					
1+53	0.1701	1.38	Q	V					
1+54	0.1720	1.39	Q	V					
1+55	0.1739	1.40	Q	V					
1+56	0.1759	1.40	Q	V					
1+57	0.1778	1.41	Q	V					
1+58	0.1798	1.42	Q	V					
1+59	0.1817	1.43	Q	V					
2+ 0	0.1837	1.44	Q	V					
2+ 1	0.1857	1.45	Q	V					
2+ 2	0.1877	1.45	Q	V					
2+ 3	0.1897	1.46	Q	V					
2+ 4	0.1917	1.46	Q	V					
2+ 5	0.1938	1.47	Q	V					
2+ 6	0.1958	1.47	Q	V					
2+ 7	0.1978	1.48	Q	V					
2+ 8	0.1999	1.48	Q	V					
2+ 9	0.2019	1.49	Q	V					
2+10	0.2040	1.51	Q	V					
2+11	0.2061	1.52	Q	V					
2+12	0.2082	1.53	Q	V					
2+13	0.2103	1.54	Q	V					
2+14	0.2124	1.55	Q	V					
2+15	0.2146	1.56	Q	V					
2+16	0.2168	1.57	Q	V					
2+17	0.2189	1.58	Q	V					
2+18	0.2211	1.59	Q	V					
2+19	0.2233	1.59	Q	V					
2+20	0.2255	1.60	Q	V					
2+21	0.2277	1.61	Q	V					
2+22	0.2300	1.61	Q	V					
2+23	0.2322	1.62	Q	V					
2+24	0.2344	1.63	Q	V					
2+25	0.2367	1.64	Q	V					
2+26	0.2390	1.66	Q	V					
2+27	0.2413	1.67	Q	V					
2+28	0.2436	1.68	Q	V					
2+29	0.2459	1.70	Q	V					
2+30	0.2483	1.71	Q	V					
2+31	0.2507	1.73	Q	V					
2+32	0.2531	1.74	Q	V					
2+33	0.2555	1.75	Q	V					
2+34	0.2579	1.76	Q	V					
2+35	0.2603	1.77	Q	V					
2+36	0.2628	1.78	Q	V					
2+37	0.2653	1.79	Q	V					
2+38	0.2677	1.79	Q	V					
2+39	0.2702	1.80	Q	V					
2+40	0.2727	1.81	Q	V					
2+41	0.2752	1.83	Q	V					
2+42	0.2778	1.85	Q	V					
2+43	0.2803	1.87	Q	V					
2+44	0.2829	1.89	Q	V					
2+45	0.2856	1.91	Q	V					
2+46	0.2882	1.93	Q	V					
2+47	0.2909	1.95	Q	V					
2+48	0.2936	1.97	Q	V					
2+49	0.2964	1.98	Q	V					
2+50	0.2991	1.99	Q	V					
2+51	0.3019	2.00	Q	V					
2+52	0.3046	2.01	Q	V					
2+53	0.3074	2.03	Q	V					
2+54	0.3102	2.04	Q	V					
2+55	0.3131	2.05	Q	V					
2+56	0.3159	2.06	Q	V					
2+57	0.3188	2.09	Q	V					
2+58	0.3217	2.12	Q	V					
2+59	0.3246	2.15	Q	V					
3+ 0	0.3276	2.17	Q	V					
3+ 1	0.3307	2.20	Q	V					
3+ 2	0.3337	2.23	Q	V					

4+14	1.0336	11.17				Q				V	
4+15	1.0447	8.05				Q				V	
4+16	1.0515	4.94								V	
4+17	1.0580	4.74				Q				V	
4+18	1.0642	4.53				Q				V	
4+19	1.0702	4.33				Q				V	
4+20	1.0759	4.12				Q				V	
4+21	1.0813	3.92				Q				V	
4+22	1.0864	3.71				Q				V	
4+23	1.0912	3.51				Q				V	
4+24	1.0958	3.31				Q				V	
4+25	1.1002	3.22				Q				V	
4+26	1.1045	3.13				Q				V	
4+27	1.1087	3.04				Q				V	
4+28	1.1127	2.95				Q				V	
4+29	1.1167	2.86				Q				V	
4+30	1.1205	2.77				Q				V	
4+31	1.1242	2.68				Q				V	
4+32	1.1277	2.59				Q				V	
4+33	1.1312	2.53				Q				V	
4+34	1.1346	2.48				Q				V	
4+35	1.1380	2.43				Q				V	
4+36	1.1413	2.38				Q				V	
4+37	1.1445	2.32				Q				V	
4+38	1.1476	2.27				Q				V	
4+39	1.1506	2.22				Q				V	
4+40	1.1536	2.17				Q				V	
4+41	1.1566	2.13				Q				V	
4+42	1.1595	2.10				Q				V	
4+43	1.1623	2.06				Q				V	
4+44	1.1651	2.03				Q				V	
4+45	1.1678	1.99				Q				V	
4+46	1.1705	1.96				Q				V	
4+47	1.1732	1.92				Q				V	
4+48	1.1758	1.89				Q				V	
4+49	1.1783	1.86				Q				V	
4+50	1.1809	1.83				Q				V	
4+51	1.1833	1.81				Q				V	
4+52	1.1858	1.78				Q				V	
4+53	1.1882	1.76				Q				V	
4+54	1.1906	1.73				Q				V	
4+55	1.1930	1.71				Q				V	
4+56	1.1953	1.68				Q				V	
4+57	1.1976	1.66				Q				V	
4+58	1.1998	1.64				Q				V	
4+59	1.2021	1.62				Q				V	
5+ 0	1.2043	1.60				Q				V	
5+ 1	1.2065	1.58				Q				V	
5+ 2	1.2086	1.57				Q				V	
5+ 3	1.2107	1.55				Q				V	
5+ 4	1.2128	1.53				Q				V	
5+ 5	1.2149	1.51				Q				V	
5+ 6	1.2170	1.50				Q				V	
5+ 7	1.2190	1.48				Q				V	
5+ 8	1.2210	1.46				Q				V	
5+ 9	1.2230	1.45				Q				V	
5+10	1.2250	1.43				Q				V	
5+11	1.2270	1.42				Q				V	
5+12	1.2289	1.40				Q				V	
5+13	1.2308	1.39				Q				V	
5+14	1.2327	1.38				Q				V	
5+15	1.2346	1.37				Q				V	
5+16	1.2365	1.35				Q				V	
5+17	1.2383	1.34				Q				V	
5+18	1.2401	1.33				Q				V	
5+19	1.2419	1.31				Q				V	
5+20	1.2437	1.30				Q				V	
5+21	1.2455	1.29				Q				V	
5+22	1.2473	1.28				Q				V	
5+23	1.2490	1.27				Q				V	
5+24	1.2508	1.26				Q				V	

5+25	1.2525	1.25	Q				V	
5+26	1.2542	1.24	Q				V	
5+27	1.2559	1.23	Q				V	
5+28	1.2576	1.22	Q				V	
5+29	1.2592	1.21	Q				V	
5+30	1.2609	1.20	Q				V	
5+31	1.2625	1.19	Q				V	
5+32	1.2642	1.18	Q				V	
5+33	1.2658	1.17	Q				V	
5+34	1.2674	1.16	Q				V	
5+35	1.2690	1.16	Q				V	
5+36	1.2705	1.15	Q				V	
5+37	1.2721	1.14	Q				V	
5+38	1.2737	1.13	Q				V	
5+39	1.2752	1.12	Q				V	
5+40	1.2768	1.12	Q				V	
5+41	1.2783	1.11	Q				V	
5+42	1.2798	1.10	Q				V	
5+43	1.2813	1.09	Q				V	
5+44	1.2828	1.08	Q				V	
5+45	1.2843	1.08	Q				V	
5+46	1.2858	1.07	Q				V	
5+47	1.2872	1.06	Q				V	
5+48	1.2887	1.06	Q				V	
5+49	1.2901	1.05	Q				V	
5+50	1.2916	1.04	Q				V	
5+51	1.2930	1.04	Q				V	
5+52	1.2944	1.03	Q				V	
5+53	1.2958	1.03	Q				V	
5+54	1.2972	1.02	Q				V	
5+55	1.2986	1.01	Q				V	
5+56	1.3000	1.01	Q				V	
5+57	1.3014	1.00	Q				V	
5+58	1.3028	1.00	Q				V	
5+59	1.3041	0.99	Q				V	
6+ 0	1.3055	0.98	Q				V	
6+ 1	1.3068	0.98	Q				V	
6+ 2	1.3082	0.97	Q				V	
6+ 3	1.3095	0.97	Q				V	
6+ 4	1.3108	0.96	Q				V	
6+ 5	1.3122	0.96	Q				V	
6+ 6	1.3135	0.95	Q				V	
6+ 7	1.3148	0.95	Q				V	
6+ 8	1.3161	0.94	Q				V	

End of computations, total study area = 8.610 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/11/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Underground Storage Basin 1
100160prratundbas1

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 241.000 to Point/Station 242.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 573.800(Ft.)
Lowest elevation = 572.300(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.48 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8188)*(75.000^0.5)/(2.000^(1/3))]= 3.48
Calculated TC of 3.479 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.971(CFS)
Total initial stream area = 0.180(Ac.)

+++++
Process from Point/Station 242.000 to Point/Station 243.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.479 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm

User specified 'C' value of 0.760 given for subarea
Time of concentration = 3.48 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.766 CA = 1.401
Subarea runoff = 8.260(CFS) for 1.650(Ac.)
Total runoff = 9.231(CFS) Total area = 1.830(Ac.)

Process from Point/Station 243.000 to Point/Station 244.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 569.100(Ft.)
End of street segment elevation = 567.100(Ft.)
Length of street segment = 414.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 10.836(CFS)
Depth of flow = 0.485(Ft.), Average velocity = 2.490(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 23.824(Ft.)
Flow velocity = 2.49(Ft/s)
Travel time = 2.77 min. TC = 6.25 min.
Adding area flow to street
Rainfall intensity (I) = 5.704(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Rainfall intensity = 5.704(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.764 CA = 2.169
Subarea runoff = 3.140(CFS) for 1.010(Ac.)
Total runoff = 12.371(CFS) Total area = 2.840(Ac.)
Street flow at end of street = 12.371(CFS)
Half street flow at end of street = 12.371(CFS)
Depth of flow = 0.503(Ft.), Average velocity = 2.574(Ft/s)
Warning: depth of flow exceeds top of curb
Flow width (from curb towards crown)= 25.063(Ft.)

Process from Point/Station 244.000 to Point/Station 713.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 564.100(Ft.)
Downstream point/station elevation = 561.600(Ft.)
Pipe length = 458.00(Ft.) Slope = 0.0055 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 12.371(CFS)
Nearest computed pipe diameter = 24.00(In.)
Calculated individual pipe flow = 12.371(CFS)
Normal flow depth in pipe = 15.38(In.)
Flow top width inside pipe = 23.03(In.)
Critical Depth = 15.17(In.)
Pipe flow velocity = 5.82(Ft/s)
Travel time through pipe = 1.31 min.
Time of concentration (TC) = 7.56 min.

Process from Point/Station 244.000 to Point/Station 713.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 2.840(Ac.)
Runoff from this stream = 12.371(CFS)
Time of concentration = 7.56 min.
Rainfall intensity = 5.045(In/Hr)

Process from Point/Station 251.000 to Point/Station 252.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 571.700(Ft.)
Lowest elevation = 570.200(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.48 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8188)*(75.000^0.5)/(2.000^(1/3))]= 3.48
Calculated TC of 3.479 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 1.079(CFS)
Total initial stream area = 0.200(Ac.)

Process from Point/Station 252.000 to Point/Station 253.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.479 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Time of concentration = 3.48 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.769 CA = 1.030
Subarea runoff = 5.707(CFS) for 1.140(Ac.)
Total runoff = 6.786(CFS) Total area = 1.340(Ac.)

Process from Point/Station 253.000 to Point/Station 254.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 567.000(Ft.)
End of street segment elevation = 564.800(Ft.)
Length of street segment = 438.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000

Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 8.687(CFS)
 Depth of flow = 0.453(Ft.), Average velocity = 2.391(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 21.720(Ft.)
 Flow velocity = 2.39(Ft/s)
 Travel time = 3.05 min. TC = 6.53 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.543(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 5.543(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.765 CA = 1.897
 Subarea runoff = 3.728(CFS) for 1.140(Ac.)
 Total runoff = 10.513(CFS) Total area = 2.480(Ac.)
 Street flow at end of street = 10.513(CFS)
 Half street flow at end of street = 10.513(CFS)
 Depth of flow = 0.478(Ft.), Average velocity = 2.507(Ft/s)
 Flow width (from curb towards crown)= 23.374(Ft.)

++++++
 Process from Point/Station 254.000 to Point/Station 713.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 561.800(Ft.)
 Downstream point/station elevation = 561.600(Ft.)
 Pipe length = 37.00(Ft.) Slope = 0.0054 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 10.513(CFS)
 Nearest computed pipe diameter = 21.00(In.)
 Calculated individual pipe flow = 10.513(CFS)
 Normal flow depth in pipe = 15.61(In.)
 Flow top width inside pipe = 18.35(In.)
 Critical Depth = 14.49(In.)
 Pipe flow velocity = 5.48(Ft/s)
 Travel time through pipe = 0.11 min.
 Time of concentration (TC) = 6.65 min.

++++++
 Process from Point/Station 254.000 to Point/Station 713.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 2.480(Ac.)
 Runoff from this stream = 10.513(CFS)
 Time of concentration = 6.65 min.
 Rainfall intensity = 5.483(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	12.371	7.56	5.045
2	10.513	6.65	5.483
Qmax(1) =			
	1.000 *	1.000 *	12.371) +
	0.920 *	1.000 *	10.513) + = 22.044
Qmax(2) =			
	1.000 *	0.879 *	12.371) +
	1.000 *	1.000 *	10.513) + = 21.386

Total of 2 streams to confluence:
 Flow rates before confluence point:
 12.371 10.513
 Maximum flow rates at confluence using above data:

22.044 21.386
 Area of streams before confluence:
 2.840 2.480
 Results of confluence:
 Total flow rate = 22.044 (CFS)
 Time of concentration = 7.561 min.
 Effective stream area after confluence = 5.320 (Ac.)

 Process from Point/Station 713.000 to Point/Station 714.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 561.600 (Ft.)
 Downstream point/station elevation = 560.200 (Ft.)
 Pipe length = 286.00 (Ft.) Slope = 0.0049 Manning's N = 0.009
 No. of pipes = 1 Required pipe flow = 22.044 (CFS)
 Nearest computed pipe diameter = 24.00 (In.)
 Calculated individual pipe flow = 22.044 (CFS)
 Normal flow depth in pipe = 18.94 (In.)
 Flow top width inside pipe = 19.58 (In.)
 Critical Depth = 20.12 (In.)
 Pipe flow velocity = 8.29 (Ft/s)
 Travel time through pipe = 0.58 min.
 Time of concentration (TC) = 8.14 min.

 Process from Point/Station 713.000 to Point/Station 714.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
 Stream flow area = 5.320 (Ac.)
 Runoff from this stream = 22.044 (CFS)
 Time of concentration = 8.14 min.
 Rainfall intensity = 4.812 (In/Hr)

 Process from Point/Station 261.000 to Point/Station 262.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.120
 Decimal fraction soil group D = 0.880
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.819
 Initial subarea total flow distance = 75.000 (Ft.)
 Highest elevation = 569.500 (Ft.)
 Lowest elevation = 568.000 (Ft.)
 Elevation difference = 1.500 (Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.48 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (\% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8188) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.48$
 Calculated TC of 3.479 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587 (In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
 Subarea runoff = 0.809 (CFS)
 Total initial stream area = 0.150 (Ac.)

Process from Point/Station 262.000 to Point/Station 263.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 568.000(Ft.)
End of street segment elevation = 563.800(Ft.)
Length of street segment = 300.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 1.635(CFS)
Depth of flow = 0.262(Ft.), Average velocity = 2.344(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 8.958(Ft.)
Flow velocity = 2.34(Ft/s)
Travel time = 2.13 min. TC = 5.61 min.
Adding area flow to street
Rainfall intensity (I) = 6.114(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Rainfall intensity = 6.114(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.778 CA = 0.389
Subarea runoff = 1.568(CFS) for 0.350(Ac.)
Total runoff = 2.377(CFS) Total area = 0.500(Ac.)
Street flow at end of street = 2.377(CFS)
Half street flow at end of street = 2.377(CFS)
Depth of flow = 0.286(Ft.), Average velocity = 2.560(Ft/s)
Flow width (from curb towards crown)= 10.539(Ft.)

Process from Point/Station 263.000 to Point/Station 714.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 560.800(Ft.)
Downstream point/station elevation = 560.200(Ft.)
Pipe length = 39.00(Ft.) Slope = 0.0154 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 2.377(CFS)
Nearest computed pipe diameter = 12.00(In.)
Calculated individual pipe flow = 2.377(CFS)
Normal flow depth in pipe = 6.27(In.)
Flow top width inside pipe = 11.99(In.)
Critical Depth = 7.92(In.)
Pipe flow velocity = 5.73(Ft/s)
Travel time through pipe = 0.11 min.
Time of concentration (TC) = 5.73 min.

Process from Point/Station 263.000 to Point/Station 714.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 0.500(Ac.)
Runoff from this stream = 2.377(CFS)
Time of concentration = 5.73 min.
Rainfall intensity = 6.036(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
------------	-----------------	----------	----------------------------

1	22.044	8.14	4.812	
2	2.377	5.73	6.036	
Qmax(1) =				
	1.000 *	1.000 *	22.044) +	
	0.797 *	1.000 *	2.377) + =	23.939
Qmax(2) =				
	1.000 *	0.704 *	22.044) +	
	1.000 *	1.000 *	2.377) + =	17.889

Total of 2 streams to confluence:
Flow rates before confluence point:
22.044 2.377
Maximum flow rates at confluence using above data:
23.939 17.889
Area of streams before confluence:
5.320 0.500

Results of confluence:
Total flow rate = 23.939(CFS)
Time of concentration = 8.136 min.
Effective stream area after confluence = 5.820(Ac.)

Process from Point/Station 714.000 to Point/Station 715.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 560.200(Ft.)
Downstream point/station elevation = 549.800(Ft.)
Pipe length = 108.00(Ft.) Slope = 0.0963 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 23.939(CFS)
Nearest computed pipe diameter = 18.00(In.)
Calculated individual pipe flow = 23.939(CFS)
Normal flow depth in pipe = 11.46(In.)
Flow top width inside pipe = 17.31(In.)
Critical depth could not be calculated.
Pipe flow velocity = 20.16(Ft/s)
Travel time through pipe = 0.09 min.
Time of concentration (TC) = 8.23 min.

Process from Point/Station 714.000 to Point/Station 715.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 5.820(Ac.)
Runoff from this stream = 23.939(CFS)
Time of concentration = 8.23 min.
Rainfall intensity = 4.778(In/Hr)

Process from Point/Station 831.000 to Point/Station 832.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 68.000(Ft.)
Highest elevation = 577.600(Ft.)
Lowest elevation = 576.600(Ft.)
Elevation difference = 1.000(Ft.) Slope = 1.471 %
Top of Initial Area Slope adjusted by User to 1.533 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)

for the top area slope value of 1.53 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.80 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (\% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8188) * (75.000^{.5})] / (1.533^{(1/3)}) = 3.80$
 Calculated TC of 3.802 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
 Subarea runoff = 0.162(CFS)
 Total initial stream area = 0.030(Ac.)

 Process from Point/Station 832.000 to Point/Station 833.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 576.600(Ft.)
 End of street segment elevation = 553.200(Ft.)
 Length of street segment = 477.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 39.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 2.030(CFS)
 Depth of flow = 0.239(Ft.), Average velocity = 3.998(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 7.412(Ft.)
 Flow velocity = 4.00(Ft/s)
 Travel time = 1.99 min. TC = 5.79 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.992(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 5.992(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.762 CA = 0.663
 Subarea runoff = 3.811(CFS) for 0.840(Ac.)
 Total runoff = 3.973(CFS) Total area = 0.870(Ac.)
 Street flow at end of street = 3.973(CFS)
 Half street flow at end of street = 3.973(CFS)
 Depth of flow = 0.278(Ft.), Average velocity = 4.665(Ft/s)
 Flow width (from curb towards crown) = 10.040(Ft.)

 Process from Point/Station 833.000 to Point/Station 715.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 550.200(Ft.)
 Downstream point/station elevation = 549.800(Ft.)
 Pipe length = 79.00(Ft.) Slope = 0.0051 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 3.973(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 3.973(CFS)
 Normal flow depth in pipe = 10.76(In.)
 Flow top width inside pipe = 13.51(In.)
 Critical Depth = 9.67(In.)
 Pipe flow velocity = 4.21(Ft/s)
 Travel time through pipe = 0.31 min.
 Time of concentration (TC) = 6.10 min.

Process from Point/Station 833.000 to Point/Station 715.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 0.870 (Ac.)
Runoff from this stream = 3.973 (CFS)
Time of concentration = 6.10 min.
Rainfall intensity = 5.793 (In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	23.939	8.23	4.778
2	3.973	6.10	5.793
Qmax(1) =			
	1.000 *	1.000 *	23.939) +
	0.825 *	1.000 *	3.973) + = 27.216
Qmax(2) =			
	1.000 *	0.742 *	23.939) +
	1.000 *	1.000 *	3.973) + = 21.732

Total of 2 streams to confluence:
Flow rates before confluence point:
23.939 3.973
Maximum flow rates at confluence using above data:
27.216 21.732
Area of streams before confluence:
5.820 0.870
Results of confluence:
Total flow rate = 27.216 (CFS)
Time of concentration = 8.226 min.
Effective stream area after confluence = 6.690 (Ac.)

Process from Point/Station 715.000 to Point/Station 293.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 549.800 (Ft.)
Downstream point/station elevation = 546.800 (Ft.)
Pipe length = 121.00 (Ft.) Slope = 0.0248 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 27.216 (CFS)
Nearest computed pipe diameter = 24.00 (In.)
Calculated individual pipe flow = 27.216 (CFS)
Normal flow depth in pipe = 15.70 (In.)
Flow top width inside pipe = 22.83 (In.)
Critical Depth = 21.75 (In.)
Pipe flow velocity = 12.49 (Ft/s)
Travel time through pipe = 0.16 min.
Time of concentration (TC) = 8.39 min.

Process from Point/Station 715.000 to Point/Station 293.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 6.690 (Ac.)
Runoff from this stream = 27.216 (CFS)
Time of concentration = 8.39 min.
Rainfall intensity = 4.718 (In/Hr)

Process from Point/Station 291.000 to Point/Station 292.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.120
 Decimal fraction soil group D = 0.880
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.819
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 571.100(Ft.)
 Lowest elevation = 569.600(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.48 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}]/(%\ slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8188)*(75.000^{.5})/(2.000^{(1/3)})] = 3.48$
 Calculated TC of 3.479 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
 Subarea runoff = 0.485(CFS)
 Total initial stream area = 0.090(Ac.)

+++++
 Process from Point/Station 292.000 to Point/Station 293.000
 **** SUBAREA FLOW ADDITION ****

Calculated TC of 3.479 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Time of concentration = 3.48 min.
 Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.763 CA = 1.320
 Subarea runoff = 8.210(CFS) for 1.640(Ac.)
 Total runoff = 8.695(CFS) Total area = 1.730(Ac.)

+++++
 Process from Point/Station 292.000 to Point/Station 293.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 1.730(Ac.)
 Runoff from this stream = 8.695(CFS)
 Time of concentration = 3.48 min.
 Rainfall intensity = 6.587(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	27.216	8.39	4.718
2	8.695	3.48	6.587
Qmax(1) =			
	1.000 *	1.000 *	27.216) +
	0.716 *	1.000 *	8.695) + = 33.444
Qmax(2) =			
	1.000 *	0.415 *	27.216) +
	1.000 *	1.000 *	8.695) + = 19.985

Total of 2 streams to confluence:
 Flow rates before confluence point:
 27.216 8.695

Maximum flow rates at confluence using above data:
33.444 19.985
Area of streams before confluence:
6.690 1.730
Results of confluence:
Total flow rate = 33.444(CFS)
Time of concentration = 8.387 min.
Effective stream area after confluence = 8.420(Ac.)

Process from Point/Station 293.000 to Point/Station 716.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 546.800(Ft.)
Downstream point/station elevation = 543.700(Ft.)
Pipe length = 195.00(Ft.) Slope = 0.0159 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 33.444(CFS)
Nearest computed pipe diameter = 27.00(In.)
Calculated individual pipe flow = 33.444(CFS)
Normal flow depth in pipe = 19.24(In.)
Flow top width inside pipe = 24.44(In.)
Critical Depth = 23.75(In.)
Pipe flow velocity = 11.04(Ft/s)
Travel time through pipe = 0.29 min.
Time of concentration (TC) = 8.68 min.

Process from Point/Station 293.000 to Point/Station 716.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 8.420(Ac.)
Runoff from this stream = 33.444(CFS)
Time of concentration = 8.68 min.
Rainfall intensity = 4.614(In/Hr)

Process from Point/Station 271.000 to Point/Station 272.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 573.800(Ft.)
Lowest elevation = 572.300(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.48 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8188)*(75.000^0.5)]/(2.000^(1/3))= 3.48
Calculated TC of 3.479 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.971(CFS)
Total initial stream area = 0.180(Ac.)

+++++
Process from Point/Station 272.000 to Point/Station 273.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.479 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Time of concentration = 3.48 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.763 CA = 3.210
Subarea runoff = 20.174(CFS) for 4.030(Ac.)
Total runoff = 21.145(CFS) Total area = 4.210(Ac.)

+++++
Process from Point/Station 273.000 to Point/Station 274.000
**** IMPROVED CHANNEL TRAVEL TIME ****

Upstream point elevation = 556.500(Ft.)
Downstream point elevation = 553.300(Ft.)
Channel length thru subarea = 664.000(Ft.)
Channel base width = 0.000(Ft.)
Slope or 'Z' of left channel bank = 0.100
Slope or 'Z' of right channel bank = 0.100
!!Warning: Water is above left or right bank elevations
!!Warning: Water is above left or right bank elevations
Estimated mean flow rate at midpoint of channel = 40.325(CFS)
Manning's 'N' = 0.015
Maximum depth of channel = 0.150(Ft.)
Flow(q) thru subarea = 40.325(CFS)
Depth of flow = 59.707(Ft.), Average velocity = 22.541(Ft/s)
!!Warning: Water is above left or right bank elevations
Channel flow top width = 0.030(Ft.)
Flow Velocity = 22.54(Ft/s)
Travel time = 0.49 min.
Time of concentration = 3.97 min.
Critical depth = 38.500(Ft.)
ERROR - Channel depth exceeds maximum allowable depth
Adding area flow to channel
Calculated TC of 3.970 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.761 CA = 9.024
Subarea runoff = 38.296(CFS) for 7.650(Ac.)
Total runoff = 59.441(CFS) Total area = 11.860(Ac.)
Depth of flow = 75.340(Ft.), Average velocity = 26.325(Ft/s)
!!Warning: Water is above left or right bank elevations
ERROR - Channel depth exceeds maximum allowable depth
Critical depth = 49.500(Ft.)

+++++
Process from Point/Station 274.000 to Point/Station 716.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 550.300(Ft.)
Downstream point/station elevation = 543.700(Ft.)
Pipe length = 145.00(Ft.) Slope = 0.0455 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 59.441(CFS)
Nearest computed pipe diameter = 27.00(In.)
Calculated individual pipe flow = 59.441(CFS)
Normal flow depth in pipe = 20.02(In.)
Flow top width inside pipe = 23.65(In.)
Critical depth could not be calculated.
Pipe flow velocity = 18.80(Ft/s)
Travel time through pipe = 0.13 min.

Time of concentration (TC) = 4.10 min.

Process from Point/Station 274.000 to Point/Station 716.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 11.860(Ac.)
Runoff from this stream = 59.441(CFS)
Time of concentration = 4.10 min.
Rainfall intensity = 6.587(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	33.444	8.68	4.614
2	59.441	4.10	6.587

Qmax(1) =
1.000 * 1.000 * 33.444) +
0.701 * 1.000 * 59.441) + = 75.086

Qmax(2) =
1.000 * 0.472 * 33.444) +
1.000 * 1.000 * 59.441) + = 75.230

Total of 2 streams to confluence:
Flow rates before confluence point:
33.444 59.441
Maximum flow rates at confluence using above data:
75.086 75.230
Area of streams before confluence:
8.420 11.860
Results of confluence:
Total flow rate = 75.230(CFS)
Time of concentration = 4.099 min.
Effective stream area after confluence = 20.280(Ac.)

Process from Point/Station 272.000 to Point/Station 716.000
**** 6 HOUR HYDROGRAPH ****

Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 4.10
Basin Area = 20.28 Acres
6 Hour Rainfall = 2.500 Inches
Runoff Coefficient = 0.762
Peak Discharge = 75.23 CFS

Time (Min)	Discharge (CFS)
0	0.000
4	2.300
8	2.317
12	2.351
16	2.369
20	2.405
24	2.424
28	2.463
32	2.483
36	2.524
40	2.545
44	2.589
48	2.612
52	2.659
56	2.683
60	2.733
64	2.759

68	2.813
72	2.841
76	2.900
80	2.930
84	2.993
88	3.026
92	3.095
96	3.130
100	3.205
104	3.245
108	3.327
112	3.370
116	3.461
120	3.509
124	3.610
128	3.663
132	3.776
136	3.836
140	3.963
144	4.031
148	4.176
152	4.254
156	4.421
160	4.511
164	4.706
168	4.812
172	5.043
176	5.170
180	5.450
184	5.605
188	5.952
192	6.147
196	6.591
200	6.846
204	7.442
208	7.793
212	8.643
216	9.166
220	10.506
224	11.392
228	13.924
232	15.860
236	23.287
240	32.811
244	75.230
248	18.678
252	12.497
256	9.778
260	8.190
264	7.128
268	6.359
272	5.771
276	5.305
280	4.924
284	4.606
288	4.335
292	4.102
296	3.898
300	3.718
304	3.558
308	3.415
312	3.285
316	3.167
320	3.060
324	2.961
328	2.870
332	2.786
336	2.708
340	2.635
344	2.567
348	2.503

352 2.443
 356 2.387
 360 2.334
 364 2.284

+++++

6 - H O U R S T O R M
 R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	18.8	37.6	56.4	75.2
0+ 0	0.0000	0.00	Q				
0+ 1	0.0008	0.58	Q				
0+ 2	0.0024	1.15	Q				
0+ 3	0.0048	1.73	Q				
0+ 4	0.0079	2.30	VQ				
0+ 5	0.0111	2.30	VQ				
0+ 6	0.0143	2.31	VQ				
0+ 7	0.0175	2.31	VQ				
0+ 8	0.0207	2.32	VQ				
0+ 9	0.0239	2.33	VQ				
0+10	0.0271	2.33	VQ				
0+11	0.0303	2.34	VQ				
0+12	0.0335	2.35	VQ				
0+13	0.0368	2.36	VQ				
0+14	0.0400	2.36	VQ				
0+15	0.0433	2.36	VQ				
0+16	0.0465	2.37	VQ				
0+17	0.0498	2.38	VQ				
0+18	0.0531	2.39	VQ				
0+19	0.0564	2.40	VQ				
0+20	0.0597	2.41	VQ				
0+21	0.0630	2.41	VQ				
0+22	0.0664	2.41	VQ				
0+23	0.0697	2.42	VQ				
0+24	0.0730	2.42	VQ				
0+25	0.0764	2.43	IQ				
0+26	0.0798	2.44	IQ				
0+27	0.0831	2.45	IQ				
0+28	0.0865	2.46	IQ				
0+29	0.0899	2.47	IQ				
0+30	0.0933	2.47	IQ				
0+31	0.0968	2.48	IQ				
0+32	0.1002	2.48	IQ				
0+33	0.1036	2.49	IQ				
0+34	0.1071	2.50	IQ				
0+35	0.1105	2.51	IQ				
0+36	0.1140	2.52	IQ				
0+37	0.1175	2.53	IQ				
0+38	0.1210	2.53	IQ				
0+39	0.1245	2.54	IQ				
0+40	0.1280	2.55	IQ				
0+41	0.1315	2.56	IQ				
0+42	0.1350	2.57	IQ				
0+43	0.1386	2.58	IQ				
0+44	0.1421	2.59	IQ				
0+45	0.1457	2.59	IQ				
0+46	0.1493	2.60	IQV				
0+47	0.1529	2.61	IQV				
0+48	0.1565	2.61	IQV				
0+49	0.1601	2.62	IQV				
0+50	0.1637	2.64	IQV				
0+51	0.1674	2.65	IQV				
0+52	0.1710	2.66	IQV				
0+53	0.1747	2.66	IQV				
0+54	0.1784	2.67	IQV				
0+55	0.1821	2.68	IQV				
0+56	0.1858	2.68	IQV				
0+57	0.1895	2.70	IQV				

0+58	0.1932	2.71	QV				
0+59	0.1970	2.72	QV				
1+ 0	0.2007	2.73	QV				
1+ 1	0.2045	2.74	QV				
1+ 2	0.2083	2.75	QV				
1+ 3	0.2121	2.75	QV				
1+ 4	0.2159	2.76	QV				
1+ 5	0.2197	2.77	QV				
1+ 6	0.2235	2.79	Q V				
1+ 7	0.2274	2.80	Q V				
1+ 8	0.2313	2.81	Q V				
1+ 9	0.2351	2.82	Q V				
1+10	0.2390	2.83	Q V				
1+11	0.2429	2.83	Q V				
1+12	0.2469	2.84	Q V				
1+13	0.2508	2.86	Q V				
1+14	0.2547	2.87	Q V				
1+15	0.2587	2.88	Q V				
1+16	0.2627	2.90	Q V				
1+17	0.2667	2.91	Q V				
1+18	0.2707	2.91	Q V				
1+19	0.2748	2.92	Q V				
1+20	0.2788	2.93	Q V				
1+21	0.2828	2.95	Q V				
1+22	0.2869	2.96	Q V				
1+23	0.2910	2.98	Q V				
1+24	0.2952	2.99	Q V				
1+25	0.2993	3.00	Q V				
1+26	0.3034	3.01	Q V				
1+27	0.3076	3.02	Q V				
1+28	0.3118	3.03	Q V				
1+29	0.3159	3.04	Q V				
1+30	0.3202	3.06	Q V				
1+31	0.3244	3.08	Q V				
1+32	0.3287	3.09	Q V				
1+33	0.3329	3.10	Q V				
1+34	0.3372	3.11	Q V				
1+35	0.3415	3.12	Q V				
1+36	0.3458	3.13	Q V				
1+37	0.3502	3.15	Q V				
1+38	0.3545	3.17	Q V				
1+39	0.3589	3.19	Q V				
1+40	0.3633	3.21	Q V				
1+41	0.3678	3.22	Q V				
1+42	0.3722	3.23	Q V				
1+43	0.3767	3.23	Q V				
1+44	0.3811	3.24	Q V				
1+45	0.3856	3.27	Q V				
1+46	0.3902	3.29	Q V				
1+47	0.3947	3.31	Q V				
1+48	0.3993	3.33	Q V				
1+49	0.4039	3.34	Q V				
1+50	0.4085	3.35	Q V				
1+51	0.4131	3.36	Q V				
1+52	0.4178	3.37	Q V				
1+53	0.4225	3.39	Q V				
1+54	0.4272	3.42	Q V				
1+55	0.4319	3.44	Q V				
1+56	0.4367	3.46	Q V				
1+57	0.4414	3.47	Q V				
1+58	0.4462	3.48	Q V				
1+59	0.4511	3.50	Q V				
2+ 0	0.4559	3.51	Q V				
2+ 1	0.4608	3.53	Q V				
2+ 2	0.4657	3.56	Q V				
2+ 3	0.4706	3.58	Q V				
2+ 4	0.4756	3.61	Q V				
2+ 5	0.4806	3.62	Q V				
2+ 6	0.4856	3.64	Q V				
2+ 7	0.4906	3.65	Q V				
2+ 8	0.4956	3.66	Q V				

2+ 9	0.5007	3.69	Q	V					
2+10	0.5059	3.72	Q	V					
2+11	0.5110	3.75	Q	V					
2+12	0.5162	3.78	Q	V					
2+13	0.5214	3.79	Q	V					
2+14	0.5267	3.81	Q	V					
2+15	0.5319	3.82	Q	V					
2+16	0.5372	3.84	Q	V					
2+17	0.5426	3.87	Q	V					
2+18	0.5479	3.90	Q	V					
2+19	0.5533	3.93	Q	V					
2+20	0.5588	3.96	Q	V					
2+21	0.5643	3.98	Q	V					
2+22	0.5698	4.00	Q	V					
2+23	0.5753	4.01	Q	V					
2+24	0.5809	4.03	Q	V					
2+25	0.5865	4.07	Q	V					
2+26	0.5921	4.10	Q	V					
2+27	0.5978	4.14	Q	V					
2+28	0.6036	4.18	Q	V					
2+29	0.6094	4.20	Q	V					
2+30	0.6152	4.22	Q	V					
2+31	0.6210	4.23	Q	V					
2+32	0.6269	4.25	Q	V					
2+33	0.6328	4.30	Q	V					
2+34	0.6387	4.34	Q	V					
2+35	0.6448	4.38	Q	V					
2+36	0.6509	4.42	Q	V					
2+37	0.6570	4.44	Q	V					
2+38	0.6631	4.47	Q	V					
2+39	0.6693	4.49	Q	V					
2+40	0.6755	4.51	Q	V					
2+41	0.6818	4.56	Q	V					
2+42	0.6882	4.61	Q	V					
2+43	0.6946	4.66	Q	V					
2+44	0.7011	4.71	Q	V					
2+45	0.7076	4.73	Q	V					
2+46	0.7141	4.76	Q	V					
2+47	0.7207	4.79	Q	V					
2+48	0.7274	4.81	Q	V					
2+49	0.7341	4.87	Q	V					
2+50	0.7409	4.93	Q	V					
2+51	0.7477	4.99	Q	V					
2+52	0.7547	5.04	Q	V					
2+53	0.7617	5.07	Q	V					
2+54	0.7687	5.11	Q	V					
2+55	0.7758	5.14	Q	V					
2+56	0.7829	5.17	Q	V					
2+57	0.7901	5.24	Q	V					
2+58	0.7974	5.31	Q	V					
2+59	0.8048	5.38	Q	V					
3+ 0	0.8123	5.45	Q	V					
3+ 1	0.8199	5.49	Q	V					
3+ 2	0.8275	5.53	Q	V					
3+ 3	0.8352	5.57	Q	V					
3+ 4	0.8429	5.60	Q	V					
3+ 5	0.8507	5.69	Q	V					
3+ 6	0.8587	5.78	Q	V					
3+ 7	0.8668	5.86	Q	V					
3+ 8	0.8750	5.95	Q	V					
3+ 9	0.8832	6.00	Q	V					
3+10	0.8916	6.05	Q	V					
3+11	0.9000	6.10	Q	V					
3+12	0.9084	6.15	Q	V					
3+13	0.9171	6.26	Q	V					
3+14	0.9258	6.37	Q	V					
3+15	0.9347	6.48	Q	V					
3+16	0.9438	6.59	Q	V					
3+17	0.9530	6.66	Q	V					
3+18	0.9622	6.72	Q	V					
3+19	0.9716	6.78	Q	V					

4+31	2.5425	5.92	Q				V	
4+32	2.5505	5.77	Q				V	
4+33	2.5583	5.65	Q				V	
4+34	2.5659	5.54	Q				V	
4+35	2.5734	5.42	Q				V	
4+36	2.5807	5.31	Q				V	
4+37	2.5879	5.21	Q				V	
4+38	2.5949	5.11	Q				V	
4+39	2.6018	5.02	Q				V	
4+40	2.6086	4.92	Q				V	
4+41	2.6153	4.84	Q				V	
4+42	2.6218	4.76	Q				V	
4+43	2.6283	4.69	Q				V	
4+44	2.6346	4.61	Q				V	
4+45	2.6409	4.54	Q				V	
4+46	2.6470	4.47	Q				V	
4+47	2.6531	4.40	Q				V	
4+48	2.6591	4.34	Q				V	
4+49	2.6650	4.28	Q				V	
4+50	2.6708	4.22	Q				V	
4+51	2.6765	4.16	Q				V	
4+52	2.6822	4.10	Q				V	
4+53	2.6877	4.05	Q				V	
4+54	2.6933	4.00	Q				V	
4+55	2.6987	3.95	Q				V	
4+56	2.7041	3.90	Q				V	
4+57	2.7094	3.85	Q				V	
4+58	2.7146	3.81	Q				V	
4+59	2.7198	3.76	Q				V	
5+ 0	2.7249	3.72	Q				V	
5+ 1	2.7300	3.68	Q				V	
5+ 2	2.7350	3.64	Q				V	
5+ 3	2.7400	3.60	Q				V	
5+ 4	2.7449	3.56	Q				V	
5+ 5	2.7497	3.52	Q				V	
5+ 6	2.7545	3.49	Q				V	
5+ 7	2.7593	3.45	Q				V	
5+ 8	2.7640	3.41	Q				V	
5+ 9	2.7686	3.38	Q				V	
5+10	2.7732	3.35	Q				V	
5+11	2.7778	3.32	Q				V	
5+12	2.7823	3.29	Q				V	
5+13	2.7868	3.26	Q				V	
5+14	2.7913	3.23	Q				V	
5+15	2.7957	3.20	Q				V	
5+16	2.8000	3.17	Q				V	
5+17	2.8044	3.14	Q				V	
5+18	2.8086	3.11	Q				V	
5+19	2.8129	3.09	Q				V	
5+20	2.8171	3.06	Q				V	
5+21	2.8213	3.04	Q				V	
5+22	2.8254	3.01	Q				V	
5+23	2.8296	2.99	Q				V	
5+24	2.8336	2.96	Q				V	
5+25	2.8377	2.94	Q				V	
5+26	2.8417	2.92	Q				V	
5+27	2.8457	2.89	Q				V	
5+28	2.8496	2.87	Q				V	
5+29	2.8536	2.85	Q				V	
5+30	2.8575	2.83	Q				V	
5+31	2.8613	2.81	Q				V	
5+32	2.8652	2.79	Q				V	
5+33	2.8690	2.77	Q				V	
5+34	2.8727	2.75	Q				V	
5+35	2.8765	2.73	Q				V	
5+36	2.8802	2.71	Q				V	
5+37	2.8839	2.69	Q				V	
5+38	2.8876	2.67	Q				V	
5+39	2.8913	2.65	Q				V	
5+40	2.8949	2.63	Q				V	
5+41	2.8985	2.62	Q				V	

5+42	2.9021	2.60	Q				V
5+43	2.9056	2.58	Q				V
5+44	2.9092	2.57	Q				V
5+45	2.9127	2.55	Q				V
5+46	2.9162	2.53	Q				V
5+47	2.9197	2.52	Q				V
5+48	2.9231	2.50	Q				V
5+49	2.9265	2.49	Q				V
5+50	2.9299	2.47	Q				V
5+51	2.9333	2.46	Q				V
5+52	2.9367	2.44	Q				V
5+53	2.9400	2.43	Q				V
5+54	2.9434	2.42	Q				V
5+55	2.9467	2.40	Q				V
5+56	2.9500	2.39	Q				V
5+57	2.9532	2.37	Q				V
5+58	2.9565	2.36	Q				V
5+59	2.9597	2.35	Q				V
6+ 0	2.9629	2.33	Q				V
6+ 1	2.9661	2.32	Q				V
6+ 2	2.9693	2.31	Q				V
6+ 3	2.9725	2.30	Q				V
6+ 4	2.9756	2.28	Q				V

End of computations, total study area = 20.280 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/10/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Basin 5
100160prratbas5

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 331.000 to Point/Station 332.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 70.000(Ft.)
Highest elevation = 613.000(Ft.)
Lowest elevation = 611.800(Ft.)
Elevation difference = 1.200(Ft.) Slope = 1.714 %
Top of Initial Area Slope adjusted by User to 1.667 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 1.67 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.70 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8188)*(75.000^0.5)/(1.667^(1/3))]= 3.70
Calculated TC of 3.697 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.647(CFS)
Total initial stream area = 0.120(Ac.)

+++++
Process from Point/Station 332.000 to Point/Station 333.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 611.800(Ft.)
End of street segment elevation = 574.900(Ft.)

Length of street segment = 1281.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 5.967(CFS)
 Depth of flow = 0.327(Ft.), Average velocity = 4.203(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 13.286(Ft.)
 Flow velocity = 4.20(Ft/s)
 Travel time = 5.08 min. TC = 8.78 min.
 Adding area flow to street
 Rainfall intensity (I) = 4.582(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 4.582(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.762 CA = 2.447
 Subarea runoff = 10.564(CFS) for 3.090(Ac.)
 Total runoff = 11.211(CFS) Total area = 3.210(Ac.)
 Street flow at end of street = 11.211(CFS)
 Half street flow at end of street = 11.211(CFS)
 Depth of flow = 0.384(Ft.), Average velocity = 4.909(Ft/s)
 Flow width (from curb towards crown)= 17.081(Ft.)

++++++
 Process from Point/Station 333.000 to Point/Station 718.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 571.900(Ft.)
 Downstream point/station elevation = 568.200(Ft.)
 Pipe length = 66.00(Ft.) Slope = 0.0561 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 11.211(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 11.211(CFS)
 Normal flow depth in pipe = 9.54(In.)
 Flow top width inside pipe = 14.43(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 13.61(Ft/s)
 Travel time through pipe = 0.08 min.
 Time of concentration (TC) = 8.86 min.

++++++
 Process from Point/Station 333.000 to Point/Station 718.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
 Stream flow area = 3.210(Ac.)
 Runoff from this stream = 11.211(CFS)
 Time of concentration = 8.86 min.
 Rainfall intensity = 4.555(In/Hr)

++++++
 Process from Point/Station 341.000 to Point/Station 342.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.120
 Decimal fraction soil group D = 0.880

[COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.819
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 609.300(Ft.)
 Lowest elevation = 607.800(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.48 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}]/(%\ slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8188)*(75.000^{.5})]/(2.000^{(1/3)})] = 3.48$
 Calculated TC of 3.479 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
 Subarea runoff = 0.431(CFS)
 Total initial stream area = 0.080(Ac.)

 Process from Point/Station 342.000 to Point/Station 343.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 607.800(Ft.)
 End of street segment elevation = 575.400(Ft.)
 Length of street segment = 1081.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 2.860(CFS)
 Depth of flow = 0.273(Ft.), Average velocity = 3.576(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 9.689(Ft.)
 Flow velocity = 3.58(Ft/s)
 Travel time = 5.04 min. TC = 8.52 min.
 Adding area flow to street
 Rainfall intensity (I) = 4.672(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 4.672(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.763 CA = 1.145
 Subarea runoff = 4.916(CFS) for 1.420(Ac.)
 Total runoff = 5.348(CFS) Total area = 1.500(Ac.)
 Street flow at end of street = 5.348(CFS)
 Half street flow at end of street = 5.348(CFS)
 Depth of flow = 0.317(Ft.), Average velocity = 4.155(Ft/s)
 Flow width (from curb towards crown)= 12.604(Ft.)

 Process from Point/Station 343.000 to Point/Station 718.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 572.400(Ft.)
 Downstream point/station elevation = 568.200(Ft.)
 Pipe length = 6.00(Ft.) Slope = 0.7000 Manning's N = 0.013

No. of pipes = 1 Required pipe flow = 5.348 (CFS)
Nearest computed pipe diameter = 9.00 (In.)
Calculated individual pipe flow = 5.348 (CFS)
Normal flow depth in pipe = 3.88 (In.)
Flow top width inside pipe = 8.91 (In.)
Critical depth could not be calculated.
Pipe flow velocity = 29.31 (Ft/s)
Travel time through pipe = 0.00 min.
Time of concentration (TC) = 8.52 min.

Process from Point/Station 343.000 to Point/Station 718.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 1.500 (Ac.)
Runoff from this stream = 5.348 (CFS)
Time of concentration = 8.52 min.
Rainfall intensity = 4.671 (In/Hr)

Process from Point/Station 351.000 to Point/Station 352.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 67.000 (Ft.)
Highest elevation = 584.000 (Ft.)
Lowest elevation = 583.100 (Ft.)
Elevation difference = 0.900 (Ft.) Slope = 1.343 %
Top of Initial Area Slope adjusted by User to 1.467 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 60.00 (Ft)
for the top area slope value of 1.47 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.45 minutes
TC = [1.8*(1.1-C)*distance (Ft.)^{0.5} / (% slope^{1/3})]
TC = [1.8*(1.1-0.8188)*(60.000^{0.5}) / (1.467^{1/3})] = 3.45
Calculated TC of 3.451 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.485 (CFS)
Total initial stream area = 0.090 (Ac.)

Process from Point/Station 352.000 to Point/Station 353.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 583.100 (Ft.)
End of street segment elevation = 579.300 (Ft.)
Length of street segment = 214.000 (Ft.)
Height of curb above gutter flowline = 6.0 (In.)
Width of half street (curb to crown) = 45.000 (Ft.)
Distance from crown to crossfall grade break = 0.500 (Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000 (Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500 (Ft.)

Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 2.459(CFS)
 Depth of flow = 0.280(Ft.), Average velocity = 2.826(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 10.163(Ft.)
 Flow velocity = 2.83(Ft/s)
 Travel time = 1.26 min. TC = 4.71 min.
 Adding area flow to street
 Calculated TC of 4.713 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.766 CA = 0.682
 Subarea runoff = 4.005(CFS) for 0.800(Ac.)
 Total runoff = 4.490(CFS) Total area = 0.890(Ac.)
 Street flow at end of street = 4.490(CFS)
 Half street flow at end of street = 4.490(CFS)
 Depth of flow = 0.323(Ft.), Average velocity = 3.266(Ft/s)
 Flow width (from curb towards crown)= 13.059(Ft.)

++++++
 Process from Point/Station 353.000 to Point/Station 718.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 576.300(Ft.)
 Downstream point/station elevation = 568.200(Ft.)
 Pipe length = 389.00(Ft.) Slope = 0.0208 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 4.490(CFS)
 Nearest computed pipe diameter = 12.00(In.)
 Calculated individual pipe flow = 4.490(CFS)
 Normal flow depth in pipe = 8.68(In.)
 Flow top width inside pipe = 10.73(In.)
 Critical Depth = 10.63(In.)
 Pipe flow velocity = 7.38(Ft/s)
 Travel time through pipe = 0.88 min.
 Time of concentration (TC) = 5.59 min.

++++++
 Process from Point/Station 353.000 to Point/Station 718.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 3

Stream flow area = 0.890(Ac.)
 Runoff from this stream = 4.490(CFS)
 Time of concentration = 5.59 min.
 Rainfall intensity = 6.129(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
------------	-----------------	----------	----------------------------

1	11.211	8.86	4.555
2	5.348	8.52	4.671
3	4.490	5.59	6.129

Qmax(1) =
 1.000 * 1.000 * 11.211) +
 0.975 * 1.000 * 5.348) +
 0.743 * 1.000 * 4.490) + = 19.765

Qmax(2) =
 1.000 * 0.962 * 11.211) +
 1.000 * 1.000 * 5.348) +
 0.762 * 1.000 * 4.490) + = 19.555

Qmax(3) =

1.000 * 0.631 * 11.211) +
 1.000 * 0.656 * 5.348) +
 1.000 * 1.000 * 4.490) + = 15.078

Total of 3 streams to confluence:
 Flow rates before confluence point:
 11.211 5.348 4.490
 Maximum flow rates at confluence using above data:
 19.765 19.555 15.078
 Area of streams before confluence:
 3.210 1.500 0.890
 Results of confluence:
 Total flow rate = 19.765(CFS)
 Time of concentration = 8.857 min.
 Effective stream area after confluence = 5.600(Ac.)

 Process from Point/Station 718.000 to Point/Station 719.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 568.200(Ft.)
 Downstream point/station elevation = 566.100(Ft.)
 Pipe length = 109.00(Ft.) Slope = 0.0193 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 19.765(CFS)
 Nearest computed pipe diameter = 21.00(In.)
 Calculated individual pipe flow = 19.765(CFS)
 Normal flow depth in pipe = 15.56(In.)
 Flow top width inside pipe = 18.40(In.)
 Critical Depth = 19.11(In.)
 Pipe flow velocity = 10.35(Ft/s)
 Travel time through pipe = 0.18 min.
 Time of concentration (TC) = 9.03 min.

 Process from Point/Station 718.000 to Point/Station 719.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
 In Main Stream number: 1
 Stream flow area = 5.600(Ac.)
 Runoff from this stream = 19.765(CFS)
 Time of concentration = 9.03 min.
 Rainfall intensity = 4.498(In/Hr)
 Program is now starting with Main Stream No. 2

 Process from Point/Station 361.000 to Point/Station 362.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.120
 Decimal fraction soil group D = 0.880
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.819
 Initial subarea total flow distance = 88.000(Ft.)
 Highest elevation = 619.600(Ft.)
 Lowest elevation = 615.900(Ft.)
 Elevation difference = 3.700(Ft.) Slope = 4.205 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 90.00 (Ft)
 for the top area slope value of 4.20 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 2.98 minutes
 TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))

TC = $[1.8 * (1.1 - 0.8188) * (90.000^{.5}) / (4.200^{(1/3)})] = 2.98$
Calculated TC of 2.976 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.378(CFS)
Total initial stream area = 0.070(Ac.)

Process from Point/Station 362.000 to Point/Station 363.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 2.976 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Time of concentration = 2.98 min.
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.767 CA = 0.437
Subarea runoff = 2.503(CFS) for 0.500(Ac.)
Total runoff = 2.881(CFS) Total area = 0.570(Ac.)

Process from Point/Station 363.000 to Point/Station 364.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 579.200(Ft.)
End of street segment elevation = 573.200(Ft.)
Length of street segment = 404.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 38.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 7.732(CFS)
Depth of flow = 0.380(Ft.), Average velocity = 3.490(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 16.812(Ft.)
Flow velocity = 3.49(Ft/s)
Travel time = 1.93 min. TC = 4.91 min.
Adding area flow to street
Calculated TC of 4.906 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.762 CA = 1.897
Subarea runoff = 9.612(CFS) for 1.920(Ac.)
Total runoff = 12.492(CFS) Total area = 2.490(Ac.)
Street flow at end of street = 12.492(CFS)
Half street flow at end of street = 12.492(CFS)
Depth of flow = 0.432(Ft.), Average velocity = 3.931(Ft/s)
Flow width (from curb towards crown) = 20.271(Ft.)

Process from Point/Station 364.000 to Point/Station 720.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 570.200(Ft.)
Downstream point/station elevation = 568.200(Ft.)
Pipe length = 67.00(Ft.) Slope = 0.0299 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 12.492(CFS)
Nearest computed pipe diameter = 18.00(In.)
Calculated individual pipe flow = 12.492(CFS)
Normal flow depth in pipe = 10.97(In.)
Flow top width inside pipe = 17.56(In.)
Critical Depth = 15.99(In.)
Pipe flow velocity = 11.07(Ft/s)
Travel time through pipe = 0.10 min.
Time of concentration (TC) = 5.01 min.

Process from Point/Station 364.000 to Point/Station 720.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 2 in normal stream number 1
Stream flow area = 2.490(Ac.)
Runoff from this stream = 12.492(CFS)
Time of concentration = 5.01 min.
Rainfall intensity = 6.581(In/Hr)

Process from Point/Station 371.000 to Point/Station 372.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 65.000(Ft.)
Highest elevation = 581.300(Ft.)
Lowest elevation = 580.400(Ft.)
Elevation difference = 0.900(Ft.) Slope = 1.385 %
Top of Initial Area Slope adjusted by User to 1.330 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 60.00 (Ft)
for the top area slope value of 1.33 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.57 minutes
TC = $[1.8 * (1.1 - C) * \text{distance}(\text{Ft.})^{.5}] / (\% \text{ slope}^{(1/3)})$
TC = $[1.8 * (1.1 - 0.8188) * (60.000^{.5})] / (1.330^{(1/3)}) = 3.57$
Calculated TC of 3.565 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.378(CFS)
Total initial stream area = 0.070(Ac.)

Process from Point/Station 372.000 to Point/Station 373.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 580.400(Ft.)
End of street segment elevation = 573.200(Ft.)
Length of street segment = 506.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 38.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street

Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 1.217(CFS)
 Depth of flow = 0.244(Ft.), Average velocity = 2.205(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 7.800(Ft.)
 Flow velocity = 2.21(Ft/s)
 Travel time = 3.82 min. TC = 7.39 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.120(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 5.120(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.768 CA = 0.415
 Subarea runoff = 1.745(CFS) for 0.470(Ac.)
 Total runoff = 2.122(CFS) Total area = 0.540(Ac.)
 Street flow at end of street = 2.122(CFS)
 Half street flow at end of street = 2.122(CFS)
 Depth of flow = 0.278(Ft.), Average velocity = 2.508(Ft/s)
 Flow width (from curb towards crown)= 10.005(Ft.)

++++++
 Process from Point/Station 373.000 to Point/Station 720.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 570.200(Ft.)
 Downstream point/station elevation = 568.200(Ft.)
 Pipe length = 6.00(Ft.) Slope = 0.3333 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 2.122(CFS)
 Nearest computed pipe diameter = 6.00(In.)
 Calculated individual pipe flow = 2.122(CFS)
 Normal flow depth in pipe = 3.54(In.)
 Flow top width inside pipe = 5.90(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 17.60(Ft/s)
 Travel time through pipe = 0.01 min.
 Time of concentration (TC) = 7.39 min.

++++++
 Process from Point/Station 372.000 to Point/Station 720.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 2 in normal stream number 2
 Stream flow area = 0.540(Ac.)
 Runoff from this stream = 2.122(CFS)
 Time of concentration = 7.39 min.
 Rainfall intensity = 5.117(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	12.492	5.01	6.581
2	2.122	7.39	5.117
Qmax(1) =			
	1.000 *	1.000 *	12.492) +
	1.000 *	0.677 *	2.122) + = 13.929
Qmax(2) =			
	0.778 *	1.000 *	12.492) +
	1.000 *	1.000 *	2.122) + = 11.836

Total of 2 streams to confluence:
 Flow rates before confluence point:

12.492 2.122
 Maximum flow rates at confluence using above data:
 13.929 11.836
 Area of streams before confluence:
 2.490 0.540
 Results of confluence:
 Total flow rate = 13.929(CFS)
 Time of concentration = 5.006 min.
 Effective stream area after confluence = 3.030(Ac.)

+-----+
 Process from Point/Station 720.000 to Point/Station 719.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 568.200(Ft.)
 Downstream point/station elevation = 566.100(Ft.)
 Pipe length = 109.00(Ft.) Slope = 0.0193 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 13.929(CFS)
 Nearest computed pipe diameter = 18.00(In.)
 Calculated individual pipe flow = 13.929(CFS)
 Normal flow depth in pipe = 14.09(In.)
 Flow top width inside pipe = 14.85(In.)
 Critical Depth = 16.55(In.)
 Pipe flow velocity = 9.39(Ft/s)
 Travel time through pipe = 0.19 min.
 Time of concentration (TC) = 5.20 min.

+-----+
 Process from Point/Station 720.000 to Point/Station 719.000
 **** CONFLUENCE OF MAIN STREAMS ****

 The following data inside Main Stream is listed:

In Main Stream number: 2
 Stream flow area = 3.030(Ac.)
 Runoff from this stream = 13.929(CFS)
 Time of concentration = 5.20 min.
 Rainfall intensity = 6.422(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	19.765	9.03	4.498
2	13.929	5.20	6.422
Qmax(1) =			
	1.000 *	1.000 *	19.765) +
	0.700 *	1.000 *	13.929) + = 29.520
Qmax(2) =			
	1.000 *	0.576 *	19.765) +
	1.000 *	1.000 *	13.929) + = 25.307

Total of 2 main streams to confluence:
 Flow rates before confluence point:
 19.765 13.929
 Maximum flow rates at confluence using above data:
 29.520 25.307
 Area of streams before confluence:
 5.600 3.030

Results of confluence:
 Total flow rate = 29.520(CFS)
 Time of concentration = 9.033 min.
 Effective stream area after confluence = 8.630(Ac.)

+-----+
 Process from Point/Station 719.000 to Point/Station 721.000

**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 566.100(Ft.)
Downstream point/station elevation = 560.100(Ft.)
Pipe length = 367.00(Ft.) Slope = 0.0163 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 29.520(CFS)
Nearest computed pipe diameter = 27.00(In.)
Calculated individual pipe flow = 29.520(CFS)
Normal flow depth in pipe = 17.37(In.)
Flow top width inside pipe = 25.87(In.)
Critical Depth = 22.59(In.)
Pipe flow velocity = 10.92(Ft/s)
Travel time through pipe = 0.56 min.
Time of concentration (TC) = 9.59 min.

Process from Point/Station 719.000 to Point/Station 721.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 8.630(Ac.)
Runoff from this stream = 29.520(CFS)
Time of concentration = 9.59 min.
Rainfall intensity = 4.327(In/Hr)

Process from Point/Station 381.000 to Point/Station 382.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 571.000(Ft.)
Lowest elevation = 569.500(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.48 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (\% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8188) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.48$
Calculated TC of 3.479 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.647(CFS)
Total initial stream area = 0.120(Ac.)

Process from Point/Station 382.000 to Point/Station 383.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 569.500(Ft.)
End of street segment elevation = 565.900(Ft.)
Length of street segment = 168.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 61.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015

Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 1.401(CFS)
 Depth of flow = 0.241(Ft.), Average velocity = 2.668(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 7.568(Ft.)
 Flow velocity = 2.67(Ft/s)
 Travel time = 1.05 min. TC = 4.53 min.
 Adding area flow to street
 Calculated TC of 4.529 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.777 CA = 0.319
 Subarea runoff = 1.452(CFS) for 0.290(Ac.)
 Total runoff = 2.099(CFS) Total area = 0.410(Ac.)
 Street flow at end of street = 2.099(CFS)
 Half street flow at end of street = 2.099(CFS)
 Depth of flow = 0.264(Ft.), Average velocity = 2.925(Ft/s)
 Flow width (from curb towards crown)= 9.106(Ft.)

 Process from Point/Station 383.000 to Point/Station 721.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 565.900(Ft.)
 Downstream point/station elevation = 560.100(Ft.)
 Pipe length = 149.00(Ft.) Slope = 0.0389 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 2.099(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 2.099(CFS)
 Normal flow depth in pipe = 5.25(In.)
 Flow top width inside pipe = 8.87(In.)
 Critical Depth = 7.85(In.)
 Pipe flow velocity = 7.85(Ft/s)
 Travel time through pipe = 0.32 min.
 Time of concentration (TC) = 4.85 min.

 Process from Point/Station 383.000 to Point/Station 721.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 0.410(Ac.)
 Runoff from this stream = 2.099(CFS)
 Time of concentration = 4.85 min.
 Rainfall intensity = 6.587(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	29.520	9.59	4.327
2	2.099	4.85	6.587
Qmax(1) =			
	1.000 *	1.000 *	29.520) +
	0.657 *	1.000 *	2.099) + = 30.898
Qmax(2) =			
	1.000 *	0.505 *	29.520) +
	1.000 *	1.000 *	2.099) + = 17.009

Subarea runoff = 0.162(CFS)
Total initial stream area = 0.030(Ac.)

Process from Point/Station 392.000 to Point/Station 393.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 577.700(Ft.)
End of street segment elevation = 560.100(Ft.)
Length of street segment = 793.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 38.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 4.281(CFS)
Depth of flow = 0.311(Ft.), Average velocity = 3.513(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 12.236(Ft.)
Flow velocity = 3.51(Ft/s)
Travel time = 3.76 min. TC = 6.75 min.
Adding area flow to street
Rainfall intensity (I) = 5.426(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Rainfall intensity = 5.426(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.761 CA = 1.560
Subarea runoff = 8.302(CFS) for 2.020(Ac.)
Total runoff = 8.464(CFS) Total area = 2.050(Ac.)
Street flow at end of street = 8.464(CFS)
Half street flow at end of street = 8.464(CFS)
Depth of flow = 0.369(Ft.), Average velocity = 4.151(Ft/s)
Flow width (from curb towards crown)= 16.096(Ft.)

Process from Point/Station 393.000 to Point/Station 722.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 557.100(Ft.)
Downstream point/station elevation = 555.700(Ft.)
Pipe length = 66.00(Ft.) Slope = 0.0212 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 8.464(CFS)
Nearest computed pipe diameter = 15.00(In.)
Calculated individual pipe flow = 8.464(CFS)
Normal flow depth in pipe = 11.12(In.)
Flow top width inside pipe = 13.14(In.)
Critical Depth = 13.63(In.)
Pipe flow velocity = 8.68(Ft/s)
Travel time through pipe = 0.13 min.
Time of concentration (TC) = 6.88 min.

Process from Point/Station 393.000 to Point/Station 722.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 2.050(Ac.)
Runoff from this stream = 8.464(CFS)
Time of concentration = 6.88 min.
Rainfall intensity = 5.362(In/Hr)

Process from Point/Station 401.000 to Point/Station 402.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 70.000(Ft.)
Highest elevation = 572.000(Ft.)
Lowest elevation = 570.800(Ft.)
Elevation difference = 1.200(Ft.) Slope = 1.714 %
Top of Initial Area Slope adjusted by User to 1.670 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 1.67 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.69 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8188)*(75.000^0.5)/(1.670^(1/3))]= 3.69
Calculated TC of 3.695 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.324(CFS)
Total initial stream area = 0.060(Ac.)

Process from Point/Station 402.000 to Point/Station 403.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 570.800(Ft.)
End of street segment elevation = 560.700(Ft.)
Length of street segment = 569.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 38.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 1.377(CFS)
Depth of flow = 0.245(Ft.), Average velocity = 2.470(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 7.847(Ft.)
Flow velocity = 2.47(Ft/s)
Travel time = 3.84 min. TC = 7.53 min.
Adding area flow to street
Rainfall intensity (I) = 5.057(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Rainfall intensity = 5.057(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.765 CA = 0.498
Subarea runoff = 2.192(CFS) for 0.590(Ac.)
Total runoff = 2.516(CFS) Total area = 0.650(Ac.)
Street flow at end of street = 2.516(CFS)
Half street flow at end of street = 2.516(CFS)

Depth of flow = 0.281(Ft.), Average velocity = 2.841(Ft/s)
 Flow width (from curb towards crown)= 10.263(Ft.)

 Process from Point/Station 403.000 to Point/Station 722.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 557.700(Ft.)
 Downstream point/station elevation = 555.700(Ft.)
 Pipe length = 6.00(Ft.) Slope = 0.3333 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 2.516(CFS)
 Nearest computed pipe diameter = 6.00(In.)
 Calculated individual pipe flow = 2.516(CFS)
 Normal flow depth in pipe = 3.97(In.)
 Flow top width inside pipe = 5.68(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 18.23(Ft/s)
 Travel time through pipe = 0.01 min.
 Time of concentration (TC) = 7.54 min.

 Process from Point/Station 403.000 to Point/Station 722.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 3
 Stream flow area = 0.650(Ac.)
 Runoff from this stream = 2.516(CFS)
 Time of concentration = 7.54 min.
 Rainfall intensity = 5.054(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	30.898	9.98	4.219
2	8.464	6.88	5.362
3	2.516	7.54	5.054

Qmax(1) =
 1.000 * 1.000 * 30.898) +
 0.787 * 1.000 * 8.464) +
 0.835 * 1.000 * 2.516) + = 39.658

Qmax(2) =
 1.000 * 0.690 * 30.898) +
 1.000 * 1.000 * 8.464) +
 1.000 * 0.913 * 2.516) + = 32.066

Qmax(3) =
 1.000 * 0.756 * 30.898) +
 0.943 * 1.000 * 8.464) +
 1.000 * 1.000 * 2.516) + = 33.843

Total of 3 streams to confluence:
 Flow rates before confluence point:
 30.898 8.464 2.516
 Maximum flow rates at confluence using above data:
 39.658 32.066 33.843
 Area of streams before confluence:
 9.040 2.050 0.650

Results of confluence:
 Total flow rate = 39.658(CFS)
 Time of concentration = 9.977 min.
 Effective stream area after confluence = 11.740(Ac.)

 Process from Point/Station 722.000 to Point/Station 723.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 555.700(Ft.)

Downstream point/station elevation = 545.800(Ft.)
Pipe length = 0.63(Ft.) Slope = 15.7143 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 39.658(CFS)
Nearest computed pipe diameter = 9.00(In.)
Calculated individual pipe flow = 39.658(CFS)
Normal flow depth in pipe = 5.05(In.)
Flow top width inside pipe = 8.93(In.)
Critical depth could not be calculated.
Pipe flow velocity = 155.46(Ft/s)
Travel time through pipe = 0.00 min.
Time of concentration (TC) = 9.98 min.

Process from Point/Station 722.000 to Point/Station 723.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 11.740(Ac.)
Runoff from this stream = 39.658(CFS)
Time of concentration = 9.98 min.
Rainfall intensity = 4.219(In/Hr)

Process from Point/Station 421.000 to Point/Station 422.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 70.000(Ft.)
Highest elevation = 562.800(Ft.)
Lowest elevation = 561.600(Ft.)
Elevation difference = 1.200(Ft.) Slope = 1.714 %
Top of Initial Area Slope adjusted by User to 1.667 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 1.67 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.70 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^{.5}/(% slope^(1/3))]
TC = [1.8*(1.1-0.8188)*(75.000^{.5})/(1.667^(1/3))] = 3.70
Calculated TC of 3.697 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.108(CFS)
Total initial stream area = 0.020(Ac.)

Process from Point/Station 422.000 to Point/Station 423.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 561.600(Ft.)
End of street segment elevation = 551.000(Ft.)
Length of street segment = 617.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 38.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)

Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 1.187(CFS)
 Depth of flow = 0.238(Ft.), Average velocity = 2.360(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 7.370(Ft.)
 Flow velocity = 2.36(Ft/s)
 Travel time = 4.36 min. TC = 8.05 min.
 Adding area flow to street
 Rainfall intensity (I) = 4.843(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 4.843(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.762 CA = 0.488
 Subarea runoff = 2.254(CFS) for 0.620(Ac.)
 Total runoff = 2.361(CFS) Total area = 0.640(Ac.)
 Street flow at end of street = 2.361(CFS)
 Half street flow at end of street = 2.361(CFS)
 Depth of flow = 0.278(Ft.), Average velocity = 2.764(Ft/s)
 Flow width (from curb towards crown) = 10.059(Ft.)

+-----+
 Process from Point/Station 423.000 to Point/Station 723.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 548.000(Ft.)
 Downstream point/station elevation = 545.800(Ft.)
 Pipe length = 19.00(Ft.) Slope = 0.1158 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 2.361(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 2.361(CFS)
 Normal flow depth in pipe = 4.07(In.)
 Flow top width inside pipe = 8.96(In.)
 Critical Depth = 8.18(In.)
 Pipe flow velocity = 12.18(Ft/s)
 Travel time through pipe = 0.03 min.
 Time of concentration (TC) = 8.08 min.

+-----+
 Process from Point/Station 423.000 to Point/Station 723.000
 **** CONFLUENCE OF MINOR STREAMS ****

 Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 0.640(Ac.)
 Runoff from this stream = 2.361(CFS)
 Time of concentration = 8.08 min.
 Rainfall intensity = 4.833(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	39.658	9.98	4.219
2	2.361	8.08	4.833
Qmax(1) =			
	1.000 *	1.000 *	39.658) +
	0.873 *	1.000 *	2.361) + = 41.719
Qmax(2) =			
	1.000 *	0.810 *	39.658) +
	1.000 *	1.000 *	2.361) + = 34.481

Total of 2 streams to confluence:
 Flow rates before confluence point:
 39.658 2.361

Maximum flow rates at confluence using above data:
41.719 34.481
Area of streams before confluence:
11.740 0.640
Results of confluence:
Total flow rate = 41.719 (CFS)
Time of concentration = 9.977 min.
Effective stream area after confluence = 12.380 (Ac.)

Process from Point/Station 723.000 to Point/Station 724.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 545.800 (Ft.)
Downstream point/station elevation = 540.000 (Ft.)
Pipe length = 114.00 (Ft.) Slope = 0.0509 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 41.719 (CFS)
Nearest computed pipe diameter = 24.00 (In.)
Calculated individual pipe flow = 41.719 (CFS)
Normal flow depth in pipe = 16.50 (In.)
Flow top width inside pipe = 22.25 (In.)
Critical depth could not be calculated.
Pipe flow velocity = 18.11 (Ft/s)
Travel time through pipe = 0.10 min.
Time of concentration (TC) = 10.08 min.

Process from Point/Station 723.000 to Point/Station 724.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area = 12.380 (Ac.)
Runoff from this stream = 41.719 (CFS)
Time of concentration = 10.08 min.
Rainfall intensity = 4.190 (In/Hr)
Program is now starting with Main Stream No. 2

Process from Point/Station 321.000 to Point/Station 322.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 83.000 (Ft.)
Highest elevation = 562.300 (Ft.)
Lowest elevation = 560.000 (Ft.)
Elevation difference = 2.300 (Ft.) Slope = 2.771 %
Top of Initial Area Slope adjusted by User to 2.800 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 85.00 (Ft)
for the top area slope value of 2.80 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.31 minutes
TC = [1.8*(1.1-C)*distance (Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8188)*(85.000^0.5)/(2.800^(1/3))]= 3.31
Calculated TC of 3.311 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.324 (CFS)

Total initial stream area = 0.060(Ac.)

Process from Point/Station 322.000 to Point/Station 323.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 560.000(Ft.)
End of street segment elevation = 557.400(Ft.)
Length of street segment = 497.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 6.571(CFS)
Depth of flow = 0.418(Ft.), Average velocity = 2.264(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 19.343(Ft.)
Flow velocity = 2.26(Ft/s)
Travel time = 3.66 min. TC = 6.97 min.
Adding area flow to street
Rainfall intensity (I) = 5.317(In/Hr) for a 100.0 year storm
User specified 'C' value of 0.760 given for subarea
Rainfall intensity = 5.317(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.761 CA = 2.428
Subarea runoff = 12.586(CFS) for 3.130(Ac.)
Total runoff = 12.909(CFS) Total area = 3.190(Ac.)
Street flow at end of street = 12.909(CFS)
Half street flow at end of street = 12.909(CFS)
Depth of flow = 0.504(Ft.), Average velocity = 2.680(Ft/s)
Warning: depth of flow exceeds top of curb
Flow width (from curb towards crown)= 25.089(Ft.)

Process from Point/Station 323.000 to Point/Station 724.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area = 3.190(Ac.)
Runoff from this stream = 12.909(CFS)
Time of concentration = 6.97 min.
Rainfall intensity = 5.317(In/Hr)
Program is now starting with Main Stream No. 3

Process from Point/Station 411.000 to Point/Station 412.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 564.100(Ft.)

Lowest elevation = 562.600(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.48 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}/(\% slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8188)*(75.000^{.5})/(2.000^{(1/3)})] = 3.48$
 Calculated TC of 3.479 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
 Subarea runoff = 0.755(CFS)
 Total initial stream area = 0.140(Ac.)

++++++
 Process from Point/Station 412.000 to Point/Station 413.000
 **** SUBAREA FLOW ADDITION ****

Calculated TC of 3.479 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Time of concentration = 3.48 min.
 Rainfall intensity = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.769 CA = 0.738
 Subarea runoff = 4.105(CFS) for 0.820(Ac.)
 Total runoff = 4.860(CFS) Total area = 0.960(Ac.)

++++++
 Process from Point/Station 413.000 to Point/Station 414.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 558.900(Ft.)
 End of street segment elevation = 550.700(Ft.)
 Length of street segment = 472.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 7.184(CFS)
 Depth of flow = 0.365(Ft.), Average velocity = 3.635(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 15.834(Ft.)
 Flow velocity = 3.64(Ft/s)
 Travel time = 2.16 min. TC = 5.64 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.092(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 6.092(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.764 CA = 1.551
 Subarea runoff = 4.589(CFS) for 1.070(Ac.)
 Total runoff = 9.449(CFS) Total area = 2.030(Ac.)
 Street flow at end of street = 9.449(CFS)
 Half street flow at end of street = 9.449(CFS)
 Depth of flow = 0.392(Ft.), Average velocity = 3.891(Ft/s)

Flow width (from curb towards crown)= 17.638(Ft.)

Process from Point/Station 414.000 to Point/Station 724.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 547.700(Ft.)
Downstream point/station elevation = 540.000(Ft.)
Pipe length = 19.00(Ft.) Slope = 0.4053 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 9.449(CFS)
Nearest computed pipe diameter = 9.00(In.)
Calculated individual pipe flow = 9.449(CFS)
Normal flow depth in pipe = 6.66(In.)
Flow top width inside pipe = 7.90(In.)
Critical depth could not be calculated.
Pipe flow velocity = 26.97(Ft/s)
Travel time through pipe = 0.01 min.
Time of concentration (TC) = 5.65 min.

Process from Point/Station 414.000 to Point/Station 724.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 3
Stream flow area = 2.030(Ac.)
Runoff from this stream = 9.449(CFS)
Time of concentration = 5.65 min.
Rainfall intensity = 6.084(In/Hr)
Program is now starting with Main Stream No. 4

Process from Point/Station 311.000 to Point/Station 312.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.120
Decimal fraction soil group D = 0.880
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.819
Initial subarea total flow distance = 68.000(Ft.)
Highest elevation = 553.600(Ft.)
Lowest elevation = 552.600(Ft.)
Elevation difference = 1.000(Ft.) Slope = 1.471 %
Top of Initial Area Slope adjusted by User to 1.533 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 1.53 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.80 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8188)*(75.000^0.5)]/(1.533^(1/3))= 3.80
Calculated TC of 3.802 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
Subarea runoff = 0.216(CFS)
Total initial stream area = 0.040(Ac.)

Process from Point/Station 312.000 to Point/Station 313.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 552.600(Ft.)
 End of street segment elevation = 545.500(Ft.)
 Length of street segment = 736.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 57.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 1.996(CFS)
 Depth of flow = 0.286(Ft.), Average velocity = 2.131(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 10.589(Ft.)
 Flow velocity = 2.13(Ft/s)
 Travel time = 5.76 min. TC = 9.56 min.
 Adding area flow to street
 Rainfall intensity (I) = 4.337(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 4.337(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.762 CA = 0.892
 Subarea runoff = 3.651(CFS) for 1.130(Ac.)
 Total runoff = 3.866(CFS) Total area = 1.170(Ac.)
 Street flow at end of street = 3.866(CFS)
 Half street flow at end of street = 3.866(CFS)
 Depth of flow = 0.336(Ft.), Average velocity = 2.501(Ft/s)
 Flow width (from curb towards crown)= 13.907(Ft.)

++++++
 Process from Point/Station 313.000 to Point/Station 724.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 542.500(Ft.)
 Downstream point/station elevation = 540.000(Ft.)
 Pipe length = 19.00(Ft.) Slope = 0.1316 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 3.866(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 3.866(CFS)
 Normal flow depth in pipe = 5.26(In.)
 Flow top width inside pipe = 8.87(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 14.43(Ft/s)
 Travel time through pipe = 0.02 min.
 Time of concentration (TC) = 9.58 min.

++++++
 Process from Point/Station 313.000 to Point/Station 724.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
 In Main Stream number: 4
 Stream flow area = 1.170(Ac.)
 Runoff from this stream = 3.866(CFS)
 Time of concentration = 9.58 min.
 Rainfall intensity = 4.330(In/Hr)
 Program is now starting with Main Stream No. 5

++++++
 Process from Point/Station 281.000 to Point/Station 282.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.120
 Decimal fraction soil group D = 0.880
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.819
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 563.600(Ft.)
 Lowest elevation = 562.100(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.48 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}]/(%\ slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8188)*(75.000^{.5})/(2.000^{(1/3)})] = 3.48$
 Calculated TC of 3.479 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.819
 Subarea runoff = 0.917(CFS)
 Total initial stream area = 0.170(Ac.)

++++++
 Process from Point/Station 282.000 to Point/Station 283.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 562.100(Ft.)
 End of street segment elevation = 555.100(Ft.)
 Length of street segment = 510.000(Ft.)
 Height of curb above gutter flowline = 6.0(In.)
 Width of half street (curb to crown) = 128.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 3.534(CFS)
 Depth of flow = 0.315(Ft.), Average velocity = 2.795(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 12.483(Ft.)
 Flow velocity = 2.80(Ft/s)
 Travel time = 3.04 min. TC = 6.52 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.550(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.760 given for subarea
 Rainfall intensity = 5.550(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.767 CA = 1.097
 Subarea runoff = 5.171(CFS) for 1.260(Ac.)
 Total runoff = 6.088(CFS) Total area = 1.430(Ac.)
 Street flow at end of street = 6.088(CFS)
 Half street flow at end of street = 6.088(CFS)
 Depth of flow = 0.361(Ft.), Average velocity = 3.194(Ft/s)
 Flow width (from curb towards crown)= 15.538(Ft.)

++++++
 Process from Point/Station 283.000 to Point/Station 724.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 552.100(Ft.)
 Downstream point/station elevation = 540.000(Ft.)
 Pipe length = 458.00(Ft.) Slope = 0.0264 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 6.088(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 6.088(CFS)
 Normal flow depth in pipe = 8.20(In.)
 Flow top width inside pipe = 14.93(In.)
 Critical Depth = 11.96(In.)
 Pipe flow velocity = 8.87(Ft/s)
 Travel time through pipe = 0.86 min.
 Time of concentration (TC) = 7.38 min.

++++++
 Process from Point/Station 283.000 to Point/Station 724.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 5
 Stream flow area = 1.430(Ac.)
 Runoff from this stream = 6.088(CFS)
 Time of concentration = 7.38 min.
 Rainfall intensity = 5.124(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	41.719	10.08	4.190
2	12.909	6.97	5.317
3	9.449	5.65	6.084
4	3.866	9.58	4.330
5	6.088	7.38	5.124
Qmax(1) =			
	1.000 *	1.000 *	41.719) +
	0.788 *	1.000 *	12.909) +
	0.689 *	1.000 *	9.449) +
	0.968 *	1.000 *	3.866) +
	0.818 *	1.000 *	6.088) + =
			67.120
Qmax(2) =			
	1.000 *	0.691 *	41.719) +
	1.000 *	1.000 *	12.909) +
	0.874 *	1.000 *	9.449) +
	1.000 *	0.727 *	3.866) +
	1.000 *	0.944 *	6.088) + =
			58.567
Qmax(3) =			
	1.000 *	0.561 *	41.719) +
	1.000 *	0.811 *	12.909) +
	1.000 *	1.000 *	9.449) +
	1.000 *	0.590 *	3.866) +
	1.000 *	0.766 *	6.088) + =
			50.271
Qmax(4) =			
	1.000 *	0.950 *	41.719) +
	0.814 *	1.000 *	12.909) +
	0.712 *	1.000 *	9.449) +
	1.000 *	1.000 *	3.866) +
	0.845 *	1.000 *	6.088) + =
			65.895
Qmax(5) =			
	1.000 *	0.732 *	41.719) +
	0.964 *	1.000 *	12.909) +
	0.842 *	1.000 *	9.449) +
	1.000 *	0.770 *	3.866) +
	1.000 *	1.000 *	6.088) + =
			60.005

Total of 5 main streams to confluence:

Flow rates before confluence point:
 41.719 12.909 9.449 3.866 6.088

Maximum flow rates at confluence using above data:

	67.120	58.567	50.271	65.895	60.005
Area of streams before confluence:					
	12.380	3.190	2.030	1.170	1.430

Results of confluence:
 Total flow rate = 67.120 (CFS)
 Time of concentration = 10.082 min.
 Effective stream area after confluence = 20.200 (Ac.)

 Process from Point/Station 724.000 to Point/Station 724.000
 **** 6 HOUR HYDROGRAPH ****

 Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 10.08
 Basin Area = 20.20 Acres
 6 Hour Rainfall = 2.500 Inches
 Runoff Coefficient = 0.763
 Peak Discharge = 67.12 CFS

Time (Min)	Discharge (CFS)
0	0.000
10	2.306
20	2.349
30	2.441
40	2.491
50	2.598
60	2.657
70	2.784
80	2.854
90	3.009
100	3.094
110	3.286
120	3.394
130	3.639
140	3.780
150	4.109
160	4.303
170	4.772
180	5.060
190	5.801
200	6.289
210	7.688
220	8.756
230	12.857
240	18.115
250	67.120
260	10.312
270	6.899
280	5.398
290	4.522
300	3.935
310	3.511
320	3.186
330	2.929
340	2.719
350	2.543
360	2.394
370	2.265

 6 - H O U R S T O R M
 R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals ((CFS))

 Time(h+m) Volume Ac.Ft Q(CFS) 0 16.8 33.6 50.3 67.1

0+ 0	0.0000	0.00	Q				
0+ 1	0.0003	0.23	Q				
0+ 2	0.0010	0.46	Q				
0+ 3	0.0019	0.69	Q				
0+ 4	0.0032	0.92	Q				
0+ 5	0.0048	1.15	Q				
0+ 6	0.0067	1.38	Q				
0+ 7	0.0089	1.61	Q				
0+ 8	0.0114	1.84	VQ				
0+ 9	0.0143	2.08	VQ				
0+10	0.0175	2.31	VQ				
0+11	0.0206	2.31	VQ				
0+12	0.0238	2.31	VQ				
0+13	0.0270	2.32	VQ				
0+14	0.0302	2.32	VQ				
0+15	0.0334	2.33	VQ				
0+16	0.0366	2.33	VQ				
0+17	0.0399	2.34	VQ				
0+18	0.0431	2.34	VQ				
0+19	0.0463	2.34	VQ				
0+20	0.0496	2.35	VQ				
0+21	0.0528	2.36	VQ				
0+22	0.0561	2.37	VQ				
0+23	0.0593	2.38	VQ				
0+24	0.0626	2.39	VQ				
0+25	0.0659	2.39	VQ				
0+26	0.0692	2.40	VQ				
0+27	0.0726	2.41	VQ				
0+28	0.0759	2.42	VQ				
0+29	0.0792	2.43	VQ				
0+30	0.0826	2.44	IQ				
0+31	0.0860	2.45	IQ				
0+32	0.0893	2.45	IQ				
0+33	0.0927	2.46	IQ				
0+34	0.0961	2.46	IQ				
0+35	0.0995	2.47	IQ				
0+36	0.1029	2.47	IQ				
0+37	0.1063	2.48	IQ				
0+38	0.1097	2.48	IQ				
0+39	0.1132	2.49	IQ				
0+40	0.1166	2.49	IQ				
0+41	0.1200	2.50	IQ				
0+42	0.1235	2.51	IQ				
0+43	0.1270	2.52	IQ				
0+44	0.1305	2.53	IQ				
0+45	0.1340	2.54	IQ				
0+46	0.1375	2.56	IQ				
0+47	0.1410	2.57	IQ				
0+48	0.1446	2.58	IQ				
0+49	0.1481	2.59	IQ				
0+50	0.1517	2.60	IQ				
0+51	0.1553	2.60	IQ				
0+52	0.1589	2.61	IQ				
0+53	0.1625	2.62	IQV				
0+54	0.1661	2.62	IQV				
0+55	0.1697	2.63	IQV				
0+56	0.1734	2.63	IQV				
0+57	0.1770	2.64	IQV				
0+58	0.1806	2.64	IQV				
0+59	0.1843	2.65	IQV				
1+ 0	0.1879	2.66	IQV				
1+ 1	0.1916	2.67	IQV				
1+ 2	0.1953	2.68	IQV				
1+ 3	0.1990	2.69	IQV				
1+ 4	0.2028	2.71	IQV				
1+ 5	0.2065	2.72	IQV				
1+ 6	0.2103	2.73	IQV				
1+ 7	0.2141	2.75	IQV				
1+ 8	0.2179	2.76	IQV				
1+ 9	0.2217	2.77	IQV				

1+10	0.2255	2.78	QV				
1+11	0.2294	2.79	QV				
1+12	0.2332	2.80	QV				
1+13	0.2371	2.81	QV				
1+14	0.2409	2.81	QV				
1+15	0.2448	2.82	Q V				
1+16	0.2487	2.83	Q V				
1+17	0.2526	2.83	Q V				
1+18	0.2565	2.84	Q V				
1+19	0.2605	2.85	Q V				
1+20	0.2644	2.85	Q V				
1+21	0.2683	2.87	Q V				
1+22	0.2723	2.89	Q V				
1+23	0.2763	2.90	Q V				
1+24	0.2803	2.92	Q V				
1+25	0.2844	2.93	Q V				
1+26	0.2884	2.95	Q V				
1+27	0.2925	2.96	Q V				
1+28	0.2966	2.98	Q V				
1+29	0.3007	2.99	Q V				
1+30	0.3049	3.01	Q V				
1+31	0.3090	3.02	Q V				
1+32	0.3132	3.03	Q V				
1+33	0.3174	3.03	Q V				
1+34	0.3216	3.04	Q V				
1+35	0.3258	3.05	Q V				
1+36	0.3300	3.06	Q V				
1+37	0.3342	3.07	Q V				
1+38	0.3385	3.08	Q V				
1+39	0.3427	3.09	Q V				
1+40	0.3470	3.09	Q V				
1+41	0.3513	3.11	Q V				
1+42	0.3556	3.13	Q V				
1+43	0.3599	3.15	Q V				
1+44	0.3643	3.17	Q V				
1+45	0.3687	3.19	Q V				
1+46	0.3731	3.21	Q V				
1+47	0.3775	3.23	Q V				
1+48	0.3820	3.25	Q V				
1+49	0.3865	3.27	Q V				
1+50	0.3910	3.29	Q V				
1+51	0.3956	3.30	Q V				
1+52	0.4001	3.31	Q V				
1+53	0.4047	3.32	Q V				
1+54	0.4093	3.33	Q V				
1+55	0.4139	3.34	Q V				
1+56	0.4185	3.35	Q V				
1+57	0.4231	3.36	Q V				
1+58	0.4278	3.37	Q V				
1+59	0.4324	3.38	Q V				
2+ 0	0.4371	3.39	Q V				
2+ 1	0.4418	3.42	Q V				
2+ 2	0.4466	3.44	Q V				
2+ 3	0.4513	3.47	Q V				
2+ 4	0.4561	3.49	Q V				
2+ 5	0.4610	3.52	Q V				
2+ 6	0.4659	3.54	Q V				
2+ 7	0.4708	3.57	Q V				
2+ 8	0.4757	3.59	Q V				
2+ 9	0.4807	3.61	Q V				
2+10	0.4857	3.64	Q V				
2+11	0.4907	3.65	Q V				
2+12	0.4958	3.67	Q V				
2+13	0.5009	3.68	Q V				
2+14	0.5060	3.70	Q V				
2+15	0.5111	3.71	Q V				
2+16	0.5162	3.72	Q V				
2+17	0.5213	3.74	Q V				
2+18	0.5265	3.75	Q V				
2+19	0.5317	3.77	Q V				
2+20	0.5369	3.78	Q V				

2+21	0.5422	3.81	Q	V					
2+22	0.5475	3.85	Q	V					
2+23	0.5528	3.88	Q	V					
2+24	0.5582	3.91	Q	V					
2+25	0.5636	3.94	Q	V					
2+26	0.5691	3.98	Q	V					
2+27	0.5746	4.01	Q	V					
2+28	0.5802	4.04	Q	V					
2+29	0.5858	4.08	Q	V					
2+30	0.5915	4.11	Q	V					
2+31	0.5971	4.13	Q	V					
2+32	0.6029	4.15	Q	V					
2+33	0.6086	4.17	Q	V					
2+34	0.6144	4.19	Q	V					
2+35	0.6202	4.21	Q	V					
2+36	0.6260	4.22	Q	V					
2+37	0.6318	4.24	Q	V					
2+38	0.6377	4.26	Q	V					
2+39	0.6436	4.28	Q	V					
2+40	0.6495	4.30	Q	V					
2+41	0.6555	4.35	Q	V					
2+42	0.6616	4.40	Q	V					
2+43	0.6677	4.44	Q	V					
2+44	0.6739	4.49	Q	V					
2+45	0.6801	4.54	Q	V					
2+46	0.6864	4.58	Q	V					
2+47	0.6928	4.63	Q	V					
2+48	0.6993	4.68	Q	V					
2+49	0.7058	4.72	Q	V					
2+50	0.7123	4.77	Q	V					
2+51	0.7190	4.80	Q	V					
2+52	0.7256	4.83	Q	V					
2+53	0.7323	4.86	Q	V					
2+54	0.7390	4.89	Q	V					
2+55	0.7458	4.92	Q	V					
2+56	0.7526	4.94	Q	V					
2+57	0.7595	4.97	Q	V					
2+58	0.7664	5.00	Q	V					
2+59	0.7733	5.03	Q	V					
3+ 0	0.7803	5.06	Q	V					
3+ 1	0.7873	5.13	Q	V					
3+ 2	0.7945	5.21	Q	V					
3+ 3	0.8018	5.28	Q	V					
3+ 4	0.8092	5.36	Q	V					
3+ 5	0.8166	5.43	Q	V					
3+ 6	0.8242	5.50	Q	V					
3+ 7	0.8319	5.58	Q	V					
3+ 8	0.8397	5.65	Q	V					
3+ 9	0.8476	5.73	Q	V					
3+10	0.8556	5.80	Q	V					
3+11	0.8636	5.85	Q	V					
3+12	0.8717	5.90	Q	V					
3+13	0.8799	5.95	Q	V					
3+14	0.8882	6.00	Q	V					
3+15	0.8965	6.05	Q	V					
3+16	0.9049	6.09	Q	V					
3+17	0.9134	6.14	Q	V					
3+18	0.9219	6.19	Q	V					
3+19	0.9305	6.24	Q	V					
3+20	0.9392	6.29	Q	V					
3+21	0.9480	6.43	Q	V					
3+22	0.9571	6.57	Q	V					
3+23	0.9663	6.71	Q	V					
3+24	0.9757	6.85	Q	V					
3+25	0.9854	6.99	Q	V					
3+26	0.9952	7.13	Q	V					
3+27	1.0052	7.27	Q	V					
3+28	1.0154	7.41	Q	V					
3+29	1.0258	7.55	Q	V					
3+30	1.0364	7.69	Q	V					
3+31	1.0471	7.79	Q	V					

4+43	2.8553	5.14	Q				V	
4+44	2.8623	5.05	Q				V	
4+45	2.8691	4.96	Q				V	
4+46	2.8758	4.87	Q				V	
4+47	2.8824	4.78	Q				V	
4+48	2.8889	4.70	Q				V	
4+49	2.8952	4.61	Q				V	
4+50	2.9015	4.52	Q				V	
4+51	2.9076	4.46	Q				V	
4+52	2.9137	4.40	Q				V	
4+53	2.9197	4.35	Q				V	
4+54	2.9256	4.29	Q				V	
4+55	2.9314	4.23	Q				V	
4+56	2.9371	4.17	Q				V	
4+57	2.9428	4.11	Q				V	
4+58	2.9484	4.05	Q				V	
4+59	2.9539	3.99	Q				V	
5+ 0	2.9593	3.94	Q				V	
5+ 1	2.9647	3.89	Q				V	
5+ 2	2.9700	3.85	Q				V	
5+ 3	2.9752	3.81	Q				V	
5+ 4	2.9804	3.77	Q				V	
5+ 5	2.9855	3.72	Q				V	
5+ 6	2.9906	3.68	Q				V	
5+ 7	2.9956	3.64	Q				V	
5+ 8	3.0006	3.60	Q				V	
5+ 9	3.0054	3.55	Q				V	
5+10	3.0103	3.51	Q				V	
5+11	3.0151	3.48	Q				V	
5+12	3.0198	3.45	Q				V	
5+13	3.0245	3.41	Q				V	
5+14	3.0292	3.38	Q				V	
5+15	3.0338	3.35	Q				V	
5+16	3.0384	3.32	Q				V	
5+17	3.0429	3.28	Q				V	
5+18	3.0474	3.25	Q				V	
5+19	3.0518	3.22	Q				V	
5+20	3.0562	3.19	Q				V	
5+21	3.0605	3.16	Q				V	
5+22	3.0649	3.13	Q				V	
5+23	3.0691	3.11	Q				V	
5+24	3.0734	3.08	Q				V	
5+25	3.0776	3.06	Q				V	
5+26	3.0818	3.03	Q				V	
5+27	3.0859	3.01	Q				V	
5+28	3.0900	2.98	Q				V	
5+29	3.0941	2.95	Q				V	
5+30	3.0981	2.93	Q				V	
5+31	3.1021	2.91	Q				V	
5+32	3.1061	2.89	Q				V	
5+33	3.1101	2.87	Q				V	
5+34	3.1140	2.84	Q				V	
5+35	3.1179	2.82	Q				V	
5+36	3.1217	2.80	Q				V	
5+37	3.1256	2.78	Q				V	
5+38	3.1294	2.76	Q				V	
5+39	3.1331	2.74	Q				V	
5+40	3.1369	2.72	Q				V	
5+41	3.1406	2.70	Q				V	
5+42	3.1443	2.68	Q				V	
5+43	3.1480	2.67	Q				V	
5+44	3.1516	2.65	Q				V	
5+45	3.1552	2.63	Q				V	
5+46	3.1588	2.61	Q				V	
5+47	3.1624	2.60	Q				V	
5+48	3.1660	2.58	Q				V	
5+49	3.1695	2.56	Q				V	
5+50	3.1730	2.54	Q				V	
5+51	3.1765	2.53	Q				V	
5+52	3.1799	2.51	Q				V	
5+53	3.1834	2.50	Q				V	

5+54	3.1868	2.48	Q				V
5+55	3.1902	2.47	Q				V
5+56	3.1936	2.45	Q				V
5+57	3.1969	2.44	Q				V
5+58	3.2003	2.42	Q				V
5+59	3.2036	2.41	Q				V
6+ 0	3.2069	2.39	Q				V
6+ 1	3.2102	2.38	Q				V
6+ 2	3.2134	2.37	Q				V
6+ 3	3.2167	2.35	Q				V
6+ 4	3.2199	2.34	Q				V
6+ 5	3.2231	2.33	Q				V
6+ 6	3.2263	2.32	Q				V
6+ 7	3.2295	2.30	Q				V
6+ 8	3.2326	2.29	Q				V
6+ 9	3.2358	2.28	Q				V
6+10	3.2389	2.26	Q				V

End of computations, total study area = 20.200 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/11/24

Majestic Otay
Otay Mesa, San diego County
Proposed Condition Underground Basin 2
100160prratundbas2

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 1.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 501.000 to Point/Station 502.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 90.000(Ft.)
Highest elevation = 630.300(Ft.)
Lowest elevation = 628.200(Ft.)
Elevation difference = 2.100(Ft.) Slope = 2.333 %
Top of Initial Area Slope adjusted by User to 5.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 90.00 (Ft)
for the top area slope value of 5.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.82 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8181)*(90.000^0.5)/(5.000^(1/3))]= 2.82
Calculated TC of 2.815 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 2.155(CFS)
Total initial stream area = 0.400(Ac.)

+++++
Process from Point/Station 502.000 to Point/Station 503.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 2.815 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 2.82 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.728 CA = 3.704
Subarea runoff = 22.242(CFS) for 4.690(Ac.)
Total runoff = 24.398(CFS) Total area = 5.090(Ac.)

Process from Point/Station 503.000 to Point/Station 504.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 612.100(Ft.)
End of street segment elevation = 581.300(Ft.)
Length of street segment = 1275.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 39.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 25.478 (CFS)
Depth of flow = 0.492(Ft.), Average velocity = 5.638(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 24.286(Ft.)
Flow velocity = 5.64(Ft/s)
Travel time = 3.77 min. TC = 6.58 min.
Adding area flow to street
Rainfall intensity (I) = 5.515(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 5.515(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.726 CA = 4.806
Subarea runoff = 2.106(CFS) for 1.530(Ac.)
Total runoff = 26.504(CFS) Total area = 6.620(Ac.)
Street flow at end of street = 26.504(CFS)
Half street flow at end of street = 26.504(CFS)
Depth of flow = 0.497(Ft.), Average velocity = 5.693(Ft/s)
Flow width (from curb towards crown)= 24.656(Ft.)

Process from Point/Station 504.000 to Point/Station 728.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 581.300(Ft.)
Downstream point/station elevation = 577.900(Ft.)
Pipe length = 81.00(Ft.) Slope = 0.0420 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 26.504(CFS)
Nearest computed pipe diameter = 21.00(In.)
Calculated individual pipe flow = 26.504(CFS)
Normal flow depth in pipe = 14.41(In.)
Flow top width inside pipe = 19.49(In.)
Critical depth could not be calculated.
Pipe flow velocity = 15.05(Ft/s)
Travel time through pipe = 0.09 min.
Time of concentration (TC) = 6.67 min.

Process from Point/Station 504.000 to Point/Station 728.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 6.620(Ac.)
Runoff from this stream = 26.504(CFS)
Time of concentration = 6.67 min.
Rainfall intensity = 5.467(In/Hr)

Process from Point/Station 511.000 to Point/Station 512.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 609.300(Ft.)
Lowest elevation = 607.800(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = $[1.8*(1.1-C)*distance(Ft.)^0.5]/(%\ slope^{1/3})]$
TC = $[1.8*(1.1-0.8181)*(75.000^0.5)/(2.000^{1/3})]= 3.49$
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.377(CFS)
Total initial stream area = 0.070(Ac.)

Process from Point/Station 512.000 to Point/Station 513.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 607.800(Ft.)
End of street segment elevation = 581.300(Ft.)
Length of street segment = 1063.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 39.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 2.644(CFS)
Depth of flow = 0.274(Ft.), Average velocity = 3.272(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 9.746(Ft.)
Flow velocity = 3.27(Ft/s)
Travel time = 5.41 min. TC = 8.90 min.
Adding area flow to street
Rainfall intensity (I) = 4.540(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 4.540(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area

(Q=KCIA) is C = 0.725 CA = 1.094
 Subarea runoff = 4.590(CFS) for 1.440(Ac.)
 Total runoff = 4.967(CFS) Total area = 1.510(Ac.)
 Street flow at end of street = 4.967(CFS)
 Half street flow at end of street = 4.967(CFS)
 Depth of flow = 0.318(Ft.), Average velocity = 3.806(Ft/s)
 Flow width (from curb towards crown)= 12.699(Ft.)

 Process from Point/Station 513.000 to Point/Station 728.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 578.300(Ft.)
 Downstream point/station elevation = 577.900(Ft.)
 Pipe length = 60.00(Ft.) Slope = 0.0067 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 4.967(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 4.967(CFS)
 Normal flow depth in pipe = 11.58(In.)
 Flow top width inside pipe = 12.59(In.)
 Critical Depth = 10.84(In.)
 Pipe flow velocity = 4.89(Ft/s)
 Travel time through pipe = 0.20 min.
 Time of concentration (TC) = 9.11 min.

 Process from Point/Station 513.000 to Point/Station 728.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 1.510(Ac.)
 Runoff from this stream = 4.967(CFS)
 Time of concentration = 9.11 min.
 Rainfall intensity = 4.474(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	26.504	6.67	5.467
2	4.967	9.11	4.474
Qmax(1) =			
	1.000 *	1.000 *	26.504) +
	1.000 *	0.733 *	4.967) + = 30.145
Qmax(2) =			
	0.818 *	1.000 *	26.504) +
	1.000 *	1.000 *	4.967) + = 26.657

Total of 2 streams to confluence:
 Flow rates before confluence point:
 26.504 4.967
 Maximum flow rates at confluence using above data:
 30.145 26.657
 Area of streams before confluence:
 6.620 1.510
 Results of confluence:
 Total flow rate = 30.145(CFS)
 Time of concentration = 6.674 min.
 Effective stream area after confluence = 8.130(Ac.)

 Process from Point/Station 728.000 to Point/Station 729.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 577.900(Ft.)
 Downstream point/station elevation = 571.000(Ft.)
 Pipe length = 73.00(Ft.) Slope = 0.0945 Manning's N = 0.013

No. of pipes = 1 Required pipe flow = 30.145 (CFS)
Nearest computed pipe diameter = 18.00 (In.)
Calculated individual pipe flow = 30.145 (CFS)
Normal flow depth in pipe = 13.78 (In.)
Flow top width inside pipe = 15.25 (In.)
Critical depth could not be calculated.
Pipe flow velocity = 20.77 (Ft/s)
Travel time through pipe = 0.06 min.
Time of concentration (TC) = 6.73 min.

Process from Point/Station 728.000 to Point/Station 729.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 8.130 (Ac.)
Runoff from this stream = 30.145 (CFS)
Time of concentration = 6.73 min.
Rainfall intensity = 5.437 (In/Hr)

Process from Point/Station 521.000 to Point/Station 522.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000 (Ft.)
Highest elevation = 584.400 (Ft.)
Lowest elevation = 582.900 (Ft.)
Elevation difference = 1.500 (Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = $[1.8 * (1.1 - C) * \text{distance (Ft.)}^{.5}] / (\% \text{ slope}^{(1/3)})]$
TC = $[1.8 * (1.1 - 0.8181) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.49$
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.916 (CFS)
Total initial stream area = 0.170 (Ac.)

Process from Point/Station 522.000 to Point/Station 523.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587 (In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.726 CA = 2.004
Subarea runoff = 12.283 (CFS) for 2.590 (Ac.)
Total runoff = 13.199 (CFS) Total area = 2.760 (Ac.)

Process from Point/Station 523.000 to Point/Station 524.000
**** IMPROVED CHANNEL TRAVEL TIME ****

Upstream point elevation = 579.800(Ft.)
Downstream point elevation = 577.100(Ft.)
Channel length thru subarea = 545.000(Ft.)
Channel base width = 0.000(Ft.)
Slope or 'Z' of left channel bank = 0.100
Slope or 'Z' of right channel bank = 0.100
!!Warning: Water is above left or right bank elevations
!!Warning: Water is above left or right bank elevations
Estimated mean flow rate at midpoint of channel = 21.629(CFS)
Manning's 'N' = 0.015
Maximum depth of channel = 0.150(Ft.)
Flow(q) thru subarea = 21.629(CFS)
Depth of flow = 40.772(Ft.), Average velocity = 17.715(Ft/s)
!!Warning: Water is above left or right bank elevations
Channel flow top width = 0.030(Ft.)
Flow Velocity = 17.72(Ft/s)
Travel time = 0.51 min.
Time of concentration = 4.00 min.
Critical depth = 25.500(Ft.)
ERROR - Channel depth exceeds maximum allowable depth
Adding area flow to channel
Calculated TC of 4.001 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.723 CA = 4.553
Subarea runoff = 16.789(CFS) for 3.540(Ac.)
Total runoff = 29.988(CFS) Total area = 6.300(Ac.)
Depth of flow = 49.587(Ft.), Average velocity = 20.189(Ft/s)
!!Warning: Water is above left or right bank elevations
ERROR - Channel depth exceeds maximum allowable depth
Critical depth = 31.500(Ft.)

Process from Point/Station 524.000 to Point/Station 729.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 574.100(Ft.)
Downstream point/station elevation = 571.000(Ft.)
Pipe length = 611.00(Ft.) Slope = 0.0051 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 29.988(CFS)
Nearest computed pipe diameter = 33.00(In.)
Calculated individual pipe flow = 29.988(CFS)
Normal flow depth in pipe = 22.24(In.)
Flow top width inside pipe = 30.94(In.)
Critical Depth = 21.84(In.)
Pipe flow velocity = 7.04(Ft/s)
Travel time through pipe = 1.45 min.
Time of concentration (TC) = 5.45 min.

Process from Point/Station 524.000 to Point/Station 729.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 6.300(Ac.)
Runoff from this stream = 29.988(CFS)
Time of concentration = 5.45 min.
Rainfall intensity = 6.233(In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
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1	30.145	6.73	5.437	
2	29.988	5.45	6.233	
Qmax(1) =				
	1.000 *	1.000 *	30.145) +	
	0.872 *	1.000 *	29.988) + =	56.301
Qmax(2) =				
	1.000 *	0.809 *	30.145) +	
	1.000 *	1.000 *	29.988) + =	54.376

Total of 2 streams to confluence:
Flow rates before confluence point:
30.145 29.988
Maximum flow rates at confluence using above data:
56.301 54.376
Area of streams before confluence:
8.130 6.300
Results of confluence:
Total flow rate = 56.301(CFS)
Time of concentration = 6.733 min.
Effective stream area after confluence = 14.430 (Ac.)

Process from Point/Station 729.000 to Point/Station 730.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 571.000 (Ft.)
Downstream point/station elevation = 554.100 (Ft.)
Pipe length = 369.00 (Ft.) Slope = 0.0458 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 56.301 (CFS)
Nearest computed pipe diameter = 27.00 (In.)
Calculated individual pipe flow = 56.301 (CFS)
Normal flow depth in pipe = 19.13 (In.)
Flow top width inside pipe = 24.54 (In.)
Critical depth could not be calculated.
Pipe flow velocity = 18.71 (Ft/s)
Travel time through pipe = 0.33 min.
Time of concentration (TC) = 7.06 min.

Process from Point/Station 729.000 to Point/Station 730.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 14.430 (Ac.)
Runoff from this stream = 56.301 (CFS)
Time of concentration = 7.06 min.
Rainfall intensity = 5.272 (In/Hr)

Process from Point/Station 531.000 to Point/Station 532.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000 (Ft.)
Highest elevation = 581.500 (Ft.)
Lowest elevation = 580.000 (Ft.)
Elevation difference = 1.500 (Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of

General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.49 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (\% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8181) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.49$
 Calculated TC of 3.488 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
 Subarea runoff = 0.916(CFS)
 Total initial stream area = 0.170(Ac.)

 Process from Point/Station 532.000 to Point/Station 533.000
 **** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Time of concentration = 3.49 min.
 Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.734 CA = 0.859
 Subarea runoff = 4.743(CFS) for 1.000(Ac.)
 Total runoff = 5.659(CFS) Total area = 1.170(Ac.)

 Process from Point/Station 533.000 to Point/Station 534.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 576.900(Ft.)
 End of street segment elevation = 557.200(Ft.)
 Length of street segment = 893.000(Ft.)
 Height of curb above gutter flowline = 6.0(In.)
 Width of half street (curb to crown) = 26.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 10.384(CFS)
 Depth of flow = 0.389(Ft.), Average velocity = 4.357(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 17.465(Ft.)
 Flow velocity = 4.36(Ft/s)
 Travel time = 3.42 min. TC = 6.90 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.349(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Rainfall intensity = 5.349(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.724 CA = 2.810
 Subarea runoff = 9.374(CFS) for 2.710(Ac.)
 Total runoff = 15.033(CFS) Total area = 3.880(Ac.)
 Street flow at end of street = 15.033(CFS)
 Half street flow at end of street = 15.033(CFS)
 Depth of flow = 0.430(Ft.), Average velocity = 4.777(Ft/s)
 Flow width (from curb towards crown) = 20.171(Ft.)

 Process from Point/Station 534.000 to Point/Station 730.000

**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.200(Ft.)
 Downstream point/station elevation = 554.100(Ft.)
 Pipe length = 9.00(Ft.) Slope = 0.0111 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 15.033(CFS)
 Nearest computed pipe diameter = 21.00(In.)
 Calculated individual pipe flow = 15.033(CFS)
 Normal flow depth in pipe = 15.59(In.)
 Flow top width inside pipe = 18.37(In.)
 Critical Depth = 17.24(In.)
 Pipe flow velocity = 7.86(Ft/s)
 Travel time through pipe = 0.02 min.
 Time of concentration (TC) = 6.92 min.

 Process from Point/Station 534.000 to Point/Station 730.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 3.880(Ac.)
 Runoff from this stream = 15.033(CFS)
 Time of concentration = 6.92 min.
 Rainfall intensity = 5.340(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	56.301	7.06	5.272
2	15.033	6.92	5.340
Qmax(1) =			
	1.000 *	1.000 *	56.301) +
	0.987 *	1.000 *	15.033) + = 71.144
Qmax(2) =			
	1.000 *	0.980 *	56.301) +
	1.000 *	1.000 *	15.033) + = 70.230

Total of 2 streams to confluence:
 Flow rates before confluence point:
 56.301 15.033
 Maximum flow rates at confluence using above data:
 71.144 70.230
 Area of streams before confluence:
 14.430 3.880
 Results of confluence:
 Total flow rate = 71.144(CFS)
 Time of concentration = 7.062 min.
 Effective stream area after confluence = 18.310(Ac.)

 Process from Point/Station 730.000 to Point/Station 731.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.100(Ft.)
 Downstream point/station elevation = 553.500(Ft.)
 Pipe length = 134.00(Ft.) Slope = 0.0045 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 71.144(CFS)
 Nearest computed pipe diameter = 45.00(In.)
 Calculated individual pipe flow = 71.144(CFS)
 Normal flow depth in pipe = 32.72(In.)
 Flow top width inside pipe = 40.09(In.)
 Critical Depth = 31.18(In.)
 Pipe flow velocity = 8.27(Ft/s)
 Travel time through pipe = 0.27 min.
 Time of concentration (TC) = 7.33 min.

Process from Point/Station 730.000 to Point/Station 731.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 18.310(Ac.)
Runoff from this stream = 71.144(CFS)
Time of concentration = 7.33 min.
Rainfall intensity = 5.146(In/Hr)

Process from Point/Station 541.000 to Point/Station 542.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(Office Professional)
Impervious value, Ai = 0.900
Sub-Area C Value = 0.848
Initial subarea total flow distance = 80.000(Ft.)
Highest elevation = 593.400(Ft.)
Lowest elevation = 591.500(Ft.)
Elevation difference = 1.900(Ft.) Slope = 2.375 %
Top of Initial Area Slope adjusted by User to 2.500 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 80.00 (Ft)
for the top area slope value of 2.50 %, in a development type of
Office Professional
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.99 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8481)*(80.000^0.5)/(2.500^(1/3))]= 2.99
Calculated TC of 2.988 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.848
Subarea runoff = 0.950(CFS)
Total initial stream area = 0.170(Ac.)

Process from Point/Station 542.000 to Point/Station 543.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 2.988 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 2.99 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.724 CA = 4.263
Subarea runoff = 27.127(CFS) for 5.720(Ac.)
Total runoff = 28.077(CFS) Total area = 5.890(Ac.)

Process from Point/Station 543.000 to Point/Station 731.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 555.800(Ft.)
Downstream point/station elevation = 553.500(Ft.)
Pipe length = 67.00(Ft.) Slope = 0.0343 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 28.077(CFS)
Nearest computed pipe diameter = 21.00(In.)
Calculated individual pipe flow = 28.077(CFS)
Normal flow depth in pipe = 16.45(In.)

Flow top width inside pipe = 17.30(In.)
Critical depth could not be calculated.
Pipe flow velocity = 13.90(Ft/s)
Travel time through pipe = 0.08 min.
Time of concentration (TC) = 3.07 min.

Process from Point/Station 543.000 to Point/Station 731.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 5.890(Ac.)
Runoff from this stream = 28.077(CFS)
Time of concentration = 3.07 min.
Rainfall intensity = 6.587(In/Hr)

Process from Point/Station 551.000 to Point/Station 552.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(Office Professional)
Impervious value, Ai = 0.900
Sub-Area C Value = 0.848
Initial subarea total flow distance = 85.000(Ft.)
Highest elevation = 593.400(Ft.)
Lowest elevation = 590.900(Ft.)
Elevation difference = 2.500(Ft.) Slope = 2.941 %
Top of Initial Area Slope adjusted by User to 3.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 80.00 (Ft)
for the top area slope value of 3.00 %, in a development type of
Office Professional
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.81 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8481)*(80.000^0.5)/(3.000^(1/3))]= 2.81
Calculated TC of 2.812 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.848
Subarea runoff = 0.223(CFS)
Total initial stream area = 0.040(Ac.)

Process from Point/Station 552.000 to Point/Station 553.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 2.812 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 2.81 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.722 CA = 1.532
Subarea runoff = 9.864(CFS) for 2.080(Ac.)
Total runoff = 10.088(CFS) Total area = 2.120(Ac.)

Process from Point/Station 553.000 to Point/Station 731.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 556.600(Ft.)
 Downstream point/station elevation = 553.500(Ft.)
 Pipe length = 6.00(Ft.) Slope = 0.5167 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 10.088(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 10.088(CFS)
 Normal flow depth in pipe = 6.36(In.)
 Flow top width inside pipe = 8.19(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 30.20(Ft/s)
 Travel time through pipe = 0.00 min.
 Time of concentration (TC) = 2.82 min.

++++++
 Process from Point/Station 553.000 to Point/Station 731.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 3
 Stream flow area = 2.120(Ac.)
 Runoff from this stream = 10.088(CFS)
 Time of concentration = 2.82 min.
 Rainfall intensity = 6.587(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	71.144	7.33	5.146
2	28.077	3.07	6.587
3	10.088	2.82	6.587
Qmax(1) =			
	1.000 *	1.000 *	71.144) +
	0.781 *	1.000 *	28.077) +
	0.781 *	1.000 *	10.088) + = 100.959
Qmax(2) =			
	1.000 *	0.419 *	71.144) +
	1.000 *	1.000 *	28.077) +
	1.000 *	1.000 *	10.088) + = 67.940
Qmax(3) =			
	1.000 *	0.384 *	71.144) +
	1.000 *	0.917 *	28.077) +
	1.000 *	1.000 *	10.088) + = 63.166

Total of 3 streams to confluence:
 Flow rates before confluence point:
 71.144 28.077 10.088
 Maximum flow rates at confluence using above data:
 100.959 67.940 63.166
 Area of streams before confluence:
 18.310 5.890 2.120
 Results of confluence:
 Total flow rate = 100.959(CFS)
 Time of concentration = 7.332 min.
 Effective stream area after confluence = 26.320(Ac.)

++++++
 Process from Point/Station 731.000 to Point/Station 732.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 553.500(Ft.)
 Downstream point/station elevation = 552.600(Ft.)
 Pipe length = 182.00(Ft.) Slope = 0.0049 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 100.959(CFS)
 Nearest computed pipe diameter = 48.00(In.)
 Calculated individual pipe flow = 100.959(CFS)
 Normal flow depth in pipe = 39.36(In.)
 Flow top width inside pipe = 36.88(In.)
 Critical Depth = 36.53(In.)

Pipe flow velocity = 9.16(Ft/s)
Travel time through pipe = 0.33 min.
Time of concentration (TC) = 7.66 min.

Process from Point/Station 731.000 to Point/Station 732.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
Stream flow area = 26.320(Ac.)
Runoff from this stream = 100.959(CFS)
Time of concentration = 7.66 min.
Rainfall intensity = 5.001(In/Hr)

Process from Point/Station 561.000 to Point/Station 562.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 584.400(Ft.)
Lowest elevation = 582.900(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = $[1.8 * (1.1 - C) * \text{distance}(\text{Ft.})^{0.5}] / (\% \text{ slope}^{1/3})$
TC = $[1.8 * (1.1 - 0.8181) * (75.000^{0.5})] / (2.000^{1/3}) = 3.49$
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.916(CFS)
Total initial stream area = 0.170(Ac.)

Process from Point/Station 562.000 to Point/Station 563.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.724 CA = 3.105
Subarea runoff = 19.539(CFS) for 4.120(Ac.)
Total runoff = 20.455(CFS) Total area = 4.290(Ac.)

Process from Point/Station 563.000 to Point/Station 564.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 572.700(Ft.)
End of street segment elevation = 567.500(Ft.)
Length of street segment = 750.000(Ft.)

Height of curb above gutter flowline = 6.0(In.)
 Width of half street (curb to crown) = 130.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 25.212(CFS)
 Depth of flow = 0.587(Ft.), Average velocity = 3.528(Ft/s)
 Warning: depth of flow exceeds top of curb
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 30.661(Ft.)
 Flow velocity = 3.53(Ft/s)
 Travel time = 3.54 min. TC = 7.03 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.287(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Rainfall intensity = 5.287(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.722 CA = 5.654
 Subarea runoff = 9.437(CFS) for 3.540(Ac.)
 Total runoff = 29.893(CFS) Total area = 7.830(Ac.)
 Street flow at end of street = 29.893(CFS)
 Half street flow at end of street = 29.893(CFS)
 Depth of flow = 0.618(Ft.), Average velocity = 3.683(Ft/s)
 Warning: depth of flow exceeds top of curb
 Flow width (from curb towards crown)= 32.700(Ft.)

 Process from Point/Station 564.000 to Point/Station 732.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 564.500(Ft.)
 Downstream point/station elevation = 552.600(Ft.)
 Pipe length = 130.00(Ft.) Slope = 0.0915 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 29.893(CFS)
 Nearest computed pipe diameter = 18.00(In.)
 Calculated individual pipe flow = 29.893(CFS)
 Normal flow depth in pipe = 13.88(In.)
 Flow top width inside pipe = 15.13(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 20.45(Ft/s)
 Travel time through pipe = 0.11 min.
 Time of concentration (TC) = 7.14 min.

 Process from Point/Station 564.000 to Point/Station 732.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 7.830(Ac.)
 Runoff from this stream = 29.893(CFS)
 Time of concentration = 7.14 min.
 Rainfall intensity = 5.236(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	100.959	7.66	5.001
2	29.893	7.14	5.236

Qmax(1) =

```

      1.000 * 1.000 * 100.959) +
      0.955 * 1.000 * 29.893) + = 129.512
Qmax(2) =
      1.000 * 0.931 * 100.959) +
      1.000 * 1.000 * 29.893) + = 123.924

```

```

Total of 2 streams to confluence:
Flow rates before confluence point:
  100.959    29.893
Maximum flow rates at confluence using above data:
  129.512    123.924
Area of streams before confluence:
  26.320     7.830
Results of confluence:
Total flow rate = 129.512(CFS)
Time of concentration = 7.663 min.
Effective stream area after confluence = 34.150(Ac.)

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*****
Process from Point/Station 732.000 to Point/Station 733.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

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Upstream point/station elevation = 552.600(Ft.)
Downstream point/station elevation = 551.800(Ft.)
Pipe length = 152.00(Ft.) Slope = 0.0053 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 129.512(CFS)
Nearest computed pipe diameter = 54.00(In.)
Calculated individual pipe flow = 129.512(CFS)
Normal flow depth in pipe = 40.31(In.)
Flow top width inside pipe = 46.98(In.)
Critical Depth = 40.20(In.)
Pipe flow velocity = 10.16(Ft/s)
Travel time through pipe = 0.25 min.
Time of concentration (TC) = 7.91 min.

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*****
Process from Point/Station 732.000 to Point/Station 733.000
**** CONFLUENCE OF MINOR STREAMS ****

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Along Main Stream number: 1 in normal stream number 1
Stream flow area = 34.150(Ac.)
Runoff from this stream = 129.512(CFS)
Time of concentration = 7.91 min.
Rainfall intensity = 4.899(In/Hr)

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*****
Process from Point/Station 571.000 to Point/Station 572.000
**** INITIAL AREA EVALUATION ****

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Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type ]
(General Commercial )
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 570.500(Ft.)
Lowest elevation = 569.000(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^.5]/(% slope^(1/3))

```

TC = $[1.8 * (1.1 - 0.8181) * (75.000^{0.5}) / (2.000^{(1/3)})] = 3.49$
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.916(CFS)
Total initial stream area = 0.170(Ac.)

Process from Point/Station 572.000 to Point/Station 573.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.730 CA = 1.241
Subarea runoff = 7.256(CFS) for 1.530(Ac.)
Total runoff = 8.172(CFS) Total area = 1.700(Ac.)

Process from Point/Station 573.000 to Point/Station 574.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 565.600(Ft.)
End of street segment elevation = 562.600(Ft.)
Length of street segment = 461.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 9.348(CFS)
Depth of flow = 0.446(Ft.), Average velocity = 2.683(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 21.255(Ft.)
Flow velocity = 2.68(Ft/s)
Travel time = 2.86 min. TC = 6.35 min.
Adding area flow to street
Rainfall intensity (I) = 5.645(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 5.645(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.727 CA = 1.853
Subarea runoff = 2.286(CFS) for 0.850(Ac.)
Total runoff = 10.458(CFS) Total area = 2.550(Ac.)
Street flow at end of street = 10.458(CFS)
Half street flow at end of street = 10.458(CFS)
Depth of flow = 0.460(Ft.), Average velocity = 2.759(Ft/s)
Flow width (from curb towards crown) = 22.194(Ft.)

Process from Point/Station 574.000 to Point/Station 733.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 559.600(Ft.)
Downstream point/station elevation = 551.800(Ft.)

Pipe length = 48.00(Ft.) Slope = 0.1625 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 10.458 (CFS)
 Nearest computed pipe diameter = 12.00(In.)
 Calculated individual pipe flow = 10.458 (CFS)
 Normal flow depth in pipe = 7.59(In.)
 Flow top width inside pipe = 11.57(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 19.95(Ft/s)
 Travel time through pipe = 0.04 min.
 Time of concentration (TC) = 6.39 min.

 Process from Point/Station 574.000 to Point/Station 733.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 2.550(Ac.)
 Runoff from this stream = 10.458(CFS)
 Time of concentration = 6.39 min.
 Rainfall intensity = 5.622(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	129.512	7.91	4.899
2	10.458	6.39	5.622
Qmax(1) =			
	1.000 *	1.000 *	129.512) +
	0.871 *	1.000 *	10.458) + = 138.625
Qmax(2) =			
	1.000 *	0.808 *	129.512) +
	1.000 *	1.000 *	10.458) + = 115.078

Total of 2 streams to confluence:
 Flow rates before confluence point:
 129.512 10.458
 Maximum flow rates at confluence using above data:
 138.625 115.078
 Area of streams before confluence:
 34.150 2.550
 Results of confluence:
 Total flow rate = 138.625(CFS)
 Time of concentration = 7.912 min.
 Effective stream area after confluence = 36.700(Ac.)

 Process from Point/Station 733.000 to Point/Station 734.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 551.900(Ft.)
 Downstream point/station elevation = 549.000(Ft.)
 Pipe length = 106.00(Ft.) Slope = 0.0274 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 138.625 (CFS)
 Nearest computed pipe diameter = 42.00(In.)
 Calculated individual pipe flow = 138.625 (CFS)
 Normal flow depth in pipe = 29.30(In.)
 Flow top width inside pipe = 38.58(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 19.35(Ft/s)
 Travel time through pipe = 0.09 min.
 Time of concentration (TC) = 8.00 min.

 Process from Point/Station 733.000 to Point/Station 734.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 1
Stream flow area = 36.700(Ac.)
Runoff from this stream = 138.625(CFS)
Time of concentration = 8.00 min.
Rainfall intensity = 4.863(In/Hr)
Program is now starting with Main Stream No. 2

Process from Point/Station 581.000 to Point/Station 582.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 90.000(Ft.)
Highest elevation = 581.100(Ft.)
Lowest elevation = 576.600(Ft.)
Elevation difference = 4.500(Ft.) Slope = 5.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 90.00 (Ft)
for the top area slope value of 5.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.82 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8181)*(90.000^0.5)/(5.000^(1/3))]= 2.82
Calculated TC of 2.815 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.862(CFS)
Total initial stream area = 0.160(Ac.)

Process from Point/Station 582.000 to Point/Station 583.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 576.600(Ft.)
End of street segment elevation = 557.500(Ft.)
Length of street segment = 687.000(Ft.)
Height of curb above gutter flowline = 8.0(In.)
Width of half street (curb to crown) = 38.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 9.170(CFS)
Depth of flow = 0.366(Ft.), Average velocity = 4.609(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 15.891(Ft.)
Flow velocity = 4.61(Ft/s)
Travel time = 2.48 min. TC = 5.30 min.
Adding area flow to street
Rainfall intensity (I) = 6.344(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 6.344(In/Hr) for a 1.0 year storm

Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.724 CA = 2.744
Subarea runoff = 16.550(CFS) for 3.630(Ac.)
Total runoff = 17.412(CFS) Total area = 3.790(Ac.)
Street flow at end of street = 17.412(CFS)
Half street flow at end of street = 17.412(CFS)
Depth of flow = 0.434(Ft.), Average velocity = 5.404(Ft/s)
Flow width (from curb towards crown)= 20.417(Ft.)

Process from Point/Station 583.000 to Point/Station 735.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.500(Ft.)
Downstream point/station elevation = 550.500(Ft.)
Pipe length = 66.00(Ft.) Slope = 0.0606 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 17.412(CFS)
Nearest computed pipe diameter = 18.00(In.)
Calculated individual pipe flow = 17.412(CFS)
Normal flow depth in pipe = 10.82(In.)
Flow top width inside pipe = 17.63(In.)
Critical depth could not be calculated.
Pipe flow velocity = 15.70(Ft/s)
Travel time through pipe = 0.07 min.
Time of concentration (TC) = 5.37 min.

Process from Point/Station 582.000 to Point/Station 735.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 2 in normal stream number 1
Stream flow area = 3.790(Ac.)
Runoff from this stream = 17.412(CFS)
Time of concentration = 5.37 min.
Rainfall intensity = 6.291(In/Hr)

Process from Point/Station 591.000 to Point/Station 592.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 572.000(Ft.)
Lowest elevation = 570.500(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8181)*(75.000^0.5)]/(2.000^(1/3))= 3.49
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.377(CFS)
Total initial stream area = 0.070(Ac.)

++++++
 Process from Point/Station 592.000 to Point/Station 593.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 570.500(Ft.)
 End of street segment elevation = 557.500(Ft.)
 Length of street segment = 626.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 4.547(CFS)
 Depth of flow = 0.318(Ft.), Average velocity = 3.476(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 12.715(Ft.)
 Flow velocity = 3.48(Ft/s)
 Travel time = 3.00 min. TC = 6.49 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.567(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Rainfall intensity = 5.567(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.723 CA = 1.584
 Subarea runoff = 8.440(CFS) for 2.120(Ac.)
 Total runoff = 8.817(CFS) Total area = 2.190(Ac.)
 Street flow at end of street = 8.817(CFS)
 Half street flow at end of street = 8.817(CFS)
 Depth of flow = 0.376(Ft.), Average velocity = 4.090(Ft/s)
 Flow width (from curb towards crown)= 16.574(Ft.)

++++++
 Process from Point/Station 593.000 to Point/Station 735.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.500(Ft.)
 Downstream point/station elevation = 550.500(Ft.)
 Pipe length = 6.00(Ft.) Slope = 0.6667 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 8.817(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 8.817(CFS)
 Normal flow depth in pipe = 5.30(In.)
 Flow top width inside pipe = 8.86(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 32.57(Ft/s)
 Travel time through pipe = 0.00 min.
 Time of concentration (TC) = 6.49 min.

++++++
 Process from Point/Station 593.000 to Point/Station 735.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 2 in normal stream number 2
 Stream flow area = 2.190(Ac.)
 Runoff from this stream = 8.817(CFS)
 Time of concentration = 6.49 min.
 Rainfall intensity = 5.566(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
------------	-----------------	----------	----------------------------

1	17.412	5.37	6.291	
2	8.817	6.49	5.566	
Qmax(1) =				
	1.000 *	1.000 *	17.412) +	
	1.000 *	0.827 *	8.817) + =	24.704
Qmax(2) =				
	0.885 *	1.000 *	17.412) +	
	1.000 *	1.000 *	8.817) + =	24.222

Total of 2 streams to confluence:
Flow rates before confluence point:
17.412 8.817
Maximum flow rates at confluence using above data:
24.704 24.222
Area of streams before confluence:
3.790 2.190
Results of confluence:
Total flow rate = 24.704(CFS)
Time of concentration = 5.369 min.
Effective stream area after confluence = 5.980(Ac.)

Process from Point/Station 735.000 to Point/Station 734.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 550.500(Ft.)
Downstream point/station elevation = 549.000(Ft.)
Pipe length = 220.00(Ft.) Slope = 0.0068 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 24.704(CFS)
Nearest computed pipe diameter = 27.00(In.)
Calculated individual pipe flow = 24.704(CFS)
Normal flow depth in pipe = 21.33(In.)
Flow top width inside pipe = 22.00(In.)
Critical Depth = 20.86(In.)
Pipe flow velocity = 7.33(Ft/s)
Travel time through pipe = 0.50 min.
Time of concentration (TC) = 5.87 min.

Process from Point/Station 735.000 to Point/Station 734.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area = 5.980(Ac.)
Runoff from this stream = 24.704(CFS)
Time of concentration = 5.87 min.
Rainfall intensity = 5.939(In/Hr)
Program is now starting with Main Stream No. 3

Process from Point/Station 441.000 to Point/Station 442.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 561.800(Ft.)
Lowest elevation = 560.300(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %

INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:

The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial

In Accordance With Figure 3-3

Initial Area Time of Concentration = 3.49 minutes

$TC = [1.8*(1.1-C)*distance(Ft.)^{.5}/(\% slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8181)*(75.000^{.5})/(2.000^{(1/3)})] = 3.49$

Calculated TC of 3.488 minutes is less than 5 minutes,

resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm

Effective runoff coefficient used for area (Q=KCIA) is C = 0.818

Subarea runoff = 1.239(CFS)

Total initial stream area = 0.230(Ac.)

++++
Process from Point/Station 442.000 to Point/Station 443.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,

resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm

User specified 'C' value of 0.720 given for subarea

Time of concentration = 3.49 min.

Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm

Effective runoff coefficient used for total area

(Q=KCIA) is C = 0.739 CA = 0.879

Subarea runoff = 4.553(CFS) for 0.960(Ac.)

Total runoff = 5.792(CFS) Total area = 1.190(Ac.)

++++
Process from Point/Station 443.000 to Point/Station 444.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 557.200(Ft.)

End of street segment elevation = 555.700(Ft.)

Length of street segment = 306.000(Ft.)

Height of curb above gutter flowline = 6.0(In.)

Width of half street (curb to crown) = 64.000(Ft.)

Distance from crown to crossfall grade break = 0.500(Ft.)

Slope from gutter to grade break (v/hz) = 0.015

Slope from grade break to crown (v/hz) = 0.015

Street flow is on [1] side(s) of the street

Distance from curb to property line = 0.000(Ft.)

Slope from curb to property line (v/hz) = 0.000

Gutter width = 1.500(Ft.)

Gutter hike from flowline = 1.800(In.)

Manning's N in gutter = 0.0150

Manning's N from gutter to grade break = 0.0130

Manning's N from grade break to crown = 0.0130

Estimated mean flow rate at midpoint of street = 9.008(CFS)

Depth of flow = 0.459(Ft.), Average velocity = 2.390(Ft/s)

Streetflow hydraulics at midpoint of street travel:

Halfstreet flow width = 22.129(Ft.)

Flow velocity = 2.39(Ft/s)

Travel time = 2.13 min. TC = 5.62 min.

Adding area flow to street

Rainfall intensity (I) = 6.108(In/Hr) for a 1.0 year storm

User specified 'C' value of 0.720 given for subarea

Rainfall intensity = 6.108(In/Hr) for a 1.0 year storm

Effective runoff coefficient used for total area

(Q=KCIA) is C = 0.728 CA = 1.988

Subarea runoff = 6.351(CFS) for 1.540(Ac.)

Total runoff = 12.143(CFS) Total area = 2.730(Ac.)

Street flow at end of street = 12.143(CFS)

Half street flow at end of street = 12.143(CFS)

Depth of flow = 0.500(Ft.), Average velocity = 2.576(Ft/s)

Flow width (from curb towards crown) = 24.816(Ft.)

Process from Point/Station 444.000 to Point/Station 724.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 552.700(Ft.)
Downstream point/station elevation = 550.800(Ft.)
Pipe length = 388.00(Ft.) Slope = 0.0049 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 12.143(CFS)
Nearest computed pipe diameter = 24.00(In.)
Calculated individual pipe flow = 12.143(CFS)
Normal flow depth in pipe = 15.75(In.)
Flow top width inside pipe = 22.80(In.)
Critical Depth = 15.02(In.)
Pipe flow velocity = 5.55(Ft/s)
Travel time through pipe = 1.16 min.
Time of concentration (TC) = 6.79 min.

Process from Point/Station 444.000 to Point/Station 724.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 3 in normal stream number 1
Stream flow area = 2.730(Ac.)
Runoff from this stream = 12.143(CFS)
Time of concentration = 6.79 min.
Rainfall intensity = 5.409(In/Hr)

Process from Point/Station 431.000 to Point/Station 432.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 563.400(Ft.)
Lowest elevation = 561.900(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (\% slope^{(1/3)})$
 $TC = [1.8 * (1.1 - 0.8181) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.49$
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 1.186(CFS)
Total initial stream area = 0.220(Ac.)

Process from Point/Station 432.000 to Point/Station 433.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.

Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.739 CA = 0.850
Subarea runoff = 4.411(CFS) for 0.930(Ac.)
Total runoff = 5.596(CFS) Total area = 1.150(Ac.)

Process from Point/Station 433.000 to Point/Station 434.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 558.600(Ft.)
End of street segment elevation = 557.400(Ft.)
Length of street segment = 245.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 6.623(CFS)
Depth of flow = 0.422(Ft.), Average velocity = 2.213(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 19.653(Ft.)
Flow velocity = 2.21(Ft/s)
Travel time = 1.84 min. TC = 5.33 min.
Adding area flow to street
Rainfall intensity (I) = 6.319(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 6.319(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.733 CA = 1.195
Subarea runoff = 1.956(CFS) for 0.480(Ac.)
Total runoff = 7.552(CFS) Total area = 1.630(Ac.)
Street flow at end of street = 7.552(CFS)
Half street flow at end of street = 7.552(CFS)
Depth of flow = 0.438(Ft.), Average velocity = 2.287(Ft/s)
Flow width (from curb towards crown)= 20.678(Ft.)

Process from Point/Station 434.000 to Point/Station 724.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 554.400(Ft.)
Downstream point/station elevation = 550.800(Ft.)
Pipe length = 48.00(Ft.) Slope = 0.0750 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 7.552(CFS)
Nearest computed pipe diameter = 12.00(In.)
Calculated individual pipe flow = 7.552(CFS)
Normal flow depth in pipe = 7.93(In.)
Flow top width inside pipe = 11.36(In.)
Critical depth could not be calculated.
Pipe flow velocity = 13.72(Ft/s)
Travel time through pipe = 0.06 min.
Time of concentration (TC) = 5.39 min.

Process from Point/Station 434.000 to Point/Station 724.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 3 in normal stream number 2
Stream flow area = 1.630(Ac.)

Runoff from this stream = 7.552(CFS)
 Time of concentration = 5.39 min.
 Rainfall intensity = 6.275(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	12.143	6.79	5.409
2	7.552	5.39	6.275
Qmax(1) =			
	1.000 *	1.000 *	12.143) +
	0.862 *	1.000 *	7.552) + = 18.653
Qmax(2) =			
	1.000 *	0.794 *	12.143) +
	1.000 *	1.000 *	7.552) + = 17.199

Total of 2 streams to confluence:
 Flow rates before confluence point:
 12.143 7.552
 Maximum flow rates at confluence using above data:
 18.653 17.199
 Area of streams before confluence:
 2.730 1.630

Results of confluence:
 Total flow rate = 18.653(CFS)
 Time of concentration = 6.786 min.
 Effective stream area after confluence = 4.360(Ac.)

 Process from Point/Station 724.000 to Point/Station 734.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 550.800(Ft.)
 Downstream point/station elevation = 549.000(Ft.)
 Pipe length = 353.00(Ft.) Slope = 0.0051 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 18.653(CFS)
 Nearest computed pipe diameter = 27.00(In.)
 Calculated individual pipe flow = 18.653(CFS)
 Normal flow depth in pipe = 19.01(In.)
 Flow top width inside pipe = 24.65(In.)
 Critical Depth = 18.12(In.)
 Pipe flow velocity = 6.24(Ft/s)
 Travel time through pipe = 0.94 min.
 Time of concentration (TC) = 7.73 min.

 Process from Point/Station 724.000 to Point/Station 734.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 3
 Stream flow area = 4.360(Ac.)
 Runoff from this stream = 18.653(CFS)
 Time of concentration = 7.73 min.
 Rainfall intensity = 4.974(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	138.625	8.00	4.863
2	24.704	5.87	5.939
3	18.653	7.73	4.974
Qmax(1) =			
	1.000 *	1.000 *	138.625) +
	0.819 *	1.000 *	24.704) +

0.978 * 1.000 * 18.653) + = 177.091
 Qmax(2) =
 1.000 * 0.733 * 138.625) +
 1.000 * 1.000 * 24.704) +
 1.000 * 0.759 * 18.653) + = 140.541
 Qmax(3) =
 1.000 * 0.966 * 138.625) +
 0.837 * 1.000 * 24.704) +
 1.000 * 1.000 * 18.653) + = 173.216

Total of 3 main streams to confluence:
 Flow rates before confluence point:
 138.625 24.704 18.653
 Maximum flow rates at confluence using above data:
 177.091 140.541 173.216
 Area of streams before confluence:
 36.700 5.980 4.360

Results of confluence:
 Total flow rate = 177.091(CFS)
 Time of concentration = 8.003 min.
 Effective stream area after confluence = 47.040(Ac.)

++++++
 Process from Point/Station 734.000 to Point/Station 736.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 549.000(Ft.)
 Downstream point/station elevation = 547.400(Ft.)
 Pipe length = 329.00(Ft.) Slope = 0.0049 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 177.091(CFS)
 Nearest computed pipe diameter = 60.00(In.)
 Calculated individual pipe flow = 177.091(CFS)
 Normal flow depth in pipe = 47.91(In.)
 Flow top width inside pipe = 48.14(In.)
 Critical Depth = 45.75(In.)
 Pipe flow velocity = 10.54(Ft/s)
 Travel time through pipe = 0.52 min.
 Time of concentration (TC) = 8.52 min.

++++++
 Process from Point/Station 734.000 to Point/Station 736.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
 Stream flow area = 47.040(Ac.)
 Runoff from this stream = 177.091(CFS)
 Time of concentration = 8.52 min.
 Rainfall intensity = 4.669(In/Hr)

++++++
 Process from Point/Station 601.000 to Point/Station 602.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.190
 Decimal fraction soil group D = 0.810
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.818
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 568.000(Ft.)
 Lowest elevation = 566.500(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:

The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial

In Accordance With Figure 3-3

Initial Area Time of Concentration = 3.49 minutes

$TC = [1.8 * (1.1 - C) * \text{distance}(\text{Ft.})^{.5}] / (\% \text{ slope}^{(1/3)})]$

$TC = [1.8 * (1.1 - 0.8181) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.49$

Calculated TC of 3.488 minutes is less than 5 minutes,

resetting TC to 5.0 minutes for rainfall intensity calculations

Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm

Effective runoff coefficient used for area (Q=KCIA) is C = 0.818

Subarea runoff = 0.862(CFS)

Total initial stream area = 0.160(Ac.)

Process from Point/Station 602.000 to Point/Station 603.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 566.500(Ft.)

End of street segment elevation = 558.900(Ft.)

Length of street segment = 439.000(Ft.)

Height of curb above gutter flowline = 6.0(In.)

Width of half street (curb to crown) = 128.000(Ft.)

Distance from crown to crossfall grade break = 0.500(Ft.)

Slope from gutter to grade break (v/hz) = 0.015

Slope from grade break to crown (v/hz) = 0.015

Street flow is on [1] side(s) of the street

Distance from curb to property line = 0.000(Ft.)

Slope from curb to property line (v/hz) = 0.000

Gutter width = 1.500(Ft.)

Gutter hike from flowline = 1.800(In.)

Manning's N in gutter = 0.0150

Manning's N from gutter to grade break = 0.0130

Manning's N from grade break to crown = 0.0130

Estimated mean flow rate at midpoint of street = 3.040(CFS)

Depth of flow = 0.295(Ft.), Average velocity = 2.944(Ft/s)

Streetflow hydraulics at midpoint of street travel:

Halfstreet flow width = 11.178(Ft.)

Flow velocity = 2.94(Ft/s)

Travel time = 2.49 min. TC = 5.97 min.

Adding area flow to street

Rainfall intensity (I) = 5.873(In/Hr) for a 1.0 year storm

User specified 'C' value of 0.720 given for subarea

Rainfall intensity = 5.873(In/Hr) for a 1.0 year storm

Effective runoff coefficient used for total area

(Q=KCIA) is C = 0.733 CA = 0.872

Subarea runoff = 4.262(CFS) for 1.030(Ac.)

Total runoff = 5.124(CFS) Total area = 1.190(Ac.)

Street flow at end of street = 5.124(CFS)

Half street flow at end of street = 5.124(CFS)

Depth of flow = 0.335(Ft.), Average velocity = 3.341(Ft/s)

Flow width (from curb towards crown) = 13.847(Ft.)

Process from Point/Station 603.000 to Point/Station 736.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 555.900(Ft.)

Downstream point/station elevation = 547.400(Ft.)

Pipe length = 29.00(Ft.) Slope = 0.2931 Manning's N = 0.013

No. of pipes = 1 Required pipe flow = 5.124(CFS)

Nearest computed pipe diameter = 9.00(In.)

Calculated individual pipe flow = 5.124(CFS)

Normal flow depth in pipe = 4.88(In.)

Flow top width inside pipe = 8.97(In.)

Critical depth could not be calculated.

Pipe flow velocity = 20.96(Ft/s)

Travel time through pipe = 0.02 min.

Time of concentration (TC) = 6.00 min.

 Process from Point/Station 603.000 to Point/Station 736.000
 **** CONFLUENCE OF MINOR STREAMS ****

 Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 1.190 (Ac.)
 Runoff from this stream = 5.124 (CFS)
 Time of concentration = 6.00 min.
 Rainfall intensity = 5.858 (In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	177.091	8.52	4.669
2	5.124	6.00	5.858
Qmax(1) =			
	1.000 *	1.000 *	177.091) +
	0.797 *	1.000 *	5.124) + = 181.175
Qmax(2) =			
	1.000 *	0.704 *	177.091) +
	1.000 *	1.000 *	5.124) + = 129.711

Total of 2 streams to confluence:
 Flow rates before confluence point:
 177.091 5.124
 Maximum flow rates at confluence using above data:
 181.175 129.711
 Area of streams before confluence:
 47.040 1.190
 Results of confluence:
 Total flow rate = 181.175 (CFS)
 Time of concentration = 8.524 min.
 Effective stream area after confluence = 48.230 (Ac.)

 Process from Point/Station 736.000 to Point/Station 726.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

 Upstream point/station elevation = 547.400 (Ft.)
 Downstream point/station elevation = 545.600 (Ft.)
 Pipe length = 346.00 (Ft.) Slope = 0.0052 Manning's N = 0.009
 No. of pipes = 1 Required pipe flow = 181.175 (CFS)
 Nearest computed pipe diameter = 54.00 (In.)
 Calculated individual pipe flow = 181.175 (CFS)
 Normal flow depth in pipe = 39.47 (In.)
 Flow top width inside pipe = 47.90 (In.)
 Critical Depth = 46.74 (In.)
 Pipe flow velocity = 14.54 (Ft/s)
 Travel time through pipe = 0.40 min.
 Time of concentration (TC) = 8.92 min.

 Process from Point/Station 736.000 to Point/Station 726.000
 **** CONFLUENCE OF MINOR STREAMS ****

 Along Main Stream number: 1 in normal stream number 1
 Stream flow area = 48.230 (Ac.)
 Runoff from this stream = 181.175 (CFS)
 Time of concentration = 8.92 min.
 Rainfall intensity = 4.534 (In/Hr)

 Process from Point/Station 451.000 to Point/Station 452.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.190
 Decimal fraction soil group D = 0.810
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.818
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 568.900(Ft.)
 Lowest elevation = 567.400(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.49 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(\% slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8181)*(75.000^0.5)/(2.000^{(1/3)})]= 3.49$
 Calculated TC of 3.488 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
 Subarea runoff = 0.862(CFS)
 Total initial stream area = 0.160(Ac.)

+-----+
 Process from Point/Station 452.000 to Point/Station 453.000
 **** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Time of concentration = 3.49 min.
 Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.721 CA = 9.707
 Subarea runoff = 63.076(CFS) for 13.300(Ac.)
 Total runoff = 63.938(CFS) Total area = 13.460(Ac.)

+-----+
 Process from Point/Station 453.000 to Point/Station 726.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 547.200(Ft.)
 Downstream point/station elevation = 545.400(Ft.)
 Pipe length = 591.00(Ft.) Slope = 0.0030 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 63.938(CFS)
 Nearest computed pipe diameter = 45.00(In.)
 Calculated individual pipe flow = 63.938(CFS)
 Normal flow depth in pipe = 35.30(In.)
 Flow top width inside pipe = 37.01(In.)
 Critical Depth = 29.50(In.)
 Pipe flow velocity = 6.88(Ft/s)
 Travel time through pipe = 1.43 min.
 Time of concentration (TC) = 4.92 min.

+-----+
 Process from Point/Station 452.000 to Point/Station 726.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 13.460(Ac.)
 Runoff from this stream = 63.938(CFS)
 Time of concentration = 4.92 min.

Rainfall intensity = 6.587(In/Hr)

Process from Point/Station 651.000 to Point/Station 652.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 570.500(Ft.)
Lowest elevation = 569.000(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8181)*(75.000^0.5)/(2.000^(1/3))]= 3.49
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.916(CFS)
Total initial stream area = 0.170(Ac.)

Process from Point/Station 652.000 to Point/Station 653.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.722 CA = 5.849
Subarea runoff = 37.608(CFS) for 7.930(Ac.)
Total runoff = 38.524(CFS) Total area = 8.100(Ac.)

Process from Point/Station 653.000 to Point/Station 726.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 558.300(Ft.)
Downstream point/station elevation = 545.400(Ft.)
Pipe length = 269.00(Ft.) Slope = 0.0480 Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 38.524(CFS)
Nearest computed pipe diameter = 24.00(In.)
Calculated individual pipe flow = 38.524(CFS)
Normal flow depth in pipe = 15.91(In.)
Flow top width inside pipe = 22.69(In.)
Critical depth could not be calculated.
Pipe flow velocity = 17.43(Ft/s)
Travel time through pipe = 0.26 min.
Time of concentration (TC) = 3.75 min.

Process from Point/Station 653.000 to Point/Station 726.000

**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 3
 Stream flow area = 8.100(Ac.)
 Runoff from this stream = 38.524(CFS)
 Time of concentration = 3.75 min.
 Rainfall intensity = 6.587(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	181.175	8.92	4.534
2	63.938	4.92	6.587
3	38.524	3.75	6.587
Qmax(1) =			
	1.000 *	1.000 *	181.175) +
	0.688 *	1.000 *	63.938) +
	0.688 *	1.000 *	38.524) + = 251.711
Qmax(2) =			
	1.000 *	0.552 *	181.175) +
	1.000 *	1.000 *	63.938) +
	1.000 *	1.000 *	38.524) + = 202.381
Qmax(3) =			
	1.000 *	0.420 *	181.175) +
	1.000 *	0.761 *	63.938) +
	1.000 *	1.000 *	38.524) + = 163.265

Total of 3 streams to confluence:
 Flow rates before confluence point:
 181.175 63.938 38.524
 Maximum flow rates at confluence using above data:
 251.711 202.381 163.265
 Area of streams before confluence:
 48.230 13.460 8.100
 Results of confluence:
 Total flow rate = 251.711(CFS)
 Time of concentration = 8.920 min.
 Effective stream area after confluence = 69.790(Ac.)

 Process from Point/Station 452.000 to Point/Station 726.000
 **** 6 HOUR HYDROGRAPH ****

 Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 8.92
 Basin Area = 69.79 Acres
 6 Hour Rainfall = 2.500 Inches
 Runoff Coefficient = 0.724
 Peak Discharge = 251.71 CFS

Time (Min)	Discharge (CFS)
0	0.000
8	7.540
16	7.652
24	7.887
32	8.013
40	8.279
48	8.420
56	8.723
64	8.886
72	9.235
80	9.423
88	9.830
96	10.051
104	10.534
112	10.799

120	11.383
128	11.707
136	12.432
144	12.839
152	13.768
160	14.301
168	15.545
176	16.278
184	18.054
192	19.146
200	21.946
208	23.796
216	29.085
224	33.128
232	48.643
240	68.536
248	251.711
256	39.014
264	26.103
272	20.424
280	17.107
288	14.890
296	13.283
304	12.056
312	11.081
320	10.285
328	9.621
336	9.056
344	8.568
352	8.143
360	7.767
368	7.433

+++++

6 - H O U R S T O R M

R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals ((CFS))

Time (h+m)	Volume Ac.Ft	Q (CFS)	0	62.9	125.9	188.8	251.7
------------	--------------	---------	---	------	-------	-------	-------

0+ 0	0.0000	0.00	Q				
0+ 1	0.0013	0.94	Q				
0+ 2	0.0039	1.89	Q				
0+ 3	0.0078	2.83	Q				
0+ 4	0.0130	3.77	Q				
0+ 5	0.0195	4.71	Q				
0+ 6	0.0273	5.66	Q				
0+ 7	0.0364	6.60	VQ				
0+ 8	0.0467	7.54	VQ				
0+ 9	0.0571	7.55	VQ				
0+10	0.0676	7.57	VQ				
0+11	0.0780	7.58	VQ				
0+12	0.0885	7.60	VQ				
0+13	0.0990	7.61	VQ				
0+14	0.1095	7.62	VQ				
0+15	0.1200	7.64	VQ				
0+16	0.1305	7.65	VQ				
0+17	0.1411	7.68	VQ				
0+18	0.1517	7.71	VQ				
0+19	0.1624	7.74	VQ				
0+20	0.1731	7.77	VQ				
0+21	0.1838	7.80	VQ				
0+22	0.1946	7.83	VQ				
0+23	0.2054	7.86	VQ				
0+24	0.2163	7.89	VQ				
0+25	0.2272	7.90	VQ				
0+26	0.2381	7.92	VQ				
0+27	0.2490	7.93	VQ				
0+28	0.2600	7.95	VQ				
0+29	0.2709	7.97	IQ				

0+30	0.2819	7.98	Q				
0+31	0.2929	8.00	Q				
0+32	0.3040	8.01	Q				
0+33	0.3151	8.05	Q				
0+34	0.3262	8.08	Q				
0+35	0.3374	8.11	Q				
0+36	0.3486	8.15	Q				
0+37	0.3599	8.18	Q				
0+38	0.3712	8.21	Q				
0+39	0.3825	8.25	Q				
0+40	0.3939	8.28	Q				
0+41	0.4054	8.30	Q				
0+42	0.4168	8.31	Q				
0+43	0.4283	8.33	Q				
0+44	0.4398	8.35	Q				
0+45	0.4513	8.37	Q				
0+46	0.4629	8.38	Q				
0+47	0.4744	8.40	Q				
0+48	0.4860	8.42	Q				
0+49	0.4977	8.46	Q				
0+50	0.5094	8.50	Q				
0+51	0.5211	8.53	Q				
0+52	0.5329	8.57	QV				
0+53	0.5448	8.61	QV				
0+54	0.5567	8.65	QV				
0+55	0.5687	8.69	QV				
0+56	0.5807	8.72	QV				
0+57	0.5927	8.74	QV				
0+58	0.6048	8.76	QV				
0+59	0.6169	8.78	QV				
1+ 0	0.6290	8.80	QV				
1+ 1	0.6412	8.82	QV				
1+ 2	0.6534	8.85	QV				
1+ 3	0.6656	8.87	QV				
1+ 4	0.6778	8.89	QV				
1+ 5	0.6901	8.93	QV				
1+ 6	0.7025	8.97	QV				
1+ 7	0.7149	9.02	QV				
1+ 8	0.7274	9.06	QV				
1+ 9	0.7399	9.10	QV				
1+10	0.7525	9.15	QV				
1+11	0.7652	9.19	QV				
1+12	0.7779	9.23	QV				
1+13	0.7907	9.26	QV				
1+14	0.8034	9.28	Q V				
1+15	0.8163	9.31	Q V				
1+16	0.8291	9.33	Q V				
1+17	0.8420	9.35	Q V				
1+18	0.8549	9.38	Q V				
1+19	0.8678	9.40	Q V				
1+20	0.8808	9.42	Q V				
1+21	0.8939	9.47	Q V				
1+22	0.9070	9.52	Q V				
1+23	0.9202	9.58	Q V				
1+24	0.9334	9.63	Q V				
1+25	0.9468	9.68	Q V				
1+26	0.9602	9.73	Q V				
1+27	0.9736	9.78	Q V				
1+28	0.9872	9.83	Q V				
1+29	1.0008	9.86	Q V				
1+30	1.0144	9.89	Q V				
1+31	1.0280	9.91	Q V				
1+32	1.0417	9.94	Q V				
1+33	1.0555	9.97	Q V				
1+34	1.0692	10.00	Q V				
1+35	1.0830	10.02	Q V				
1+36	1.0969	10.05	Q V				
1+37	1.1108	10.11	Q V				
1+38	1.1248	10.17	Q V				
1+39	1.1389	10.23	Q V				
1+40	1.1531	10.29	Q V				

1+41	1.1673	10.35	Q	V					
1+42	1.1817	10.41	Q	V					
1+43	1.1961	10.47	Q	V					
1+44	1.2106	10.53	Q	V					
1+45	1.2252	10.57	Q	V					
1+46	1.2398	10.60	Q	V					
1+47	1.2544	10.63	Q	V					
1+48	1.2691	10.67	Q	V					
1+49	1.2839	10.70	Q	V					
1+50	1.2986	10.73	Q	V					
1+51	1.3135	10.77	Q	V					
1+52	1.3283	10.80	Q	V					
1+53	1.3433	10.87	Q	V					
1+54	1.3584	10.94	Q	V					
1+55	1.3736	11.02	Q	V					
1+56	1.3888	11.09	Q	V					
1+57	1.4042	11.16	Q	V					
1+58	1.4197	11.24	Q	V					
1+59	1.4353	11.31	Q	V					
2+ 0	1.4510	11.38	Q	V					
2+ 1	1.4667	11.42	Q	V					
2+ 2	1.4825	11.46	Q	V					
2+ 3	1.4983	11.50	Q	V					
2+ 4	1.5142	11.55	Q	V					
2+ 5	1.5302	11.59	Q	V					
2+ 6	1.5462	11.63	Q	V					
2+ 7	1.5623	11.67	Q	V					
2+ 8	1.5784	11.71	Q	V					
2+ 9	1.5947	11.80	Q	V					
2+10	1.6110	11.89	Q	V					
2+11	1.6275	11.98	Q	V					
2+12	1.6442	12.07	Q	V					
2+13	1.6609	12.16	Q	V					
2+14	1.6778	12.25	Q	V					
2+15	1.6948	12.34	Q	V					
2+16	1.7119	12.43	Q	V					
2+17	1.7291	12.48	Q	V					
2+18	1.7464	12.53	Q	V					
2+19	1.7637	12.58	Q	V					
2+20	1.7811	12.64	Q	V					
2+21	1.7986	12.69	Q	V					
2+22	1.8161	12.74	Q	V					
2+23	1.8337	12.79	Q	V					
2+24	1.8514	12.84	Q	V					
2+25	1.8693	12.96	Q	V					
2+26	1.8873	13.07	Q	V					
2+27	1.9054	13.19	Q	V					
2+28	1.9238	13.30	Q	V					
2+29	1.9422	13.42	Q	V					
2+30	1.9609	13.54	Q	V					
2+31	1.9797	13.65	Q	V					
2+32	1.9987	13.77	Q	V					
2+33	2.0177	13.83	Q	V					
2+34	2.0369	13.90	Q	V					
2+35	2.0561	13.97	Q	V					
2+36	2.0754	14.03	Q	V					
2+37	2.0948	14.10	Q	V					
2+38	2.1144	14.17	Q	V					
2+39	2.1340	14.23	Q	V					
2+40	2.1537	14.30	Q	V					
2+41	2.1736	14.46	Q	V					
2+42	2.1937	14.61	Q	V					
2+43	2.2140	14.77	Q	V					
2+44	2.2346	14.92	Q	V					
2+45	2.2554	15.08	Q	V					
2+46	2.2764	15.23	Q	V					
2+47	2.2976	15.39	Q	V					
2+48	2.3190	15.54	Q	V					
2+49	2.3405	15.64	Q	V					
2+50	2.3622	15.73	Q	V					
2+51	2.3840	15.82	Q	V					

2+52	2.4059	15.91	Q	V				
2+53	2.4279	16.00	Q	V				
2+54	2.4501	16.09	Q	V				
2+55	2.4724	16.19	Q	V				
2+56	2.4948	16.28	Q	V				
2+57	2.5175	16.50	Q	V				
2+58	2.5406	16.72	Q	V				
2+59	2.5639	16.94	Q	V				
3+ 0	2.5875	17.17	Q	V				
3+ 1	2.6115	17.39	Q	V				
3+ 2	2.6357	17.61	Q	V				
3+ 3	2.6603	17.83	Q	V				
3+ 4	2.6852	18.05	Q	V				
3+ 5	2.7102	18.19	Q	V				
3+ 6	2.7355	18.33	Q	V				
3+ 7	2.7609	18.46	Q	V				
3+ 8	2.7865	18.60	Q	V				
3+ 9	2.8123	18.74	Q	V				
3+10	2.8383	18.87	Q	V				
3+11	2.8645	19.01	Q	V				
3+12	2.8909	19.15	Q	V				
3+13	2.9177	19.50	Q	V				
3+14	2.9451	19.85	Q	V				
3+15	2.9729	20.20	Q	V				
3+16	3.0012	20.55	Q	V				
3+17	3.0300	20.90	Q	V				
3+18	3.0592	21.25	Q	V				
3+19	3.0890	21.60	Q	V				
3+20	3.1192	21.95	Q	V				
3+21	3.1498	22.18	Q	V				
3+22	3.1806	22.41	Q	V				
3+23	3.2118	22.64	Q	V				
3+24	3.2433	22.87	Q	V				
3+25	3.2751	23.10	Q	V				
3+26	3.3073	23.33	Q	V				
3+27	3.3397	23.56	Q	V				
3+28	3.3725	23.80	Q	V				
3+29	3.4062	24.46	Q	V				
3+30	3.4408	25.12	Q	V				
3+31	3.4763	25.78	Q	V				
3+32	3.5127	26.44	Q	V				
3+33	3.5501	27.10	Q	V				
3+34	3.5883	27.76	Q	V				
3+35	3.6274	28.42	Q	V				
3+36	3.6675	29.09	Q	V				
3+37	3.7083	29.59	Q	V				
3+38	3.7497	30.10	Q	V				
3+39	3.7919	30.60	Q	V				
3+40	3.8347	31.11	Q	V				
3+41	3.8783	31.61	Q	V				
3+42	3.9225	32.12	Q	V				
3+43	3.9674	32.62	Q	V				
3+44	4.0131	33.13	Q	V				
3+45	4.0614	35.07	Q	V				
3+46	4.1123	37.01	Q	V				
3+47	4.1660	38.95	Q	V				
3+48	4.2223	40.89	Q	V				
3+49	4.2813	42.82	Q	V				
3+50	4.3429	44.76	Q	V				
3+51	4.4073	46.70	Q	V				
3+52	4.4743	48.64	Q	V				
3+53	4.5447	51.13	Q	V				
3+54	4.6186	53.62	Q	V				
3+55	4.6958	56.10	Q	V				
3+56	4.7765	58.59	Q	V				
3+57	4.8607	61.08	Q	V				
3+58	4.9482	63.56	Q	V				
3+59	5.0392	66.05	Q	V				
4+ 0	5.1336	68.54	Q	V				
4+ 1	5.2595	91.43		Q	V			
4+ 2	5.4170	114.33			Q	V		

4+ 3	5.6060	137.23				Q			
4+ 4	5.8266	160.12				V	Q		
4+ 5	6.0787	183.02				V		Q	
4+ 6	6.3623	205.92				V			Q
4+ 7	6.6775	228.81				V			Q
4+ 8	7.0242	251.71				V			Q
4+ 9	7.3343	225.12				V		Q	
4+10	7.6078	198.54				V		Q	
4+11	7.8446	171.95				Q	V		
4+12	8.0448	145.36				Q	V		
4+13	8.2084	118.78			Q		V		
4+14	8.3354	92.19		Q			V		
4+15	8.4258	65.60		Q			V		
4+16	8.4795	39.01		Q			V		
4+17	8.5310	37.40		Q			V		
4+18	8.5803	35.79		Q			V		
4+19	8.6274	34.17		Q			V		
4+20	8.6722	32.56		Q			V		
4+21	8.7149	30.94		Q			V		
4+22	8.7553	29.33		Q			V		
4+23	8.7934	27.72		Q			V		
4+24	8.8294	26.10		Q			V		
4+25	8.8644	25.39		Q			V		
4+26	8.8984	24.68		Q			V		
4+27	8.9314	23.97		Q			V		
4+28	8.9634	23.26		Q			V		
4+29	8.9945	22.55		Q			V		
4+30	9.0246	21.84		Q			V		
4+31	9.0537	21.13		Q			V		
4+32	9.0818	20.42		Q			V		
4+33	9.1094	20.01		Q			V		
4+34	9.1364	19.60		Q			V		
4+35	9.1628	19.18		Q			V		
4+36	9.1886	18.77		Q			V		
4+37	9.2139	18.35		Q			V		
4+38	9.2386	17.94		Q			V		
4+39	9.2628	17.52		Q			V		
4+40	9.2863	17.11		Q			V		
4+41	9.3095	16.83		Q			V		
4+42	9.3323	16.55		Q			V		
4+43	9.3547	16.28		Q			V		
4+44	9.3768	16.00		Q			V		
4+45	9.3984	15.72		Q			V		
4+46	9.4197	15.44		Q			V		
4+47	9.4406	15.17		Q			V		
4+48	9.4611	14.89		Q			V		
4+49	9.4813	14.69		Q			V		
4+50	9.5013	14.49		Q			V		
4+51	9.5210	14.29		Q			V		
4+52	9.5404	14.09		Q			V		
4+53	9.5595	13.89		Q			V		
4+54	9.5783	13.68		Q			V		
4+55	9.5969	13.48		Q			V		
4+56	9.6152	13.28		Q			V		
4+57	9.6333	13.13		Q			V		
4+58	9.6512	12.98		Q			V		
4+59	9.6688	12.82		Q			V		
5+ 0	9.6863	12.67		Q			V		
5+ 1	9.7035	12.52		Q			V		
5+ 2	9.7206	12.36		Q			V		
5+ 3	9.7374	12.21		Q			V		
5+ 4	9.7540	12.06		Q			V		
5+ 5	9.7704	11.93		Q			V		
5+ 6	9.7867	11.81		Q			V		
5+ 7	9.8028	11.69		Q			V		
5+ 8	9.8187	11.57		Q			V		
5+ 9	9.8345	11.45		Q			V		
5+10	9.8501	11.32		Q			V		
5+11	9.8655	11.20		Q			V		
5+12	9.8808	11.08		Q			V		
5+13	9.8959	10.98		Q			V		

5+14	9.9109	10.88	Q				V	
5+15	9.9257	10.78	Q				V	
5+16	9.9405	10.68	Q				V	
5+17	9.9550	10.58	Q				V	
5+18	9.9695	10.48	Q				V	
5+19	9.9838	10.38	Q				V	
5+20	9.9980	10.29	Q				V	
5+21	10.0120	10.20	Q				V	
5+22	10.0259	10.12	Q				V	
5+23	10.0398	10.04	Q				V	
5+24	10.0535	9.95	Q				V	
5+25	10.0671	9.87	Q				V	
5+26	10.0806	9.79	Q				V	
5+27	10.0939	9.70	Q				V	
5+28	10.1072	9.62	Q				V	
5+29	10.1203	9.55	Q				V	
5+30	10.1334	9.48	Q				V	
5+31	10.1463	9.41	Q				V	
5+32	10.1592	9.34	Q				V	
5+33	10.1720	9.27	Q				V	
5+34	10.1846	9.20	Q				V	
5+35	10.1972	9.13	Q				V	
5+36	10.2097	9.06	Q				V	
5+37	10.2221	8.99	Q				V	
5+38	10.2344	8.93	Q				V	
5+39	10.2466	8.87	Q				V	
5+40	10.2587	8.81	Q				V	
5+41	10.2708	8.75	Q				V	
5+42	10.2828	8.69	Q				V	
5+43	10.2946	8.63	Q				V	
5+44	10.3065	8.57	Q				V	
5+45	10.3182	8.52	Q				V	
5+46	10.3298	8.46	Q				V	
5+47	10.3414	8.41	Q				V	
5+48	10.3529	8.36	Q				V	
5+49	10.3644	8.30	Q				V	
5+50	10.3757	8.25	Q				V	
5+51	10.3870	8.20	Q				V	
5+52	10.3982	8.14	Q				V	
5+53	10.4094	8.10	Q				V	
5+54	10.4205	8.05	Q				V	
5+55	10.4315	8.00	Q				V	
5+56	10.4424	7.96	Q				V	
5+57	10.4533	7.91	Q				V	
5+58	10.4642	7.86	Q				V	
5+59	10.4749	7.81	Q				V	
6+ 0	10.4856	7.77	Q				V	
6+ 1	10.4963	7.73	Q				V	
6+ 2	10.5069	7.68	Q				V	
6+ 3	10.5174	7.64	Q				V	
6+ 4	10.5279	7.60	Q				V	
6+ 5	10.5383	7.56	Q				V	
6+ 6	10.5486	7.52	Q				V	
6+ 7	10.5589	7.47	Q				V	
6+ 8	10.5691	7.43	Q				V	

End of computations, total study area = 69.790 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/11/24

***** Hydrology Study Control Information *****
Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Basin 6
100160prratbas6

Program License Serial Number 6490

Rational hydrology study storm event year is 1.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

Process from Point/Station 611.000 to Point/Station 612.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 566.800(Ft.)
Lowest elevation = 565.300(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8181)*(75.000^.5)/(2.000^(1/3))]= 3.49
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 1.024(CFS)
Total initial stream area = 0.190(Ac.)

Process from Point/Station 612.000 to Point/Station 613.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 565.300(Ft.)
End of street segment elevation = 556.200(Ft.)
Length of street segment = 501.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 128.000(Ft.)

Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 3.581(CFS)
 Depth of flow = 0.305(Ft.), Average velocity = 3.118(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 11.848(Ft.)
 Flow velocity = 3.12(Ft/s)
 Travel time = 2.68 min. TC = 6.17 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.754(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Rainfall intensity = 5.754(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.733 CA = 1.055
 Subarea runoff = 5.049(CFS) for 1.250(Ac.)
 Total runoff = 6.073(CFS) Total area = 1.440(Ac.)
 Street flow at end of street = 6.073(CFS)
 Half street flow at end of street = 6.073(CFS)
 Depth of flow = 0.348(Ft.), Average velocity = 3.547(Ft/s)
 Flow width (from curb towards crown)= 14.681(Ft.)

++++++
 Process from Point/Station 613.000 to Point/Station 727.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 553.200(Ft.)
 Downstream point/station elevation = 543.000(Ft.)
 Pipe length = 118.00(Ft.) Slope = 0.0864 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 6.073(CFS)
 Nearest computed pipe diameter = 12.00(In.)
 Calculated individual pipe flow = 6.073(CFS)
 Normal flow depth in pipe = 6.56(In.)
 Flow top width inside pipe = 11.95(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 13.83(Ft/s)
 Travel time through pipe = 0.14 min.
 Time of concentration (TC) = 6.31 min.

++++++
 Process from Point/Station 613.000 to Point/Station 727.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
 Stream flow area = 1.440(Ac.)
 Runoff from this stream = 6.073(CFS)
 Time of concentration = 6.31 min.
 Rainfall intensity = 5.670(In/Hr)

++++++
 Process from Point/Station 461.000 to Point/Station 462.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.190
 Decimal fraction soil group D = 0.810
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850

Sub-Area C Value = 0.818
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 557.200(Ft.)
 Lowest elevation = 555.700(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.49 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}]/(\% slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8181)*(75.000^{.5})/(2.000^{(1/3)})]= 3.49$
 Calculated TC of 3.488 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
 Subarea runoff = 0.916(CFS)
 Total initial stream area = 0.170(Ac.)

++++++
 Process from Point/Station 462.000 to Point/Station 463.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 555.700(Ft.)
 End of street segment elevation = 551.800(Ft.)
 Length of street segment = 337.000(Ft.)
 Height of curb above gutter flowline = 6.0(In.)
 Width of half street (curb to crown) = 45.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 2.543(CFS)
 Depth of flow = 0.297(Ft.), Average velocity = 2.420(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 11.285(Ft.)
 Flow velocity = 2.42(Ft/s)
 Travel time = 2.32 min. TC = 5.81 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.980(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Rainfall intensity = 5.980(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.738 CA = 0.686
 Subarea runoff = 3.188(CFS) for 0.760(Ac.)
 Total runoff = 4.104(CFS) Total area = 0.930(Ac.)
 Street flow at end of street = 4.104(CFS)
 Half street flow at end of street = 4.104(CFS)
 Depth of flow = 0.333(Ft.), Average velocity = 2.718(Ft/s)
 Flow width (from curb towards crown)= 13.732(Ft.)

++++++
 Process from Point/Station 463.000 to Point/Station 727.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 548.800(Ft.)
 Downstream point/station elevation = 543.000(Ft.)
 Pipe length = 189.00(Ft.) Slope = 0.0307 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 4.104(CFS)
 Nearest computed pipe diameter = 12.00(In.)
 Calculated individual pipe flow = 4.104(CFS)

Normal flow depth in pipe = 7.10(In.)
Flow top width inside pipe = 11.80(In.)
Critical Depth = 10.28(In.)
Pipe flow velocity = 8.48(Ft/s)
Travel time through pipe = 0.37 min.
Time of concentration (TC) = 6.18 min.

Process from Point/Station 463.000 to Point/Station 727.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
Stream flow area = 0.930(Ac.)
Runoff from this stream = 4.104(CFS)
Time of concentration = 6.18 min.
Rainfall intensity = 5.745(In/Hr)

Process from Point/Station 471.000 to Point/Station 727.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 558.800(Ft.)
Lowest elevation = 557.300(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = $[1.8*(1.1-C)*distance(Ft.)^0.5]/(%\ slope^{(1/3)})]$
TC = $[1.8*(1.1-0.8181)*(75.000^0.5)/(2.000^{(1/3)})]= 3.49$
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.808(CFS)
Total initial stream area = 0.150(Ac.)

Process from Point/Station 472.000 to Point/Station 473.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.733 CA = 0.850
Subarea runoff = 4.790(CFS) for 1.010(Ac.)
Total runoff = 5.598(CFS) Total area = 1.160(Ac.)

Process from Point/Station 473.000 to Point/Station 474.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 553.500(Ft.)
 End of street segment elevation = 552.700(Ft.)
 Length of street segment = 266.000(Ft.)
 Height of curb above gutter flowline = 6.0(In.)
 Width of half street (curb to crown) = 64.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 7.548 (CFS)
 Depth of flow = 0.468(Ft.), Average velocity = 1.904(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 22.710(Ft.)
 Flow velocity = 1.90(Ft/s)
 Travel time = 2.33 min. TC = 5.82 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.975(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Rainfall intensity = 5.975(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.727 CA = 1.577
 Subarea runoff = 3.825(CFS) for 1.010(Ac.)
 Total runoff = 9.423(CFS) Total area = 2.170(Ac.)
 Street flow at end of street = 9.423(CFS)
 Half street flow at end of street = 9.423(CFS)
 Depth of flow = 0.498(Ft.), Average velocity = 2.013(Ft/s)
 Flow width (from curb towards crown)= 24.728(Ft.)

++++++
 Process from Point/Station 474.000 to Point/Station 727.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 3
 Stream flow area = 2.170(Ac.)
 Runoff from this stream = 9.423(CFS)
 Time of concentration = 5.82 min.
 Rainfall intensity = 5.975(In/Hr)

++++++
 Process from Point/Station 481.000 to Point/Station 482.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.190
 Decimal fraction soil group D = 0.810
 [COMMERCIAL area type]
 (General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.818
 Initial subarea total flow distance = 75.000(Ft.)
 Highest elevation = 560.000(Ft.)
 Lowest elevation = 558.500(Ft.)
 Elevation difference = 1.500(Ft.) Slope = 2.000 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 2.00 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.49 minutes
 $TC = [1.8 * (1.1 - C) * distance(Ft.)^{.5}] / (% slope^{(1/3)})]$
 $TC = [1.8 * (1.1 - 0.8181) * (75.000^{.5})] / (2.000^{(1/3)}) = 3.49$

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 1.024(CFS)
Total initial stream area = 0.190(Ac.)

Process from Point/Station 482.000 to Point/Station 483.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.732 CA = 1.127
Subarea runoff = 6.402(CFS) for 1.350(Ac.)
Total runoff = 7.426(CFS) Total area = 1.540(Ac.)

Process from Point/Station 483.000 to Point/Station 484.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 554.700(Ft.)
End of street segment elevation = 553.600(Ft.)
Length of street segment = 207.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 8.921(CFS)
Depth of flow = 0.453(Ft.), Average velocity = 2.458(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 21.707(Ft.)
Flow velocity = 2.46(Ft/s)
Travel time = 1.40 min. TC = 4.89 min.

Adding area flow to street
Calculated TC of 4.891 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.729 CA = 1.574
Subarea runoff = 2.940(CFS) for 0.620(Ac.)
Total runoff = 10.367(CFS) Total area = 2.160(Ac.)
Street flow at end of street = 10.367(CFS)
Half street flow at end of street = 10.367(CFS)
Depth of flow = 0.472(Ft.), Average velocity = 2.552(Ft/s)
Flow width (from curb towards crown)= 22.998(Ft.)

Process from Point/Station 484.000 to Point/Station 727.000
**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 4

Stream flow area = 2.160 (Ac.)
Runoff from this stream = 10.367 (CFS)
Time of concentration = 4.89 min.
Rainfall intensity = 6.587 (In/Hr)

Process from Point/Station 491.000 to Point/Station 492.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 70.000 (Ft.)
Highest elevation = 563.800 (Ft.)
Lowest elevation = 562.400 (Ft.)
Elevation difference = 1.400 (Ft.) Slope = 2.000 %
Top of Initial Area Slope adjusted by User to 1.667 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 1.67 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.71 minutes
TC = $[1.8 * (1.1 - C) * \text{distance (Ft.)}^0.5] / (\% \text{ slope}^{1/3})$
TC = $[1.8 * (1.1 - 0.8181) * (75.000^0.5)] / (1.667^{1/3}) = 3.71$
Calculated TC of 3.706 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.162 (CFS)
Total initial stream area = 0.030 (Ac.)

Process from Point/Station 492.000 to Point/Station 493.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 562.400 (Ft.)
End of street segment elevation = 552.400 (Ft.)
Length of street segment = 850.000 (Ft.)
Height of curb above gutter flowline = 8.0 (In.)
Width of half street (curb to crown) = 57.000 (Ft.)
Distance from crown to crossfall grade break = 0.500 (Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000 (Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500 (Ft.)
Gutter hike from flowline = 1.800 (In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 3.244 (CFS)
Depth of flow = 0.314 (Ft.), Average velocity = 2.583 (Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 12.439 (Ft.)
Flow velocity = 2.58 (Ft/s)
Travel time = 5.49 min. TC = 9.19 min.
Adding area flow to street
Rainfall intensity (I) = 4.448 (In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 4.448 (In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.721 CA = 1.443

Subarea runoff = 6.256(CFS) for 1.970(Ac.)
 Total runoff = 6.418(CFS) Total area = 2.000(Ac.)
 Street flow at end of street = 6.418(CFS)
 Half street flow at end of street = 6.418(CFS)
 Depth of flow = 0.373(Ft.), Average velocity = 3.053(Ft/s)
 Flow width (from curb towards crown)= 16.356(Ft.)

 Process from Point/Station 493.000 to Point/Station 727.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 549.400(Ft.)
 Downstream point/station elevation = 543.000(Ft.)
 Pipe length = 23.00(Ft.) Slope = 0.2783 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 6.418(CFS)
 Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 6.418(CFS)
 Normal flow depth in pipe = 5.74(In.)
 Flow top width inside pipe = 8.65(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 21.59(Ft/s)
 Travel time through pipe = 0.02 min.
 Time of concentration (TC) = 9.21 min.

 Process from Point/Station 493.000 to Point/Station 727.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 5
 Stream flow area = 2.000(Ac.)
 Runoff from this stream = 6.418(CFS)
 Time of concentration = 9.21 min.
 Rainfall intensity = 4.442(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	6.073	6.31	5.670
2	4.104	6.18	5.745
3	9.423	5.82	5.975
4	10.367	4.89	6.587
5	6.418	9.21	4.442
Qmax(1) =			
	1.000 *	1.000 *	6.073) +
	0.987 *	1.000 *	4.104) +
	0.949 *	1.000 *	9.423) +
	0.861 *	1.000 *	10.367) +
	1.000 *	0.685 *	6.418) + = 32.386
Qmax(2) =			
	1.000 *	0.980 *	6.073) +
	1.000 *	1.000 *	4.104) +
	0.962 *	1.000 *	9.423) +
	0.872 *	1.000 *	10.367) +
	1.000 *	0.671 *	6.418) + = 32.464
Qmax(3) =			
	1.000 *	0.922 *	6.073) +
	1.000 *	0.941 *	4.104) +
	1.000 *	1.000 *	9.423) +
	0.907 *	1.000 *	10.367) +
	1.000 *	0.632 *	6.418) + = 32.341
Qmax(4) =			
	1.000 *	0.775 *	6.073) +
	1.000 *	0.791 *	4.104) +
	1.000 *	0.841 *	9.423) +
	1.000 *	1.000 *	10.367) +
	1.000 *	0.531 *	6.418) + = 29.658
Qmax(5) =			

```

0.783 * 1.000 * 6.073) +
0.773 * 1.000 * 4.104) +
0.743 * 1.000 * 9.423) +
0.674 * 1.000 * 10.367) +
1.000 * 1.000 * 6.418) + = 28.345

```

```

Total of 5 streams to confluence:
Flow rates before confluence point:
    6.073    4.104    9.423    10.367    6.418
Maximum flow rates at confluence using above data:
    32.386    32.464    32.341    29.658    28.345
Area of streams before confluence:
    1.440    0.930    2.170    2.160    2.000
Results of confluence:
Total flow rate = 32.464(CFS)
Time of concentration = 6.180 min.
Effective stream area after confluence = 8.700(Ac.)

```

```

*****
Process from Point/Station 727.000 to Point/Station 727.000
**** CONFLUENCE OF MAIN STREAMS ****

```

```

The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area = 8.700(Ac.)
Runoff from this stream = 32.464(CFS)
Time of concentration = 6.18 min.
Rainfall intensity = 5.745(In/Hr)
Program is now starting with Main Stream No. 2

```

```

*****
Process from Point/Station 621.000 to Point/Station 622.000
**** INITIAL AREA EVALUATION ****

```

```

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type ]
(General Commercial )
Impervious value, Ai = 0.850
Sub-Area C Value = 0.818
Initial subarea total flow distance = 75.000(Ft.)
Highest elevation = 568.700(Ft.)
Lowest elevation = 567.200(Ft.)
Elevation difference = 1.500(Ft.) Slope = 2.000 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 75.00 (Ft)
for the top area slope value of 2.00 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 3.49 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3)]
TC = [1.8*(1.1-0.8181)*( 75.000^0.5)/( 2.000^(1/3))]= 3.49
Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
Subarea runoff = 0.808(CFS)
Total initial stream area = 0.150(Ac.)

```

```

*****
Process from Point/Station 622.000 to Point/Station 623.000
**** SUBAREA FLOW ADDITION ****

```

```

Calculated TC of 3.488 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm

```

User specified 'C' value of 0.720 given for subarea
Time of concentration = 3.49 min.
Rainfall intensity = 6.587(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=K CIA) is C = 0.731 CA = 1.023
Subarea runoff = 5.928(CFS) for 1.250(Ac.)
Total runoff = 6.736(CFS) Total area = 1.400(Ac.)

Process from Point/Station 623.000 to Point/Station 624.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 562.600(Ft.)
End of street segment elevation = 558.500(Ft.)
Length of street segment = 374.000(Ft.)
Height of curb above gutter flowline = 6.0(In.)
Width of half street (curb to crown) = 64.000(Ft.)
Distance from crown to crossfall grade break = 0.500(Ft.)
Slope from gutter to grade break (v/hz) = 0.015
Slope from grade break to crown (v/hz) = 0.015
Street flow is on [1] side(s) of the street
Distance from curb to property line = 0.000(Ft.)
Slope from curb to property line (v/hz) = 0.000
Gutter width = 1.500(Ft.)
Gutter hike from flowline = 1.800(In.)
Manning's N in gutter = 0.0150
Manning's N from gutter to grade break = 0.0130
Manning's N from grade break to crown = 0.0130
Estimated mean flow rate at midpoint of street = 8.952(CFS)
Depth of flow = 0.411(Ft.), Average velocity = 3.229(Ft/s)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width = 18.893(Ft.)
Flow velocity = 3.23(Ft/s)
Travel time = 1.93 min. TC = 5.42 min.
Adding area flow to street
Rainfall intensity (I) = 6.254(In/Hr) for a 1.0 year storm
User specified 'C' value of 0.720 given for subarea
Rainfall intensity = 6.254(In/Hr) for a 1.0 year storm
Effective runoff coefficient used for total area
(Q=K CIA) is C = 0.726 CA = 1.772
Subarea runoff = 4.343(CFS) for 1.040(Ac.)
Total runoff = 11.079(CFS) Total area = 2.440(Ac.)
Street flow at end of street = 11.079(CFS)
Half street flow at end of street = 11.079(CFS)
Depth of flow = 0.435(Ft.), Average velocity = 3.405(Ft/s)
Flow width (from curb towards crown)= 20.522(Ft.)

Process from Point/Station 624.000 to Point/Station 727.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area = 2.440(Ac.)
Runoff from this stream = 11.079(CFS)
Time of concentration = 5.42 min.
Rainfall intensity = 6.254(In/Hr)
Program is now starting with Main Stream No. 3

Process from Point/Station 631.000 to Point/Station 632.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.190
Decimal fraction soil group D = 0.810
[COMMERCIAL area type]

(General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.818
 Initial subarea total flow distance = 86.000(Ft.)
 Highest elevation = 586.000(Ft.)
 Lowest elevation = 583.000(Ft.)
 Elevation difference = 3.000(Ft.) Slope = 3.488 %
 Top of Initial Area Slope adjusted by User to 3.400 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 85.00 (Ft)
 for the top area slope value of 3.40 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.11 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^{.5}]/(% slope^{(1/3)})]$
 $TC = [1.8*(1.1-0.8181)*(85.000^{.5})/(3.400^{(1/3)})]= 3.11$
 Calculated TC of 3.111 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.818
 Subarea runoff = 0.593(CFS)
 Total initial stream area = 0.110(Ac.)

 Process from Point/Station 632.000 to Point/Station 633.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 583.000(Ft.)
 End of street segment elevation = 561.700(Ft.)
 Length of street segment = 680.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 57.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 2.936(CFS)
 Depth of flow = 0.273(Ft.), Average velocity = 3.659(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 9.706(Ft.)
 Flow velocity = 3.66(Ft/s)
 Travel time = 3.10 min. TC = 6.21 min.
 Adding area flow to street
 Rainfall intensity (I) = 5.729(In/Hr) for a 1.0 year storm
 User specified 'C' value of 0.720 given for subarea
 Rainfall intensity = 5.729(In/Hr) for a 1.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.729 CA = 0.911
 Subarea runoff = 4.625(CFS) for 1.140(Ac.)
 Total runoff = 5.218(CFS) Total area = 1.250(Ac.)
 Street flow at end of street = 5.218(CFS)
 Half street flow at end of street = 5.218(CFS)
 Depth of flow = 0.313(Ft.), Average velocity = 4.199(Ft/s)
 Flow width (from curb towards crown)= 12.366(Ft.)

 Process from Point/Station 633.000 to Point/Station 727.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 558.700(Ft.)
 Downstream point/station elevation = 543.000(Ft.)
 Pipe length = 45.00(Ft.) Slope = 0.3489 Manning's N = 0.013

No. of pipes = 1 Required pipe flow = 5.218 (CFS)
 Nearest computed pipe diameter = 9.00 (In.)
 Calculated individual pipe flow = 5.218 (CFS)
 Normal flow depth in pipe = 4.68 (In.)
 Flow top width inside pipe = 8.99 (In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 22.49 (Ft/s)
 Travel time through pipe = 0.03 min.
 Time of concentration (TC) = 6.24 min.

 Process from Point/Station 633.000 to Point/Station 727.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 3
 Stream flow area = 1.250 (Ac.)
 Runoff from this stream = 5.218 (CFS)
 Time of concentration = 6.24 min.
 Rainfall intensity = 5.709 (In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	32.464	6.18	5.745
2	11.079	5.42	6.254
3	5.218	6.24	5.709
Qmax(1) =			
	1.000 *	1.000 *	32.464) +
	0.919 *	1.000 *	11.079) +
	1.000 *	0.990 *	5.218) + = 47.809
Qmax(2) =			
	1.000 *	0.877 *	32.464) +
	1.000 *	1.000 *	11.079) +
	1.000 *	0.868 *	5.218) + = 44.072
Qmax(3) =			
	0.994 *	1.000 *	32.464) +
	0.913 *	1.000 *	11.079) +
	1.000 *	1.000 *	5.218) + = 47.590

Total of 3 main streams to confluence:
 Flow rates before confluence point:
 32.464 11.079 5.218
 Maximum flow rates at confluence using above data:
 47.809 44.072 47.590
 Area of streams before confluence:
 8.700 2.440 1.250

Results of confluence:
 Total flow rate = 47.809 (CFS)
 Time of concentration = 6.180 min.
 Effective stream area after confluence = 12.390 (Ac.)

 Process from Point/Station 727.000 to Point/Station 727.000
 **** 6 HOUR HYDROGRAPH ****

 Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 6.18
 Basin Area = 12.39 Acres
 6 Hour Rainfall = 2.500 Inches
 Runoff Coefficient = 0.728
 Peak Discharge = 47.81 CFS

Time (Min)	Discharge (CFS)
0	0.000
6	1.344
12	1.359
18	1.390
24	1.406
30	1.439
36	1.457
42	1.494
48	1.513
54	1.554
60	1.576
66	1.621
72	1.645
78	1.696
84	1.722
90	1.780
96	1.810
102	1.875
108	1.910
114	1.985
120	2.026
126	2.113
132	2.161
138	2.265
144	2.321
150	2.447
156	2.517
162	2.672
168	2.760
174	2.960
180	3.074
186	3.342
192	3.499
198	3.881
204	4.116
210	4.718
216	5.115
222	6.252
228	7.121
234	10.457
240	14.733
246	47.809
252	8.387
258	5.611
264	4.391
270	3.678
276	3.201
282	2.855
288	2.592
294	2.382
300	2.211
306	2.068
312	1.947
318	1.842
324	1.750
330	1.670
336	1.598
342	1.533
348	1.475
354	1.422
360	1.374
366	1.330

+++++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals ((CFS))

Time (h+m) Volume Ac.Ft Q(CFS) 0 12.0 23.9 35.9 47.8

0+ 0	0.0000	0.00	Q				
0+ 1	0.0003	0.22	Q				
0+ 2	0.0009	0.45	Q				
0+ 3	0.0019	0.67	Q				
0+ 4	0.0031	0.90	Q				
0+ 5	0.0046	1.12	Q				
0+ 6	0.0065	1.34	VQ				
0+ 7	0.0083	1.35	VQ				
0+ 8	0.0102	1.35	VQ				
0+ 9	0.0121	1.35	VQ				
0+10	0.0139	1.35	VQ				
0+11	0.0158	1.36	VQ				
0+12	0.0177	1.36	VQ				
0+13	0.0195	1.36	VQ				
0+14	0.0214	1.37	VQ				
0+15	0.0233	1.37	VQ				
0+16	0.0252	1.38	VQ				
0+17	0.0271	1.38	VQ				
0+18	0.0290	1.39	VQ				
0+19	0.0310	1.39	VQ				
0+20	0.0329	1.39	VQ				
0+21	0.0348	1.40	VQ				
0+22	0.0367	1.40	VQ				
0+23	0.0387	1.40	VQ				
0+24	0.0406	1.41	VQ				
0+25	0.0425	1.41	VQ				
0+26	0.0445	1.42	VQ				
0+27	0.0465	1.42	IQ				
0+28	0.0484	1.43	IQ				
0+29	0.0504	1.43	IQ				
0+30	0.0524	1.44	IQ				
0+31	0.0544	1.44	IQ				
0+32	0.0564	1.45	IQ				
0+33	0.0583	1.45	IQ				
0+34	0.0603	1.45	IQ				
0+35	0.0623	1.45	IQ				
0+36	0.0644	1.46	IQ				
0+37	0.0664	1.46	IQ				
0+38	0.0684	1.47	IQ				
0+39	0.0704	1.48	IQ				
0+40	0.0725	1.48	IQ				
0+41	0.0745	1.49	IQ				
0+42	0.0766	1.49	IQ				
0+43	0.0786	1.50	IQ				
0+44	0.0807	1.50	IQ				
0+45	0.0828	1.50	IQ				
0+46	0.0849	1.51	IQ				
0+47	0.0869	1.51	IQ				
0+48	0.0890	1.51	IQ				
0+49	0.0911	1.52	IQ				
0+50	0.0932	1.53	IQV				
0+51	0.0953	1.53	IQV				
0+52	0.0974	1.54	IQV				
0+53	0.0996	1.55	IQV				
0+54	0.1017	1.55	IQV				
0+55	0.1039	1.56	IQV				
0+56	0.1060	1.56	IQV				
0+57	0.1082	1.56	IQV				
0+58	0.1103	1.57	IQV				
0+59	0.1125	1.57	IQV				
1+ 0	0.1147	1.58	IQV				
1+ 1	0.1168	1.58	IQV				
1+ 2	0.1190	1.59	IQV				
1+ 3	0.1212	1.60	IQV				
1+ 4	0.1235	1.61	IQV				
1+ 5	0.1257	1.61	IQV				
1+ 6	0.1279	1.62	IQV				
1+ 7	0.1301	1.62	IQV				
1+ 8	0.1324	1.63	IQV				
1+ 9	0.1346	1.63	IQV				

1+10	0.1369	1.64	QV				
1+11	0.1392	1.64	Q V				
1+12	0.1414	1.64	Q V				
1+13	0.1437	1.65	Q V				
1+14	0.1460	1.66	Q V				
1+15	0.1483	1.67	Q V				
1+16	0.1506	1.68	Q V				
1+17	0.1529	1.69	Q V				
1+18	0.1553	1.70	Q V				
1+19	0.1576	1.70	Q V				
1+20	0.1599	1.70	Q V				
1+21	0.1623	1.71	Q V				
1+22	0.1647	1.71	Q V				
1+23	0.1670	1.72	Q V				
1+24	0.1694	1.72	Q V				
1+25	0.1718	1.73	Q V				
1+26	0.1742	1.74	Q V				
1+27	0.1766	1.75	Q V				
1+28	0.1790	1.76	Q V				
1+29	0.1815	1.77	Q V				
1+30	0.1839	1.78	Q V				
1+31	0.1864	1.78	Q V				
1+32	0.1888	1.79	Q V				
1+33	0.1913	1.79	Q V				
1+34	0.1938	1.80	Q V				
1+35	0.1963	1.81	Q V				
1+36	0.1988	1.81	Q V				
1+37	0.2013	1.82	Q V				
1+38	0.2038	1.83	Q V				
1+39	0.2063	1.84	Q V				
1+40	0.2089	1.85	Q V				
1+41	0.2115	1.86	Q V				
1+42	0.2140	1.88	Q V				
1+43	0.2166	1.88	Q V				
1+44	0.2192	1.89	Q V				
1+45	0.2218	1.89	Q V				
1+46	0.2244	1.90	Q V				
1+47	0.2271	1.90	Q V				
1+48	0.2297	1.91	Q V				
1+49	0.2324	1.92	Q V				
1+50	0.2350	1.94	Q V				
1+51	0.2377	1.95	Q V				
1+52	0.2404	1.96	Q V				
1+53	0.2431	1.97	Q V				
1+54	0.2459	1.99	Q V				
1+55	0.2486	1.99	Q V				
1+56	0.2513	2.00	Q V				
1+57	0.2541	2.01	Q V				
1+58	0.2569	2.01	Q V				
1+59	0.2597	2.02	Q V				
2+ 0	0.2625	2.03	Q V				
2+ 1	0.2653	2.04	Q V				
2+ 2	0.2681	2.05	Q V				
2+ 3	0.2709	2.07	Q V				
2+ 4	0.2738	2.08	Q V				
2+ 5	0.2767	2.10	Q V				
2+ 6	0.2796	2.11	Q V				
2+ 7	0.2825	2.12	Q V				
2+ 8	0.2855	2.13	Q V				
2+ 9	0.2884	2.14	Q V				
2+10	0.2914	2.14	Q V				
2+11	0.2943	2.15	Q V				
2+12	0.2973	2.16	Q V				
2+13	0.3003	2.18	Q V				
2+14	0.3033	2.20	Q V				
2+15	0.3064	2.21	Q V				
2+16	0.3094	2.23	Q V				
2+17	0.3125	2.25	Q V				
2+18	0.3157	2.26	Q V				
2+19	0.3188	2.27	Q V				
2+20	0.3219	2.28	Q V				

2+21	0.3251	2.29	Q	V					
2+22	0.3283	2.30	Q	V					
2+23	0.3315	2.31	Q	V					
2+24	0.3347	2.32	Q	V					
2+25	0.3379	2.34	Q	V					
2+26	0.3411	2.36	Q	V					
2+27	0.3444	2.38	Q	V					
2+28	0.3477	2.41	Q	V					
2+29	0.3511	2.43	Q	V					
2+30	0.3544	2.45	Q	V					
2+31	0.3578	2.46	Q	V					
2+32	0.3612	2.47	Q	V					
2+33	0.3647	2.48	Q	V					
2+34	0.3681	2.49	Q	V					
2+35	0.3715	2.51	Q	V					
2+36	0.3750	2.52	Q	V					
2+37	0.3785	2.54	Q	V					
2+38	0.3820	2.57	Q	V					
2+39	0.3856	2.59	Q	V					
2+40	0.3892	2.62	Q	V					
2+41	0.3929	2.65	Q	V					
2+42	0.3966	2.67	Q	V					
2+43	0.4003	2.69	Q	V					
2+44	0.4040	2.70	Q	V					
2+45	0.4077	2.72	Q	V					
2+46	0.4115	2.73	Q	V					
2+47	0.4153	2.75	Q	V					
2+48	0.4191	2.76	Q	V					
2+49	0.4229	2.79	Q	V					
2+50	0.4268	2.83	Q	V					
2+51	0.4307	2.86	Q	V					
2+52	0.4347	2.89	Q	V					
2+53	0.4388	2.93	Q	V					
2+54	0.4428	2.96	Q	V					
2+55	0.4469	2.98	Q	V					
2+56	0.4511	3.00	Q	V					
2+57	0.4552	3.02	Q	V					
2+58	0.4594	3.04	Q	V					
2+59	0.4636	3.06	Q	V					
3+ 0	0.4678	3.07	Q	V					
3+ 1	0.4721	3.12	Q	V					
3+ 2	0.4765	3.16	Q	V					
3+ 3	0.4809	3.21	Q	V					
3+ 4	0.4854	3.25	Q	V					
3+ 5	0.4899	3.30	Q	V					
3+ 6	0.4945	3.34	Q	V					
3+ 7	0.4992	3.37	Q	V					
3+ 8	0.5039	3.39	Q	V					
3+ 9	0.5086	3.42	Q	V					
3+10	0.5133	3.45	Q	V					
3+11	0.5181	3.47	Q	V					
3+12	0.5229	3.50	Q	V					
3+13	0.5278	3.56	Q	V					
3+14	0.5328	3.63	Q	V					
3+15	0.5379	3.69	Q	V					
3+16	0.5431	3.75	Q	V					
3+17	0.5483	3.82	Q	V					
3+18	0.5537	3.88	Q	V					
3+19	0.5591	3.92	Q	V					
3+20	0.5645	3.96	Q	V					
3+21	0.5700	4.00	Q	V					
3+22	0.5756	4.04	Q	V					
3+23	0.5812	4.08	Q	V					
3+24	0.5869	4.12	Q	V					
3+25	0.5927	4.22	Q	V					
3+26	0.5986	4.32	Q	V					
3+27	0.6047	4.42	Q	V					
3+28	0.6109	4.52	Q	V					
3+29	0.6173	4.62	Q	V					
3+30	0.6238	4.72	Q	V					
3+31	0.6304	4.78	Q	V					

4+43	1.6226	2.81	Q				V	
4+44	1.6264	2.77	Q				V	
4+45	1.6302	2.72	Q				V	
4+46	1.6339	2.68	Q				V	
4+47	1.6375	2.64	Q				V	
4+48	1.6411	2.59	Q				V	
4+49	1.6446	2.56	Q				V	
4+50	1.6480	2.52	Q				V	
4+51	1.6515	2.49	Q				V	
4+52	1.6548	2.45	Q				V	
4+53	1.6582	2.42	Q				V	
4+54	1.6615	2.38	Q				V	
4+55	1.6647	2.35	Q				V	
4+56	1.6679	2.33	Q				V	
4+57	1.6711	2.30	Q				V	
4+58	1.6742	2.27	Q				V	
4+59	1.6773	2.24	Q				V	
5+ 0	1.6803	2.21	Q				V	
5+ 1	1.6833	2.19	Q				V	
5+ 2	1.6863	2.16	Q				V	
5+ 3	1.6893	2.14	Q				V	
5+ 4	1.6922	2.12	Q				V	
5+ 5	1.6951	2.09	Q				V	
5+ 6	1.6979	2.07	Q				V	
5+ 7	1.7007	2.05	Q				V	
5+ 8	1.7035	2.03	Q				V	
5+ 9	1.7063	2.01	Q				V	
5+10	1.7090	1.99	Q				V	
5+11	1.7117	1.97	Q				V	
5+12	1.7144	1.95	Q				V	
5+13	1.7171	1.93	Q				V	
5+14	1.7197	1.91	Q				V	
5+15	1.7223	1.89	Q				V	
5+16	1.7249	1.88	Q				V	
5+17	1.7275	1.86	Q				V	
5+18	1.7300	1.84	Q				V	
5+19	1.7325	1.83	Q				V	
5+20	1.7350	1.81	Q				V	
5+21	1.7375	1.80	Q				V	
5+22	1.7399	1.78	Q				V	
5+23	1.7424	1.77	Q				V	
5+24	1.7448	1.75	Q				V	
5+25	1.7472	1.74	Q				V	
5+26	1.7495	1.72	Q				V	
5+27	1.7519	1.71	Q				V	
5+28	1.7542	1.70	Q				V	
5+29	1.7566	1.68	Q				V	
5+30	1.7589	1.67	Q				V	
5+31	1.7611	1.66	Q				V	
5+32	1.7634	1.65	Q				V	
5+33	1.7657	1.63	Q				V	
5+34	1.7679	1.62	Q				V	
5+35	1.7701	1.61	Q				V	
5+36	1.7723	1.60	Q				V	
5+37	1.7745	1.59	Q				V	
5+38	1.7767	1.58	Q				V	
5+39	1.7788	1.57	Q				V	
5+40	1.7810	1.55	Q				V	
5+41	1.7831	1.54	Q				V	
5+42	1.7852	1.53	Q				V	
5+43	1.7873	1.52	Q				V	
5+44	1.7894	1.51	Q				V	
5+45	1.7915	1.50	Q				V	
5+46	1.7935	1.49	Q				V	
5+47	1.7956	1.48	Q				V	
5+48	1.7976	1.48	Q				V	
5+49	1.7996	1.47	Q				V	
5+50	1.8016	1.46	Q				V	
5+51	1.8036	1.45	Q				V	
5+52	1.8056	1.44	Q				V	
5+53	1.8076	1.43	Q				V	

5+54	1.8095	1.42	Q				V
5+55	1.8115	1.41	Q				V
5+56	1.8134	1.41	Q				V
5+57	1.8153	1.40	Q				V
5+58	1.8173	1.39	Q				V
5+59	1.8192	1.38	Q				V
6+ 0	1.8211	1.37	Q				V
6+ 1	1.8229	1.37	Q				V
6+ 2	1.8248	1.36	Q				V
6+ 3	1.8267	1.35	Q				V
6+ 4	1.8285	1.34	Q				V
6+ 5	1.8304	1.34	Q				V
6+ 6	1.8322	1.33	Q				V

End of computations, total study area = 12.390 (Ac.)

San Diego County Rational Hydrology Program

CIVILCADD/CIVILDESIGN Engineering Software, (c)1991-2019 Version 9.1

Rational method hydrology program based on
San Diego County Flood Control Division 2003 hydrology manual
Rational Hydrology Study Date: 04/11/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition Basin 7
100160prratbas7

***** Hydrology Study Control Information *****

Program License Serial Number 6490

Rational hydrology study storm event year is 100.0
English (in-lb) input data Units used

Map data precipitation entered:
6 hour, precipitation(inches) = 2.500
24 hour precipitation(inches) = 5.200
P6/P24 = 48.1%
San Diego hydrology manual 'C' values used

+++++
Process from Point/Station 641.000 to Point/Station 642.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.820
Initial subarea total flow distance = 88.000(Ft.)
Highest elevation = 570.700(Ft.)
Lowest elevation = 567.000(Ft.)
Elevation difference = 3.700(Ft.) Slope = 4.205 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 90.00 (Ft)
for the top area slope value of 4.20 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.96 minutes
TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(% slope^(1/3))
TC = [1.8*(1.1-0.8200)*(90.000^0.5)/(4.200^(1/3))]= 2.96
Calculated TC of 2.963 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.820
Subarea runoff = 0.540(CFS)
Total initial stream area = 0.100(Ac.)

+++++
Process from Point/Station 642.000 to Point/Station 643.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 567.000(Ft.)
End of street segment elevation = 565.800(Ft.)
Length of street segment = 246.000(Ft.)

Height of curb above gutter flowline = 6.0(In.)
 Width of half street (curb to crown) = 45.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 1.944(CFS)
 Depth of flow = 0.309(Ft.), Average velocity = 1.634(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 12.076(Ft.)
 Flow velocity = 1.63(Ft/s)
 Travel time = 2.51 min. TC = 5.47 min.
 Adding area flow to street
 Rainfall intensity (I) = 6.214(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.700 given for subarea
 Rainfall intensity = 6.214(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.716 CA = 0.523
 Subarea runoff = 2.710(CFS) for 0.630(Ac.)
 Total runoff = 3.250(CFS) Total area = 0.730(Ac.)
 Street flow at end of street = 3.250(CFS)
 Half street flow at end of street = 3.250(CFS)
 Depth of flow = 0.351(Ft.), Average velocity = 1.853(Ft/s)
 Flow width (from curb towards crown)= 14.871(Ft.)

++++++
 Process from Point/Station 643.000 to Point/Station 738.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 562.800(Ft.)
 Downstream point/station elevation = 562.300(Ft.)
 Pipe length = 104.00(Ft.) Slope = 0.0048 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 3.250(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 3.250(CFS)
 Normal flow depth in pipe = 9.47(In.)
 Flow top width inside pipe = 14.47(In.)
 Critical Depth = 8.71(In.)
 Pipe flow velocity = 3.98(Ft/s)
 Travel time through pipe = 0.44 min.
 Time of concentration (TC) = 5.91 min.

++++++
 Process from Point/Station 643.000 to Point/Station 738.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 1
 Stream flow area = 0.730(Ac.)
 Runoff from this stream = 3.250(CFS)
 Time of concentration = 5.91 min.
 Rainfall intensity = 5.915(In/Hr)

++++++
 Process from Point/Station 671.000 to Point/Station 672.000
 **** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
 Decimal fraction soil group B = 0.000
 Decimal fraction soil group C = 0.000
 Decimal fraction soil group D = 1.000
 [COMMERCIAL area type

(General Commercial)
 Impervious value, Ai = 0.850
 Sub-Area C Value = 0.820
 Initial subarea total flow distance = 72.000(Ft.)
 Highest elevation = 585.700(Ft.)
 Lowest elevation = 584.400(Ft.)
 Elevation difference = 1.300(Ft.) Slope = 1.806 %
 INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
 The maximum overland flow distance is 75.00 (Ft)
 for the top area slope value of 1.80 %, in a development type of
 General Commercial
 In Accordance With Figure 3-3
 Initial Area Time of Concentration = 3.59 minutes
 $TC = [1.8*(1.1-C)*distance(Ft.)^0.5]/(slope^{1/3})$
 $TC = [1.8*(1.1-0.8200)*(75.000^0.5)/(1.800^{1/3})]= 3.59$
 Calculated TC of 3.588 minutes is less than 5 minutes,
 resetting TC to 5.0 minutes for rainfall intensity calculations
 Rainfall intensity (I) = 6.587(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for area (Q=KCIA) is C = 0.820
 Subarea runoff = 0.594(CFS)
 Total initial stream area = 0.110(Ac.)

 Process from Point/Station 672.000 to Point/Station 673.000
 **** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 584.400(Ft.)
 End of street segment elevation = 571.000(Ft.)
 Length of street segment = 827.000(Ft.)
 Height of curb above gutter flowline = 8.0(In.)
 Width of half street (curb to crown) = 38.000(Ft.)
 Distance from crown to crossfall grade break = 0.500(Ft.)
 Slope from gutter to grade break (v/hz) = 0.015
 Slope from grade break to crown (v/hz) = 0.015
 Street flow is on [1] side(s) of the street
 Distance from curb to property line = 0.000(Ft.)
 Slope from curb to property line (v/hz) = 0.000
 Gutter width = 1.500(Ft.)
 Gutter hike from flowline = 1.800(In.)
 Manning's N in gutter = 0.0150
 Manning's N from gutter to grade break = 0.0130
 Manning's N from grade break to crown = 0.0130
 Estimated mean flow rate at midpoint of street = 2.135(CFS)
 Depth of flow = 0.274(Ft.), Average velocity = 2.639(Ft/s)
 Streetflow hydraulics at midpoint of street travel:
 Halfstreet flow width = 9.753(Ft.)
 Flow velocity = 2.64(Ft/s)
 Travel time = 5.22 min. TC = 8.81 min.
 Adding area flow to street
 Rainfall intensity (I) = 4.570(In/Hr) for a 100.0 year storm
 User specified 'C' value of 0.700 given for subarea
 Rainfall intensity = 4.570(In/Hr) for a 100.0 year storm
 Effective runoff coefficient used for total area
 (Q=KCIA) is C = 0.712 CA = 0.783
 Subarea runoff = 2.985(CFS) for 0.990(Ac.)
 Total runoff = 3.580(CFS) Total area = 1.100(Ac.)
 Street flow at end of street = 3.580(CFS)
 Half street flow at end of street = 3.580(CFS)
 Depth of flow = 0.309(Ft.), Average velocity = 2.986(Ft/s)
 Flow width (from curb towards crown)= 12.128(Ft.)

 Process from Point/Station 673.000 to Point/Station 738.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 568.000(Ft.)
 Downstream point/station elevation = 562.300(Ft.)
 Pipe length = 66.00(Ft.) Slope = 0.0864 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 3.580(CFS)

Nearest computed pipe diameter = 9.00(In.)
 Calculated individual pipe flow = 3.580(CFS)
 Normal flow depth in pipe = 5.74(In.)
 Flow top width inside pipe = 8.65(In.)
 Critical depth could not be calculated.
 Pipe flow velocity = 12.03(Ft/s)
 Travel time through pipe = 0.09 min.
 Time of concentration (TC) = 8.90 min.

++++++
 Process from Point/Station 672.000 to Point/Station 738.000
 **** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 1 in normal stream number 2
 Stream flow area = 1.100(Ac.)
 Runoff from this stream = 3.580(CFS)
 Time of concentration = 8.90 min.
 Rainfall intensity = 4.540(In/Hr)
 Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
1	3.250	5.91	5.915
2	3.580	8.90	4.540
Qmax(1) =			
	1.000 *	1.000 *	3.250) +
	1.000 *	0.664 *	3.580) + = 5.626
Qmax(2) =			
	0.768 *	1.000 *	3.250) +
	1.000 *	1.000 *	3.580) + = 6.074

Total of 2 streams to confluence:
 Flow rates before confluence point:
 3.250 3.580
 Maximum flow rates at confluence using above data:
 5.626 6.074
 Area of streams before confluence:
 0.730 1.100
 Results of confluence:
 Total flow rate = 6.074(CFS)
 Time of concentration = 8.903 min.
 Effective stream area after confluence = 1.830(Ac.)

++++++
 Process from Point/Station 738.000 to Point/Station 739.000
 **** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 562.300(Ft.)
 Downstream point/station elevation = 555.000(Ft.)
 Pipe length = 784.00(Ft.) Slope = 0.0093 Manning's N = 0.013
 No. of pipes = 1 Required pipe flow = 6.074(CFS)
 Nearest computed pipe diameter = 15.00(In.)
 Calculated individual pipe flow = 6.074(CFS)
 Normal flow depth in pipe = 11.95(In.)
 Flow top width inside pipe = 12.07(In.)
 Critical Depth = 11.95(In.)
 Pipe flow velocity = 5.79(Ft/s)
 Travel time through pipe = 2.26 min.
 Time of concentration (TC) = 11.16 min.

++++++
 Process from Point/Station 738.000 to Point/Station 739.000
 **** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:
 In Main Stream number: 1

Stream flow area = 1.830 (Ac.)
Runoff from this stream = 6.074 (CFS)
Time of concentration = 11.16 min.
Rainfall intensity = 3.924 (In/Hr)
Program is now starting with Main Stream No. 2

Process from Point/Station 661.000 to Point/Station 662.000
**** INITIAL AREA EVALUATION ****

Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 1.000
[COMMERCIAL area type]
(General Commercial)
Impervious value, Ai = 0.850
Sub-Area C Value = 0.820
Initial subarea total flow distance = 95.000 (Ft.)
Highest elevation = 575.600 (Ft.)
Lowest elevation = 568.500 (Ft.)
Elevation difference = 7.100 (Ft.) Slope = 7.474 %
Top of Initial Area Slope adjusted by User to 7.500 %
INITIAL AREA TIME OF CONCENTRATION CALCULATIONS:
The maximum overland flow distance is 100.00 (Ft)
for the top area slope value of 7.50 %, in a development type of
General Commercial
In Accordance With Figure 3-3
Initial Area Time of Concentration = 2.57 minutes
TC = $[1.8 * (1.1 - C) * \text{distance (Ft.)}^{.5}] / (\% \text{ slope}^{(1/3)})]$
TC = $[1.8 * (1.1 - 0.8200) * (100.000^{.5})] / (7.500^{(1/3)}) = 2.57$
Calculated TC of 2.575 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.820
Subarea runoff = 0.540 (CFS)
Total initial stream area = 0.100 (Ac.)

Process from Point/Station 662.000 to Point/Station 663.000
**** SUBAREA FLOW ADDITION ****

Calculated TC of 2.575 minutes is less than 5 minutes,
resetting TC to 5.0 minutes for rainfall intensity calculations
Rainfall intensity (I) = 6.587 (In/Hr) for a 100.0 year storm
User specified 'C' value of 0.700 given for subarea
Time of concentration = 2.57 min.
Rainfall intensity = 6.587 (In/Hr) for a 100.0 year storm
Effective runoff coefficient used for total area
(Q=KCIA) is C = 0.704 CA = 2.021
Subarea runoff = 12.772 (CFS) for 2.770 (Ac.)
Total runoff = 13.312 (CFS) Total area = 2.870 (Ac.)

Process from Point/Station 663.000 to Point/Station 739.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

In Main Stream number: 2
Stream flow area = 2.870 (Ac.)
Runoff from this stream = 13.312 (CFS)
Time of concentration = 2.57 min.
Rainfall intensity = 6.587 (In/Hr)
Summary of stream data:

Stream No.	Flow rate (CFS)	TC (min)	Rainfall Intensity (In/Hr)
------------	-----------------	----------	----------------------------

1	6.074	11.16	3.924	
2	13.312	2.57	6.587	
Qmax(1) =				
	1.000 *	1.000 *	6.074) +	
	0.596 *	1.000 *	13.312) + =	14.005
Qmax(2) =				
	1.000 *	0.231 *	6.074) +	
	1.000 *	1.000 *	13.312) + =	14.713

Total of 2 main streams to confluence:
Flow rates before confluence point:
6.074 13.312
Maximum flow rates at confluence using above data:
14.005 14.713
Area of streams before confluence:
1.830 2.870

Results of confluence:
Total flow rate = 14.713(CFS)
Time of concentration = 2.575 min.
Effective stream area after confluence = 4.700 (Ac.)

Process from Point/Station 739.000 to Point/Station 739.000
**** 6 HOUR HYDROGRAPH ****

Hydrograph Data - Section 6, San Diego County Hydrology manual, June 2003

Time of Concentration = 2.57
Basin Area = 4.70 Acres
6 Hour Rainfall = 2.500 Inches
Runoff Coefficient = 0.708
Peak Discharge = 14.71 CFS

Time (Min)	Discharge (CFS)
0	0.000
2	0.494
4	0.496
6	0.499
8	0.501
10	0.505
12	0.507
14	0.511
16	0.513
18	0.517
20	0.519
22	0.523
24	0.525
26	0.529
28	0.531
30	0.535
32	0.538
34	0.542
36	0.544
38	0.549
40	0.551
42	0.556
44	0.558
46	0.563
48	0.566
50	0.571
52	0.573
54	0.579
56	0.581
58	0.587
60	0.590
62	0.595

64	0.598
66	0.604
68	0.607
70	0.613
72	0.616
74	0.622
76	0.626
78	0.632
80	0.635
82	0.642
84	0.646
86	0.653
88	0.657
90	0.664
92	0.668
94	0.676
96	0.680
98	0.688
100	0.692
102	0.700
104	0.705
106	0.714
108	0.718
110	0.728
112	0.732
114	0.742
116	0.747
118	0.758
120	0.763
122	0.774
124	0.780
126	0.791
128	0.797
130	0.809
132	0.816
134	0.829
136	0.835
138	0.849
140	0.856
142	0.871
144	0.879
146	0.895
148	0.903
150	0.920
152	0.928
154	0.947
156	0.956
158	0.976
160	0.986
162	1.007
164	1.018
166	1.041
168	1.053
170	1.079
172	1.092
174	1.120
176	1.134
178	1.165
180	1.181
182	1.215
184	1.233
186	1.271
188	1.291
190	1.334
192	1.356
194	1.405
196	1.431
198	1.488
200	1.518
202	1.584
204	1.619

206	1.697
208	1.740
210	1.834
212	1.886
214	2.003
216	2.068
218	2.218
220	2.304
222	2.504
224	2.622
226	2.908
228	3.084
230	3.535
232	3.833
234	4.686
236	5.337
238	7.836
240	11.041
242	14.713
244	6.285
246	4.205
248	3.290
250	2.756
252	2.399
254	2.140
256	1.942
258	1.785
260	1.657
262	1.550
264	1.459
266	1.380
268	1.312
270	1.251
272	1.197
274	1.149
276	1.105
278	1.066
280	1.030
282	0.996
284	0.966
286	0.937
288	0.911
290	0.887
292	0.864
294	0.842
296	0.822
298	0.803
300	0.785
302	0.768
304	0.752
306	0.737
308	0.723
310	0.709
312	0.696
314	0.684
316	0.672
318	0.660
320	0.649
322	0.639
324	0.629
326	0.619
328	0.610
330	0.601
332	0.592
334	0.584
336	0.576
338	0.568
340	0.561
342	0.554
344	0.547
346	0.540

348 0.533
 350 0.527
 352 0.521
 354 0.515
 356 0.509
 358 0.503
 360 0.498
 362 0.492

+++++

6 - H O U R S T O R M
 R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals ((CFS))

Time (h+m)	Volume Ac.Ft	Q (CFS)	0	3.7	7.4	11.0	14.7
0+ 0	0.0000	0.00	Q				
0+ 1	0.0003	0.25	Q				
0+ 2	0.0010	0.49	VQ				
0+ 3	0.0017	0.49	VQ				
0+ 4	0.0024	0.50	VQ				
0+ 5	0.0031	0.50	VQ				
0+ 6	0.0038	0.50	VQ				
0+ 7	0.0044	0.50	VQ				
0+ 8	0.0051	0.50	VQ				
0+ 9	0.0058	0.50	VQ				
0+10	0.0065	0.51	VQ				
0+11	0.0072	0.51	VQ				
0+12	0.0079	0.51	VQ				
0+13	0.0086	0.51	VQ				
0+14	0.0093	0.51	VQ				
0+15	0.0100	0.51	VQ				
0+16	0.0107	0.51	VQ				
0+17	0.0114	0.51	VQ				
0+18	0.0122	0.52	VQ				
0+19	0.0129	0.52	VQ				
0+20	0.0136	0.52	VQ				
0+21	0.0143	0.52	VQ				
0+22	0.0150	0.52	VQ				
0+23	0.0157	0.52	IQ				
0+24	0.0165	0.52	IQ				
0+25	0.0172	0.53	IQ				
0+26	0.0179	0.53	IQ				
0+27	0.0187	0.53	IQ				
0+28	0.0194	0.53	IQ				
0+29	0.0201	0.53	IQ				
0+30	0.0209	0.54	IQ				
0+31	0.0216	0.54	IQ				
0+32	0.0223	0.54	IQ				
0+33	0.0231	0.54	IQ				
0+34	0.0238	0.54	IQ				
0+35	0.0246	0.54	IQ				
0+36	0.0253	0.54	IQ				
0+37	0.0261	0.55	IQ				
0+38	0.0268	0.55	IQ				
0+39	0.0276	0.55	IQ				
0+40	0.0283	0.55	IQ				
0+41	0.0291	0.55	IQ				
0+42	0.0299	0.56	IQ				
0+43	0.0306	0.56	IQ				
0+44	0.0314	0.56	IQV				
0+45	0.0322	0.56	IQV				
0+46	0.0330	0.56	IQV				
0+47	0.0337	0.56	IQV				
0+48	0.0345	0.57	IQV				
0+49	0.0353	0.57	IQV				
0+50	0.0361	0.57	IQV				
0+51	0.0369	0.57	IQV				
0+52	0.0377	0.57	IQV				
0+53	0.0385	0.58	IQV				

0+54	0.0393	0.58	QV				
0+55	0.0401	0.58	QV				
0+56	0.0409	0.58	QV				
0+57	0.0417	0.58	QV				
0+58	0.0425	0.59	QV				
0+59	0.0433	0.59	QV				
1+ 0	0.0441	0.59	QV				
1+ 1	0.0449	0.59	QV				
1+ 2	0.0457	0.60	QV				
1+ 3	0.0465	0.60	QV				
1+ 4	0.0474	0.60	Q V				
1+ 5	0.0482	0.60	Q V				
1+ 6	0.0490	0.60	Q V				
1+ 7	0.0499	0.61	Q V				
1+ 8	0.0507	0.61	Q V				
1+ 9	0.0515	0.61	Q V				
1+10	0.0524	0.61	Q V				
1+11	0.0532	0.61	Q V				
1+12	0.0541	0.62	Q V				
1+13	0.0549	0.62	Q V				
1+14	0.0558	0.62	Q V				
1+15	0.0566	0.62	Q V				
1+16	0.0575	0.63	Q V				
1+17	0.0584	0.63	Q V				
1+18	0.0592	0.63	Q V				
1+19	0.0601	0.63	Q V				
1+20	0.0610	0.64	Q V				
1+21	0.0619	0.64	Q V				
1+22	0.0628	0.64	Q V				
1+23	0.0636	0.64	Q V				
1+24	0.0645	0.65	Q V				
1+25	0.0654	0.65	Q V				
1+26	0.0663	0.65	Q V				
1+27	0.0672	0.65	Q V				
1+28	0.0681	0.66	Q V				
1+29	0.0690	0.66	Q V				
1+30	0.0700	0.66	Q V				
1+31	0.0709	0.67	Q V				
1+32	0.0718	0.67	Q V				
1+33	0.0727	0.67	Q V				
1+34	0.0737	0.68	Q V				
1+35	0.0746	0.68	Q V				
1+36	0.0755	0.68	Q V				
1+37	0.0765	0.68	Q V				
1+38	0.0774	0.69	Q V				
1+39	0.0784	0.69	Q V				
1+40	0.0793	0.69	Q V				
1+41	0.0803	0.70	Q V				
1+42	0.0812	0.70	Q V				
1+43	0.0822	0.70	Q V				
1+44	0.0832	0.70	Q V				
1+45	0.0842	0.71	Q V				
1+46	0.0851	0.71	Q V				
1+47	0.0861	0.72	Q V				
1+48	0.0871	0.72	Q V				
1+49	0.0881	0.72	Q V				
1+50	0.0891	0.73	Q V				
1+51	0.0901	0.73	Q V				
1+52	0.0911	0.73	Q V				
1+53	0.0921	0.74	Q V				
1+54	0.0932	0.74	Q V				
1+55	0.0942	0.74	Q V				
1+56	0.0952	0.75	Q V				
1+57	0.0963	0.75	Q V				
1+58	0.0973	0.76	Q V				
1+59	0.0983	0.76	Q V				
2+ 0	0.0994	0.76	Q V				
2+ 1	0.1005	0.77	Q V				
2+ 2	0.1015	0.77	Q V				
2+ 3	0.1026	0.78	Q V				
2+ 4	0.1037	0.78	Q V				

2+ 5	0.1047	0.79	Q	V					
2+ 6	0.1058	0.79	Q	V					
2+ 7	0.1069	0.79	Q	V					
2+ 8	0.1080	0.80	Q	V					
2+ 9	0.1091	0.80	Q	V					
2+10	0.1102	0.81	Q	V					
2+11	0.1114	0.81	Q	V					
2+12	0.1125	0.82	Q	V					
2+13	0.1136	0.82	Q	V					
2+14	0.1148	0.83	Q	V					
2+15	0.1159	0.83	Q	V					
2+16	0.1171	0.84	Q	V					
2+17	0.1182	0.84	Q	V					
2+18	0.1194	0.85	Q	V					
2+19	0.1206	0.85	Q	V					
2+20	0.1217	0.86	Q	V					
2+21	0.1229	0.86	Q	V					
2+22	0.1241	0.87	Q	V					
2+23	0.1253	0.88	Q	V					
2+24	0.1266	0.88	Q	V					
2+25	0.1278	0.89	Q	V					
2+26	0.1290	0.89	Q	V					
2+27	0.1302	0.90	Q	V					
2+28	0.1315	0.90	Q	V					
2+29	0.1327	0.91	Q	V					
2+30	0.1340	0.92	Q	V					
2+31	0.1353	0.92	Q	V					
2+32	0.1366	0.93	Q	V					
2+33	0.1379	0.94	Q	V					
2+34	0.1392	0.95	Q	V					
2+35	0.1405	0.95	Q	V					
2+36	0.1418	0.96	Q	V					
2+37	0.1431	0.97	Q	V					
2+38	0.1445	0.98	Q	V					
2+39	0.1458	0.98	Q	V					
2+40	0.1472	0.99	Q	V					
2+41	0.1485	1.00	Q	V					
2+42	0.1499	1.01	Q	V					
2+43	0.1513	1.01	Q	V					
2+44	0.1527	1.02	Q	V					
2+45	0.1541	1.03	Q	V					
2+46	0.1556	1.04	Q	V					
2+47	0.1570	1.05	Q	V					
2+48	0.1585	1.05	Q	V					
2+49	0.1599	1.07	Q	V					
2+50	0.1614	1.08	Q	V					
2+51	0.1629	1.09	Q	V					
2+52	0.1644	1.09	Q	V					
2+53	0.1659	1.11	Q	V					
2+54	0.1675	1.12	Q	V					
2+55	0.1690	1.13	Q	V					
2+56	0.1706	1.13	Q	V					
2+57	0.1722	1.15	Q	V					
2+58	0.1738	1.16	Q	V					
2+59	0.1754	1.17	Q	V					
3+ 0	0.1770	1.18	Q	V					
3+ 1	0.1787	1.20	Q	V					
3+ 2	0.1804	1.21	Q	V					
3+ 3	0.1820	1.22	Q	V					
3+ 4	0.1837	1.23	Q	V					
3+ 5	0.1855	1.25	Q	V					
3+ 6	0.1872	1.27	Q	V					
3+ 7	0.1890	1.28	Q	V					
3+ 8	0.1908	1.29	Q	V					
3+ 9	0.1926	1.31	Q	V					
3+10	0.1944	1.33	Q	V					
3+11	0.1963	1.35	Q	V					
3+12	0.1981	1.36	Q	V					
3+13	0.2000	1.38	Q	V					
3+14	0.2020	1.41	Q	V					
3+15	0.2039	1.42	Q	V					

3+16	0.2059	1.43	Q		V				
3+17	0.2079	1.46	Q		V				
3+18	0.2099	1.49	Q		V				
3+19	0.2120	1.50	Q		V				
3+20	0.2141	1.52	Q		V				
3+21	0.2162	1.55	Q		V				
3+22	0.2184	1.58	Q		V				
3+23	0.2206	1.60	Q		V				
3+24	0.2229	1.62	Q		V				
3+25	0.2251	1.66	Q		V				
3+26	0.2275	1.70	Q		V				
3+27	0.2298	1.72	Q		V				
3+28	0.2322	1.74	Q		V				
3+29	0.2347	1.79	Q		V				
3+30	0.2372	1.83	Q		V				
3+31	0.2398	1.86	Q		V				
3+32	0.2424	1.89	Q		V				
3+33	0.2451	1.94	Q		V				
3+34	0.2478	2.00	Q		V				
3+35	0.2506	2.04	Q		V				
3+36	0.2535	2.07	Q		V				
3+37	0.2564	2.14	Q		V				
3+38	0.2595	2.22	Q		V				
3+39	0.2626	2.26	Q		V				
3+40	0.2658	2.30	Q		V				
3+41	0.2691	2.40	Q		V				
3+42	0.2725	2.50	Q		V				
3+43	0.2761	2.56	Q		V				
3+44	0.2797	2.62	Q		V				
3+45	0.2835	2.77	Q		V				
3+46	0.2875	2.91	Q		V				
3+47	0.2916	3.00	Q		V				
3+48	0.2959	3.08	Q		V				
3+49	0.3004	3.31	Q		V				
3+50	0.3053	3.54	Q		V				
3+51	0.3104	3.68	Q		V				
3+52	0.3157	3.83	Q		V				
3+53	0.3215	4.26	Q		V				
3+54	0.3280	4.69	Q		V				
3+55	0.3349	5.01	Q		V				
3+56	0.3422	5.34	Q		V				
3+57	0.3513	6.59	Q		V				
3+58	0.3621	7.84	Q		V				
3+59	0.3751	9.44	Q		V				
4+ 0	0.3903	11.04	Q		V				
4+ 1	0.4080	12.88	Q		V				
4+ 2	0.4283	14.71	Q		V				
4+ 3	0.4428	10.50	Q		V				
4+ 4	0.4514	6.29	Q		V				
4+ 5	0.4586	5.25	Q		V				
4+ 6	0.4644	4.21	Q		V				
4+ 7	0.4696	3.75	Q		V				
4+ 8	0.4741	3.29	Q		V				
4+ 9	0.4783	3.02	Q		V				
4+10	0.4821	2.76	Q		V				
4+11	0.4856	2.58	Q		V				
4+12	0.4889	2.40	Q		V				
4+13	0.4921	2.27	Q		V				
4+14	0.4950	2.14	Q		V				
4+15	0.4978	2.04	Q		V				
4+16	0.5005	1.94	Q		V				
4+17	0.5031	1.86	Q		V				
4+18	0.5055	1.79	Q		V				
4+19	0.5079	1.72	Q		V				
4+20	0.5102	1.66	Q		V				
4+21	0.5124	1.60	Q		V				
4+22	0.5145	1.55	Q		V				
4+23	0.5166	1.50	Q		V				
4+24	0.5186	1.46	Q		V				
4+25	0.5206	1.42	Q		V				
4+26	0.5225	1.38	Q		V				

4+27	0.5243	1.35	Q				V	
4+28	0.5261	1.31	Q				V	
4+29	0.5279	1.28	Q				V	
4+30	0.5296	1.25	Q				V	
4+31	0.5313	1.22	Q				V	
4+32	0.5330	1.20	Q				V	
4+33	0.5346	1.17	Q				V	
4+34	0.5362	1.15	Q				V	
4+35	0.5377	1.13	Q				V	
4+36	0.5392	1.11	Q				V	
4+37	0.5407	1.09	Q				V	
4+38	0.5422	1.07	Q				V	
4+39	0.5436	1.05	Q				V	
4+40	0.5451	1.03	Q				V	
4+41	0.5464	1.01	Q				V	
4+42	0.5478	1.00	Q				V	
4+43	0.5492	0.98	Q				V	
4+44	0.5505	0.97	Q				V	
4+45	0.5518	0.95	Q				V	
4+46	0.5531	0.94	Q				V	
4+47	0.5544	0.92	Q				V	
4+48	0.5556	0.91	Q				V	
4+49	0.5569	0.90	Q				V	
4+50	0.5581	0.89	Q				V	
4+51	0.5593	0.88	Q				V	
4+52	0.5605	0.86	Q				V	
4+53	0.5617	0.85	Q				V	
4+54	0.5628	0.84	Q				V	
4+55	0.5640	0.83	Q				V	
4+56	0.5651	0.82	Q				V	
4+57	0.5662	0.81	Q				V	
4+58	0.5673	0.80	Q				V	
4+59	0.5684	0.79	Q				V	
5+ 0	0.5695	0.79	Q				V	
5+ 1	0.5706	0.78	Q				V	
5+ 2	0.5716	0.77	Q				V	
5+ 3	0.5727	0.76	Q				V	
5+ 4	0.5737	0.75	Q				V	
5+ 5	0.5747	0.74	Q				V	
5+ 6	0.5758	0.74	Q				V	
5+ 7	0.5768	0.73	Q				V	
5+ 8	0.5778	0.72	Q				V	
5+ 9	0.5787	0.72	Q				V	
5+10	0.5797	0.71	Q				V	
5+11	0.5807	0.70	Q				V	
5+12	0.5816	0.70	Q				V	
5+13	0.5826	0.69	Q				V	
5+14	0.5835	0.68	Q				V	
5+15	0.5845	0.68	Q				V	
5+16	0.5854	0.67	Q				V	
5+17	0.5863	0.67	Q				V	
5+18	0.5872	0.66	Q				V	
5+19	0.5881	0.65	Q				V	
5+20	0.5890	0.65	Q				V	
5+21	0.5899	0.64	Q				V	
5+22	0.5908	0.64	Q				V	
5+23	0.5917	0.63	Q				V	
5+24	0.5925	0.63	Q				V	
5+25	0.5934	0.62	Q				V	
5+26	0.5942	0.62	Q				V	
5+27	0.5951	0.61	Q				V	
5+28	0.5959	0.61	Q				V	
5+29	0.5968	0.61	Q				V	
5+30	0.5976	0.60	Q				V	
5+31	0.5984	0.60	Q				V	
5+32	0.5992	0.59	Q				V	
5+33	0.6000	0.59	Q				V	
5+34	0.6008	0.58	Q				V	
5+35	0.6016	0.58	Q				V	
5+36	0.6024	0.58	Q				V	
5+37	0.6032	0.57	Q				V	

5+38	0.6040	0.57	Q				V	
5+39	0.6048	0.56	Q				V	
5+40	0.6056	0.56	Q				V	
5+41	0.6063	0.56	Q				V	
5+42	0.6071	0.55	Q				V	
5+43	0.6078	0.55	Q				V	
5+44	0.6086	0.55	Q				V	
5+45	0.6093	0.54	Q				V	
5+46	0.6101	0.54	Q				V	
5+47	0.6108	0.54	Q				V	
5+48	0.6116	0.53	Q				V	
5+49	0.6123	0.53	Q				V	
5+50	0.6130	0.53	Q				V	
5+51	0.6137	0.52	Q				V	
5+52	0.6145	0.52	Q				V	
5+53	0.6152	0.52	Q				V	
5+54	0.6159	0.51	Q				V	
5+55	0.6166	0.51	Q				V	
5+56	0.6173	0.51	Q				V	
5+57	0.6180	0.51	Q				V	
5+58	0.6187	0.50	Q				V	
5+59	0.6194	0.50	Q				V	
6+ 0	0.6200	0.50	Q				V	
6+ 1	0.6207	0.49	Q				V	
6+ 2	0.6214	0.49	Q				V	

End of computations, total study area = 4.700 (Ac.)

APPENDIX C
BIO-RETENTION BASIN
VOLUME AND OUTFLOW CALCULATIONS

BASIN OUTFLOW CALCULATIONS

BIO-RETENTION BASIN DESIGN

Majestic Otay - Otay Mesa, San Diego County

BIO-TREATMENT INFILTRATION RATE

4	(IN/HR)
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OUTFLOW THROUGH ORIFICES IN STRUCTURE

FROM KING'S HANDBOOK, (4-3)

$$Q = Ca(2gh)^{1/2}$$

WHERE:

Q= DISCHARGE (CFS)

a= TOTAL ORIFICE AREA (SF)

h = HEAD AT ORIFICE (FT)

C= DISCHARGE COEFFICIENT (KING'S 4-10) = 0.610

EMERGENCY OUTFLOW OVER TOP OF STRUCTURE

SHARP EDGED WEIR ABOVE WATER QUALITY SCREEN

$$Q = CLh^{3/2}$$

WHERE:

C=WEIR COEFFICIENT (3.087)

L=WEIR LENGTH

h=HEAD (FT)

BASIN 1

BASIN VOLUME BY ELEVATION

	W/S ELEV	AREA (SF)	AREA (AC)	VOLUME (CF)	CUMUL. VOLUME (CF)	CUMUL. VOLUME (AC-FT)
BIO.RET.	536.5	31,949	0.73	0	0	0.00
	537.5	31,949	0.73	12,780	12,780	0.29
	538	31,949	0.73	6,390	19,169	0.44
	539	31,949	0.73	12,780	31,949	0.73
	540	31,949	0.73	12,780	44,729	1.03
ABOVE GROUND BASIN	541	33,817	0.78	32,883	77,612	1.78
	542	35,700	0.82	34,758	112,370	2.58
	543	37,610	0.86	36,655	149,025	3.42
	544	39,558	0.91	38,584	187,610	4.31
	545	41,543	0.95	40,551	228,160	5.24
	546	43,569	1.00	42,556	270,716	6.21

ORIFICE/ WEIR INFORMATION

	ORIFICE/ WEIR NAME	INVERT ELEVATION (ft)	WIDTH OF ORIFICE (in)/ LENGTH OF WEIR (ft)	HEIGHT (in) / DIAM. (in) of ORIFICE	SINGLE ORIFICE AREA (SF)	# OF ORIFICES / WEIRS	TOTAL AREA (SF) / EFF. LENGTH (ft)
BIO.RET. UNDERDRAIN	LF	535.25	--	5	0.14	1	0.14
BASIN ORIFICES	MF 1	541	0	6	0.00	2	0.00
	MF 2	542	0	6	0.00	2	0.00
	MF 3	543	0	6	0.00	2	0.00
	MF 4	544	0	6	0.00	2	0.00
OVER FLOW WEIR	OF	545	14	--	--	1	11.2

OUTFLOW PER WATER SURFACE ELEVATION

MAXIMUM BIO-TREATMENT FLOW = 3.0 (cfs)

	W/S ELEV	DEPTH (ft)	HEAD [h] (ft)						Q (cfs)						TOTAL Q (cfs)
			LF	MF 1	MF 2	MF 3	MF 4	OF	LF	MF 1	MF 2	MF 3	MF 4	OF	
			RET. UNDERDRAIN	536.5	0	0.00	--	--	--	--	--	--	--	--	
	537.5	1.0	2.04	--	--	--	--	--	1.0	--	--	--	--	--	1.0
	538	1.5	2.96	--	--	--	--	--	1.1	--	--	--	--	--	1.1

BIO. UNDEF	539	2.5	3.54	--	--	--	--	--	1.3	--	--	--	--	--	1.3
	540	3.5	4.54	--	--	--	--	--	1.4	--	--	--	--	--	1.4
	541	4.5	5.54	--	--	--	--	--	1.6	--	--	--	--	--	1.6
BASIN ORIFICES	542	5.5	6.54	0.75	--	--	--	--	1.7	0.0	--	--	--	--	1.7
	543	6.5	7.54	1.75	0.75	--	--	--	1.8	0.0	0.0	--	--	--	1.8
	544	7.5	8.54	2.75	1.75	0.75	--	--	2.0	0.0	0.0	0.0	--	--	2.0
	545	8.5	9.54	3.75	2.75	1.75	0.75	--	2.1	0.0	0.0	0.0	0.0	--	2.1
OVER FLOW WEIR	546	9.5	10.54	4.75	3.75	2.75	1.75	1.00	2.2	0.0	0.0	0.0	0.0	34.6	36.7

TIME REQUIRED TO EMPTY BASIN

W/S ELEV	DRAIN TIME
536.5	0.0
537.5	3.7
538	5.3
539	8.1
540	10.6
541	16.4
542	22.1
543	27.6
544	33.1
545	38.6
546	38.9

BASIN 2

BASIN VOLUME BY ELEVATION

	W/S ELEV	AREA (SF)	AREA (AC)	VOLUME (CF)	CUMUL. VOLUME (CF)	CUMUL. VOLUME (AC-FT)
BIO.RET.	546.5	21,020	0.48	0	0	0.00
	547.5	21,020	0.48	8,408	8,408	0.19
	548	21,020	0.48	4,204	12,612	0.29
	549	21,020	0.48	8,408	21,020	0.48
	550	21,020	0.48	8,408	29,428	0.68
ABOVE GROUND BASIN	551	23,271	0.53	22,145	51,573	1.18
	552	25,593	0.59	24,432	76,005	1.74
	553	28,000	0.64	26,796	102,801	2.36
	554	30,496	0.70	29,248	132,049	3.03

ORIFICE/ WEIR INFORMATION

	ORIFICE/ WEIR NAME	INVERT ELEVATION (ft)	WIDTH OF ORIFICE (in)/ LENGTH OF WEIR (ft)	HEIGHT (in) / DIAM. (in) of ORIFICE	SINGLE ORIFICE AREA (SF)	# OF ORIFICES / WEIRS	TOTAL AREA (SF) / EFF. LENGTH (ft)
BIO.RET. UNDERDRAIN	LF	545.8	--	5	0.14	1	0.14
BASIN ORIFICES	MF 1	551	0	6	0.00	2	0.00
	MF 2	552	0	6	0.00	2	0.00
	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
OVER FLOW WEIR	OF	553	14	--	--	1	11.2

OUTFLOW PER WATER SURFACE ELEVATION

MAXIMUM BIO-TREATMENT FLOW = 1.9 (cfs)

	W/S ELEV	DEPTH (ft)	HEAD [h] (ft)						Q (cfs)						TOTAL Q (cfs)
			LF	MF 1	MF 2	--	--	OF	LF	MF 1	MF 2	--	--	OF	
BIO.RET. UNDERDRAIN	546.5	0	0.00	--	--	--	--	--	--	--	--	--	--	--	0.0
	547.5	1.0	1.49	--	--	--	--	--	0.8	--	--	--	--	--	0.8
	548	1.5	2.41	--	--	--	--	--	1.0	--	--	--	--	--	1.0
	549	2.5	2.99	--	--	--	--	--	1.2	--	--	--	--	--	1.2
	550	3.5	3.99	--	--	--	--	--	1.3	--	--	--	--	--	1.3
	551	4.5	4.99	--	--	--	--	--	1.5	--	--	--	--	--	1.5

BAS ORIF	552	5.5	5.99	0.75	--	--	--	--	1.6	0.0	--	--	--	--	1.6
	553	6.5	6.99	1.75	0.75	--	--	--	1.8	0.0	0.0	--	--	--	1.8
OVER FLOW WEIR	554	7.5	7.99	2.75	1.75	--	--	1.00	1.9	0.0	0.0	--	--	34.6	36.5

TIME REQUIRED TO EMPTY BASIN

W/S ELEV	DRAIN TIME
546.5	0.0
547.5	2.9
548	4.0
549	6.0
550	7.8
551	11.9
552	16.0
553	20.3
554	20.5

BASIN 3

BASIN VOLUME BY ELEVATION

	W/S ELEV	AREA (SF)	AREA (AC)	VOLUME (CF)	CUMUL. VOLUME (CF)	CUMUL. VOLUME (AC-FT)
BIO.RET.	548.0	20,338	0.47	0	0	0.00
	549.0	20,338	0.47	8,135	8,135	0.19
	549.5	20,338	0.47	4,068	12,203	0.28
	550.5	20,338	0.47	8,135	20,338	0.47
	551.5	20,338	0.47	8,135	28,473	0.65
ABOVE GROUND BASIN	552.5	21,978	0.50	21,158	49,631	1.14
	553.5	23,641	0.54	22,810	72,441	1.66
	555.0	26,155	0.60	37,347	109,788	2.52
	556.0	27,857	0.64	27,006	136,794	3.14

ORIFICE/ WEIR INFORMATION

	ORIFICE/ WEIR NAME	INVERT ELEVATION (ft)	WIDTH OF ORIFICE (in)/ LENGTH OF WEIR (ft)	HEIGHT (in) / DIAM. (in) of ORIFICE	SINGLE ORIFICE AREA (SF)	# OF ORIFICES / WEIRS	TOTAL AREA (SF) / EFF. LENGTH (ft)
BIO.RET. UNDERDRAIN	LF	546.9	--	8	0.3	1	0.3
BASIN ORIFICES	MF 1	552.5	12	6	0.50	2	1.00
	MF 2	553.5	12	6	0.50	2	1.00
	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
OVER FLOW WEIR	OF	555	14	--	--	1	11.2

OUTFLOW PER WATER SURFACE ELEVATION

MAXIMUM BIO-TREATMENT FLOW = 1.9 (cfs)

	W/S ELEV	DEPTH (ft)	HEAD [h] (ft)						Q (cfs)					TOTAL Q (cfs)	
			LF	MF 1	MF 2	--	--	OF	LF	MF 1	MF 2	--	--		OF
BIO.RET. UNDERDRAIN	548	0	0	--	--	--	--	--	--	--	--	--	--	--	0.0
	549	1.0	1.77	--	--	--	--	--	1.9	--	--	--	--	--	1.9
	549.5	1.5	2.93	--	--	--	--	--	1.9	--	--	--	--	--	1.9
	550.5	2.5	3.27	--	--	--	--	--	1.9	--	--	--	--	--	1.9
	551.5	3.5	4.27	--	--	--	--	--	1.9	--	--	--	--	--	1.9
	552.5	4.5	5.27	--	--	--	--	--	1.9	--	--	--	--	--	1.9
BAS ORIF	553.5	5.5	6.27	0.75	--	--	--	--	1.9	4.2	--	--	--	--	6.1
	555	7.0	7.77	2.25	1.25	--	--	--	1.9	7.3	5.5	--	--	--	14.7
OVER FLOW WEIR	556	8.0	8.77	3.25	2.25	--	--	1.00	1.9	8.8	7.3	--	--	34.6	52.6

TIME REQUIRED TO EMPTY BASIN

W/S ELEV	DRAIN TIME
548	0.0

549	1.2
549.5	1.8
550.5	3.0
551.5	4.2
552.5	7.3
553.5	8.4
555	9.1
556	9.2

BASIN 4

BASIN VOLUME BY ELEVATION

	W/S ELEV	AREA (SF)	AREA (AC)	VOLUME (CF)	CUMUL. VOLUME (CF)	CUMUL. VOLUME (AC-FT)
BIO.RET.	528.5	9,634	0.22	0	0	0.00
	529.5	9,634	0.22	3,854	3,854	0.09
	530	9,634	0.22	1,927	5,780	0.13
	531	9,634	0.22	3,854	9,634	0.22
	532	9,634	0.22	3,854	13,488	0.31
ABOVE GRND BASIN	533	12,146	0.28	10,890	24,378	0.56
	534	14,674	0.34	13,410	37,788	0.87
	535	17,216	0.40	15,945	53,733	1.23

ORIFICE/ WEIR INFORMATION

	ORIFICE/ WEIR NAME	INVERT ELEVATION (ft)	WIDTH OF ORIFICE (in)/ LENGTH OF WEIR (ft)	HEIGHT (in) / DIAM. (in) of ORIFICE	SINGLE ORIFICE AREA (SF)	# OF ORIFICES / WEIRS	TOTAL AREA (SF) / EFF. LENGTH (ft)
BIO.RET. UNDERDRAIN	LF	525.6	--	4	0.09	1	0.09
BASIN ORIFICES	MF 1	533.0	16	6	0.67	2	1.33
	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
OVER FLOW WEIR	OF	534	14	--	--	1	11.2

OUTFLOW PER WATER SURFACE ELEVATION

MAXIMUM BIO-TREATMENT FLOW = 0.9 (cfs)

	W/S ELEV	DEPTH (ft)	HEAD [h] (ft)						Q (cfs)					TOTAL Q (cfs)
			LF	MF 1	--	--	--	OF	LF	MF 1	--	--	OF	
BIO.RET. UNDERDRAIN	528.5	0	0	--	--	--	--	--	--	--	--	--	--	0.0
	529.5	1.0	3.73	--	--	--	--	--	0.8	--	--	--	--	0.8
	530	1.5	4.57	--	--	--	--	--	0.9	--	--	--	--	0.9
	531	2.5	5.23	--	--	--	--	--	0.9	--	--	--	--	0.9
	532	3.5	6.23	--	--	--	--	--	0.9	--	--	--	--	0.9
	533	4.5	7.23	--	--	--	--	--	0.9	--	--	--	--	0.9
BAS ORIF	534	5.5	8.23	0.75	--	--	--	--	0.9	5.7	--	--	--	6.5
OVER FLOW WEIR	535	6.5	9.23	1.75	--	--	--	1	0.9	8.6	--	--	--	34.6

TIME REQUIRED TO EMPTY BASIN

W/S ELEV	DRAIN TIME
528.5	0.0
529.5	1.3
530	1.9
531	3.1
532	4.3
533	7.7
534	8.3
535	8.4

BASIN 5

BASIN VOLUME BY ELEVATION

	W/S ELEV	AREA (SF)	AREA (AC)	VOLUME (CF)	CUMUL. VOLUME (CF)	CUMUL. VOLUME (AC-FT)
BIO.RET.	536.5	17,743	0.41	0	0	0.00
	537.5	17,743	0.41	7,097	7,097	0.16
	538	17,743	0.41	3,549	10,646	0.24
	539	17,743	0.41	7,097	17,743	0.41
	540	17,743	0.41	7,097	24,840	0.57
ABOVE GROUND BASIN	541	20,158	0.46	18,950	43,790	1.01
	542	22,620	0.52	21,389	65,179	1.50
	543	25,147	0.58	23,884	89,063	2.04
	544	27,779	0.64	26,463	115,526	2.65

ORIFICE/ WEIR INFORMATION

	ORIFICE/ WEIR NAME	INVERT ELEVATION (ft)	WIDTH OF ORIFICE (in)/ LENGTH OF WEIR (ft)	HEIGHT (in) / DIAM. (in) of ORIFICE	SINGLE ORIFICE AREA (SF)	# OF ORIFICES / WEIRS	TOTAL AREA (SF) / EFF. LENGTH (ft)
BIO.RET. UNDERDRAIN	LF	534.7	--	5	0.14	1	0.14
BASIN ORIFICES	MF 1	541	8	6	0.33	2	0.67
	MF 2	542	12	6	0.50	2	1.00
	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
OVER FLOW WEIR	OF	543	8	--	--	1	6.4

OUTFLOW PER WATER SURFACE ELEVATION

MAXIMUM BIO-TREATMENT FLOW = 1.6 (cfs)

	W/S ELEV	DEPTH (ft)	HEAD [h] (ft)							Q (cfs)					TOTAL Q (cfs)
			LF	MF 1	MF 2	--	--	OF	LF	MF 1	MF 2	--	OF		
BIO.RET. UNDERDRAIN	536.5	0	0	--	--	--	--	--	--	--	--	--	--	--	0.0
	537.5	1.0	2.59	--	--	--	--	--	1.1	--	--	--	--	--	1.1
	538	1.5	3.51	--	--	--	--	--	1.3	--	--	--	--	--	1.3
	539	2.5	4.09	--	--	--	--	--	1.4	--	--	--	--	--	1.4
	540	3.5	5.09	--	--	--	--	--	1.5	--	--	--	--	--	1.5
	541	4.5	6.09	--	--	--	--	--	1.6	--	--	--	--	--	1.6
BAS ORIF	542	5.5	7.09	0.75	--	--	--	--	1.6	2.8	--	--	--	--	4.5
	543	6.5	8.09	1.75	0.75	--	--	--	1.6	4.3	4.2	--	--	--	10.2
OVER FLOW WEIR	544	7.5	9.09	2.75	1.75	--	--	1.00	1.6	5.4	6.5	--	--	19.8	33.3

TIME REQUIRED TO EMPTY BASIN

W/S ELEV	DRAIN TIME
536.5	0.0
537.5	1.8
538	2.6
539	4.1
540	5.4
541	8.6
542	9.9
543	10.6
544	10.8

BASIN 6

BASIN VOLUME BY ELEVATION

W/S ELEV	AREA (SF)	AREA (AC)	VOLUME (CF)	CUMUL. VOLUME (CF)	CUMUL. VOLUME (AC-FT)
----------	-----------	-----------	-------------	--------------------	-----------------------

BIO.RET.	539.5	37,869	0.87	0	0	0.00
	540.5	37,869	0.87	15,147	15,147	0.35
	541	37,869	0.87	7,574	22,721	0.52
	542	37,869	0.87	15,147	37,869	0.87
	543	37,869	0.87	15,147	53,016	1.22
ABOVE GROUND BASIN	544.5	37,869	0.87	56,803	109,819	2.52
	545	41,420	0.95	19,822	129,641	2.98
	546	45,847	1.05	43,633	173,274	3.98
	547	50,303	1.15	48,075	221,349	5.08
	548	54,781	1.26	52,542	273,891	6.29
549	59,287	1.36	57,034	330,924	7.60	

ORIFICE/ WEIR INFORMATION

	ORIFICE/ WEIR NAME	INVERT ELEVATION (ft)	WIDTH OF ORIFICE (in)/ LENGTH OF WEIR (ft)	HEIGHT (in) / DIAM. (in) of ORIFICE	SINGLE ORIFICE AREA (SF)	# OF ORIFICES / WEIRS	TOTAL AREA (SF) / EFF. LENGTH (ft)
BIO.RET. UNDERDRAIN	LF	534.4	--	3	0.05	1	0.05
BASIN ORIFICES	MF 1	544.5	8	6	0.33	2	0.67
	MF 2	545	10	6	0.42	2	0.83
	MF 3	546	12	6	0.50	2	1.00
	MF 4	547	16	6	0.67	2	1.33
OVER FLOW WEIR	OF	548	14	--	--	1	11.2

OUTFLOW PER WATER SURFACE ELEVATION

MAXIMUM BIO-TREATMENT FLOW = 3.5 (cfs)

	W/S ELEV	DEPTH (ft)	HEAD [h] (ft)							Q (cfs)						TOTAL Q (cfs)
			LF	MF 1	MF 2	MF 3	MF 4	OF	LF	MF 1	MF 2	MF 3	MF 4	OF		
BIO.RET. UNDERDRAIN	539.5	0	0.00	--	--	--	--	--	--	--	--	--	--	--	0.0	
	540.5	1.0	5.98	--	--	--	--	--	0.6	--	--	--	--	--	0.6	
	541	1.5	6.73	--	--	--	--	--	0.6	--	--	--	--	--	0.6	
	542	2.5	7.48	--	--	--	--	--	0.7	--	--	--	--	--	0.7	
	543	3.5	8.48	--	--	--	--	--	0.7	--	--	--	--	--	0.7	
	544.5	5.0	9.98	--	--	--	--	--	0.8	--	--	--	--	--	0.8	
BASIN ORIFICES	545	5.5	10.48	0.25	--	--	--	--	0.8	1.6	--	--	--	--	2.4	
	546	6.5	11.48	1.25	0.75	--	--	--	0.8	3.6	3.5	--	--	--	8.0	
	547	7.5	12.48	2.25	1.75	0.75	--	--	0.8	4.9	5.4	4.2	--	--	15.4	
	548	8.5	13.48	3.25	2.75	1.75	0.75	--	0.9	5.9	6.8	6.5	5.7	--	25.7	
OVER FLOW WEIR	549	9.5	14.48	4.25	3.75	2.75	1.75	1.00	0.9	6.7	7.9	8.1	8.6	34.6	66.9	

TIME REQUIRED TO EMPTY BASIN

W/S ELEV	DRAIN TIME
539.5	0.0
540.5	7.2
541	10.5
542	16.9
543	23.0
544.5	43.7
545	46.0
546	47.6
547	48.4
548	49.0
549	49.2

BASIN 7

BASIN VOLUME BY ELEVATION

W/S ELEV	AREA (SF)	AREA (AC)	VOLUME (CF)	CUMUL. VOLUME (CF)	CUMUL. VOLUME (AC-FT)
551.5	7,632	0.18	0	0	0.00

BIO.RET.	552.5	7,632	0.18	3,053	3,053	0.07
	553	7,632	0.18	1,526	4,579	0.11
	554	7,632	0.18	3,053	7,632	0.18
	555	7,632	0.18	3,053	10,685	0.25
ABOVE GROUND BASIN	556	9,067	0.21	8,350	19,035	0.44
	557	10,527	0.24	9,797	28,832	0.66
	558	12,016	0.28	11,272	40,104	0.92
	559	13,538	0.31	12,777	52,881	1.21
	560	15,097	0.35	14,317	67,198	1.54
	561	16,704	0.38	15,900	83,098	1.91

ORIFICE/ WEIR INFORMATION

	ORIFICE/ WEIR NAME	INVERT ELEVATION (ft)	WIDTH OF ORIFICE (in)/ LENGTH OF WEIR (ft)	HEIGHT (in) / DIAM. (in) of ORIFICE	SINGLE ORIFICE AREA (SF)	# OF ORIFICES / WEIRS	TOTAL AREA (SF) / EFF. LENGTH (ft)
BIO.RET. UNDERDRAIN	LF	550.5	--	2	0.02	1	0.02
BASIN ORIFICES	MF 1	556	0	6	0.00	2	0.00
	MF 2	557	0	6	0.00	2	0.00
	MF 3	558	0	6	0.00	2	0.00
	MF 4	559	0	6	0.00	2	0.00
OVER FLOW WEIR	OF	560	8	--	--	1	6.4

OUTFLOW PER WATER SURFACE ELEVATION

MAXIMUM BIO-TREATMENT FLOW = 0.7 (cfs)

	W/S ELEV	DEPTH (ft)	HEAD [h] (ft)							Q (cfs)						TOTAL Q (cfs)
			LF	MF 1	MF 2	MF 3	MF 4	OF	LF	MF 1	MF 2	MF 3	MF 4	OF		
BIO.RET. UNDERDRAIN	551.5	0	0.00	--	--	--	--	--	--	--	--	--	--	--	--	0.0
	552.5	1.0	1.92	--	--	--	--	--	0.1	--	--	--	--	--	--	0.1
	553	1.5	2.58	--	--	--	--	--	0.2	--	--	--	--	--	--	0.2
	554	2.5	3.42	--	--	--	--	--	0.2	--	--	--	--	--	--	0.2
	555	3.5	4.42	--	--	--	--	--	0.2	--	--	--	--	--	--	0.2
	556	4.5	5.42	--	--	--	--	--	0.2	--	--	--	--	--	--	0.2
BASIN ORIFICES	557	5.5	6.42	0.75	--	--	--	--	0.3	0.0	--	--	--	--	--	0.3
	558	6.5	7.42	1.75	0.75	--	--	--	0.3	0.0	0.0	--	--	--	--	0.3
	559	7.5	8.42	2.75	1.75	0.75	--	--	0.3	0.0	0.0	0.0	--	--	--	0.3
	560	8.5	9.42	3.75	2.75	1.75	0.75	--	0.3	0.0	0.0	0.0	0.0	--	--	0.3
OVER FLOW WEIR	561	9.5	10.42	4.75	3.75	2.75	1.75	1.00	0.3	0.0	0.0	0.0	0.0	19.8	20.1	

TIME REQUIRED TO EMPTY BASIN

W/S ELEV	DRAIN TIME
551.5	0.0
552.5	5.7
553	8.2
554	12.5
555	16.3
556	25.6
557	35.7
558	46.4
559	57.9
560	70.0
561	70.2

APPENDIX D
UNDERGROUND BASIN
VOLUME AND OUTFLOW CALCULATIONS

APPENDIX E
FLOOD ROUTING CALCULATIONS

FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/16/24

 Majestic Otay
 Otay Mesa San Diego County
 Proposed Condition Basin 1
 100160rtebas1

Program License Serial Number 6490

 ***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratbas1.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 368
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 101.728 (CFS)
 Total volume = 4.276 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 703.000 to Point/Station 703.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

 Total number of inflow hydrograph intervals = 368
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 4.50(Ft.)

 Initial basin depth = 4.50 (Ft.)
 Initial basin storage = 1.78 (Ac.Ft)
 Initial basin outflow = 1.60 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.290	1.000	0.289	0.291
1.500	0.440	1.100	0.439	0.441
2.500	0.730	1.300	0.729	0.731
3.500	1.030	1.400	1.029	1.031
4.500	1.780	1.600	1.779	1.781
5.500	2.580	1.700	2.579	2.581
6.500	3.420	1.800	3.419	3.421
7.500	4.310	2.000	4.309	4.311
8.500	5.240	2.100	5.239	5.241
9.500	6.210	36.700	6.185	6.235

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	25.4	50.86	76.30	101.73	Depth (Ft.)
0.017	0.38	1.60	1.777	O					4.50
0.033	0.76	1.60	1.776	O					4.49
0.050	1.14	1.60	1.775	O					4.49
0.067	1.53	1.60	1.774	O					4.49
0.083	1.91	1.60	1.774	O					4.49
0.100	2.29	1.60	1.775	O					4.49
0.117	2.67	1.60	1.776	O					4.50
0.133	3.05	1.60	1.778	O					4.50
0.150	3.06	1.60	1.780	O					4.50
0.167	3.06	1.60	1.782	O					4.50
0.183	3.07	1.60	1.784	O					4.51
0.200	3.07	1.60	1.786	O					4.51
0.217	3.08	1.60	1.788	O					4.51
0.233	3.09	1.60	1.790	O					4.51
0.250	3.09	1.60	1.792	O					4.52
0.267	3.10	1.60	1.794	O					4.52
0.283	3.11	1.60	1.796	O					4.52
0.300	3.12	1.60	1.798	O					4.52
0.317	3.13	1.60	1.801	O					4.53
0.333	3.14	1.60	1.803	O					4.53
0.350	3.16	1.60	1.805	O					4.53
0.367	3.17	1.60	1.807	O					4.53
0.383	3.18	1.60	1.809	OI					4.54
0.400	3.19	1.60	1.811	OI					4.54
0.417	3.20	1.60	1.814	OI					4.54
0.433	3.20	1.60	1.816	OI					4.54
0.450	3.21	1.60	1.818	OI					4.55
0.467	3.22	1.61	1.820	OI					4.55
0.483	3.22	1.61	1.822	OI					4.55
0.500	3.23	1.61	1.825	OI					4.56
0.517	3.24	1.61	1.827	OI					4.56
0.533	3.24	1.61	1.829	OI					4.56
0.550	3.26	1.61	1.831	OI					4.56
0.567	3.27	1.61	1.834	OI					4.57
0.583	3.28	1.61	1.836	OI					4.57
0.600	3.30	1.61	1.838	OI					4.57
0.617	3.31	1.61	1.841	OI					4.58
0.633	3.32	1.61	1.843	OI					4.58
0.650	3.34	1.61	1.845	OI					4.58
0.667	3.35	1.61	1.848	OI					4.58
0.683	3.36	1.61	1.850	OI					4.59
0.700	3.36	1.61	1.853	OI					4.59
0.717	3.37	1.61	1.855	OI					4.59
0.733	3.38	1.61	1.857	OI					4.60
0.750	3.39	1.61	1.860	OI					4.60
0.767	3.39	1.61	1.862	OI					4.60
0.783	3.40	1.61	1.865	OI					4.61
0.800	3.41	1.61	1.867	OI					4.61
0.817	3.42	1.61	1.870	OI					4.61
0.833	3.44	1.61	1.872	OI					4.62
0.850	3.45	1.61	1.875	OI					4.62
0.867	3.47	1.61	1.877	OI					4.62
0.883	3.48	1.61	1.880	OI					4.62
0.900	3.50	1.61	1.882	OI					4.63
0.917	3.51	1.61	1.885	OI					4.63
0.933	3.53	1.61	1.888	OI					4.63
0.950	3.54	1.61	1.890	OI					4.64
0.967	3.55	1.61	1.893	OI					4.64
0.983	3.55	1.61	1.896	OI					4.64
1.000	3.56	1.61	1.898	OI					4.65
1.017	3.57	1.62	1.901	OI					4.65
1.033	3.58	1.62	1.904	OI					4.65
1.050	3.59	1.62	1.906	OI					4.66
1.067	3.60	1.62	1.909	OI					4.66
1.083	3.61	1.62	1.912	OI					4.66
1.100	3.63	1.62	1.915	OI					4.67
1.117	3.65	1.62	1.917	OI					4.67
1.133	3.67	1.62	1.920	OI					4.68

1.150	3.68	1.62	1.923	OI					4.68
1.167	3.70	1.62	1.926	OI					4.68
1.183	3.72	1.62	1.929	OI					4.69
1.200	3.74	1.62	1.932	OI					4.69
1.217	3.75	1.62	1.935	OI					4.69
1.233	3.76	1.62	1.938	OI					4.70
1.250	3.77	1.62	1.941	OI					4.70
1.267	3.78	1.62	1.943	OI					4.70
1.283	3.78	1.62	1.946	OI					4.71
1.300	3.79	1.62	1.949	OI					4.71
1.317	3.80	1.62	1.952	OI					4.72
1.333	3.81	1.62	1.955	OI					4.72
1.350	3.83	1.62	1.958	OI					4.72
1.367	3.85	1.62	1.962	OI					4.73
1.383	3.88	1.62	1.965	OI					4.73
1.400	3.90	1.62	1.968	OI					4.73
1.417	3.92	1.62	1.971	OI					4.74
1.433	3.94	1.62	1.974	OI					4.74
1.450	3.96	1.62	1.977	OI					4.75
1.467	3.98	1.63	1.980	OI					4.75
1.483	3.99	1.63	1.984	OI					4.75
1.500	4.00	1.63	1.987	OI					4.76
1.517	4.01	1.63	1.990	OI					4.76
1.533	4.02	1.63	1.994	OI					4.77
1.550	4.03	1.63	1.997	OI					4.77
1.567	4.05	1.63	2.000	OI					4.78
1.583	4.06	1.63	2.004	OI					4.78
1.600	4.07	1.63	2.007	OI					4.78
1.617	4.09	1.63	2.010	OI					4.79
1.633	4.12	1.63	2.014	OI					4.79
1.650	4.14	1.63	2.017	OI					4.80
1.667	4.17	1.63	2.021	OI					4.80
1.683	4.19	1.63	2.024	OI					4.81
1.700	4.21	1.63	2.028	OI					4.81
1.717	4.24	1.63	2.031	OI					4.81
1.733	4.26	1.63	2.035	OI					4.82
1.750	4.28	1.63	2.038	OI					4.82
1.767	4.29	1.63	2.042	OI					4.83
1.783	4.30	1.63	2.046	OI					4.83
1.800	4.32	1.63	2.049	OI					4.84
1.817	4.33	1.63	2.053	OI					4.84
1.833	4.34	1.63	2.057	OI					4.85
1.850	4.36	1.64	2.061	OI					4.85
1.867	4.37	1.64	2.064	OI					4.86
1.883	4.40	1.64	2.068	OI					4.86
1.900	4.43	1.64	2.072	OI					4.87
1.917	4.46	1.64	2.076	OI					4.87
1.933	4.49	1.64	2.080	OI					4.87
1.950	4.52	1.64	2.084	OI					4.88
1.967	4.55	1.64	2.088	OI					4.88
1.983	4.58	1.64	2.092	OI					4.89
2.000	4.61	1.64	2.096	OI					4.89
2.017	4.62	1.64	2.100	OI					4.90
2.033	4.64	1.64	2.104	OI					4.91
2.050	4.66	1.64	2.108	OI					4.91
2.067	4.67	1.64	2.112	OI					4.92
2.083	4.69	1.64	2.117	OI					4.92
2.100	4.70	1.64	2.121	OI					4.93
2.117	4.72	1.64	2.125	OI					4.93
2.133	4.74	1.64	2.129	OI					4.94
2.150	4.77	1.64	2.133	OI					4.94
2.167	4.81	1.64	2.138	OI					4.95
2.183	4.85	1.65	2.142	OI					4.95
2.200	4.88	1.65	2.147	OI					4.96
2.217	4.92	1.65	2.151	OI					4.96
2.233	4.96	1.65	2.156	OI					4.97
2.250	4.99	1.65	2.160	OI					4.98
2.267	5.03	1.65	2.165	OI					4.98
2.283	5.05	1.65	2.170	OI					4.99
2.300	5.07	1.65	2.174	OI					4.99
2.317	5.09	1.65	2.179	OI					5.00

2.333	5.11	1.65	2.184	OI					5.00
2.350	5.13	1.65	2.189	OI					5.01
2.367	5.15	1.65	2.193	OI					5.02
2.383	5.18	1.65	2.198	OI					5.02
2.400	5.20	1.65	2.203	OI					5.03
2.417	5.24	1.65	2.208	OI					5.03
2.433	5.29	1.65	2.213	OI					5.04
2.450	5.34	1.65	2.218	OI					5.05
2.467	5.38	1.66	2.223	OI					5.05
2.483	5.43	1.66	2.228	OI					5.06
2.500	5.48	1.66	2.233	OI					5.07
2.517	5.52	1.66	2.239	OI					5.07
2.533	5.57	1.66	2.244	OI					5.08
2.550	5.60	1.66	2.250	OI					5.09
2.567	5.63	1.66	2.255	OI					5.09
2.583	5.65	1.66	2.260	OI					5.10
2.600	5.68	1.66	2.266	OI					5.11
2.617	5.71	1.66	2.272	OI					5.11
2.633	5.73	1.66	2.277	OI					5.12
2.650	5.76	1.66	2.283	OI					5.13
2.667	5.79	1.66	2.288	OI					5.14
2.683	5.85	1.66	2.294	OI					5.14
2.700	5.91	1.66	2.300	OI					5.15
2.717	5.98	1.67	2.306	OI					5.16
2.733	6.04	1.67	2.312	OI					5.16
2.750	6.10	1.67	2.318	OI					5.17
2.767	6.16	1.67	2.324	OI					5.18
2.783	6.23	1.67	2.330	OI					5.19
2.800	6.29	1.67	2.337	OI					5.20
2.817	6.33	1.67	2.343	OI					5.20
2.833	6.36	1.67	2.349	O I					5.21
2.850	6.40	1.67	2.356	O I					5.22
2.867	6.44	1.67	2.362	O I					5.23
2.883	6.48	1.67	2.369	O I					5.24
2.900	6.51	1.67	2.376	O I					5.24
2.917	6.55	1.68	2.382	O I					5.25
2.933	6.59	1.68	2.389	O I					5.26
2.950	6.68	1.68	2.396	O I					5.27
2.967	6.77	1.68	2.403	O I					5.28
2.983	6.86	1.68	2.410	O I					5.29
3.000	6.95	1.68	2.417	O I					5.30
3.017	7.04	1.68	2.424	O I					5.31
3.033	7.13	1.68	2.432	O I					5.31
3.050	7.22	1.68	2.439	O I					5.32
3.067	7.31	1.68	2.447	O I					5.33
3.083	7.36	1.68	2.455	O I					5.34
3.100	7.42	1.69	2.463	O I					5.35
3.117	7.47	1.69	2.471	O I					5.36
3.133	7.53	1.69	2.479	O I					5.37
3.150	7.58	1.69	2.487	O I					5.38
3.167	7.64	1.69	2.495	O I					5.39
3.183	7.69	1.69	2.503	O I					5.40
3.200	7.75	1.69	2.512	O I					5.41
3.217	7.89	1.69	2.520	O I					5.42
3.233	8.03	1.69	2.529	O I					5.44
3.250	8.17	1.69	2.537	O I					5.45
3.267	8.31	1.70	2.546	O I					5.46
3.283	8.46	1.70	2.556	O I					5.47
3.300	8.60	1.70	2.565	O I					5.48
3.317	8.74	1.70	2.575	O I					5.49
3.333	8.88	1.70	2.584	O I					5.51
3.350	8.98	1.70	2.594	O I					5.52
3.367	9.07	1.70	2.604	O I					5.53
3.383	9.16	1.70	2.615	O I					5.54
3.400	9.26	1.71	2.625	O I					5.55
3.417	9.35	1.71	2.635	O I					5.57
3.433	9.44	1.71	2.646	O I					5.58
3.450	9.54	1.71	2.657	O I					5.59
3.467	9.63	1.71	2.668	O I					5.60
3.483	9.90	1.71	2.679	O I					5.62
3.500	10.17	1.71	2.690	O I					5.63

3.517	10.43	1.71	2.702	O	I					5.65
3.533	10.70	1.72	2.714	O	I					5.66
3.550	10.97	1.72	2.727	O	I					5.67
3.567	11.24	1.72	2.740	O	I					5.69
3.583	11.50	1.72	2.753	O	I					5.71
3.600	11.77	1.72	2.767	O	I					5.72
3.617	11.98	1.72	2.781	O	I					5.74
3.633	12.18	1.73	2.795	O	I					5.76
3.650	12.38	1.73	2.809	O	I					5.77
3.667	12.59	1.73	2.824	O	I					5.79
3.683	12.79	1.73	2.839	O	I					5.81
3.700	13.00	1.73	2.855	O	I					5.83
3.717	13.20	1.73	2.870	O	I					5.85
3.733	13.41	1.74	2.886	O	I					5.86
3.750	14.19	1.74	2.903	O	I					5.88
3.767	14.98	1.74	2.921	O	I					5.91
3.783	15.76	1.74	2.939	O	I					5.93
3.800	16.55	1.75	2.959	O	I					5.95
3.817	17.33	1.75	2.980	O	I					5.98
3.833	18.12	1.75	3.002	O	I					6.00
3.850	18.90	1.75	3.025	O	I					6.03
3.867	19.69	1.76	3.049	O	I					6.06
3.883	20.69	1.76	3.075	O	I					6.09
3.900	21.70	1.76	3.102	O	I					6.12
3.917	22.70	1.77	3.130	O	I					6.15
3.933	23.71	1.77	3.159	O	I					6.19
3.950	24.72	1.77	3.190	O	I					6.23
3.967	25.72	1.78	3.222	O	I					6.26
3.983	26.73	1.78	3.256	O	I					6.30
4.000	27.74	1.78	3.291	O	I					6.35
4.017	36.99	1.79	3.333	O	I		I			6.40
4.033	46.23	1.80	3.388	O	I		I			6.46
4.050	55.48	1.81	3.456	O	I		I			6.54
4.067	64.73	1.83	3.536	O	I		I			6.63
4.083	73.98	1.85	3.629	O	I		I			6.73
4.100	83.23	1.87	3.735	O	I		I		I	6.85
4.117	92.48	1.90	3.853	O	I		I		I	6.99
4.133	101.73	1.93	3.984	O	I		I		I	7.13
4.150	90.99	1.96	4.114	O	I		I		I	7.28
4.167	80.24	1.98	4.230	O	I		I		I	7.41
4.183	69.50	2.00	4.330	O	I		I		I	7.52
4.200	58.76	2.01	4.415	O	I		I		I	7.61
4.217	48.02	2.02	4.486	O	I		I		I	7.69
4.233	37.27	2.02	4.542	O	I		I		I	7.75
4.250	26.53	2.03	4.583	O	I		I		I	7.79
4.267	15.79	2.03	4.610	O	I		I		I	7.82
4.283	15.14	2.03	4.628	O	I		I		I	7.84
4.300	14.48	2.04	4.646	O	I		I		I	7.86
4.317	13.83	2.04	4.662	O	I		I		I	7.88
4.333	13.18	2.04	4.678	O	I		I		I	7.90
4.350	12.52	2.04	4.693	O	I		I		I	7.91
4.367	11.87	2.04	4.707	O	I		I		I	7.93
4.383	11.22	2.04	4.720	O	I		I		I	7.94
4.400	10.56	2.05	4.732	O	I		I		I	7.95
4.417	10.28	2.05	4.744	O	I		I		I	7.97
4.433	9.99	2.05	4.755	O	I		I		I	7.98
4.450	9.70	2.05	4.766	O	I		I		I	7.99
4.467	9.41	2.05	4.776	O	I		I		I	8.00
4.483	9.13	2.05	4.786	O	I		I		I	8.01
4.500	8.84	2.05	4.796	O	I		I		I	8.02
4.517	8.55	2.05	4.805	O	I		I		I	8.03
4.533	8.27	2.05	4.814	O	I		I		I	8.04
4.550	8.10	2.06	4.822	O	I		I		I	8.05
4.567	7.93	2.06	4.830	O	I		I		I	8.06
4.583	7.76	2.06	4.838	O	I		I		I	8.07
4.600	7.59	2.06	4.846	O	I		I		I	8.08
4.617	7.43	2.06	4.853	O	I		I		I	8.08
4.633	7.26	2.06	4.861	O	I		I		I	8.09
4.650	7.09	2.06	4.868	O	I		I		I	8.10
4.667	6.92	2.06	4.875	O	I		I		I	8.11
4.683	6.81	2.06	4.881	O	I		I		I	8.11

4.700	6.70	2.06	4.888	O I					8.12
4.717	6.59	2.06	4.894	O I					8.13
4.733	6.47	2.06	4.900	O I					8.13
4.750	6.36	2.06	4.906	O I					8.14
4.767	6.25	2.06	4.912	O I					8.15
4.783	6.14	2.07	4.918	O I					8.15
4.800	6.03	2.07	4.923	O I					8.16
4.817	5.94	2.07	4.929	O I					8.17
4.833	5.86	2.07	4.934	O I					8.17
4.850	5.78	2.07	4.939	O I					8.18
4.867	5.70	2.07	4.944	O I					8.18
4.883	5.62	2.07	4.949	O I					8.19
4.900	5.54	2.07	4.954	O I					8.19
4.917	5.46	2.07	4.959	O I					8.20
4.933	5.38	2.07	4.963	O I					8.20
4.950	5.31	2.07	4.968	O I					8.21
4.967	5.25	2.07	4.972	O I					8.21
4.983	5.19	2.07	4.976	O I					8.22
5.000	5.13	2.07	4.981	O I					8.22
5.017	5.07	2.07	4.985	O I					8.23
5.033	5.00	2.07	4.989	O I					8.23
5.050	4.94	2.07	4.993	O I					8.23
5.067	4.88	2.07	4.997	O I					8.24
5.083	4.83	2.07	5.001	O I					8.24
5.100	4.78	2.07	5.004	O I					8.25
5.117	4.73	2.08	5.008	O I					8.25
5.133	4.68	2.08	5.012	O I					8.25
5.150	4.63	2.08	5.015	O I					8.26
5.167	4.58	2.08	5.019	O I					8.26
5.183	4.53	2.08	5.022	O I					8.27
5.200	4.48	2.08	5.026	O I					8.27
5.217	4.44	2.08	5.029	O I					8.27
5.233	4.40	2.08	5.032	O I					8.28
5.250	4.36	2.08	5.035	O I					8.28
5.267	4.32	2.08	5.038	O I					8.28
5.283	4.28	2.08	5.041	O I					8.29
5.300	4.24	2.08	5.044	O I					8.29
5.317	4.20	2.08	5.047	O I					8.29
5.333	4.16	2.08	5.050	O I					8.30
5.350	4.13	2.08	5.053	O I					8.30
5.367	4.10	2.08	5.056	O I					8.30
5.383	4.06	2.08	5.059	O I					8.31
5.400	4.03	2.08	5.061	O I					8.31
5.417	3.99	2.08	5.064	O I					8.31
5.433	3.96	2.08	5.067	O I					8.31
5.450	3.93	2.08	5.069	O I					8.32
5.467	3.89	2.08	5.072	O I					8.32
5.483	3.86	2.08	5.074	O I					8.32
5.500	3.84	2.08	5.077	O I					8.32
5.517	3.81	2.08	5.079	O I					8.33
5.533	3.78	2.08	5.081	O I					8.33
5.550	3.75	2.08	5.084	O I					8.33
5.567	3.72	2.08	5.086	O I					8.33
5.583	3.69	2.08	5.088	O I					8.34
5.600	3.66	2.08	5.090	O I					8.34
5.617	3.64	2.08	5.093	O I					8.34
5.633	3.62	2.08	5.095	O I					8.34
5.650	3.59	2.08	5.097	O I					8.35
5.667	3.57	2.08	5.099	O I					8.35
5.683	3.54	2.09	5.101	O I					8.35
5.700	3.52	2.09	5.103	O I					8.35
5.717	3.49	2.09	5.105	O I					8.35
5.733	3.47	2.09	5.107	O I					8.36
5.750	3.45	2.09	5.109	O I					8.36
5.767	3.42	2.09	5.111	O I					8.36
5.783	3.40	2.09	5.112	O I					8.36
5.800	3.38	2.09	5.114	O I					8.36
5.817	3.36	2.09	5.116	O I					8.37
5.833	3.34	2.09	5.118	O I					8.37
5.850	3.32	2.09	5.119	O I					8.37
5.867	3.30	2.09	5.121	O I					8.37

5.883	3.28	2.09	5.123	OI					8.37
5.900	3.26	2.09	5.124	OI					8.38
5.917	3.24	2.09	5.126	OI					8.38
5.933	3.22	2.09	5.128	OI					8.38
5.950	3.20	2.09	5.129	OI					8.38
5.967	3.18	2.09	5.131	OI					8.38
5.983	3.16	2.09	5.132	O					8.38
6.000	3.14	2.09	5.134	O					8.39
6.017	3.13	2.09	5.135	O					8.39
6.033	3.11	2.09	5.136	O					8.39
6.050	3.09	2.09	5.138	O					8.39
6.067	3.08	2.09	5.139	O					8.39
6.083	3.06	2.09	5.140	O					8.39
6.100	3.04	2.09	5.142	O					8.39
6.117	3.02	2.09	5.143	O					8.40
6.133	3.01	2.09	5.144	O					8.40
6.150	0.00	2.09	5.144	O					8.40
6.167	0.00	2.09	5.141	O					8.39
6.183	0.00	2.09	5.138	O					8.39
6.200	0.00	2.09	5.135	O					8.39
6.217	0.00	2.09	5.132	O					8.38
6.233	0.00	2.09	5.129	O					8.38
6.250	0.00	2.09	5.126	O					8.38
6.267	0.00	2.09	5.123	O					8.37
6.283	0.00	2.09	5.121	O					8.37
6.300	0.00	2.09	5.118	O					8.37
6.317	0.00	2.09	5.115	O					8.37
6.333	0.00	2.09	5.112	O					8.36
6.350	0.00	2.09	5.109	O					8.36
6.367	0.00	2.09	5.106	O					8.36
6.383	0.00	2.09	5.103	O					8.35
6.400	0.00	2.08	5.100	O					8.35
6.417	0.00	2.08	5.098	O					8.35
6.433	0.00	2.08	5.095	O					8.34
6.450	0.00	2.08	5.092	O					8.34
6.467	0.00	2.08	5.089	O					8.34
6.483	0.00	2.08	5.086	O					8.33
6.500	0.00	2.08	5.083	O					8.33
6.517	0.00	2.08	5.080	O					8.33
6.533	0.00	2.08	5.078	O					8.33
6.550	0.00	2.08	5.075	O					8.32
6.567	0.00	2.08	5.072	O					8.32
6.583	0.00	2.08	5.069	O					8.32
6.600	0.00	2.08	5.066	O					8.31
6.617	0.00	2.08	5.063	O					8.31
6.633	0.00	2.08	5.060	O					8.31
6.650	0.00	2.08	5.057	O					8.30
6.667	0.00	2.08	5.055	O					8.30
6.683	0.00	2.08	5.052	O					8.30
6.700	0.00	2.08	5.049	O					8.29
6.717	0.00	2.08	5.046	O					8.29
6.733	0.00	2.08	5.043	O					8.29
6.750	0.00	2.08	5.040	O					8.29
6.767	0.00	2.08	5.037	O					8.28
6.783	0.00	2.08	5.035	O					8.28
6.800	0.00	2.08	5.032	O					8.28
6.817	0.00	2.08	5.029	O					8.27
6.833	0.00	2.08	5.026	O					8.27
6.850	0.00	2.08	5.023	O					8.27
6.867	0.00	2.08	5.020	O					8.26
6.883	0.00	2.08	5.017	O					8.26
6.900	0.00	2.08	5.014	O					8.26
6.917	0.00	2.08	5.012	O					8.25
6.933	0.00	2.08	5.009	O					8.25
6.950	0.00	2.07	5.006	O					8.25
6.967	0.00	2.07	5.003	O					8.25
6.983	0.00	2.07	5.000	O					8.24
7.000	0.00	2.07	4.997	O					8.24
7.017	0.00	2.07	4.994	O					8.24
7.033	0.00	2.07	4.992	O					8.23
7.050	0.00	2.07	4.989	O					8.23

7.067	0.00	2.07	4.986	0					8.23
7.083	0.00	2.07	4.983	0					8.22
7.100	0.00	2.07	4.980	0					8.22
7.117	0.00	2.07	4.977	0					8.22
7.133	0.00	2.07	4.975	0					8.21
7.150	0.00	2.07	4.972	0					8.21
7.167	0.00	2.07	4.969	0					8.21
7.183	0.00	2.07	4.966	0					8.21
7.200	0.00	2.07	4.963	0					8.20
7.217	0.00	2.07	4.960	0					8.20
7.233	0.00	2.07	4.957	0					8.20
7.250	0.00	2.07	4.955	0					8.19
7.267	0.00	2.07	4.952	0					8.19
7.283	0.00	2.07	4.949	0					8.19
7.300	0.00	2.07	4.946	0					8.18
7.317	0.00	2.07	4.943	0					8.18
7.333	0.00	2.07	4.940	0					8.18
7.350	0.00	2.07	4.937	0					8.17
7.367	0.00	2.07	4.935	0					8.17
7.383	0.00	2.07	4.932	0					8.17
7.400	0.00	2.07	4.929	0					8.17
7.417	0.00	2.07	4.926	0					8.16
7.433	0.00	2.07	4.923	0					8.16
7.450	0.00	2.07	4.920	0					8.16
7.467	0.00	2.07	4.918	0					8.15
7.483	0.00	2.07	4.915	0					8.15
7.500	0.00	2.06	4.912	0					8.15
7.517	0.00	2.06	4.909	0					8.14
7.533	0.00	2.06	4.906	0					8.14
7.550	0.00	2.06	4.903	0					8.14
7.567	0.00	2.06	4.900	0					8.13
7.583	0.00	2.06	4.898	0					8.13
7.600	0.00	2.06	4.895	0					8.13
7.617	0.00	2.06	4.892	0					8.13
7.633	0.00	2.06	4.889	0					8.12
7.650	0.00	2.06	4.886	0					8.12
7.667	0.00	2.06	4.883	0					8.12
7.683	0.00	2.06	4.881	0					8.11
7.700	0.00	2.06	4.878	0					8.11
7.717	0.00	2.06	4.875	0					8.11
7.733	0.00	2.06	4.872	0					8.10
7.750	0.00	2.06	4.869	0					8.10
7.767	0.00	2.06	4.866	0					8.10
7.783	0.00	2.06	4.864	0					8.10
7.800	0.00	2.06	4.861	0					8.09
7.817	0.00	2.06	4.858	0					8.09
7.833	0.00	2.06	4.855	0					8.09
7.850	0.00	2.06	4.852	0					8.08
7.867	0.00	2.06	4.849	0					8.08
7.883	0.00	2.06	4.847	0					8.08
7.900	0.00	2.06	4.844	0					8.07
7.917	0.00	2.06	4.841	0					8.07
7.933	0.00	2.06	4.838	0					8.07
7.950	0.00	2.06	4.835	0					8.06
7.967	0.00	2.06	4.832	0					8.06
7.983	0.00	2.06	4.830	0					8.06
8.000	0.00	2.06	4.827	0					8.06
8.017	0.00	2.06	4.824	0					8.05
8.033	0.00	2.05	4.821	0					8.05
8.050	0.00	2.05	4.818	0					8.05
8.067	0.00	2.05	4.815	0					8.04
8.083	0.00	2.05	4.813	0					8.04
8.100	0.00	2.05	4.810	0					8.04
8.117	0.00	2.05	4.807	0					8.03
8.133	0.00	2.05	4.804	0					8.03
8.150	0.00	2.05	4.801	0					8.03
8.167	0.00	2.05	4.798	0					8.03
8.183	0.00	2.05	4.796	0					8.02
8.200	0.00	2.05	4.793	0					8.02
8.217	0.00	2.05	4.790	0					8.02
8.233	0.00	2.05	4.787	0					8.01

8.250	0.00	2.05	4.784	0					8.01
8.267	0.00	2.05	4.781	0					8.01
8.283	0.00	2.05	4.779	0					8.00
8.300	0.00	2.05	4.776	0					8.00
8.317	0.00	2.05	4.773	0					8.00
8.333	0.00	2.05	4.770	0					7.99
8.350	0.00	2.05	4.767	0					7.99
8.367	0.00	2.05	4.765	0					7.99
8.383	0.00	2.05	4.762	0					7.99
8.400	0.00	2.05	4.759	0					7.98
8.417	0.00	2.05	4.756	0					7.98
8.433	0.00	2.05	4.753	0					7.98
8.450	0.00	2.05	4.750	0					7.97
8.467	0.00	2.05	4.748	0					7.97
8.483	0.00	2.05	4.745	0					7.97
8.500	0.00	2.05	4.742	0					7.96
8.517	0.00	2.05	4.739	0					7.96
8.533	0.00	2.05	4.736	0					7.96
8.550	0.00	2.05	4.734	0					7.96
8.567	0.00	2.05	4.731	0					7.95
8.583	0.00	2.04	4.728	0					7.95
8.600	0.00	2.04	4.725	0					7.95
8.617	0.00	2.04	4.722	0					7.94
8.633	0.00	2.04	4.719	0					7.94
8.650	0.00	2.04	4.717	0					7.94
8.667	0.00	2.04	4.714	0					7.93
8.683	0.00	2.04	4.711	0					7.93
8.700	0.00	2.04	4.708	0					7.93
8.717	0.00	2.04	4.705	0					7.93
8.733	0.00	2.04	4.703	0					7.92
8.750	0.00	2.04	4.700	0					7.92
8.767	0.00	2.04	4.697	0					7.92
8.783	0.00	2.04	4.694	0					7.91
8.800	0.00	2.04	4.691	0					7.91
8.817	0.00	2.04	4.688	0					7.91
8.833	0.00	2.04	4.686	0					7.90
8.850	0.00	2.04	4.683	0					7.90
8.867	0.00	2.04	4.680	0					7.90
8.883	0.00	2.04	4.677	0					7.89
8.900	0.00	2.04	4.674	0					7.89
8.917	0.00	2.04	4.672	0					7.89
8.933	0.00	2.04	4.669	0					7.89
8.950	0.00	2.04	4.666	0					7.88
8.967	0.00	2.04	4.663	0					7.88
8.983	0.00	2.04	4.660	0					7.88
9.000	0.00	2.04	4.658	0					7.87
9.017	0.00	2.04	4.655	0					7.87
9.033	0.00	2.04	4.652	0					7.87
9.050	0.00	2.04	4.649	0					7.86
9.067	0.00	2.04	4.646	0					7.86
9.083	0.00	2.04	4.644	0					7.86
9.100	0.00	2.04	4.641	0					7.86
9.117	0.00	2.04	4.638	0					7.85
9.133	0.00	2.03	4.635	0					7.85
9.150	0.00	2.03	4.632	0					7.85
9.167	0.00	2.03	4.630	0					7.84
9.183	0.00	2.03	4.627	0					7.84
9.200	0.00	2.03	4.624	0					7.84
9.217	0.00	2.03	4.621	0					7.83
9.233	0.00	2.03	4.618	0					7.83
9.250	0.00	2.03	4.616	0					7.83
9.267	0.00	2.03	4.613	0					7.83
9.283	0.00	2.03	4.610	0					7.82
9.300	0.00	2.03	4.607	0					7.82
9.317	0.00	2.03	4.604	0					7.82
9.333	0.00	2.03	4.602	0					7.81
9.350	0.00	2.03	4.599	0					7.81
9.367	0.00	2.03	4.596	0					7.81
9.383	0.00	2.03	4.593	0					7.80
9.400	0.00	2.03	4.590	0					7.80
9.417	0.00	2.03	4.588	0					7.80

9.433	0.00	2.03	4.585	0					7.80
9.450	0.00	2.03	4.582	0					7.79
9.467	0.00	2.03	4.579	0					7.79
9.483	0.00	2.03	4.576	0					7.79
9.500	0.00	2.03	4.574	0					7.78
9.517	0.00	2.03	4.571	0					7.78
9.533	0.00	2.03	4.568	0					7.78
9.550	0.00	2.03	4.565	0					7.77
9.567	0.00	2.03	4.562	0					7.77
9.583	0.00	2.03	4.560	0					7.77
9.600	0.00	2.03	4.557	0					7.77
9.617	0.00	2.03	4.554	0					7.76
9.633	0.00	2.03	4.551	0					7.76
9.650	0.00	2.03	4.548	0					7.76
9.667	0.00	2.03	4.546	0					7.75
9.683	0.00	2.03	4.543	0					7.75
9.700	0.00	2.02	4.540	0					7.75
9.717	0.00	2.02	4.537	0					7.74
9.733	0.00	2.02	4.535	0					7.74
9.750	0.00	2.02	4.532	0					7.74
9.767	0.00	2.02	4.529	0					7.74
9.783	0.00	2.02	4.526	0					7.73
9.800	0.00	2.02	4.523	0					7.73
9.817	0.00	2.02	4.521	0					7.73
9.833	0.00	2.02	4.518	0					7.72
9.850	0.00	2.02	4.515	0					7.72
9.867	0.00	2.02	4.512	0					7.72
9.883	0.00	2.02	4.509	0					7.71
9.900	0.00	2.02	4.507	0					7.71
9.917	0.00	2.02	4.504	0					7.71
9.933	0.00	2.02	4.501	0					7.71
9.950	0.00	2.02	4.498	0					7.70
9.967	0.00	2.02	4.496	0					7.70
9.983	0.00	2.02	4.493	0					7.70
10.000	0.00	2.02	4.490	0					7.69
10.017	0.00	2.02	4.487	0					7.69
10.033	0.00	2.02	4.484	0					7.69
10.050	0.00	2.02	4.482	0					7.68
10.067	0.00	2.02	4.479	0					7.68
10.083	0.00	2.02	4.476	0					7.68
10.100	0.00	2.02	4.473	0					7.68
10.117	0.00	2.02	4.470	0					7.67
10.133	0.00	2.02	4.468	0					7.67
10.150	0.00	2.02	4.465	0					7.67
10.167	0.00	2.02	4.462	0					7.66
10.183	0.00	2.02	4.459	0					7.66
10.200	0.00	2.02	4.457	0					7.66
10.217	0.00	2.02	4.454	0					7.65
10.233	0.00	2.02	4.451	0					7.65
10.250	0.00	2.01	4.448	0					7.65
10.267	0.00	2.01	4.446	0					7.65
10.283	0.00	2.01	4.443	0					7.64
10.300	0.00	2.01	4.440	0					7.64
10.317	0.00	2.01	4.437	0					7.64
10.333	0.00	2.01	4.434	0					7.63
10.350	0.00	2.01	4.432	0					7.63
10.367	0.00	2.01	4.429	0					7.63
10.383	0.00	2.01	4.426	0					7.62
10.400	0.00	2.01	4.423	0					7.62
10.417	0.00	2.01	4.421	0					7.62
10.433	0.00	2.01	4.418	0					7.62
10.450	0.00	2.01	4.415	0					7.61
10.467	0.00	2.01	4.412	0					7.61
10.483	0.00	2.01	4.409	0					7.61
10.500	0.00	2.01	4.407	0					7.60
10.517	0.00	2.01	4.404	0					7.60
10.533	0.00	2.01	4.401	0					7.60
10.550	0.00	2.01	4.398	0					7.60
10.567	0.00	2.01	4.396	0					7.59
10.583	0.00	2.01	4.393	0					7.59
10.600	0.00	2.01	4.390	0					7.59

10.617	0.00	2.01	4.387	0					7.58
10.633	0.00	2.01	4.385	0					7.58
10.650	0.00	2.01	4.382	0					7.58
10.667	0.00	2.01	4.379	0					7.57
10.683	0.00	2.01	4.376	0					7.57
10.700	0.00	2.01	4.373	0					7.57
10.717	0.00	2.01	4.371	0					7.57
10.733	0.00	2.01	4.368	0					7.56
10.750	0.00	2.01	4.365	0					7.56
10.767	0.00	2.01	4.362	0					7.56
10.783	0.00	2.01	4.360	0					7.55
10.800	0.00	2.01	4.357	0					7.55
10.817	0.00	2.00	4.354	0					7.55
10.833	0.00	2.00	4.351	0					7.54
10.850	0.00	2.00	4.349	0					7.54
10.867	0.00	2.00	4.346	0					7.54
10.883	0.00	2.00	4.343	0					7.54
10.900	0.00	2.00	4.340	0					7.53
10.917	0.00	2.00	4.338	0					7.53
10.933	0.00	2.00	4.335	0					7.53
10.950	0.00	2.00	4.332	0					7.52
10.967	0.00	2.00	4.329	0					7.52
10.983	0.00	2.00	4.327	0					7.52
11.000	0.00	2.00	4.324	0					7.51
11.017	0.00	2.00	4.321	0					7.51
11.033	0.00	2.00	4.318	0					7.51
11.050	0.00	2.00	4.316	0					7.51
11.067	0.00	2.00	4.313	0					7.50
11.083	0.00	2.00	4.310	0					7.50
11.100	0.00	2.00	4.307	0					7.50
11.117	0.00	2.00	4.305	0					7.49
11.133	0.00	2.00	4.302	0					7.49
11.150	0.00	2.00	4.299	0					7.49
11.167	0.00	2.00	4.296	0					7.48
11.183	0.00	2.00	4.294	0					7.48
11.200	0.00	2.00	4.291	0					7.48
11.217	0.00	2.00	4.288	0					7.48
11.233	0.00	1.99	4.285	0					7.47
11.250	0.00	1.99	4.283	0					7.47
11.267	0.00	1.99	4.280	0					7.47
11.283	0.00	1.99	4.277	0					7.46
11.300	0.00	1.99	4.274	0					7.46
11.317	0.00	1.99	4.272	0					7.46
11.333	0.00	1.99	4.269	0					7.45
11.350	0.00	1.99	4.266	0					7.45
11.367	0.00	1.99	4.263	0					7.45
11.383	0.00	1.99	4.261	0					7.44
11.400	0.00	1.99	4.258	0					7.44
11.417	0.00	1.99	4.255	0					7.44
11.433	0.00	1.99	4.252	0					7.44
11.450	0.00	1.99	4.250	0					7.43
11.467	0.00	1.99	4.247	0					7.43
11.483	0.00	1.99	4.244	0					7.43
11.500	0.00	1.98	4.241	0					7.42
11.517	0.00	1.98	4.239	0					7.42
11.533	0.00	1.98	4.236	0					7.42
11.550	0.00	1.98	4.233	0					7.41
11.567	0.00	1.98	4.230	0					7.41
11.583	0.00	1.98	4.228	0					7.41
11.600	0.00	1.98	4.225	0					7.40
11.617	0.00	1.98	4.222	0					7.40
11.633	0.00	1.98	4.220	0					7.40
11.650	0.00	1.98	4.217	0					7.40
11.667	0.00	1.98	4.214	0					7.39
11.683	0.00	1.98	4.211	0					7.39
11.700	0.00	1.98	4.209	0					7.39
11.717	0.00	1.98	4.206	0					7.38
11.733	0.00	1.98	4.203	0					7.38
11.750	0.00	1.98	4.201	0					7.38
11.767	0.00	1.97	4.198	0					7.37
11.783	0.00	1.97	4.195	0					7.37

11.800	0.00	1.97	4.192	0					7.37
11.817	0.00	1.97	4.190	0					7.36
11.833	0.00	1.97	4.187	0					7.36
11.850	0.00	1.97	4.184	0					7.36
11.867	0.00	1.97	4.181	0					7.36
11.883	0.00	1.97	4.179	0					7.35
11.900	0.00	1.97	4.176	0					7.35
11.917	0.00	1.97	4.173	0					7.35
11.933	0.00	1.97	4.171	0					7.34
11.950	0.00	1.97	4.168	0					7.34
11.967	0.00	1.97	4.165	0					7.34
11.983	0.00	1.97	4.162	0					7.33
12.000	0.00	1.97	4.160	0					7.33
12.017	0.00	1.97	4.157	0					7.33
12.033	0.00	1.97	4.154	0					7.33
12.050	0.00	1.96	4.152	0					7.32
12.067	0.00	1.96	4.149	0					7.32
12.083	0.00	1.96	4.146	0					7.32
12.100	0.00	1.96	4.144	0					7.31
12.117	0.00	1.96	4.141	0					7.31
12.133	0.00	1.96	4.138	0					7.31
12.150	0.00	1.96	4.135	0					7.30
12.167	0.00	1.96	4.133	0					7.30
12.183	0.00	1.96	4.130	0					7.30
12.200	0.00	1.96	4.127	0					7.29
12.217	0.00	1.96	4.125	0					7.29
12.233	0.00	1.96	4.122	0					7.29
12.250	0.00	1.96	4.119	0					7.29
12.267	0.00	1.96	4.117	0					7.28
12.283	0.00	1.96	4.114	0					7.28
12.300	0.00	1.96	4.111	0					7.28
12.317	0.00	1.95	4.108	0					7.27
12.333	0.00	1.95	4.106	0					7.27
12.350	0.00	1.95	4.103	0					7.27
12.367	0.00	1.95	4.100	0					7.26
12.383	0.00	1.95	4.098	0					7.26
12.400	0.00	1.95	4.095	0					7.26
12.417	0.00	1.95	4.092	0					7.26
12.433	0.00	1.95	4.090	0					7.25
12.450	0.00	1.95	4.087	0					7.25
12.467	0.00	1.95	4.084	0					7.25
12.483	0.00	1.95	4.082	0					7.24
12.500	0.00	1.95	4.079	0					7.24
12.517	0.00	1.95	4.076	0					7.24
12.533	0.00	1.95	4.074	0					7.23
12.550	0.00	1.95	4.071	0					7.23
12.567	0.00	1.95	4.068	0					7.23
12.583	0.00	1.95	4.066	0					7.23
12.600	0.00	1.94	4.063	0					7.22
12.617	0.00	1.94	4.060	0					7.22
12.633	0.00	1.94	4.057	0					7.22
12.650	0.00	1.94	4.055	0					7.21
12.667	0.00	1.94	4.052	0					7.21
12.683	0.00	1.94	4.049	0					7.21
12.700	0.00	1.94	4.047	0					7.20
12.717	0.00	1.94	4.044	0					7.20
12.733	0.00	1.94	4.041	0					7.20
12.750	0.00	1.94	4.039	0					7.20
12.767	0.00	1.94	4.036	0					7.19
12.783	0.00	1.94	4.033	0					7.19
12.800	0.00	1.94	4.031	0					7.19
12.817	0.00	1.94	4.028	0					7.18
12.833	0.00	1.94	4.025	0					7.18
12.850	0.00	1.94	4.023	0					7.18
12.867	0.00	1.93	4.020	0					7.17
12.883	0.00	1.93	4.017	0					7.17
12.900	0.00	1.93	4.015	0					7.17
12.917	0.00	1.93	4.012	0					7.17
12.933	0.00	1.93	4.009	0					7.16
12.950	0.00	1.93	4.007	0					7.16
12.967	0.00	1.93	4.004	0					7.16

12.983	0.00	1.93	4.001	0					7.15
13.000	0.00	1.93	3.999	0					7.15
13.017	0.00	1.93	3.996	0					7.15
13.033	0.00	1.93	3.993	0					7.14
13.050	0.00	1.93	3.991	0					7.14
13.067	0.00	1.93	3.988	0					7.14
13.083	0.00	1.93	3.986	0					7.14
13.100	0.00	1.93	3.983	0					7.13
13.117	0.00	1.93	3.980	0					7.13
13.133	0.00	1.93	3.978	0					7.13
13.150	0.00	1.92	3.975	0					7.12
13.167	0.00	1.92	3.972	0					7.12
13.183	0.00	1.92	3.970	0					7.12
13.200	0.00	1.92	3.967	0					7.11
13.217	0.00	1.92	3.964	0					7.11
13.233	0.00	1.92	3.962	0					7.11
13.250	0.00	1.92	3.959	0					7.11
13.267	0.00	1.92	3.956	0					7.10
13.283	0.00	1.92	3.954	0					7.10
13.300	0.00	1.92	3.951	0					7.10
13.317	0.00	1.92	3.948	0					7.09
13.333	0.00	1.92	3.946	0					7.09
13.350	0.00	1.92	3.943	0					7.09
13.367	0.00	1.92	3.941	0					7.08
13.383	0.00	1.92	3.938	0					7.08
13.400	0.00	1.92	3.935	0					7.08
13.417	0.00	1.92	3.933	0					7.08
13.433	0.00	1.91	3.930	0					7.07
13.450	0.00	1.91	3.927	0					7.07
13.467	0.00	1.91	3.925	0					7.07
13.483	0.00	1.91	3.922	0					7.06
13.500	0.00	1.91	3.919	0					7.06
13.517	0.00	1.91	3.917	0					7.06
13.533	0.00	1.91	3.914	0					7.06
13.550	0.00	1.91	3.912	0					7.05
13.567	0.00	1.91	3.909	0					7.05
13.583	0.00	1.91	3.906	0					7.05
13.600	0.00	1.91	3.904	0					7.04
13.617	0.00	1.91	3.901	0					7.04
13.633	0.00	1.91	3.898	0					7.04
13.650	0.00	1.91	3.896	0					7.03
13.667	0.00	1.91	3.893	0					7.03
13.683	0.00	1.91	3.890	0					7.03
13.700	0.00	1.91	3.888	0					7.03
13.717	0.00	1.90	3.885	0					7.02
13.733	0.00	1.90	3.883	0					7.02
13.750	0.00	1.90	3.880	0					7.02
13.767	0.00	1.90	3.877	0					7.01
13.783	0.00	1.90	3.875	0					7.01
13.800	0.00	1.90	3.872	0					7.01
13.817	0.00	1.90	3.870	0					7.01
13.833	0.00	1.90	3.867	0					7.00
13.850	0.00	1.90	3.864	0					7.00
13.867	0.00	1.90	3.862	0					7.00
13.883	0.00	1.90	3.859	0					6.99
13.900	0.00	1.90	3.856	0					6.99
13.917	0.00	1.90	3.854	0					6.99
13.933	0.00	1.90	3.851	0					6.98
13.950	0.00	1.90	3.849	0					6.98
13.967	0.00	1.90	3.846	0					6.98
13.983	0.00	1.90	3.843	0					6.98
14.000	0.00	1.89	3.841	0					6.97
14.017	0.00	1.89	3.838	0					6.97
14.033	0.00	1.89	3.836	0					6.97
14.050	0.00	1.89	3.833	0					6.96
14.067	0.00	1.89	3.830	0					6.96
14.083	0.00	1.89	3.828	0					6.96
14.100	0.00	1.89	3.825	0					6.96
14.117	0.00	1.89	3.823	0					6.95
14.133	0.00	1.89	3.820	0					6.95
14.150	0.00	1.89	3.817	0					6.95

14.167	0.00	1.89	3.815	0					6.94
14.183	0.00	1.89	3.812	0					6.94
14.200	0.00	1.89	3.809	0					6.94
14.217	0.00	1.89	3.807	0					6.93
14.233	0.00	1.89	3.804	0					6.93
14.250	0.00	1.89	3.802	0					6.93
14.267	0.00	1.89	3.799	0					6.93
14.283	0.00	1.88	3.797	0					6.92
14.300	0.00	1.88	3.794	0					6.92
14.317	0.00	1.88	3.791	0					6.92
14.333	0.00	1.88	3.789	0					6.91
14.350	0.00	1.88	3.786	0					6.91
14.367	0.00	1.88	3.784	0					6.91
14.383	0.00	1.88	3.781	0					6.91
14.400	0.00	1.88	3.778	0					6.90
14.417	0.00	1.88	3.776	0					6.90
14.433	0.00	1.88	3.773	0					6.90
14.450	0.00	1.88	3.771	0					6.89
14.467	0.00	1.88	3.768	0					6.89
14.483	0.00	1.88	3.765	0					6.89
14.500	0.00	1.88	3.763	0					6.89
14.517	0.00	1.88	3.760	0					6.88
14.533	0.00	1.88	3.758	0					6.88
14.550	0.00	1.88	3.755	0					6.88
14.567	0.00	1.87	3.752	0					6.87
14.583	0.00	1.87	3.750	0					6.87
14.600	0.00	1.87	3.747	0					6.87
14.617	0.00	1.87	3.745	0					6.86
14.633	0.00	1.87	3.742	0					6.86
14.650	0.00	1.87	3.740	0					6.86
14.667	0.00	1.87	3.737	0					6.86
14.683	0.00	1.87	3.734	0					6.85
14.700	0.00	1.87	3.732	0					6.85
14.717	0.00	1.87	3.729	0					6.85
14.733	0.00	1.87	3.727	0					6.84
14.750	0.00	1.87	3.724	0					6.84
14.767	0.00	1.87	3.722	0					6.84
14.783	0.00	1.87	3.719	0					6.84
14.800	0.00	1.87	3.716	0					6.83
14.817	0.00	1.87	3.714	0					6.83
14.833	0.00	1.87	3.711	0					6.83
14.850	0.00	1.86	3.709	0					6.82
14.867	0.00	1.86	3.706	0					6.82
14.883	0.00	1.86	3.704	0					6.82
14.900	0.00	1.86	3.701	0					6.82
14.917	0.00	1.86	3.698	0					6.81
14.933	0.00	1.86	3.696	0					6.81
14.950	0.00	1.86	3.693	0					6.81
14.967	0.00	1.86	3.691	0					6.80
14.983	0.00	1.86	3.688	0					6.80
15.000	0.00	1.86	3.686	0					6.80
15.017	0.00	1.86	3.683	0					6.80
15.033	0.00	1.86	3.681	0					6.79
15.050	0.00	1.86	3.678	0					6.79
15.067	0.00	1.86	3.675	0					6.79
15.083	0.00	1.86	3.673	0					6.78
15.100	0.00	1.86	3.670	0					6.78
15.117	0.00	1.86	3.668	0					6.78
15.133	0.00	1.86	3.665	0					6.78
15.150	0.00	1.85	3.663	0					6.77
15.167	0.00	1.85	3.660	0					6.77
15.183	0.00	1.85	3.657	0					6.77
15.200	0.00	1.85	3.655	0					6.76
15.217	0.00	1.85	3.652	0					6.76
15.233	0.00	1.85	3.650	0					6.76
15.250	0.00	1.85	3.647	0					6.76
15.267	0.00	1.85	3.645	0					6.75
15.283	0.00	1.85	3.642	0					6.75
15.300	0.00	1.85	3.640	0					6.75
15.317	0.00	1.85	3.637	0					6.74
15.333	0.00	1.85	3.635	0					6.74

15.350	0.00	1.85	3.632	0					6.74
15.367	0.00	1.85	3.629	0					6.74
15.383	0.00	1.85	3.627	0					6.73
15.400	0.00	1.85	3.624	0					6.73
15.417	0.00	1.85	3.622	0					6.73
15.433	0.00	1.84	3.619	0					6.72
15.450	0.00	1.84	3.617	0					6.72
15.467	0.00	1.84	3.614	0					6.72
15.483	0.00	1.84	3.612	0					6.72
15.500	0.00	1.84	3.609	0					6.71
15.517	0.00	1.84	3.607	0					6.71
15.533	0.00	1.84	3.604	0					6.71
15.550	0.00	1.84	3.602	0					6.70
15.567	0.00	1.84	3.599	0					6.70
15.583	0.00	1.84	3.596	0					6.70
15.600	0.00	1.84	3.594	0					6.70
15.617	0.00	1.84	3.591	0					6.69
15.633	0.00	1.84	3.589	0					6.69
15.650	0.00	1.84	3.586	0					6.69
15.667	0.00	1.84	3.584	0					6.68
15.683	0.00	1.84	3.581	0					6.68
15.700	0.00	1.84	3.579	0					6.68
15.717	0.00	1.84	3.576	0					6.68
15.733	0.00	1.83	3.574	0					6.67
15.750	0.00	1.83	3.571	0					6.67
15.767	0.00	1.83	3.569	0					6.67
15.783	0.00	1.83	3.566	0					6.66
15.800	0.00	1.83	3.564	0					6.66
15.817	0.00	1.83	3.561	0					6.66
15.833	0.00	1.83	3.559	0					6.66
15.850	0.00	1.83	3.556	0					6.65
15.867	0.00	1.83	3.553	0					6.65
15.883	0.00	1.83	3.551	0					6.65
15.900	0.00	1.83	3.548	0					6.64
15.917	0.00	1.83	3.546	0					6.64
15.933	0.00	1.83	3.543	0					6.64
15.950	0.00	1.83	3.541	0					6.64
15.967	0.00	1.83	3.538	0					6.63
15.983	0.00	1.83	3.536	0					6.63
16.000	0.00	1.83	3.533	0					6.63
16.017	0.00	1.82	3.531	0					6.62
16.033	0.00	1.82	3.528	0					6.62
16.050	0.00	1.82	3.526	0					6.62
16.067	0.00	1.82	3.523	0					6.62
16.083	0.00	1.82	3.521	0					6.61
16.100	0.00	1.82	3.518	0					6.61
16.117	0.00	1.82	3.516	0					6.61
16.133	0.00	1.82	3.513	0					6.60
16.150	0.00	1.82	3.511	0					6.60
16.167	0.00	1.82	3.508	0					6.60
16.183	0.00	1.82	3.506	0					6.60
16.200	0.00	1.82	3.503	0					6.59
16.217	0.00	1.82	3.501	0					6.59
16.233	0.00	1.82	3.498	0					6.59
16.250	0.00	1.82	3.496	0					6.59
16.267	0.00	1.82	3.493	0					6.58
16.283	0.00	1.82	3.491	0					6.58
16.300	0.00	1.82	3.488	0					6.58
16.317	0.00	1.81	3.486	0					6.57
16.333	0.00	1.81	3.483	0					6.57
16.350	0.00	1.81	3.481	0					6.57
16.367	0.00	1.81	3.478	0					6.57
16.383	0.00	1.81	3.476	0					6.56
16.400	0.00	1.81	3.473	0					6.56
16.417	0.00	1.81	3.471	0					6.56
16.433	0.00	1.81	3.468	0					6.55
16.450	0.00	1.81	3.466	0					6.55
16.467	0.00	1.81	3.463	0					6.55
16.483	0.00	1.81	3.461	0					6.55
16.500	0.00	1.81	3.458	0					6.54
16.517	0.00	1.81	3.456	0					6.54

16.533	0.00	1.81	3.453	0					6.54
16.550	0.00	1.81	3.451	0					6.53
16.567	0.00	1.81	3.448	0					6.53
16.583	0.00	1.81	3.446	0					6.53
16.600	0.00	1.81	3.443	0					6.53
16.617	0.00	1.80	3.441	0					6.52
16.633	0.00	1.80	3.438	0					6.52
16.650	0.00	1.80	3.436	0					6.52
16.667	0.00	1.80	3.433	0					6.52
16.683	0.00	1.80	3.431	0					6.51
16.700	0.00	1.80	3.428	0					6.51
16.717	0.00	1.80	3.426	0					6.51
16.733	0.00	1.80	3.423	0					6.50
16.750	0.00	1.80	3.421	0					6.50
16.767	0.00	1.80	3.419	0					6.50
16.783	0.00	1.80	3.416	0					6.50
16.800	0.00	1.80	3.414	0					6.49
16.817	0.00	1.80	3.411	0					6.49
16.833	0.00	1.80	3.409	0					6.49
16.850	0.00	1.80	3.406	0					6.48
16.867	0.00	1.80	3.404	0					6.48
16.883	0.00	1.80	3.401	0					6.48
16.900	0.00	1.80	3.399	0					6.47
16.917	0.00	1.80	3.396	0					6.47
16.933	0.00	1.80	3.394	0					6.47
16.950	0.00	1.80	3.391	0					6.47
16.967	0.00	1.80	3.389	0					6.46
16.983	0.00	1.80	3.386	0					6.46
17.000	0.00	1.80	3.384	0					6.46
17.017	0.00	1.80	3.381	0					6.45
17.033	0.00	1.80	3.379	0					6.45
17.050	0.00	1.79	3.376	0					6.45
17.067	0.00	1.79	3.374	0					6.45
17.083	0.00	1.79	3.371	0					6.44
17.100	0.00	1.79	3.369	0					6.44
17.117	0.00	1.79	3.367	0					6.44
17.133	0.00	1.79	3.364	0					6.43
17.150	0.00	1.79	3.362	0					6.43
17.167	0.00	1.79	3.359	0					6.43
17.183	0.00	1.79	3.357	0					6.42
17.200	0.00	1.79	3.354	0					6.42
17.217	0.00	1.79	3.352	0					6.42
17.233	0.00	1.79	3.349	0					6.42
17.250	0.00	1.79	3.347	0					6.41
17.267	0.00	1.79	3.344	0					6.41
17.283	0.00	1.79	3.342	0					6.41
17.300	0.00	1.79	3.339	0					6.40
17.317	0.00	1.79	3.337	0					6.40
17.333	0.00	1.79	3.334	0					6.40
17.350	0.00	1.79	3.332	0					6.40
17.367	0.00	1.79	3.330	0					6.39
17.383	0.00	1.79	3.327	0					6.39
17.400	0.00	1.79	3.325	0					6.39
17.417	0.00	1.79	3.322	0					6.38
17.433	0.00	1.79	3.320	0					6.38
17.450	0.00	1.79	3.317	0					6.38
17.467	0.00	1.79	3.315	0					6.37
17.483	0.00	1.79	3.312	0					6.37
17.500	0.00	1.79	3.310	0					6.37
17.517	0.00	1.79	3.307	0					6.37
17.533	0.00	1.79	3.305	0					6.36
17.550	0.00	1.79	3.302	0					6.36
17.567	0.00	1.79	3.300	0					6.36
17.583	0.00	1.79	3.298	0					6.35
17.600	0.00	1.79	3.295	0					6.35
17.617	0.00	1.78	3.293	0					6.35
17.633	0.00	1.78	3.290	0					6.35
17.650	0.00	1.78	3.288	0					6.34
17.667	0.00	1.78	3.285	0					6.34
17.683	0.00	1.78	3.283	0					6.34
17.700	0.00	1.78	3.280	0					6.33

17.717	0.00	1.78	3.278	0					6.33
17.733	0.00	1.78	3.275	0					6.33
17.750	0.00	1.78	3.273	0					6.32
17.767	0.00	1.78	3.270	0					6.32
17.783	0.00	1.78	3.268	0					6.32
17.800	0.00	1.78	3.266	0					6.32
17.817	0.00	1.78	3.263	0					6.31
17.833	0.00	1.78	3.261	0					6.31
17.850	0.00	1.78	3.258	0					6.31
17.867	0.00	1.78	3.256	0					6.30
17.883	0.00	1.78	3.253	0					6.30
17.900	0.00	1.78	3.251	0					6.30
17.917	0.00	1.78	3.248	0					6.30
17.933	0.00	1.78	3.246	0					6.29
17.950	0.00	1.78	3.244	0					6.29
17.967	0.00	1.78	3.241	0					6.29
17.983	0.00	1.78	3.239	0					6.28
18.000	0.00	1.78	3.236	0					6.28
18.017	0.00	1.78	3.234	0					6.28
18.033	0.00	1.78	3.231	0					6.28
18.050	0.00	1.78	3.229	0					6.27
18.067	0.00	1.78	3.226	0					6.27
18.083	0.00	1.78	3.224	0					6.27
18.100	0.00	1.78	3.221	0					6.26
18.117	0.00	1.78	3.219	0					6.26
18.133	0.00	1.78	3.217	0					6.26
18.150	0.00	1.78	3.214	0					6.25
18.167	0.00	1.78	3.212	0					6.25
18.183	0.00	1.77	3.209	0					6.25
18.200	0.00	1.77	3.207	0					6.25
18.217	0.00	1.77	3.204	0					6.24
18.233	0.00	1.77	3.202	0					6.24
18.250	0.00	1.77	3.199	0					6.24
18.267	0.00	1.77	3.197	0					6.23
18.283	0.00	1.77	3.195	0					6.23
18.300	0.00	1.77	3.192	0					6.23
18.317	0.00	1.77	3.190	0					6.23
18.333	0.00	1.77	3.187	0					6.22
18.350	0.00	1.77	3.185	0					6.22
18.367	0.00	1.77	3.182	0					6.22
18.383	0.00	1.77	3.180	0					6.21
18.400	0.00	1.77	3.177	0					6.21
18.417	0.00	1.77	3.175	0					6.21
18.433	0.00	1.77	3.173	0					6.21
18.450	0.00	1.77	3.170	0					6.20
18.467	0.00	1.77	3.168	0					6.20
18.483	0.00	1.77	3.165	0					6.20
18.500	0.00	1.77	3.163	0					6.19
18.517	0.00	1.77	3.160	0					6.19
18.533	0.00	1.77	3.158	0					6.19
18.550	0.00	1.77	3.156	0					6.19
18.567	0.00	1.77	3.153	0					6.18
18.583	0.00	1.77	3.151	0					6.18
18.600	0.00	1.77	3.148	0					6.18
18.617	0.00	1.77	3.146	0					6.17
18.633	0.00	1.77	3.143	0					6.17
18.650	0.00	1.77	3.141	0					6.17
18.667	0.00	1.77	3.139	0					6.16
18.683	0.00	1.77	3.136	0					6.16
18.700	0.00	1.77	3.134	0					6.16
18.717	0.00	1.77	3.131	0					6.16
18.733	0.00	1.77	3.129	0					6.15
18.750	0.00	1.77	3.126	0					6.15
18.767	0.00	1.76	3.124	0					6.15
18.783	0.00	1.76	3.121	0					6.14
18.800	0.00	1.76	3.119	0					6.14
18.817	0.00	1.76	3.117	0					6.14
18.833	0.00	1.76	3.114	0					6.14
18.850	0.00	1.76	3.112	0					6.13
18.867	0.00	1.76	3.109	0					6.13
18.883	0.00	1.76	3.107	0					6.13

18.900	0.00	1.76	3.104	0					6.12
18.917	0.00	1.76	3.102	0					6.12
18.933	0.00	1.76	3.100	0					6.12
18.950	0.00	1.76	3.097	0					6.12
18.967	0.00	1.76	3.095	0					6.11
18.983	0.00	1.76	3.092	0					6.11
19.000	0.00	1.76	3.090	0					6.11
19.017	0.00	1.76	3.088	0					6.10
19.033	0.00	1.76	3.085	0					6.10
19.050	0.00	1.76	3.083	0					6.10
19.067	0.00	1.76	3.080	0					6.10
19.083	0.00	1.76	3.078	0					6.09
19.100	0.00	1.76	3.075	0					6.09
19.117	0.00	1.76	3.073	0					6.09
19.133	0.00	1.76	3.071	0					6.08
19.150	0.00	1.76	3.068	0					6.08
19.167	0.00	1.76	3.066	0					6.08
19.183	0.00	1.76	3.063	0					6.08
19.200	0.00	1.76	3.061	0					6.07
19.217	0.00	1.76	3.058	0					6.07
19.233	0.00	1.76	3.056	0					6.07
19.250	0.00	1.76	3.054	0					6.06
19.267	0.00	1.76	3.051	0					6.06
19.283	0.00	1.76	3.049	0					6.06
19.300	0.00	1.76	3.046	0					6.06
19.317	0.00	1.76	3.044	0					6.05
19.333	0.00	1.75	3.042	0					6.05
19.350	0.00	1.75	3.039	0					6.05
19.367	0.00	1.75	3.037	0					6.04
19.383	0.00	1.75	3.034	0					6.04
19.400	0.00	1.75	3.032	0					6.04
19.417	0.00	1.75	3.029	0					6.04
19.433	0.00	1.75	3.027	0					6.03
19.450	0.00	1.75	3.025	0					6.03
19.467	0.00	1.75	3.022	0					6.03
19.483	0.00	1.75	3.020	0					6.02
19.500	0.00	1.75	3.017	0					6.02
19.517	0.00	1.75	3.015	0					6.02
19.533	0.00	1.75	3.013	0					6.01
19.550	0.00	1.75	3.010	0					6.01
19.567	0.00	1.75	3.008	0					6.01
19.583	0.00	1.75	3.005	0					6.01
19.600	0.00	1.75	3.003	0					6.00
19.617	0.00	1.75	3.000	0					6.00
19.633	0.00	1.75	2.998	0					6.00
19.650	0.00	1.75	2.996	0					5.99
19.667	0.00	1.75	2.993	0					5.99
19.683	0.00	1.75	2.991	0					5.99
19.700	0.00	1.75	2.988	0					5.99
19.717	0.00	1.75	2.986	0					5.98
19.733	0.00	1.75	2.984	0					5.98
19.750	0.00	1.75	2.981	0					5.98
19.767	0.00	1.75	2.979	0					5.97
19.783	0.00	1.75	2.976	0					5.97
19.800	0.00	1.75	2.974	0					5.97
19.817	0.00	1.75	2.972	0					5.97
19.833	0.00	1.75	2.969	0					5.96
19.850	0.00	1.75	2.967	0					5.96
19.867	0.00	1.75	2.964	0					5.96
19.883	0.00	1.75	2.962	0					5.95
19.900	0.00	1.75	2.960	0					5.95
19.917	0.00	1.74	2.957	0					5.95
19.933	0.00	1.74	2.955	0					5.95
19.950	0.00	1.74	2.952	0					5.94
19.967	0.00	1.74	2.950	0					5.94
19.983	0.00	1.74	2.948	0					5.94
20.000	0.00	1.74	2.945	0					5.93
20.017	0.00	1.74	2.943	0					5.93
20.033	0.00	1.74	2.940	0					5.93
20.050	0.00	1.74	2.938	0					5.93
20.067	0.00	1.74	2.936	0					5.92

20.083	0.00	1.74	2.933	0					5.92
20.100	0.00	1.74	2.931	0					5.92
20.117	0.00	1.74	2.928	0					5.91
20.133	0.00	1.74	2.926	0					5.91
20.150	0.00	1.74	2.924	0					5.91
20.167	0.00	1.74	2.921	0					5.91
20.183	0.00	1.74	2.919	0					5.90
20.200	0.00	1.74	2.916	0					5.90
20.217	0.00	1.74	2.914	0					5.90
20.233	0.00	1.74	2.912	0					5.89
20.250	0.00	1.74	2.909	0					5.89
20.267	0.00	1.74	2.907	0					5.89
20.283	0.00	1.74	2.904	0					5.89
20.300	0.00	1.74	2.902	0					5.88
20.317	0.00	1.74	2.900	0					5.88
20.333	0.00	1.74	2.897	0					5.88
20.350	0.00	1.74	2.895	0					5.87
20.367	0.00	1.74	2.892	0					5.87
20.383	0.00	1.74	2.890	0					5.87
20.400	0.00	1.74	2.888	0					5.87
20.417	0.00	1.74	2.885	0					5.86
20.433	0.00	1.74	2.883	0					5.86
20.450	0.00	1.74	2.880	0					5.86
20.467	0.00	1.74	2.878	0					5.85
20.483	0.00	1.74	2.876	0					5.85
20.500	0.00	1.73	2.873	0					5.85
20.517	0.00	1.73	2.871	0					5.85
20.533	0.00	1.73	2.868	0					5.84
20.550	0.00	1.73	2.866	0					5.84
20.567	0.00	1.73	2.864	0					5.84
20.583	0.00	1.73	2.861	0					5.83
20.600	0.00	1.73	2.859	0					5.83
20.617	0.00	1.73	2.857	0					5.83
20.633	0.00	1.73	2.854	0					5.83
20.650	0.00	1.73	2.852	0					5.82
20.667	0.00	1.73	2.849	0					5.82
20.683	0.00	1.73	2.847	0					5.82
20.700	0.00	1.73	2.845	0					5.82
20.717	0.00	1.73	2.842	0					5.81
20.733	0.00	1.73	2.840	0					5.81
20.750	0.00	1.73	2.837	0					5.81
20.767	0.00	1.73	2.835	0					5.80
20.783	0.00	1.73	2.833	0					5.80
20.800	0.00	1.73	2.830	0					5.80
20.817	0.00	1.73	2.828	0					5.80
20.833	0.00	1.73	2.826	0					5.79
20.850	0.00	1.73	2.823	0					5.79
20.867	0.00	1.73	2.821	0					5.79
20.883	0.00	1.73	2.818	0					5.78
20.900	0.00	1.73	2.816	0					5.78
20.917	0.00	1.73	2.814	0					5.78
20.933	0.00	1.73	2.811	0					5.78
20.950	0.00	1.73	2.809	0					5.77
20.967	0.00	1.73	2.807	0					5.77
20.983	0.00	1.73	2.804	0					5.77
21.000	0.00	1.73	2.802	0					5.76
21.017	0.00	1.73	2.799	0					5.76
21.033	0.00	1.73	2.797	0					5.76
21.050	0.00	1.73	2.795	0					5.76
21.067	0.00	1.73	2.792	0					5.75
21.083	0.00	1.72	2.790	0					5.75
21.100	0.00	1.72	2.787	0					5.75
21.117	0.00	1.72	2.785	0					5.74
21.133	0.00	1.72	2.783	0					5.74
21.150	0.00	1.72	2.780	0					5.74
21.167	0.00	1.72	2.778	0					5.74
21.183	0.00	1.72	2.776	0					5.73
21.200	0.00	1.72	2.773	0					5.73
21.217	0.00	1.72	2.771	0					5.73
21.233	0.00	1.72	2.768	0					5.72
21.250	0.00	1.72	2.766	0					5.72

21.267	0.00	1.72	2.764	0					5.72
21.283	0.00	1.72	2.761	0					5.72
21.300	0.00	1.72	2.759	0					5.71
21.317	0.00	1.72	2.757	0					5.71
21.333	0.00	1.72	2.754	0					5.71
21.350	0.00	1.72	2.752	0					5.70
21.367	0.00	1.72	2.750	0					5.70
21.383	0.00	1.72	2.747	0					5.70
21.400	0.00	1.72	2.745	0					5.70
21.417	0.00	1.72	2.742	0					5.69
21.433	0.00	1.72	2.740	0					5.69
21.450	0.00	1.72	2.738	0					5.69
21.467	0.00	1.72	2.735	0					5.68
21.483	0.00	1.72	2.733	0					5.68
21.500	0.00	1.72	2.731	0					5.68
21.517	0.00	1.72	2.728	0					5.68
21.533	0.00	1.72	2.726	0					5.67
21.550	0.00	1.72	2.723	0					5.67
21.567	0.00	1.72	2.721	0					5.67
21.583	0.00	1.72	2.719	0					5.67
21.600	0.00	1.72	2.716	0					5.66
21.617	0.00	1.72	2.714	0					5.66
21.633	0.00	1.72	2.712	0					5.66
21.650	0.00	1.72	2.709	0					5.65
21.667	0.00	1.72	2.707	0					5.65
21.683	0.00	1.71	2.705	0					5.65
21.700	0.00	1.71	2.702	0					5.65
21.717	0.00	1.71	2.700	0					5.64
21.733	0.00	1.71	2.697	0					5.64
21.750	0.00	1.71	2.695	0					5.64
21.767	0.00	1.71	2.693	0					5.63
21.783	0.00	1.71	2.690	0					5.63
21.800	0.00	1.71	2.688	0					5.63
21.817	0.00	1.71	2.686	0					5.63
21.833	0.00	1.71	2.683	0					5.62
21.850	0.00	1.71	2.681	0					5.62
21.867	0.00	1.71	2.679	0					5.62
21.883	0.00	1.71	2.676	0					5.61
21.900	0.00	1.71	2.674	0					5.61
21.917	0.00	1.71	2.672	0					5.61
21.933	0.00	1.71	2.669	0					5.61
21.950	0.00	1.71	2.667	0					5.60
21.967	0.00	1.71	2.664	0					5.60
21.983	0.00	1.71	2.662	0					5.60
22.000	0.00	1.71	2.660	0					5.59
22.017	0.00	1.71	2.657	0					5.59
22.033	0.00	1.71	2.655	0					5.59
22.050	0.00	1.71	2.653	0					5.59
22.067	0.00	1.71	2.650	0					5.58
22.083	0.00	1.71	2.648	0					5.58
22.100	0.00	1.71	2.646	0					5.58
22.117	0.00	1.71	2.643	0					5.58
22.133	0.00	1.71	2.641	0					5.57
22.150	0.00	1.71	2.639	0					5.57
22.167	0.00	1.71	2.636	0					5.57
22.183	0.00	1.71	2.634	0					5.56
22.200	0.00	1.71	2.632	0					5.56
22.217	0.00	1.71	2.629	0					5.56
22.233	0.00	1.71	2.627	0					5.56
22.250	0.00	1.71	2.624	0					5.55
22.267	0.00	1.71	2.622	0					5.55
22.283	0.00	1.70	2.620	0					5.55
22.300	0.00	1.70	2.617	0					5.54
22.317	0.00	1.70	2.615	0					5.54
22.333	0.00	1.70	2.613	0					5.54
22.350	0.00	1.70	2.610	0					5.54
22.367	0.00	1.70	2.608	0					5.53
22.383	0.00	1.70	2.606	0					5.53
22.400	0.00	1.70	2.603	0					5.53
22.417	0.00	1.70	2.601	0					5.53
22.433	0.00	1.70	2.599	0					5.52

22.450	0.00	1.70	2.596	0					5.52
22.467	0.00	1.70	2.594	0					5.52
22.483	0.00	1.70	2.592	0					5.51
22.500	0.00	1.70	2.589	0					5.51
22.517	0.00	1.70	2.587	0					5.51
22.533	0.00	1.70	2.585	0					5.51
22.550	0.00	1.70	2.582	0					5.50
22.567	0.00	1.70	2.580	0					5.50
22.583	0.00	1.70	2.578	0					5.50
22.600	0.00	1.70	2.575	0					5.49
22.617	0.00	1.70	2.573	0					5.49
22.633	0.00	1.70	2.571	0					5.49
22.650	0.00	1.70	2.568	0					5.49
22.667	0.00	1.70	2.566	0					5.48
22.683	0.00	1.70	2.564	0					5.48
22.700	0.00	1.70	2.561	0					5.48
22.717	0.00	1.70	2.559	0					5.47
22.733	0.00	1.70	2.557	0					5.47
22.750	0.00	1.70	2.554	0					5.47
22.767	0.00	1.70	2.552	0					5.46
22.783	0.00	1.70	2.550	0					5.46
22.800	0.00	1.70	2.547	0					5.46
22.817	0.00	1.70	2.545	0					5.46
22.833	0.00	1.70	2.543	0					5.45
22.850	0.00	1.70	2.540	0					5.45
22.867	0.00	1.69	2.538	0					5.45
22.883	0.00	1.69	2.536	0					5.44
22.900	0.00	1.69	2.533	0					5.44
22.917	0.00	1.69	2.531	0					5.44
22.933	0.00	1.69	2.529	0					5.44
22.950	0.00	1.69	2.526	0					5.43
22.967	0.00	1.69	2.524	0					5.43
22.983	0.00	1.69	2.522	0					5.43
23.000	0.00	1.69	2.519	0					5.42
23.017	0.00	1.69	2.517	0					5.42
23.033	0.00	1.69	2.515	0					5.42
23.050	0.00	1.69	2.512	0					5.42
23.067	0.00	1.69	2.510	0					5.41
23.083	0.00	1.69	2.508	0					5.41
23.100	0.00	1.69	2.505	0					5.41
23.117	0.00	1.69	2.503	0					5.40
23.133	0.00	1.69	2.501	0					5.40
23.150	0.00	1.69	2.498	0					5.40
23.167	0.00	1.69	2.496	0					5.39
23.183	0.00	1.69	2.494	0					5.39
23.200	0.00	1.69	2.491	0					5.39
23.217	0.00	1.69	2.489	0					5.39
23.233	0.00	1.69	2.487	0					5.38
23.250	0.00	1.69	2.484	0					5.38
23.267	0.00	1.69	2.482	0					5.38
23.283	0.00	1.69	2.480	0					5.37
23.300	0.00	1.69	2.477	0					5.37
23.317	0.00	1.69	2.475	0					5.37
23.333	0.00	1.69	2.473	0					5.37
23.350	0.00	1.69	2.470	0					5.36
23.367	0.00	1.69	2.468	0					5.36
23.383	0.00	1.69	2.466	0					5.36
23.400	0.00	1.69	2.463	0					5.35
23.417	0.00	1.69	2.461	0					5.35
23.433	0.00	1.68	2.459	0					5.35
23.450	0.00	1.68	2.456	0					5.35
23.467	0.00	1.68	2.454	0					5.34
23.483	0.00	1.68	2.452	0					5.34
23.500	0.00	1.68	2.449	0					5.34
23.517	0.00	1.68	2.447	0					5.33
23.533	0.00	1.68	2.445	0					5.33
23.550	0.00	1.68	2.442	0					5.33
23.567	0.00	1.68	2.440	0					5.33
23.583	0.00	1.68	2.438	0					5.32
23.600	0.00	1.68	2.436	0					5.32
23.617	0.00	1.68	2.433	0					5.32

23.633	0.00	1.68	2.431	0					5.31
23.650	0.00	1.68	2.429	0					5.31
23.667	0.00	1.68	2.426	0					5.31
23.683	0.00	1.68	2.424	0					5.30
23.700	0.00	1.68	2.422	0					5.30
23.717	0.00	1.68	2.419	0					5.30
23.733	0.00	1.68	2.417	0					5.30
23.750	0.00	1.68	2.415	0					5.29
23.767	0.00	1.68	2.412	0					5.29
23.783	0.00	1.68	2.410	0					5.29
23.800	0.00	1.68	2.408	0					5.28
23.817	0.00	1.68	2.405	0					5.28
23.833	0.00	1.68	2.403	0					5.28
23.850	0.00	1.68	2.401	0					5.28
23.867	0.00	1.68	2.399	0					5.27
23.883	0.00	1.68	2.396	0					5.27
23.900	0.00	1.68	2.394	0					5.27
23.917	0.00	1.68	2.392	0					5.26
23.933	0.00	1.68	2.389	0					5.26
23.950	0.00	1.68	2.387	0					5.26
23.967	0.00	1.68	2.385	0					5.26
23.983	0.00	1.68	2.382	0					5.25
24.000	0.00	1.68	2.380	0					5.25
24.017	0.00	1.67	2.378	0					5.25
24.033	0.00	1.67	2.375	0					5.24
24.050	0.00	1.67	2.373	0					5.24
24.067	0.00	1.67	2.371	0					5.24
24.083	0.00	1.67	2.369	0					5.24
24.100	0.00	1.67	2.366	0					5.23
24.117	0.00	1.67	2.364	0					5.23
24.133	0.00	1.67	2.362	0					5.23
24.150	0.00	1.67	2.359	0					5.22
24.167	0.00	1.67	2.357	0					5.22
24.183	0.00	1.67	2.355	0					5.22
24.200	0.00	1.67	2.352	0					5.22
24.217	0.00	1.67	2.350	0					5.21
24.233	0.00	1.67	2.348	0					5.21
24.250	0.00	1.67	2.345	0					5.21
24.267	0.00	1.67	2.343	0					5.20
24.283	0.00	1.67	2.341	0					5.20
24.300	0.00	1.67	2.339	0					5.20
24.317	0.00	1.67	2.336	0					5.20
24.333	0.00	1.67	2.334	0					5.19
24.350	0.00	1.67	2.332	0					5.19
24.367	0.00	1.67	2.329	0					5.19
24.383	0.00	1.67	2.327	0					5.18
24.400	0.00	1.67	2.325	0					5.18
24.417	0.00	1.67	2.322	0					5.18
24.433	0.00	1.67	2.320	0					5.18
24.450	0.00	1.67	2.318	0					5.17
24.467	0.00	1.67	2.316	0					5.17
24.483	0.00	1.67	2.313	0					5.17
24.500	0.00	1.67	2.311	0					5.16
24.517	0.00	1.67	2.309	0					5.16
24.533	0.00	1.67	2.306	0					5.16
24.550	0.00	1.67	2.304	0					5.16
24.567	0.00	1.67	2.302	0					5.15
24.583	0.00	1.66	2.300	0					5.15
24.600	0.00	1.66	2.297	0					5.15
24.617	0.00	1.66	2.295	0					5.14
24.633	0.00	1.66	2.293	0					5.14
24.650	0.00	1.66	2.290	0					5.14
24.667	0.00	1.66	2.288	0					5.14
24.683	0.00	1.66	2.286	0					5.13
24.700	0.00	1.66	2.283	0					5.13
24.717	0.00	1.66	2.281	0					5.13
24.733	0.00	1.66	2.279	0					5.12
24.750	0.00	1.66	2.277	0					5.12
24.767	0.00	1.66	2.274	0					5.12
24.783	0.00	1.66	2.272	0					5.12
24.800	0.00	1.66	2.270	0					5.11

24.817	0.00	1.66	2.267	0					5.11
24.833	0.00	1.66	2.265	0					5.11
24.850	0.00	1.66	2.263	0					5.10
24.867	0.00	1.66	2.261	0					5.10
24.883	0.00	1.66	2.258	0					5.10
24.900	0.00	1.66	2.256	0					5.10
24.917	0.00	1.66	2.254	0					5.09
24.933	0.00	1.66	2.251	0					5.09
24.950	0.00	1.66	2.249	0					5.09
24.967	0.00	1.66	2.247	0					5.08
24.983	0.00	1.66	2.245	0					5.08
25.000	0.00	1.66	2.242	0					5.08
25.017	0.00	1.66	2.240	0					5.08
25.033	0.00	1.66	2.238	0					5.07
25.050	0.00	1.66	2.235	0					5.07
25.067	0.00	1.66	2.233	0					5.07
25.083	0.00	1.66	2.231	0					5.06
25.100	0.00	1.66	2.229	0					5.06
25.117	0.00	1.66	2.226	0					5.06
25.133	0.00	1.66	2.224	0					5.06
25.150	0.00	1.66	2.222	0					5.05
25.167	0.00	1.65	2.220	0					5.05
25.183	0.00	1.65	2.217	0					5.05
25.200	0.00	1.65	2.215	0					5.04
25.217	0.00	1.65	2.213	0					5.04
25.233	0.00	1.65	2.210	0					5.04
25.250	0.00	1.65	2.208	0					5.04
25.267	0.00	1.65	2.206	0					5.03
25.283	0.00	1.65	2.204	0					5.03
25.300	0.00	1.65	2.201	0					5.03
25.317	0.00	1.65	2.199	0					5.02
25.333	0.00	1.65	2.197	0					5.02
25.350	0.00	1.65	2.194	0					5.02
25.367	0.00	1.65	2.192	0					5.02
25.383	0.00	1.65	2.190	0					5.01
25.400	0.00	1.65	2.188	0					5.01
25.417	0.00	1.65	2.185	0					5.01
25.433	0.00	1.65	2.183	0					5.00
25.450	0.00	1.65	2.181	0					5.00
25.467	0.00	1.65	2.179	0					5.00
25.483	0.00	1.65	2.176	0					5.00
25.500	0.00	1.65	2.174	0					4.99
25.517	0.00	1.65	2.172	0					4.99
25.533	0.00	1.65	2.169	0					4.99
25.550	0.00	1.65	2.167	0					4.98
25.567	0.00	1.65	2.165	0					4.98
25.583	0.00	1.65	2.163	0					4.98
25.600	0.00	1.65	2.160	0					4.98
25.617	0.00	1.65	2.158	0					4.97
25.633	0.00	1.65	2.156	0					4.97
25.650	0.00	1.65	2.154	0					4.97
25.667	0.00	1.65	2.151	0					4.96
25.683	0.00	1.65	2.149	0					4.96
25.700	0.00	1.65	2.147	0					4.96
25.717	0.00	1.65	2.144	0					4.96
25.733	0.00	1.65	2.142	0					4.95
25.750	0.00	1.64	2.140	0					4.95
25.767	0.00	1.64	2.138	0					4.95
25.783	0.00	1.64	2.135	0					4.94
25.800	0.00	1.64	2.133	0					4.94
25.817	0.00	1.64	2.131	0					4.94
25.833	0.00	1.64	2.129	0					4.94
25.850	0.00	1.64	2.126	0					4.93
25.867	0.00	1.64	2.124	0					4.93
25.883	0.00	1.64	2.122	0					4.93
25.900	0.00	1.64	2.120	0					4.92
25.917	0.00	1.64	2.117	0					4.92
25.933	0.00	1.64	2.115	0					4.92
25.950	0.00	1.64	2.113	0					4.92
25.967	0.00	1.64	2.111	0					4.91
25.983	0.00	1.64	2.108	0					4.91

26.000	0.00	1.64	2.106	0					4.91
26.017	0.00	1.64	2.104	0					4.90
26.033	0.00	1.64	2.102	0					4.90
26.050	0.00	1.64	2.099	0					4.90
26.067	0.00	1.64	2.097	0					4.90
26.083	0.00	1.64	2.095	0					4.89
26.100	0.00	1.64	2.092	0					4.89
26.117	0.00	1.64	2.090	0					4.89
26.133	0.00	1.64	2.088	0					4.88
26.150	0.00	1.64	2.086	0					4.88
26.167	0.00	1.64	2.083	0					4.88
26.183	0.00	1.64	2.081	0					4.88
26.200	0.00	1.64	2.079	0					4.87
26.217	0.00	1.64	2.077	0					4.87
26.233	0.00	1.64	2.074	0					4.87
26.250	0.00	1.64	2.072	0					4.87
26.267	0.00	1.64	2.070	0					4.86
26.283	0.00	1.64	2.068	0					4.86
26.300	0.00	1.64	2.065	0					4.86
26.317	0.00	1.64	2.063	0					4.85
26.333	0.00	1.64	2.061	0					4.85
26.350	0.00	1.63	2.059	0					4.85
26.367	0.00	1.63	2.056	0					4.85
26.383	0.00	1.63	2.054	0					4.84
26.400	0.00	1.63	2.052	0					4.84
26.417	0.00	1.63	2.050	0					4.84
26.433	0.00	1.63	2.047	0					4.83
26.450	0.00	1.63	2.045	0					4.83
26.467	0.00	1.63	2.043	0					4.83
26.483	0.00	1.63	2.041	0					4.83
26.500	0.00	1.63	2.038	0					4.82
26.517	0.00	1.63	2.036	0					4.82
26.533	0.00	1.63	2.034	0					4.82
26.550	0.00	1.63	2.032	0					4.81
26.567	0.00	1.63	2.029	0					4.81
26.583	0.00	1.63	2.027	0					4.81
26.600	0.00	1.63	2.025	0					4.81
26.617	0.00	1.63	2.023	0					4.80
26.633	0.00	1.63	2.020	0					4.80
26.650	0.00	1.63	2.018	0					4.80
26.667	0.00	1.63	2.016	0					4.79
26.683	0.00	1.63	2.014	0					4.79
26.700	0.00	1.63	2.011	0					4.79
26.717	0.00	1.63	2.009	0					4.79
26.733	0.00	1.63	2.007	0					4.78
26.750	0.00	1.63	2.005	0					4.78
26.767	0.00	1.63	2.002	0					4.78
26.783	0.00	1.63	2.000	0					4.78
26.800	0.00	1.63	1.998	0					4.77
26.817	0.00	1.63	1.996	0					4.77
26.833	0.00	1.63	1.994	0					4.77
26.850	0.00	1.63	1.991	0					4.76
26.867	0.00	1.63	1.989	0					4.76
26.883	0.00	1.63	1.987	0					4.76
26.900	0.00	1.63	1.985	0					4.76
26.917	0.00	1.63	1.982	0					4.75
26.933	0.00	1.63	1.980	0					4.75
26.950	0.00	1.62	1.978	0					4.75
26.967	0.00	1.62	1.976	0					4.74
26.983	0.00	1.62	1.973	0					4.74
27.000	0.00	1.62	1.971	0					4.74
27.017	0.00	1.62	1.969	0					4.74
27.033	0.00	1.62	1.967	0					4.73
27.050	0.00	1.62	1.964	0					4.73
27.067	0.00	1.62	1.962	0					4.73
27.083	0.00	1.62	1.960	0					4.72
27.100	0.00	1.62	1.958	0					4.72
27.117	0.00	1.62	1.955	0					4.72
27.133	0.00	1.62	1.953	0					4.72
27.150	0.00	1.62	1.951	0					4.71
27.167	0.00	1.62	1.949	0					4.71

27.183	0.00	1.62	1.947	0					4.71
27.200	0.00	1.62	1.944	0					4.71
27.217	0.00	1.62	1.942	0					4.70
27.233	0.00	1.62	1.940	0					4.70
27.250	0.00	1.62	1.938	0					4.70
27.267	0.00	1.62	1.935	0					4.69
27.283	0.00	1.62	1.933	0					4.69
27.300	0.00	1.62	1.931	0					4.69
27.317	0.00	1.62	1.929	0					4.69
27.333	0.00	1.62	1.926	0					4.68
27.350	0.00	1.62	1.924	0					4.68
27.367	0.00	1.62	1.922	0					4.68
27.383	0.00	1.62	1.920	0					4.67
27.400	0.00	1.62	1.918	0					4.67
27.417	0.00	1.62	1.915	0					4.67
27.433	0.00	1.62	1.913	0					4.67
27.450	0.00	1.62	1.911	0					4.66
27.467	0.00	1.62	1.909	0					4.66
27.483	0.00	1.62	1.906	0					4.66
27.500	0.00	1.62	1.904	0					4.66
27.517	0.00	1.62	1.902	0					4.65
27.533	0.00	1.61	1.900	0					4.65
27.550	0.00	1.61	1.898	0					4.65
27.567	0.00	1.61	1.895	0					4.64
27.583	0.00	1.61	1.893	0					4.64
27.600	0.00	1.61	1.891	0					4.64
27.617	0.00	1.61	1.889	0					4.64
27.633	0.00	1.61	1.886	0					4.63
27.650	0.00	1.61	1.884	0					4.63
27.667	0.00	1.61	1.882	0					4.63
27.683	0.00	1.61	1.880	0					4.62
27.700	0.00	1.61	1.878	0					4.62
27.717	0.00	1.61	1.875	0					4.62
27.733	0.00	1.61	1.873	0					4.62
27.750	0.00	1.61	1.871	0					4.61
27.767	0.00	1.61	1.869	0					4.61
27.783	0.00	1.61	1.866	0					4.61
27.800	0.00	1.61	1.864	0					4.61
27.817	0.00	1.61	1.862	0					4.60
27.833	0.00	1.61	1.860	0					4.60
27.850	0.00	1.61	1.858	0					4.60
27.867	0.00	1.61	1.855	0					4.59
27.883	0.00	1.61	1.853	0					4.59
27.900	0.00	1.61	1.851	0					4.59
27.917	0.00	1.61	1.849	0					4.59
27.933	0.00	1.61	1.846	0					4.58
27.950	0.00	1.61	1.844	0					4.58
27.967	0.00	1.61	1.842	0					4.58
27.983	0.00	1.61	1.840	0					4.57
28.000	0.00	1.61	1.838	0					4.57
28.017	0.00	1.61	1.835	0					4.57
28.033	0.00	1.61	1.833	0					4.57
28.050	0.00	1.61	1.831	0					4.56
28.067	0.00	1.61	1.829	0					4.56
28.083	0.00	1.61	1.827	0					4.56
28.100	0.00	1.61	1.824	0					4.56
28.117	0.00	1.61	1.822	0					4.55
28.133	0.00	1.60	1.820	0					4.55
28.150	0.00	1.60	1.818	0					4.55
28.167	0.00	1.60	1.815	0					4.54
28.183	0.00	1.60	1.813	0					4.54
28.200	0.00	1.60	1.811	0					4.54
28.217	0.00	1.60	1.809	0					4.54
28.233	0.00	1.60	1.807	0					4.53
28.250	0.00	1.60	1.804	0					4.53
28.267	0.00	1.60	1.802	0					4.53
28.283	0.00	1.60	1.800	0					4.53
28.300	0.00	1.60	1.798	0					4.52
28.317	0.00	1.60	1.796	0					4.52
28.333	0.00	1.60	1.793	0					4.52
28.350	0.00	1.60	1.791	0					4.51

28.367	0.00	1.60	1.789	0					4.51
28.383	0.00	1.60	1.787	0					4.51
28.400	0.00	1.60	1.785	0					4.51
28.417	0.00	1.60	1.782	0					4.50
28.433	0.00	1.60	1.780	0					4.50
28.450	0.00	1.60	1.778	0					4.50
28.467	0.00	1.60	1.776	0					4.49
28.483	0.00	1.60	1.774	0					4.49
28.500	0.00	1.60	1.771	0					4.49
28.517	0.00	1.60	1.769	0					4.49
28.533	0.00	1.60	1.767	0					4.48
28.550	0.00	1.60	1.765	0					4.48
28.567	0.00	1.60	1.763	0					4.48
28.583	0.00	1.59	1.760	0					4.47
28.600	0.00	1.59	1.758	0					4.47
28.617	0.00	1.59	1.756	0					4.47
28.633	0.00	1.59	1.754	0					4.47
28.650	0.00	1.59	1.752	0					4.46
28.667	0.00	1.59	1.749	0					4.46
28.683	0.00	1.59	1.747	0					4.46
28.700	0.00	1.59	1.745	0					4.45
28.717	0.00	1.59	1.743	0					4.45
28.733	0.00	1.59	1.741	0					4.45
28.750	0.00	1.59	1.738	0					4.44
28.767	0.00	1.59	1.736	0					4.44
28.783	0.00	1.59	1.734	0					4.44
28.800	0.00	1.59	1.732	0					4.44
28.817	0.00	1.59	1.730	0					4.43
28.833	0.00	1.59	1.728	0					4.43
28.850	0.00	1.59	1.725	0					4.43
28.867	0.00	1.58	1.723	0					4.42
28.883	0.00	1.58	1.721	0					4.42
28.900	0.00	1.58	1.719	0					4.42
28.917	0.00	1.58	1.717	0					4.42
28.933	0.00	1.58	1.714	0					4.41
28.950	0.00	1.58	1.712	0					4.41
28.967	0.00	1.58	1.710	0					4.41
28.983	0.00	1.58	1.708	0					4.40
29.000	0.00	1.58	1.706	0					4.40
29.017	0.00	1.58	1.704	0					4.40
29.033	0.00	1.58	1.701	0					4.40
29.050	0.00	1.58	1.699	0					4.39
29.067	0.00	1.58	1.697	0					4.39
29.083	0.00	1.58	1.695	0					4.39
29.100	0.00	1.58	1.693	0					4.38
29.117	0.00	1.58	1.690	0					4.38
29.133	0.00	1.58	1.688	0					4.38
29.150	0.00	1.57	1.686	0					4.37
29.167	0.00	1.57	1.684	0					4.37
29.183	0.00	1.57	1.682	0					4.37
29.200	0.00	1.57	1.680	0					4.37
29.217	0.00	1.57	1.677	0					4.36
29.233	0.00	1.57	1.675	0					4.36
29.250	0.00	1.57	1.673	0					4.36
29.267	0.00	1.57	1.671	0					4.35
29.283	0.00	1.57	1.669	0					4.35
29.300	0.00	1.57	1.667	0					4.35
29.317	0.00	1.57	1.664	0					4.35
29.333	0.00	1.57	1.662	0					4.34
29.350	0.00	1.57	1.660	0					4.34
29.367	0.00	1.57	1.658	0					4.34
29.383	0.00	1.57	1.656	0					4.33
29.400	0.00	1.57	1.654	0					4.33
29.417	0.00	1.57	1.652	0					4.33
29.433	0.00	1.57	1.649	0					4.33
29.450	0.00	1.56	1.647	0					4.32
29.467	0.00	1.56	1.645	0					4.32
29.483	0.00	1.56	1.643	0					4.32
29.500	0.00	1.56	1.641	0					4.31
29.517	0.00	1.56	1.639	0					4.31
29.533	0.00	1.56	1.636	0					4.31

29.550	0.00	1.56	1.634	0					4.31
29.567	0.00	1.56	1.632	0					4.30
29.583	0.00	1.56	1.630	0					4.30
29.600	0.00	1.56	1.628	0					4.30
29.617	0.00	1.56	1.626	0					4.29
29.633	0.00	1.56	1.624	0					4.29
29.650	0.00	1.56	1.621	0					4.29
29.667	0.00	1.56	1.619	0					4.29
29.683	0.00	1.56	1.617	0					4.28
29.700	0.00	1.56	1.615	0					4.28
29.717	0.00	1.56	1.613	0					4.28
29.733	0.00	1.55	1.611	0					4.27
29.750	0.00	1.55	1.609	0					4.27
29.767	0.00	1.55	1.606	0					4.27
29.783	0.00	1.55	1.604	0					4.27
29.800	0.00	1.55	1.602	0					4.26
29.817	0.00	1.55	1.600	0					4.26
29.833	0.00	1.55	1.598	0					4.26
29.850	0.00	1.55	1.596	0					4.25
29.867	0.00	1.55	1.594	0					4.25
29.883	0.00	1.55	1.591	0					4.25
29.900	0.00	1.55	1.589	0					4.25
29.917	0.00	1.55	1.587	0					4.24
29.933	0.00	1.55	1.585	0					4.24
29.950	0.00	1.55	1.583	0					4.24
29.967	0.00	1.55	1.581	0					4.23
29.983	0.00	1.55	1.579	0					4.23
30.000	0.00	1.55	1.577	0					4.23
30.017	0.00	1.55	1.574	0					4.23
30.033	0.00	1.54	1.572	0					4.22
30.050	0.00	1.54	1.570	0					4.22
30.067	0.00	1.54	1.568	0					4.22
30.083	0.00	1.54	1.566	0					4.21
30.100	0.00	1.54	1.564	0					4.21
30.117	0.00	1.54	1.562	0					4.21
30.133	0.00	1.54	1.560	0					4.21
30.150	0.00	1.54	1.557	0					4.20
30.167	0.00	1.54	1.555	0					4.20
30.183	0.00	1.54	1.553	0					4.20
30.200	0.00	1.54	1.551	0					4.19
30.217	0.00	1.54	1.549	0					4.19
30.233	0.00	1.54	1.547	0					4.19
30.250	0.00	1.54	1.545	0					4.19
30.267	0.00	1.54	1.543	0					4.18
30.283	0.00	1.54	1.540	0					4.18
30.300	0.00	1.54	1.538	0					4.18
30.317	0.00	1.53	1.536	0					4.17
30.333	0.00	1.53	1.534	0					4.17
30.350	0.00	1.53	1.532	0					4.17
30.367	0.00	1.53	1.530	0					4.17
30.383	0.00	1.53	1.528	0					4.16
30.400	0.00	1.53	1.526	0					4.16
30.417	0.00	1.53	1.524	0					4.16
30.433	0.00	1.53	1.521	0					4.16
30.450	0.00	1.53	1.519	0					4.15
30.467	0.00	1.53	1.517	0					4.15
30.483	0.00	1.53	1.515	0					4.15
30.500	0.00	1.53	1.513	0					4.14
30.517	0.00	1.53	1.511	0					4.14
30.533	0.00	1.53	1.509	0					4.14
30.550	0.00	1.53	1.507	0					4.14
30.567	0.00	1.53	1.505	0					4.13
30.583	0.00	1.53	1.502	0					4.13
30.600	0.00	1.53	1.500	0					4.13
30.617	0.00	1.52	1.498	0					4.12
30.633	0.00	1.52	1.496	0					4.12
30.650	0.00	1.52	1.494	0					4.12
30.667	0.00	1.52	1.492	0					4.12
30.683	0.00	1.52	1.490	0					4.11
30.700	0.00	1.52	1.488	0					4.11
30.717	0.00	1.52	1.486	0					4.11

30.733	0.00	1.52	1.484	0					4.10
30.750	0.00	1.52	1.482	0					4.10
30.767	0.00	1.52	1.479	0					4.10
30.783	0.00	1.52	1.477	0					4.10
30.800	0.00	1.52	1.475	0					4.09
30.817	0.00	1.52	1.473	0					4.09
30.833	0.00	1.52	1.471	0					4.09
30.850	0.00	1.52	1.469	0					4.09
30.867	0.00	1.52	1.467	0					4.08
30.883	0.00	1.52	1.465	0					4.08
30.900	0.00	1.52	1.463	0					4.08
30.917	0.00	1.51	1.461	0					4.07
30.933	0.00	1.51	1.459	0					4.07
30.950	0.00	1.51	1.456	0					4.07
30.967	0.00	1.51	1.454	0					4.07
30.983	0.00	1.51	1.452	0					4.06
31.000	0.00	1.51	1.450	0					4.06
31.017	0.00	1.51	1.448	0					4.06
31.033	0.00	1.51	1.446	0					4.05
31.050	0.00	1.51	1.444	0					4.05
31.067	0.00	1.51	1.442	0					4.05
31.083	0.00	1.51	1.440	0					4.05
31.100	0.00	1.51	1.438	0					4.04
31.117	0.00	1.51	1.436	0					4.04
31.133	0.00	1.51	1.434	0					4.04
31.150	0.00	1.51	1.431	0					4.04
31.167	0.00	1.51	1.429	0					4.03
31.183	0.00	1.51	1.427	0					4.03
31.200	0.00	1.51	1.425	0					4.03
31.217	0.00	1.50	1.423	0					4.02
31.233	0.00	1.50	1.421	0					4.02
31.250	0.00	1.50	1.419	0					4.02
31.267	0.00	1.50	1.417	0					4.02
31.283	0.00	1.50	1.415	0					4.01
31.300	0.00	1.50	1.413	0					4.01
31.317	0.00	1.50	1.411	0					4.01
31.333	0.00	1.50	1.409	0					4.00
31.350	0.00	1.50	1.407	0					4.00
31.367	0.00	1.50	1.405	0					4.00
31.383	0.00	1.50	1.402	0					4.00
31.400	0.00	1.50	1.400	0					3.99
31.417	0.00	1.50	1.398	0					3.99
31.433	0.00	1.50	1.396	0					3.99
31.450	0.00	1.50	1.394	0					3.99
31.467	0.00	1.50	1.392	0					3.98
31.483	0.00	1.50	1.390	0					3.98
31.500	0.00	1.50	1.388	0					3.98
31.517	0.00	1.49	1.386	0					3.97
31.533	0.00	1.49	1.384	0					3.97
31.550	0.00	1.49	1.382	0					3.97
31.567	0.00	1.49	1.380	0					3.97
31.583	0.00	1.49	1.378	0					3.96
31.600	0.00	1.49	1.376	0					3.96
31.617	0.00	1.49	1.374	0					3.96
31.633	0.00	1.49	1.372	0					3.96
31.650	0.00	1.49	1.370	0					3.95
31.667	0.00	1.49	1.367	0					3.95
31.683	0.00	1.49	1.365	0					3.95
31.700	0.00	1.49	1.363	0					3.94
31.717	0.00	1.49	1.361	0					3.94
31.733	0.00	1.49	1.359	0					3.94
31.750	0.00	1.49	1.357	0					3.94
31.767	0.00	1.49	1.355	0					3.93
31.783	0.00	1.49	1.353	0					3.93
31.800	0.00	1.49	1.351	0					3.93
31.817	0.00	1.49	1.349	0					3.93
31.833	0.00	1.48	1.347	0					3.92
31.850	0.00	1.48	1.345	0					3.92
31.867	0.00	1.48	1.343	0					3.92
31.883	0.00	1.48	1.341	0					3.91
31.900	0.00	1.48	1.339	0					3.91

31.917	0.00	1.48	1.337	0					3.91
31.933	0.00	1.48	1.335	0					3.91
31.950	0.00	1.48	1.333	0					3.90
31.967	0.00	1.48	1.331	0					3.90
31.983	0.00	1.48	1.329	0					3.90
32.000	0.00	1.48	1.327	0					3.90
32.017	0.00	1.48	1.325	0					3.89
32.033	0.00	1.48	1.323	0					3.89
32.050	0.00	1.48	1.320	0					3.89
32.067	0.00	1.48	1.318	0					3.88
32.083	0.00	1.48	1.316	0					3.88
32.100	0.00	1.48	1.314	0					3.88
32.117	0.00	1.48	1.312	0					3.88
32.133	0.00	1.47	1.310	0					3.87
32.150	0.00	1.47	1.308	0					3.87
32.167	0.00	1.47	1.306	0					3.87
32.183	0.00	1.47	1.304	0					3.87
32.200	0.00	1.47	1.302	0					3.86
32.217	0.00	1.47	1.300	0					3.86
32.233	0.00	1.47	1.298	0					3.86
32.250	0.00	1.47	1.296	0					3.85
32.267	0.00	1.47	1.294	0					3.85
32.283	0.00	1.47	1.292	0					3.85
32.300	0.00	1.47	1.290	0					3.85
32.317	0.00	1.47	1.288	0					3.84
32.333	0.00	1.47	1.286	0					3.84
32.350	0.00	1.47	1.284	0					3.84
32.367	0.00	1.47	1.282	0					3.84
32.383	0.00	1.47	1.280	0					3.83
32.400	0.00	1.47	1.278	0					3.83
32.417	0.00	1.47	1.276	0					3.83
32.433	0.00	1.47	1.274	0					3.83
32.450	0.00	1.46	1.272	0					3.82
32.467	0.00	1.46	1.270	0					3.82
32.483	0.00	1.46	1.268	0					3.82
32.500	0.00	1.46	1.266	0					3.81
32.517	0.00	1.46	1.264	0					3.81
32.533	0.00	1.46	1.262	0					3.81
32.550	0.00	1.46	1.260	0					3.81
32.567	0.00	1.46	1.258	0					3.80
32.583	0.00	1.46	1.256	0					3.80
32.600	0.00	1.46	1.254	0					3.80
32.617	0.00	1.46	1.252	0					3.80
32.633	0.00	1.46	1.250	0					3.79
32.650	0.00	1.46	1.248	0					3.79
32.667	0.00	1.46	1.246	0					3.79
32.683	0.00	1.46	1.244	0					3.78
32.700	0.00	1.46	1.242	0					3.78
32.717	0.00	1.46	1.240	0					3.78
32.733	0.00	1.46	1.238	0					3.78
32.750	0.00	1.45	1.236	0					3.77
32.767	0.00	1.45	1.234	0					3.77
32.783	0.00	1.45	1.232	0					3.77
32.800	0.00	1.45	1.230	0					3.77
32.817	0.00	1.45	1.228	0					3.76
32.833	0.00	1.45	1.226	0					3.76
32.850	0.00	1.45	1.224	0					3.76
32.867	0.00	1.45	1.222	0					3.76
32.883	0.00	1.45	1.220	0					3.75
32.900	0.00	1.45	1.218	0					3.75
32.917	0.00	1.45	1.216	0					3.75
32.933	0.00	1.45	1.214	0					3.74
32.950	0.00	1.45	1.212	0					3.74
32.967	0.00	1.45	1.210	0					3.74
32.983	0.00	1.45	1.208	0					3.74
33.000	0.00	1.45	1.206	0					3.73
33.017	0.00	1.45	1.204	0					3.73
33.033	0.00	1.45	1.202	0					3.73
33.050	0.00	1.45	1.200	0					3.73
33.067	0.00	1.44	1.198	0					3.72
33.083	0.00	1.44	1.196	0					3.72

33.100	0.00	1.44	1.194	O					3.72
33.117	0.00	1.44	1.192	O					3.72
33.133	0.00	1.44	1.190	O					3.71
33.150	0.00	1.44	1.188	O					3.71
33.167	0.00	1.44	1.186	O					3.71
33.183	0.00	1.44	1.184	O					3.71
33.200	0.00	1.44	1.182	O					3.70
33.217	0.00	1.44	1.180	O					3.70
33.233	0.00	1.44	1.178	O					3.70
33.250	0.00	1.44	1.176	O					3.69
33.267	0.00	1.44	1.174	O					3.69
33.283	0.00	1.44	1.172	O					3.69
33.300	0.00	1.44	1.170	O					3.69
33.317	0.00	1.44	1.168	O					3.68
33.333	0.00	1.44	1.166	O					3.68
33.350	0.00	1.44	1.164	O					3.68
33.367	0.00	1.44	1.162	O					3.68
33.383	0.00	1.43	1.160	O					3.67
33.400	0.00	1.43	1.158	O					3.67
33.417	0.00	1.43	1.156	O					3.67
33.433	0.00	1.43	1.154	O					3.67
33.450	0.00	1.43	1.152	O					3.66
33.467	0.00	1.43	1.150	O					3.66
33.483	0.00	1.43	1.148	O					3.66
33.500	0.00	1.43	1.146	O					3.65
33.517	0.00	1.43	1.144	O					3.65
33.533	0.00	1.43	1.142	O					3.65
33.550	0.00	1.43	1.140	O					3.65
33.567	0.00	1.43	1.138	O					3.64
33.583	0.00	1.43	1.136	O					3.64
33.600	0.00	1.43	1.134	O					3.64
33.617	0.00	1.43	1.132	O					3.64
33.633	0.00	1.43	1.130	O					3.63
33.650	0.00	1.43	1.129	O					3.63
33.667	0.00	1.43	1.127	O					3.63
33.683	0.00	1.43	1.125	O					3.63
33.700	0.00	1.42	1.123	O					3.62
33.717	0.00	1.42	1.121	O					3.62
33.733	0.00	1.42	1.119	O					3.62
33.750	0.00	1.42	1.117	O					3.62
33.767	0.00	1.42	1.115	O					3.61
33.783	0.00	1.42	1.113	O					3.61
33.800	0.00	1.42	1.111	O					3.61
33.817	0.00	1.42	1.109	O					3.61
33.833	0.00	1.42	1.107	O					3.60
33.850	0.00	1.42	1.105	O					3.60
33.867	0.00	1.42	1.103	O					3.60
33.883	0.00	1.42	1.101	O					3.59
33.900	0.00	1.42	1.099	O					3.59
33.917	0.00	1.42	1.097	O					3.59
33.933	0.00	1.42	1.095	O					3.59
33.950	0.00	1.42	1.093	O					3.58
33.967	0.00	1.42	1.091	O					3.58
33.983	0.00	1.42	1.089	O					3.58
34.000	0.00	1.42	1.087	O					3.58
34.017	0.00	1.41	1.085	O					3.57
34.033	0.00	1.41	1.084	O					3.57
34.050	0.00	1.41	1.082	O					3.57
34.067	0.00	1.41	1.080	O					3.57
34.083	0.00	1.41	1.078	O					3.56
34.100	0.00	1.41	1.076	O					3.56
34.117	0.00	1.41	1.074	O					3.56
34.133	0.00	1.41	1.072	O					3.56
34.150	0.00	1.41	1.070	O					3.55
34.167	0.00	1.41	1.068	O					3.55
34.183	0.00	1.41	1.066	O					3.55
34.200	0.00	1.41	1.064	O					3.55
34.217	0.00	1.41	1.062	O					3.54
34.233	0.00	1.41	1.060	O					3.54
34.250	0.00	1.41	1.058	O					3.54
34.267	0.00	1.41	1.056	O					3.54

34.283	0.00	1.41	1.054	0					3.53
34.300	0.00	1.41	1.052	0					3.53
34.317	0.00	1.41	1.051	0					3.53
34.333	0.00	1.40	1.049	0					3.52
34.350	0.00	1.40	1.047	0					3.52
34.367	0.00	1.40	1.045	0					3.52
34.383	0.00	1.40	1.043	0					3.52
34.400	0.00	1.40	1.041	0					3.51
34.417	0.00	1.40	1.039	0					3.51
34.433	0.00	1.40	1.037	0					3.51
34.450	0.00	1.40	1.035	0					3.51
34.467	0.00	1.40	1.033	0					3.50
34.483	0.00	1.40	1.031	0					3.50
34.500	0.00	1.40	1.029	0					3.50
34.517	0.00	1.40	1.027	0					3.49
34.533	0.00	1.40	1.025	0					3.48
34.550	0.00	1.40	1.023	0					3.48
34.567	0.00	1.40	1.022	0					3.47
34.583	0.00	1.40	1.020	0					3.47
34.600	0.00	1.40	1.018	0					3.46
34.617	0.00	1.40	1.016	0					3.45
34.633	0.00	1.39	1.014	0					3.45
34.650	0.00	1.39	1.012	0					3.44
34.667	0.00	1.39	1.010	0					3.43
34.683	0.00	1.39	1.008	0					3.43
34.700	0.00	1.39	1.006	0					3.42
34.717	0.00	1.39	1.004	0					3.41
34.733	0.00	1.39	1.002	0					3.41
34.750	0.00	1.39	1.000	0					3.40
34.767	0.00	1.39	0.999	0					3.40
34.783	0.00	1.39	0.997	0					3.39
34.800	0.00	1.39	0.995	0					3.38
34.817	0.00	1.39	0.993	0					3.38
34.833	0.00	1.39	0.991	0					3.37
34.850	0.00	1.39	0.989	0					3.36
34.867	0.00	1.39	0.987	0					3.36
34.883	0.00	1.39	0.985	0					3.35
34.900	0.00	1.38	0.983	0					3.34
34.917	0.00	1.38	0.981	0					3.34
34.933	0.00	1.38	0.979	0					3.33
34.950	0.00	1.38	0.978	0					3.33
34.967	0.00	1.38	0.976	0					3.32
34.983	0.00	1.38	0.974	0					3.31
35.000	0.00	1.38	0.972	0					3.31
35.017	0.00	1.38	0.970	0					3.30
35.033	0.00	1.38	0.968	0					3.29
35.050	0.00	1.38	0.966	0					3.29
35.067	0.00	1.38	0.964	0					3.28
35.083	0.00	1.38	0.962	0					3.27
35.100	0.00	1.38	0.960	0					3.27
35.117	0.00	1.38	0.959	0					3.26
35.133	0.00	1.38	0.957	0					3.26
35.150	0.00	1.37	0.955	0					3.25
35.167	0.00	1.37	0.953	0					3.24
35.183	0.00	1.37	0.951	0					3.24
35.200	0.00	1.37	0.949	0					3.23
35.217	0.00	1.37	0.947	0					3.22
35.233	0.00	1.37	0.945	0					3.22
35.250	0.00	1.37	0.943	0					3.21
35.267	0.00	1.37	0.942	0					3.21
35.283	0.00	1.37	0.940	0					3.20
35.300	0.00	1.37	0.938	0					3.19
35.317	0.00	1.37	0.936	0					3.19
35.333	0.00	1.37	0.934	0					3.18
35.350	0.00	1.37	0.932	0					3.17
35.367	0.00	1.37	0.930	0					3.17
35.383	0.00	1.37	0.928	0					3.16
35.400	0.00	1.37	0.926	0					3.15
35.417	0.00	1.36	0.925	0					3.15
35.433	0.00	1.36	0.923	0					3.14
35.450	0.00	1.36	0.921	0					3.14

35.467	0.00	1.36	0.919	0					3.13
35.483	0.00	1.36	0.917	0					3.12
35.500	0.00	1.36	0.915	0					3.12
35.517	0.00	1.36	0.913	0					3.11
35.533	0.00	1.36	0.911	0					3.10
35.550	0.00	1.36	0.910	0					3.10
35.567	0.00	1.36	0.908	0					3.09
35.583	0.00	1.36	0.906	0					3.09
35.600	0.00	1.36	0.904	0					3.08
35.617	0.00	1.36	0.902	0					3.07
35.633	0.00	1.36	0.900	0					3.07
35.650	0.00	1.36	0.898	0					3.06
35.667	0.00	1.36	0.896	0					3.05
35.683	0.00	1.35	0.895	0					3.05
35.700	0.00	1.35	0.893	0					3.04
35.717	0.00	1.35	0.891	0					3.04
35.733	0.00	1.35	0.889	0					3.03
35.750	0.00	1.35	0.887	0					3.02
35.767	0.00	1.35	0.885	0					3.02
35.783	0.00	1.35	0.883	0					3.01
35.800	0.00	1.35	0.882	0					3.01
35.817	0.00	1.35	0.880	0					3.00
35.833	0.00	1.35	0.878	0					2.99
35.850	0.00	1.35	0.876	0					2.99
35.867	0.00	1.35	0.874	0					2.98
35.883	0.00	1.35	0.872	0					2.97
35.900	0.00	1.35	0.870	0					2.97
35.917	0.00	1.35	0.869	0					2.96
35.933	0.00	1.35	0.867	0					2.96
35.950	0.00	1.34	0.865	0					2.95
35.967	0.00	1.34	0.863	0					2.94
35.983	0.00	1.34	0.861	0					2.94
36.000	0.00	1.34	0.859	0					2.93
36.017	0.00	1.34	0.857	0					2.92
36.033	0.00	1.34	0.856	0					2.92
36.050	0.00	1.34	0.854	0					2.91
36.067	0.00	1.34	0.852	0					2.91
36.083	0.00	1.34	0.850	0					2.90
36.100	0.00	1.34	0.848	0					2.89
36.117	0.00	1.34	0.846	0					2.89
36.133	0.00	1.34	0.845	0					2.88
36.150	0.00	1.34	0.843	0					2.88
36.167	0.00	1.34	0.841	0					2.87
36.183	0.00	1.34	0.839	0					2.86
36.200	0.00	1.34	0.837	0					2.86
36.217	0.00	1.34	0.835	0					2.85
36.233	0.00	1.33	0.833	0					2.84
36.250	0.00	1.33	0.832	0					2.84
36.267	0.00	1.33	0.830	0					2.83
36.283	0.00	1.33	0.828	0					2.83
36.300	0.00	1.33	0.826	0					2.82
36.317	0.00	1.33	0.824	0					2.81
36.333	0.00	1.33	0.822	0					2.81
36.350	0.00	1.33	0.821	0					2.80
36.367	0.00	1.33	0.819	0					2.80
36.383	0.00	1.33	0.817	0					2.79
36.400	0.00	1.33	0.815	0					2.78
36.417	0.00	1.33	0.813	0					2.78
36.433	0.00	1.33	0.811	0					2.77
36.450	0.00	1.33	0.810	0					2.77
36.467	0.00	1.33	0.808	0					2.76
36.483	0.00	1.33	0.806	0					2.75
36.500	0.00	1.32	0.804	0					2.75
36.517	0.00	1.32	0.802	0					2.74
36.533	0.00	1.32	0.801	0					2.74
36.550	0.00	1.32	0.799	0					2.73
36.567	0.00	1.32	0.797	0					2.72
36.583	0.00	1.32	0.795	0					2.72
36.600	0.00	1.32	0.793	0					2.71
36.617	0.00	1.32	0.791	0					2.70
36.633	0.00	1.32	0.790	0					2.70

36.650	0.00	1.32	0.788	0					2.69
36.667	0.00	1.32	0.786	0					2.69
36.683	0.00	1.32	0.784	0					2.68
36.700	0.00	1.32	0.782	0					2.67
36.717	0.00	1.32	0.781	0					2.67
36.733	0.00	1.32	0.779	0					2.66
36.750	0.00	1.32	0.777	0					2.66
36.767	0.00	1.32	0.775	0					2.65
36.783	0.00	1.31	0.773	0					2.64
36.800	0.00	1.31	0.771	0					2.64
36.817	0.00	1.31	0.770	0					2.63
36.833	0.00	1.31	0.768	0					2.63
36.850	0.00	1.31	0.766	0					2.62
36.867	0.00	1.31	0.764	0					2.61
36.883	0.00	1.31	0.762	0					2.61
36.900	0.00	1.31	0.761	0					2.60
36.917	0.00	1.31	0.759	0					2.60
36.933	0.00	1.31	0.757	0					2.59
36.950	0.00	1.31	0.755	0					2.58
36.967	0.00	1.31	0.753	0					2.58
36.983	0.00	1.31	0.752	0					2.57
37.000	0.00	1.31	0.750	0					2.57
37.017	0.00	1.31	0.748	0					2.56
37.033	0.00	1.31	0.746	0					2.55
37.050	0.00	1.30	0.744	0					2.55
37.067	0.00	1.30	0.743	0					2.54
37.083	0.00	1.30	0.741	0					2.54
37.100	0.00	1.30	0.739	0					2.53
37.117	0.00	1.30	0.737	0					2.52
37.133	0.00	1.30	0.735	0					2.52
37.150	0.00	1.30	0.734	0					2.51
37.167	0.00	1.30	0.732	0					2.51
37.183	0.00	1.30	0.730	0					2.50
37.200	0.00	1.30	0.728	0					2.49
37.217	0.00	1.30	0.726	0					2.49
37.233	0.00	1.30	0.725	0					2.48
37.250	0.00	1.30	0.723	0					2.48
37.267	0.00	1.29	0.721	0					2.47
37.283	0.00	1.29	0.719	0					2.46
37.300	0.00	1.29	0.718	0					2.46
37.317	0.00	1.29	0.716	0					2.45
37.333	0.00	1.29	0.714	0					2.44
37.350	0.00	1.29	0.712	0					2.44
37.367	0.00	1.29	0.710	0					2.43
37.383	0.00	1.29	0.709	0					2.43
37.400	0.00	1.28	0.707	0					2.42
37.417	0.00	1.28	0.705	0					2.41
37.433	0.00	1.28	0.703	0					2.41
37.450	0.00	1.28	0.702	0					2.40
37.467	0.00	1.28	0.700	0					2.40
37.483	0.00	1.28	0.698	0					2.39
37.500	0.00	1.28	0.696	0					2.38
37.517	0.00	1.28	0.695	0					2.38
37.533	0.00	1.27	0.693	0					2.37
37.550	0.00	1.27	0.691	0					2.37
37.567	0.00	1.27	0.689	0					2.36
37.583	0.00	1.27	0.688	0					2.35
37.600	0.00	1.27	0.686	0					2.35
37.617	0.00	1.27	0.684	0					2.34
37.633	0.00	1.27	0.682	0					2.34
37.650	0.00	1.27	0.681	0					2.33
37.667	0.00	1.26	0.679	0					2.32
37.683	0.00	1.26	0.677	0					2.32
37.700	0.00	1.26	0.675	0					2.31
37.717	0.00	1.26	0.674	0					2.31
37.733	0.00	1.26	0.672	0					2.30
37.750	0.00	1.26	0.670	0					2.29
37.767	0.00	1.26	0.668	0					2.29
37.783	0.00	1.26	0.667	0					2.28
37.800	0.00	1.26	0.665	0					2.28
37.817	0.00	1.25	0.663	0					2.27

37.833	0.00	1.25	0.661	0					2.26
37.850	0.00	1.25	0.660	0					2.26
37.867	0.00	1.25	0.658	0					2.25
37.883	0.00	1.25	0.656	0					2.25
37.900	0.00	1.25	0.655	0					2.24
37.917	0.00	1.25	0.653	0					2.23
37.933	0.00	1.25	0.651	0					2.23
37.950	0.00	1.24	0.649	0					2.22
37.967	0.00	1.24	0.648	0					2.22
37.983	0.00	1.24	0.646	0					2.21
38.000	0.00	1.24	0.644	0					2.20
38.017	0.00	1.24	0.643	0					2.20
38.033	0.00	1.24	0.641	0					2.19
38.050	0.00	1.24	0.639	0					2.19
38.067	0.00	1.24	0.637	0					2.18
38.083	0.00	1.24	0.636	0					2.18
38.100	0.00	1.23	0.634	0					2.17
38.117	0.00	1.23	0.632	0					2.16
38.133	0.00	1.23	0.631	0					2.16
38.150	0.00	1.23	0.629	0					2.15
38.167	0.00	1.23	0.627	0					2.15
38.183	0.00	1.23	0.626	0					2.14
38.200	0.00	1.23	0.624	0					2.13
38.217	0.00	1.23	0.622	0					2.13
38.233	0.00	1.22	0.621	0					2.12
38.250	0.00	1.22	0.619	0					2.12
38.267	0.00	1.22	0.617	0					2.11
38.283	0.00	1.22	0.615	0					2.11
38.300	0.00	1.22	0.614	0					2.10
38.317	0.00	1.22	0.612	0					2.09
38.333	0.00	1.22	0.610	0					2.09
38.350	0.00	1.22	0.609	0					2.08
38.367	0.00	1.22	0.607	0					2.08
38.383	0.00	1.21	0.605	0					2.07
38.400	0.00	1.21	0.604	0					2.06
38.417	0.00	1.21	0.602	0					2.06
38.433	0.00	1.21	0.600	0					2.05
38.450	0.00	1.21	0.599	0					2.05
38.467	0.00	1.21	0.597	0					2.04
38.483	0.00	1.21	0.595	0					2.04
38.500	0.00	1.21	0.594	0					2.03
38.517	0.00	1.20	0.592	0					2.02
38.533	0.00	1.20	0.590	0					2.02
38.550	0.00	1.20	0.589	0					2.01
38.567	0.00	1.20	0.587	0					2.01
38.583	0.00	1.20	0.585	0					2.00
38.600	0.00	1.20	0.584	0					2.00
38.617	0.00	1.20	0.582	0					1.99
38.633	0.00	1.20	0.581	0					1.98
38.650	0.00	1.20	0.579	0					1.98
38.667	0.00	1.19	0.577	0					1.97
38.683	0.00	1.19	0.576	0					1.97
38.700	0.00	1.19	0.574	0					1.96
38.717	0.00	1.19	0.572	0					1.96
38.733	0.00	1.19	0.571	0					1.95
38.750	0.00	1.19	0.569	0					1.94
38.767	0.00	1.19	0.567	0					1.94
38.783	0.00	1.19	0.566	0					1.93
38.800	0.00	1.19	0.564	0					1.93
38.817	0.00	1.18	0.562	0					1.92
38.833	0.00	1.18	0.561	0					1.92
38.850	0.00	1.18	0.559	0					1.91
38.867	0.00	1.18	0.558	0					1.91
38.883	0.00	1.18	0.556	0					1.90
38.900	0.00	1.18	0.554	0					1.89
38.917	0.00	1.18	0.553	0					1.89
38.933	0.00	1.18	0.551	0					1.88
38.950	0.00	1.18	0.549	0					1.88
38.967	0.00	1.17	0.548	0					1.87
38.983	0.00	1.17	0.546	0					1.87
39.000	0.00	1.17	0.545	0					1.86

39.017	0.00	1.17	0.543	0					1.86
39.033	0.00	1.17	0.541	0					1.85
39.050	0.00	1.17	0.540	0					1.84
39.067	0.00	1.17	0.538	0					1.84
39.083	0.00	1.17	0.537	0					1.83
39.100	0.00	1.17	0.535	0					1.83
39.117	0.00	1.16	0.533	0					1.82
39.133	0.00	1.16	0.532	0					1.82
39.150	0.00	1.16	0.530	0					1.81
39.167	0.00	1.16	0.529	0					1.81
39.183	0.00	1.16	0.527	0					1.80
39.200	0.00	1.16	0.525	0					1.79
39.217	0.00	1.16	0.524	0					1.79
39.233	0.00	1.16	0.522	0					1.78
39.250	0.00	1.16	0.521	0					1.78
39.267	0.00	1.15	0.519	0					1.77
39.283	0.00	1.15	0.517	0					1.77
39.300	0.00	1.15	0.516	0					1.76
39.317	0.00	1.15	0.514	0					1.76
39.333	0.00	1.15	0.513	0					1.75
39.350	0.00	1.15	0.511	0					1.75
39.367	0.00	1.15	0.509	0					1.74
39.383	0.00	1.15	0.508	0					1.73
39.400	0.00	1.15	0.506	0					1.73
39.417	0.00	1.14	0.505	0					1.72
39.433	0.00	1.14	0.503	0					1.72
39.450	0.00	1.14	0.502	0					1.71
39.467	0.00	1.14	0.500	0					1.71
39.483	0.00	1.14	0.498	0					1.70
39.500	0.00	1.14	0.497	0					1.70
39.517	0.00	1.14	0.495	0					1.69
39.533	0.00	1.14	0.494	0					1.69
39.550	0.00	1.14	0.492	0					1.68
39.567	0.00	1.13	0.491	0					1.67
39.583	0.00	1.13	0.489	0					1.67
39.600	0.00	1.13	0.487	0					1.66
39.617	0.00	1.13	0.486	0					1.66
39.633	0.00	1.13	0.484	0					1.65
39.650	0.00	1.13	0.483	0					1.65
39.667	0.00	1.13	0.481	0					1.64
39.683	0.00	1.13	0.480	0					1.64
39.700	0.00	1.13	0.478	0					1.63
39.717	0.00	1.13	0.477	0					1.63
39.733	0.00	1.12	0.475	0					1.62
39.750	0.00	1.12	0.474	0					1.62
39.767	0.00	1.12	0.472	0					1.61
39.783	0.00	1.12	0.470	0					1.60
39.800	0.00	1.12	0.469	0					1.60
39.817	0.00	1.12	0.467	0					1.59
39.833	0.00	1.12	0.466	0					1.59
39.850	0.00	1.12	0.464	0					1.58
39.867	0.00	1.12	0.463	0					1.58
39.883	0.00	1.11	0.461	0					1.57
39.900	0.00	1.11	0.460	0					1.57
39.917	0.00	1.11	0.458	0					1.56
39.933	0.00	1.11	0.457	0					1.56
39.950	0.00	1.11	0.455	0					1.55
39.967	0.00	1.11	0.454	0					1.55
39.983	0.00	1.11	0.452	0					1.54
40.000	0.00	1.11	0.450	0					1.54
40.017	0.00	1.11	0.449	0					1.53
40.033	0.00	1.11	0.447	0					1.53
40.050	0.00	1.10	0.446	0					1.52
40.067	0.00	1.10	0.444	0					1.52
40.083	0.00	1.10	0.443	0					1.51
40.100	0.00	1.10	0.441	0					1.50
40.117	0.00	1.10	0.440	0					1.50
40.133	0.00	1.10	0.438	0					1.49
40.150	0.00	1.10	0.437	0					1.49
40.167	0.00	1.10	0.435	0					1.48
40.183	0.00	1.10	0.434	0					1.48

40.200	0.00	1.09	0.432	0					1.47
40.217	0.00	1.09	0.431	0					1.47
40.233	0.00	1.09	0.429	0					1.46
40.250	0.00	1.09	0.428	0					1.46
40.267	0.00	1.09	0.426	0					1.45
40.283	0.00	1.09	0.425	0					1.45
40.300	0.00	1.09	0.423	0					1.44
40.317	0.00	1.09	0.422	0					1.44
40.333	0.00	1.09	0.420	0					1.43
40.350	0.00	1.09	0.419	0					1.43
40.367	0.00	1.08	0.417	0					1.42
40.383	0.00	1.08	0.416	0					1.42
40.400	0.00	1.08	0.414	0					1.41
40.417	0.00	1.08	0.413	0					1.41
40.433	0.00	1.08	0.411	0					1.40
40.450	0.00	1.08	0.410	0					1.40
40.467	0.00	1.08	0.408	0					1.39
40.483	0.00	1.08	0.407	0					1.39
40.500	0.00	1.08	0.405	0					1.38
40.517	0.00	1.08	0.404	0					1.38
40.533	0.00	1.07	0.402	0					1.37
40.550	0.00	1.07	0.401	0					1.37
40.567	0.00	1.07	0.399	0					1.36
40.583	0.00	1.07	0.398	0					1.36
40.600	0.00	1.07	0.396	0					1.35
40.617	0.00	1.07	0.395	0					1.35
40.633	0.00	1.07	0.394	0					1.35
40.650	0.00	1.07	0.392	0					1.34
40.667	0.00	1.07	0.391	0					1.34
40.683	0.00	1.07	0.389	0					1.33
40.700	0.00	1.07	0.388	0					1.33
40.717	0.00	1.06	0.386	0					1.32
40.733	0.00	1.06	0.385	0					1.32
40.750	0.00	1.06	0.383	0					1.31
40.767	0.00	1.06	0.382	0					1.31
40.783	0.00	1.06	0.380	0					1.30
40.800	0.00	1.06	0.379	0					1.30
40.817	0.00	1.06	0.377	0					1.29
40.833	0.00	1.06	0.376	0					1.29
40.850	0.00	1.06	0.374	0					1.28
40.867	0.00	1.06	0.373	0					1.28
40.883	0.00	1.05	0.372	0					1.27
40.900	0.00	1.05	0.370	0					1.27
40.917	0.00	1.05	0.369	0					1.26
40.933	0.00	1.05	0.367	0					1.26
40.950	0.00	1.05	0.366	0					1.25
40.967	0.00	1.05	0.364	0					1.25
40.983	0.00	1.05	0.363	0					1.24
41.000	0.00	1.05	0.361	0					1.24
41.017	0.00	1.05	0.360	0					1.23
41.033	0.00	1.05	0.359	0					1.23
41.050	0.00	1.04	0.357	0					1.22
41.067	0.00	1.04	0.356	0					1.22
41.083	0.00	1.04	0.354	0					1.21
41.100	0.00	1.04	0.353	0					1.21
41.117	0.00	1.04	0.351	0					1.20
41.133	0.00	1.04	0.350	0					1.20
41.150	0.00	1.04	0.349	0					1.20
41.167	0.00	1.04	0.347	0					1.19
41.183	0.00	1.04	0.346	0					1.19
41.200	0.00	1.04	0.344	0					1.18
41.217	0.00	1.04	0.343	0					1.18
41.233	0.00	1.03	0.341	0					1.17
41.250	0.00	1.03	0.340	0					1.17
41.267	0.00	1.03	0.339	0					1.16
41.283	0.00	1.03	0.337	0					1.16
41.300	0.00	1.03	0.336	0					1.15
41.317	0.00	1.03	0.334	0					1.15
41.333	0.00	1.03	0.333	0					1.14
41.350	0.00	1.03	0.331	0					1.14
41.367	0.00	1.03	0.330	0					1.13

41.383	0.00	1.03	0.329	0					1.13
41.400	0.00	1.02	0.327	0					1.12
41.417	0.00	1.02	0.326	0					1.12
41.433	0.00	1.02	0.324	0					1.11
41.450	0.00	1.02	0.323	0					1.11
41.467	0.00	1.02	0.322	0					1.11
41.483	0.00	1.02	0.320	0					1.10
41.500	0.00	1.02	0.319	0					1.10
41.517	0.00	1.02	0.317	0					1.09
41.533	0.00	1.02	0.316	0					1.09
41.550	0.00	1.02	0.315	0					1.08
41.567	0.00	1.02	0.313	0					1.08
41.583	0.00	1.01	0.312	0					1.07
41.600	0.00	1.01	0.310	0					1.07
41.617	0.00	1.01	0.309	0					1.06
41.633	0.00	1.01	0.308	0					1.06
41.650	0.00	1.01	0.306	0					1.05
41.667	0.00	1.01	0.305	0					1.05
41.683	0.00	1.01	0.303	0					1.04
41.700	0.00	1.01	0.302	0					1.04
41.717	0.00	1.01	0.301	0					1.04
41.733	0.00	1.01	0.299	0					1.03
41.750	0.00	1.01	0.298	0					1.03
41.767	0.00	1.00	0.296	0					1.02
41.783	0.00	1.00	0.295	0					1.02
41.800	0.00	1.00	0.294	0					1.01
41.817	0.00	1.00	0.292	0					1.01
41.833	0.00	1.00	0.291	0					1.00
41.850	0.00	1.00	0.290	0					1.00
41.867	0.00	0.99	0.288	0					0.99
41.883	0.00	0.99	0.287	0					0.99
41.900	0.00	0.98	0.285	0					0.98
41.917	0.00	0.98	0.284	0					0.98
41.933	0.00	0.98	0.283	0					0.98
41.950	0.00	0.97	0.281	0					0.97
41.967	0.00	0.97	0.280	0					0.97
41.983	0.00	0.96	0.279	0					0.96
42.000	0.00	0.96	0.277	0					0.96
42.017	0.00	0.95	0.276	0					0.95
42.033	0.00	0.95	0.275	0					0.95
42.050	0.00	0.94	0.274	0					0.94
42.067	0.00	0.94	0.272	0					0.94
42.083	0.00	0.93	0.271	0					0.93
42.100	0.00	0.93	0.270	0					0.93
42.117	0.00	0.93	0.268	0					0.93
42.133	0.00	0.92	0.267	0					0.92
42.150	0.00	0.92	0.266	0					0.92
42.167	0.00	0.91	0.265	0					0.91
42.183	0.00	0.91	0.263	0					0.91
42.200	0.00	0.90	0.262	0					0.90
42.217	0.00	0.90	0.261	0					0.90
42.233	0.00	0.90	0.260	0					0.90
42.250	0.00	0.89	0.258	0					0.89
42.267	0.00	0.89	0.257	0					0.89
42.283	0.00	0.88	0.256	0					0.88
42.300	0.00	0.88	0.255	0					0.88
42.317	0.00	0.87	0.253	0					0.87
42.333	0.00	0.87	0.252	0					0.87
42.350	0.00	0.87	0.251	0					0.87
42.367	0.00	0.86	0.250	0					0.86
42.383	0.00	0.86	0.249	0					0.86
42.400	0.00	0.85	0.248	0					0.85
42.417	0.00	0.85	0.246	0					0.85
42.433	0.00	0.85	0.245	0					0.85
42.450	0.00	0.84	0.244	0					0.84
42.467	0.00	0.84	0.243	0					0.84
42.483	0.00	0.83	0.242	0					0.83
42.500	0.00	0.83	0.241	0					0.83
42.517	0.00	0.83	0.239	0					0.83
42.533	0.00	0.82	0.238	0					0.82
42.550	0.00	0.82	0.237	0					0.82

42.567	0.00	0.81	0.236	0					0.81
42.583	0.00	0.81	0.235	0					0.81
42.600	0.00	0.81	0.234	0					0.81
42.617	0.00	0.80	0.233	0					0.80
42.633	0.00	0.80	0.232	0					0.80
42.650	0.00	0.79	0.231	0					0.79
42.667	0.00	0.79	0.229	0					0.79
42.683	0.00	0.79	0.228	0					0.79
42.700	0.00	0.78	0.227	0					0.78
42.717	0.00	0.78	0.226	0					0.78
42.733	0.00	0.78	0.225	0					0.78
42.750	0.00	0.77	0.224	0					0.77
42.767	0.00	0.77	0.223	0					0.77
42.783	0.00	0.77	0.222	0					0.77
42.800	0.00	0.76	0.221	0					0.76
42.817	0.00	0.76	0.220	0					0.76
42.833	0.00	0.75	0.219	0					0.75
42.850	0.00	0.75	0.218	0					0.75
42.867	0.00	0.75	0.217	0					0.75
42.883	0.00	0.74	0.216	0					0.74
42.900	0.00	0.74	0.215	0					0.74
42.917	0.00	0.74	0.214	0					0.74
42.933	0.00	0.73	0.213	0					0.73
42.950	0.00	0.73	0.212	0					0.73
42.967	0.00	0.73	0.211	0					0.73
42.983	0.00	0.72	0.210	0					0.72
43.000	0.00	0.72	0.209	0					0.72
43.017	0.00	0.72	0.208	0					0.72
43.033	0.00	0.71	0.207	0					0.71
43.050	0.00	0.71	0.206	0					0.71
43.067	0.00	0.71	0.205	0					0.71
43.083	0.00	0.70	0.204	0					0.70
43.100	0.00	0.70	0.203	0					0.70
43.117	0.00	0.70	0.202	0					0.70
43.133	0.00	0.69	0.201	0					0.69
43.150	0.00	0.69	0.200	0					0.69
43.167	0.00	0.69	0.199	0					0.69
43.183	0.00	0.68	0.198	0					0.68
43.200	0.00	0.68	0.197	0					0.68
43.217	0.00	0.68	0.196	0					0.68
43.233	0.00	0.67	0.195	0					0.67
43.250	0.00	0.67	0.194	0					0.67
43.267	0.00	0.67	0.193	0					0.67
43.283	0.00	0.66	0.192	0					0.66
43.300	0.00	0.66	0.192	0					0.66
43.317	0.00	0.66	0.191	0					0.66
43.333	0.00	0.65	0.190	0					0.65
43.350	0.00	0.65	0.189	0					0.65
43.367	0.00	0.65	0.188	0					0.65
43.383	0.00	0.64	0.187	0					0.64
43.400	0.00	0.64	0.186	0					0.64
43.417	0.00	0.64	0.185	0					0.64
43.433	0.00	0.64	0.184	0					0.64
43.450	0.00	0.63	0.184	0					0.63
43.467	0.00	0.63	0.183	0					0.63
43.483	0.00	0.63	0.182	0					0.63
43.500	0.00	0.62	0.181	0					0.62
43.517	0.00	0.62	0.180	0					0.62
43.533	0.00	0.62	0.179	0					0.62
43.550	0.00	0.62	0.178	0					0.62
43.567	0.00	0.61	0.178	0					0.61
43.583	0.00	0.61	0.177	0					0.61
43.600	0.00	0.61	0.176	0					0.61
43.617	0.00	0.60	0.175	0					0.60
43.633	0.00	0.60	0.174	0					0.60
43.650	0.00	0.60	0.173	0					0.60
43.667	0.00	0.59	0.173	0					0.59
43.683	0.00	0.59	0.172	0					0.59
43.700	0.00	0.59	0.171	0					0.59
43.717	0.00	0.59	0.170	0					0.59
43.733	0.00	0.58	0.169	0					0.58

43.750	0.00	0.58	0.168	0					0.58
43.767	0.00	0.58	0.168	0					0.58
43.783	0.00	0.58	0.167	0					0.58
43.800	0.00	0.57	0.166	0					0.57
43.817	0.00	0.57	0.165	0					0.57
43.833	0.00	0.57	0.165	0					0.57
43.850	0.00	0.56	0.164	0					0.56
43.867	0.00	0.56	0.163	0					0.56
43.883	0.00	0.56	0.162	0					0.56
43.900	0.00	0.56	0.161	0					0.56
43.917	0.00	0.55	0.161	0					0.55
43.933	0.00	0.55	0.160	0					0.55
43.950	0.00	0.55	0.159	0					0.55
43.967	0.00	0.55	0.158	0					0.55
43.983	0.00	0.54	0.158	0					0.54
44.000	0.00	0.54	0.157	0					0.54
44.017	0.00	0.54	0.156	0					0.54
44.033	0.00	0.54	0.155	0					0.54
44.050	0.00	0.53	0.155	0					0.53
44.067	0.00	0.53	0.154	0					0.53
44.083	0.00	0.53	0.153	0					0.53
44.100	0.00	0.53	0.152	0					0.53
44.117	0.00	0.52	0.152	0					0.52
44.133	0.00	0.52	0.151	0					0.52
44.150	0.00	0.52	0.150	0					0.52
44.167	0.00	0.52	0.150	0					0.52
44.183	0.00	0.51	0.149	0					0.51
44.200	0.00	0.51	0.148	0					0.51
44.217	0.00	0.51	0.148	0					0.51
44.233	0.00	0.51	0.147	0					0.51
44.250	0.00	0.50	0.146	0					0.50
44.267	0.00	0.50	0.145	0					0.50
44.283	0.00	0.50	0.145	0					0.50
44.300	0.00	0.50	0.144	0					0.50
44.317	0.00	0.49	0.143	0					0.49
44.333	0.00	0.49	0.143	0					0.49
44.350	0.00	0.49	0.142	0					0.49
44.367	0.00	0.49	0.141	0					0.49
44.383	0.00	0.49	0.141	0					0.49
44.400	0.00	0.48	0.140	0					0.48
44.417	0.00	0.48	0.139	0					0.48
44.433	0.00	0.48	0.139	0					0.48
44.450	0.00	0.48	0.138	0					0.48
44.467	0.00	0.47	0.137	0					0.47
44.483	0.00	0.47	0.137	0					0.47
44.500	0.00	0.47	0.136	0					0.47
44.517	0.00	0.47	0.135	0					0.47
44.533	0.00	0.46	0.135	0					0.46
44.550	0.00	0.46	0.134	0					0.46
44.567	0.00	0.46	0.134	0					0.46
44.583	0.00	0.46	0.133	0					0.46
44.600	0.00	0.46	0.132	0					0.46
44.617	0.00	0.45	0.132	0					0.45
44.633	0.00	0.45	0.131	0					0.45
44.650	0.00	0.45	0.130	0					0.45
44.667	0.00	0.45	0.130	0					0.45
44.683	0.00	0.45	0.129	0					0.45
44.700	0.00	0.44	0.129	0					0.44
44.717	0.00	0.44	0.128	0					0.44
44.733	0.00	0.44	0.127	0					0.44
44.750	0.00	0.44	0.127	0					0.44
44.767	0.00	0.43	0.126	0					0.43
44.783	0.00	0.43	0.126	0					0.43
44.800	0.00	0.43	0.125	0					0.43
44.817	0.00	0.43	0.124	0					0.43
44.833	0.00	0.43	0.124	0					0.43
44.850	0.00	0.42	0.123	0					0.42
44.867	0.00	0.42	0.123	0					0.42
44.883	0.00	0.42	0.122	0					0.42
44.900	0.00	0.42	0.121	0					0.42
44.917	0.00	0.42	0.121	0					0.42

44.933	0.00	0.41	0.120	0					0.41
44.950	0.00	0.41	0.120	0					0.41
44.967	0.00	0.41	0.119	0					0.41
44.983	0.00	0.41	0.119	0					0.41
45.000	0.00	0.41	0.118	0					0.41
45.017	0.00	0.40	0.117	0					0.40
45.033	0.00	0.40	0.117	0					0.40
45.050	0.00	0.40	0.116	0					0.40
45.067	0.00	0.40	0.116	0					0.40
45.083	0.00	0.40	0.115	0					0.40
45.100	0.00	0.40	0.115	0					0.40
45.117	0.00	0.39	0.114	0					0.39
45.133	0.00	0.39	0.114	0					0.39
45.150	0.00	0.39	0.113	0					0.39
45.167	0.00	0.39	0.113	0					0.39
45.183	0.00	0.39	0.112	0					0.39
45.200	0.00	0.38	0.111	0					0.38
45.217	0.00	0.38	0.111	0					0.38
45.233	0.00	0.38	0.110	0					0.38
45.250	0.00	0.38	0.110	0					0.38
45.267	0.00	0.38	0.109	0					0.38
45.283	0.00	0.38	0.109	0					0.38
45.300	0.00	0.37	0.108	0					0.37
45.317	0.00	0.37	0.108	0					0.37
45.333	0.00	0.37	0.107	0					0.37
45.350	0.00	0.37	0.107	0					0.37
45.367	0.00	0.37	0.106	0					0.37
45.383	0.00	0.36	0.106	0					0.36
45.400	0.00	0.36	0.105	0					0.36
45.417	0.00	0.36	0.105	0					0.36
45.433	0.00	0.36	0.104	0					0.36
45.450	0.00	0.36	0.104	0					0.36
45.467	0.00	0.36	0.103	0					0.36
45.483	0.00	0.35	0.103	0					0.35
45.500	0.00	0.35	0.102	0					0.35
45.517	0.00	0.35	0.102	0					0.35
45.533	0.00	0.35	0.101	0					0.35
45.550	0.00	0.35	0.101	0					0.35
45.567	0.00	0.35	0.100	0					0.35
45.583	0.00	0.34	0.100	0					0.34
45.600	0.00	0.34	0.099	0					0.34
45.617	0.00	0.34	0.099	0					0.34
45.633	0.00	0.34	0.099	0					0.34
45.650	0.00	0.34	0.098	0					0.34
45.667	0.00	0.34	0.098	0					0.34
45.683	0.00	0.33	0.097	0					0.33
45.700	0.00	0.33	0.097	0					0.33
45.717	0.00	0.33	0.096	0					0.33
45.733	0.00	0.33	0.096	0					0.33
45.750	0.00	0.33	0.095	0					0.33
45.767	0.00	0.33	0.095	0					0.33
45.783	0.00	0.33	0.094	0					0.33
45.800	0.00	0.32	0.094	0					0.32
45.817	0.00	0.32	0.093	0					0.32
45.833	0.00	0.32	0.093	0					0.32
45.850	0.00	0.32	0.093	0					0.32
45.867	0.00	0.32	0.092	0					0.32
45.883	0.00	0.32	0.092	0					0.32
45.900	0.00	0.31	0.091	0					0.31
45.917	0.00	0.31	0.091	0					0.31
45.933	0.00	0.31	0.090	0					0.31
45.950	0.00	0.31	0.090	0					0.31
45.967	0.00	0.31	0.090	0					0.31
45.983	0.00	0.31	0.089	0					0.31
46.000	0.00	0.31	0.089	0					0.31
46.017	0.00	0.30	0.088	0					0.30
46.033	0.00	0.30	0.088	0					0.30
46.050	0.00	0.30	0.087	0					0.30
46.067	0.00	0.30	0.087	0					0.30
46.083	0.00	0.30	0.087	0					0.30
46.100	0.00	0.30	0.086	0					0.30

46.117	0.00	0.30	0.086	0					0.30
46.133	0.00	0.29	0.085	0					0.29
46.150	0.00	0.29	0.085	0					0.29
46.167	0.00	0.29	0.085	0					0.29
46.183	0.00	0.29	0.084	0					0.29
46.200	0.00	0.29	0.084	0					0.29
46.217	0.00	0.29	0.083	0					0.29
46.233	0.00	0.29	0.083	0					0.29
46.250	0.00	0.28	0.083	0					0.28
46.267	0.00	0.28	0.082	0					0.28
46.283	0.00	0.28	0.082	0					0.28
46.300	0.00	0.28	0.081	0					0.28
46.317	0.00	0.28	0.081	0					0.28
46.333	0.00	0.28	0.081	0					0.28
46.350	0.00	0.28	0.080	0					0.28
46.367	0.00	0.28	0.080	0					0.28
46.383	0.00	0.27	0.080	0					0.27
46.400	0.00	0.27	0.079	0					0.27
46.417	0.00	0.27	0.079	0					0.27
46.433	0.00	0.27	0.078	0					0.27
46.450	0.00	0.27	0.078	0					0.27
46.467	0.00	0.27	0.078	0					0.27
46.483	0.00	0.27	0.077	0					0.27
46.500	0.00	0.27	0.077	0					0.27
46.517	0.00	0.26	0.077	0					0.26
46.533	0.00	0.26	0.076	0					0.26
46.550	0.00	0.26	0.076	0					0.26
46.567	0.00	0.26	0.076	0					0.26
46.583	0.00	0.26	0.075	0					0.26
46.600	0.00	0.26	0.075	0					0.26
46.617	0.00	0.26	0.074	0					0.26
46.633	0.00	0.26	0.074	0					0.26
46.650	0.00	0.25	0.074	0					0.25
46.667	0.00	0.25	0.073	0					0.25
46.683	0.00	0.25	0.073	0					0.25
46.700	0.00	0.25	0.073	0					0.25
46.717	0.00	0.25	0.072	0					0.25
46.733	0.00	0.25	0.072	0					0.25
46.750	0.00	0.25	0.072	0					0.25
46.767	0.00	0.25	0.071	0					0.25
46.783	0.00	0.24	0.071	0					0.24
46.800	0.00	0.24	0.071	0					0.24
46.817	0.00	0.24	0.070	0					0.24
46.833	0.00	0.24	0.070	0					0.24
46.850	0.00	0.24	0.070	0					0.24
46.867	0.00	0.24	0.069	0					0.24
46.883	0.00	0.24	0.069	0					0.24
46.900	0.00	0.24	0.069	0					0.24
46.917	0.00	0.24	0.068	0					0.24
46.933	0.00	0.23	0.068	0					0.23
46.950	0.00	0.23	0.068	0					0.23
46.967	0.00	0.23	0.067	0					0.23
46.983	0.00	0.23	0.067	0					0.23
47.000	0.00	0.23	0.067	0					0.23
47.017	0.00	0.23	0.066	0					0.23
47.033	0.00	0.23	0.066	0					0.23
47.050	0.00	0.23	0.066	0					0.23
47.067	0.00	0.23	0.065	0					0.23
47.083	0.00	0.22	0.065	0					0.22
47.100	0.00	0.22	0.065	0					0.22
47.117	0.00	0.22	0.065	0					0.22
47.133	0.00	0.22	0.064	0					0.22
47.150	0.00	0.22	0.064	0					0.22
47.167	0.00	0.22	0.064	0					0.22
47.183	0.00	0.22	0.063	0					0.22
47.200	0.00	0.22	0.063	0					0.22
47.217	0.00	0.22	0.063	0					0.22
47.233	0.00	0.22	0.062	0					0.22
47.250	0.00	0.21	0.062	0					0.21
47.267	0.00	0.21	0.062	0					0.21
47.283	0.00	0.21	0.062	0					0.21

47.300	0.00	0.21	0.061	0					0.21
47.317	0.00	0.21	0.061	0					0.21
47.333	0.00	0.21	0.061	0					0.21
47.350	0.00	0.21	0.060	0					0.21
47.367	0.00	0.21	0.060	0					0.21
47.383	0.00	0.21	0.060	0					0.21
47.400	0.00	0.21	0.060	0					0.21
47.417	0.00	0.20	0.059	0					0.20
47.433	0.00	0.20	0.059	0					0.20
47.450	0.00	0.20	0.059	0					0.20
47.467	0.00	0.20	0.058	0					0.20
47.483	0.00	0.20	0.058	0					0.20
47.500	0.00	0.20	0.058	0					0.20
47.517	0.00	0.20	0.058	0					0.20
47.533	0.00	0.20	0.057	0					0.20
47.550	0.00	0.20	0.057	0					0.20
47.567	0.00	0.20	0.057	0					0.20
47.583	0.00	0.19	0.057	0					0.19
47.600	0.00	0.19	0.056	0					0.19
47.617	0.00	0.19	0.056	0					0.19
47.633	0.00	0.19	0.056	0					0.19
47.650	0.00	0.19	0.055	0					0.19
47.667	0.00	0.19	0.055	0					0.19
47.683	0.00	0.19	0.055	0					0.19
47.700	0.00	0.19	0.055	0					0.19
47.717	0.00	0.19	0.054	0					0.19
47.733	0.00	0.19	0.054	0					0.19
47.750	0.00	0.19	0.054	0					0.19
47.767	0.00	0.18	0.054	0					0.18
47.783	0.00	0.18	0.053	0					0.18
47.800	0.00	0.18	0.053	0					0.18
47.817	0.00	0.18	0.053	0					0.18
47.833	0.00	0.18	0.053	0					0.18
47.850	0.00	0.18	0.052	0					0.18
47.867	0.00	0.18	0.052	0					0.18
47.883	0.00	0.18	0.052	0					0.18
47.900	0.00	0.18	0.052	0					0.18
47.917	0.00	0.18	0.051	0					0.18
47.933	0.00	0.18	0.051	0					0.18
47.950	0.00	0.18	0.051	0					0.18
47.967	0.00	0.17	0.051	0					0.17
47.983	0.00	0.17	0.050	0					0.17
48.000	0.00	0.17	0.050	0					0.17
48.017	0.00	0.17	0.050	0					0.17
48.033	0.00	0.17	0.050	0					0.17
48.050	0.00	0.17	0.049	0					0.17
48.067	0.00	0.17	0.049	0					0.17
48.083	0.00	0.17	0.049	0					0.17
48.100	0.00	0.17	0.049	0					0.17
48.117	0.00	0.17	0.049	0					0.17
48.133	0.00	0.17	0.048	0					0.17
48.150	0.00	0.17	0.048	0					0.17
48.167	0.00	0.17	0.048	0					0.17
48.183	0.00	0.16	0.048	0					0.16
48.200	0.00	0.16	0.047	0					0.16
48.217	0.00	0.16	0.047	0					0.16
48.233	0.00	0.16	0.047	0					0.16
48.250	0.00	0.16	0.047	0					0.16
48.267	0.00	0.16	0.047	0					0.16
48.283	0.00	0.16	0.046	0					0.16
48.300	0.00	0.16	0.046	0					0.16
48.317	0.00	0.16	0.046	0					0.16
48.333	0.00	0.16	0.046	0					0.16
48.350	0.00	0.16	0.045	0					0.16
48.367	0.00	0.16	0.045	0					0.16
48.383	0.00	0.16	0.045	0					0.16
48.400	0.00	0.15	0.045	0					0.15
48.417	0.00	0.15	0.045	0					0.15
48.433	0.00	0.15	0.044	0					0.15
48.450	0.00	0.15	0.044	0					0.15
48.467	0.00	0.15	0.044	0					0.15

65.050	0.00	0.00	0.000	0					0.00
65.067	0.00	0.00	0.000	0					0.00
65.083	0.00	0.00	0.000	0					0.00
65.100	0.00	0.00	0.000	0					0.00
65.117	0.00	0.00	0.000	0					0.00
65.133	0.00	0.00	0.000	0					0.00
65.150	0.00	0.00	0.000	0					0.00
65.167	0.00	0.00	0.000	0					0.00
65.183	0.00	0.00	0.000	0					0.00
65.200	0.00	0.00	0.000	0					0.00
65.217	0.00	0.00	0.000	0					0.00
65.233	0.00	0.00	0.000	0					0.00
65.250	0.00	0.00	0.000	0					0.00
65.267	0.00	0.00	0.000	0					0.00
65.283	0.00	0.00	0.000	0					0.00
65.300	0.00	0.00	0.000	0					0.00
65.317	0.00	0.00	0.000	0					0.00
65.333	0.00	0.00	0.000	0					0.00
65.350	0.00	0.00	0.000	0					0.00
65.367	0.00	0.00	0.000	0					0.00
65.383	0.00	0.00	0.000	0					0.00
65.400	0.00	0.00	0.000	0					0.00
65.417	0.00	0.00	0.000	0					0.00
65.433	0.00	0.00	0.000	0					0.00
65.450	0.00	0.00	0.000	0					0.00
65.467	0.00	0.00	0.000	0					0.00
65.483	0.00	0.00	0.000	0					0.00
65.500	0.00	0.00	0.000	0					0.00
65.517	0.00	0.00	0.000	0					0.00
65.533	0.00	0.00	0.000	0					0.00
65.550	0.00	0.00	0.000	0					0.00
65.567	0.00	0.00	0.000	0					0.00
65.583	0.00	0.00	0.000	0					0.00
65.600	0.00	0.00	0.000	0					0.00
65.617	0.00	0.00	0.000	0					0.00
65.633	0.00	0.00	0.000	0					0.00
65.650	0.00	0.00	0.000	0					0.00
65.667	0.00	0.00	0.000	0					0.00
65.683	0.00	0.00	0.000	0					0.00
65.700	0.00	0.00	0.000	0					0.00
65.717	0.00	0.00	0.000	0					0.00
65.733	0.00	0.00	0.000	0					0.00
65.750	0.00	0.00	0.000	0					0.00
65.767	0.00	0.00	0.000	0					0.00
65.783	0.00	0.00	0.000	0					0.00
65.800	0.00	0.00	0.000	0					0.00
65.817	0.00	0.00	0.000	0					0.00
65.833	0.00	0.00	0.000	0					0.00
65.850	0.00	0.00	0.000	0					0.00
65.867	0.00	0.00	0.000	0					0.00
65.883	0.00	0.00	0.000	0					0.00
65.900	0.00	0.00	0.000	0					0.00
65.917	0.00	0.00	0.000	0					0.00
65.933	0.00	0.00	0.000	0					0.00
65.950	0.00	0.00	0.000	0					0.00
65.967	0.00	0.00	0.000	0					0.00
65.983	0.00	0.00	0.000	0					0.00
66.000	0.00	0.00	0.000	0					0.00
66.017	0.00	0.00	0.000	0					0.00
66.033	0.00	0.00	0.000	0					0.00
66.050	0.00	0.00	0.000	0					0.00
66.067	0.00	0.00	0.000	0					0.00
66.083	0.00	0.00	0.000	0					0.00
66.100	0.00	0.00	0.000	0					0.00

*****HYDROGRAPH DATA*****

Number of intervals = 3966

Time interval = 1.0 (Min.)

Maximum/Peak flow rate = 2.090 (CFS)

Total volume = 6.053 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++

Process from Point/Station 703.000 to Point/Station 703.000

**** STORE OR DELETE CURRENT HYDROGRAPH ****

Current stream hydrograph saved in file 100160rtebas1.rte

*****HYDROGRAPH DATA*****

Number of intervals = 0

Time interval = 0.0 (Min.)

Maximum/Peak flow rate = 0.000 (CFS)

Total volume = 0.000 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/15/24

 Majestic Otay
 Otay Mesa, San Diego County
 Proposed Condition Basin 2
 100160rtebas2

Program License Serial Number 6490

 ***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratbas2.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 364
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 43.900 (CFS)
 Total volume = 1.738 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 0.000 to Point/Station 0.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

 Total number of inflow hydrograph intervals = 364
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 4.50(Ft.)

 Initial basin depth = 4.50 (Ft.)
 Initial basin storage = 1.18 (Ac.Ft)
 Initial basin outflow = 1.50 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.190	0.800	0.189	0.191
1.500	0.290	1.000	0.289	0.291
2.500	0.480	1.200	0.479	0.481
3.500	0.680	1.300	0.679	0.681
4.500	1.180	1.500	1.179	1.181
5.500	1.740	1.600	1.739	1.741
6.500	2.360	1.800	2.359	2.361
7.500	3.030	36.500	3.005	3.055

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

 Time Inflow Outflow Storage Depth

(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	11.0	21.95	32.92	43.90	(Ft.)
0.017	0.18	1.50	1.177	IO					4.49
0.033	0.36	1.50	1.175	IO					4.49
0.050	0.54	1.50	1.174	IO					4.49
0.067	0.72	1.50	1.173	IO					4.49
0.083	0.90	1.50	1.172	IO					4.48
0.100	1.08	1.50	1.171	IO					4.48
0.117	1.26	1.50	1.171	IO					4.48
0.133	1.27	1.50	1.170	IO					4.48
0.150	1.27	1.50	1.170	IO					4.48
0.167	1.27	1.50	1.170	IO					4.48
0.183	1.27	1.50	1.169	IO					4.48
0.200	1.28	1.50	1.169	IO					4.48
0.217	1.28	1.50	1.169	IO					4.48
0.233	1.28	1.50	1.168	IO					4.48
0.250	1.28	1.50	1.168	IO					4.48
0.267	1.29	1.50	1.168	IO					4.48
0.283	1.29	1.50	1.168	IO					4.48
0.300	1.30	1.49	1.167	IO					4.47
0.317	1.30	1.49	1.167	IO					4.47
0.333	1.31	1.49	1.167	IO					4.47
0.350	1.31	1.49	1.167	IO					4.47
0.367	1.32	1.49	1.166	IO					4.47
0.383	1.32	1.49	1.166	IO					4.47
0.400	1.32	1.49	1.166	IO					4.47
0.417	1.32	1.49	1.166	IO					4.47
0.433	1.33	1.49	1.165	IO					4.47
0.450	1.33	1.49	1.165	IO					4.47
0.467	1.33	1.49	1.165	IO					4.47
0.483	1.34	1.49	1.165	IO					4.47
0.500	1.34	1.49	1.164	IO					4.47
0.517	1.35	1.49	1.164	IO					4.47
0.533	1.35	1.49	1.164	IO					4.47
0.550	1.36	1.49	1.164	IO					4.47
0.567	1.37	1.49	1.164	IO					4.47
0.583	1.37	1.49	1.164	IO					4.47
0.600	1.37	1.49	1.163	IO					4.47
0.617	1.38	1.49	1.163	IO					4.47
0.633	1.38	1.49	1.163	IO					4.47
0.650	1.38	1.49	1.163	IO					4.47
0.667	1.39	1.49	1.163	IO					4.47
0.683	1.39	1.49	1.163	IO					4.47
0.700	1.39	1.49	1.162	IO					4.46
0.717	1.40	1.49	1.162	IO					4.46
0.733	1.40	1.49	1.162	IO					4.46
0.750	1.41	1.49	1.162	IO					4.46
0.767	1.42	1.49	1.162	IO					4.46
0.783	1.42	1.49	1.162	IO					4.46
0.800	1.43	1.49	1.162	IO					4.46
0.817	1.43	1.49	1.162	IO					4.46
0.833	1.44	1.49	1.162	IO					4.46
0.850	1.44	1.49	1.162	IO					4.46
0.867	1.44	1.49	1.161	IO					4.46
0.883	1.45	1.49	1.161	IO					4.46
0.900	1.45	1.49	1.161	IO					4.46
0.917	1.45	1.49	1.161	IO					4.46
0.933	1.46	1.49	1.161	IO					4.46
0.950	1.46	1.49	1.161	IO					4.46
0.967	1.47	1.49	1.161	IO					4.46
0.983	1.48	1.49	1.161	IO					4.46
1.000	1.48	1.49	1.161	IO					4.46
1.017	1.49	1.49	1.161	IO					4.46
1.033	1.50	1.49	1.161	IO					4.46
1.050	1.50	1.49	1.161	IO					4.46
1.067	1.51	1.49	1.161	IO					4.46
1.083	1.51	1.49	1.161	IO					4.46
1.100	1.52	1.49	1.161	IO					4.46
1.117	1.52	1.49	1.161	IO					4.46
1.133	1.52	1.49	1.161	IO					4.46
1.150	1.53	1.49	1.161	IO					4.46
1.167	1.53	1.49	1.161	IO					4.46

1.183	1.54	1.49	1.161		O					4.46
1.200	1.55	1.49	1.161		O					4.46
1.217	1.55	1.49	1.162		O					4.46
1.233	1.56	1.49	1.162		O					4.46
1.250	1.57	1.49	1.162		O					4.46
1.267	1.58	1.49	1.162		O					4.46
1.283	1.59	1.49	1.162		O					4.46
1.300	1.59	1.49	1.162		O					4.46
1.317	1.59	1.49	1.162		O					4.46
1.333	1.60	1.49	1.162		O					4.46
1.350	1.60	1.49	1.163		O					4.47
1.367	1.61	1.49	1.163		O					4.47
1.383	1.61	1.49	1.163		O					4.47
1.400	1.62	1.49	1.163		O					4.47
1.417	1.62	1.49	1.163		O					4.47
1.433	1.63	1.49	1.163		O					4.47
1.450	1.64	1.49	1.164		O					4.47
1.467	1.65	1.49	1.164		O					4.47
1.483	1.66	1.49	1.164		O					4.47
1.500	1.67	1.49	1.164		O					4.47
1.517	1.68	1.49	1.164		O					4.47
1.533	1.68	1.49	1.165		O					4.47
1.550	1.69	1.49	1.165		O					4.47
1.567	1.69	1.49	1.165		O					4.47
1.583	1.70	1.49	1.166		O					4.47
1.600	1.70	1.49	1.166		O					4.47
1.617	1.71	1.49	1.166		O					4.47
1.633	1.71	1.49	1.166		O					4.47
1.650	1.72	1.49	1.167		O					4.47
1.667	1.73	1.49	1.167		O					4.47
1.683	1.74	1.49	1.167		O					4.47
1.700	1.76	1.50	1.168		O					4.48
1.717	1.77	1.50	1.168		O					4.48
1.733	1.78	1.50	1.168		O					4.48
1.750	1.79	1.50	1.169		O					4.48
1.767	1.79	1.50	1.169		O					4.48
1.783	1.80	1.50	1.170		O					4.48
1.800	1.80	1.50	1.170		O					4.48
1.817	1.81	1.50	1.171		O					4.48
1.833	1.82	1.50	1.171		O					4.48
1.850	1.82	1.50	1.171		O					4.48
1.867	1.83	1.50	1.172		O					4.48
1.883	1.84	1.50	1.172		O					4.48
1.900	1.85	1.50	1.173		O					4.49
1.917	1.86	1.50	1.173		O					4.49
1.933	1.88	1.50	1.174		O					4.49
1.950	1.89	1.50	1.174		O					4.49
1.967	1.90	1.50	1.175		O					4.49
1.983	1.91	1.50	1.175		O					4.49
2.000	1.92	1.50	1.176		O					4.49
2.017	1.93	1.50	1.177		O					4.49
2.033	1.94	1.50	1.177		O					4.49
2.050	1.94	1.50	1.178		O					4.50
2.067	1.95	1.50	1.178		O					4.50
2.083	1.96	1.50	1.179		O					4.50
2.100	1.96	1.50	1.180		O					4.50
2.117	1.98	1.50	1.180		O					4.50
2.133	1.99	1.50	1.181		O					4.50
2.150	2.01	1.50	1.182		O					4.50
2.167	2.02	1.50	1.182		O					4.50
2.183	2.04	1.50	1.183		O					4.51
2.200	2.05	1.50	1.184		O					4.51
2.217	2.07	1.50	1.185		O					4.51
2.233	2.08	1.50	1.185		O					4.51
2.250	2.09	1.50	1.186		O					4.51
2.267	2.09	1.50	1.187		O					4.51
2.283	2.10	1.50	1.188		O					4.51
2.300	2.11	1.50	1.189		O					4.52
2.317	2.12	1.50	1.190		O					4.52
2.333	2.13	1.50	1.190		O					4.52
2.350	2.15	1.50	1.191		O					4.52

2.367	2.17	1.50	1.192	IO					4.52
2.383	2.18	1.50	1.193	IO					4.52
2.400	2.20	1.50	1.194	IO					4.53
2.417	2.22	1.50	1.195	IO					4.53
2.433	2.24	1.50	1.196	IO					4.53
2.450	2.26	1.50	1.197	IO					4.53
2.467	2.27	1.50	1.198	IO					4.53
2.483	2.28	1.50	1.199	IO					4.53
2.500	2.29	1.50	1.200	IO					4.54
2.517	2.30	1.50	1.201	IO					4.54
2.533	2.31	1.50	1.203	IO					4.54
2.550	2.32	1.50	1.204	IO					4.54
2.567	2.33	1.50	1.205	IO					4.54
2.583	2.36	1.50	1.206	IO					4.55
2.600	2.38	1.50	1.207	IO					4.55
2.617	2.41	1.51	1.208	IO					4.55
2.633	2.43	1.51	1.210	IO					4.55
2.650	2.45	1.51	1.211	IO					4.56
2.667	2.48	1.51	1.212	IO					4.56
2.683	2.50	1.51	1.214	IO					4.56
2.700	2.52	1.51	1.215	IO					4.56
2.717	2.53	1.51	1.216	IO					4.56
2.733	2.54	1.51	1.218	IO					4.57
2.750	2.56	1.51	1.219	IO					4.57
2.767	2.57	1.51	1.221	IO					4.57
2.783	2.59	1.51	1.222	IO					4.58
2.800	2.60	1.51	1.224	IO					4.58
2.817	2.63	1.51	1.225	IO					4.58
2.833	2.66	1.51	1.227	IO					4.58
2.850	2.70	1.51	1.228	IO					4.59
2.867	2.73	1.51	1.230	IO					4.59
2.883	2.76	1.51	1.232	IOI					4.59
2.900	2.79	1.51	1.233	IOI					4.60
2.917	2.83	1.51	1.235	IOI					4.60
2.933	2.84	1.51	1.237	IOI					4.60
2.950	2.86	1.51	1.239	IOI					4.61
2.967	2.88	1.51	1.241	IOI					4.61
2.983	2.90	1.51	1.243	IOI					4.61
3.000	2.92	1.51	1.245	IOI					4.62
3.017	2.94	1.51	1.247	IOI					4.62
3.033	2.96	1.51	1.249	IOI					4.62
3.050	3.01	1.51	1.251	IOI					4.63
3.067	3.05	1.51	1.253	IOI					4.63
3.083	3.10	1.51	1.255	IOI					4.63
3.100	3.14	1.51	1.257	IOI					4.64
3.117	3.19	1.51	1.259	IOI					4.64
3.133	3.24	1.51	1.262	IOI					4.65
3.150	3.28	1.52	1.264	IOI					4.65
3.167	3.31	1.52	1.267	IOI					4.65
3.183	3.34	1.52	1.269	IOI					4.66
3.200	3.37	1.52	1.272	IOI					4.66
3.217	3.40	1.52	1.274	IOI					4.67
3.233	3.42	1.52	1.277	IOI					4.67
3.250	3.45	1.52	1.279	IOI					4.68
3.267	3.48	1.52	1.282	IOI					4.68
3.283	3.55	1.52	1.285	IOI					4.69
3.300	3.63	1.52	1.288	IOI					4.69
3.317	3.70	1.52	1.291	IOI					4.70
3.333	3.77	1.52	1.294	IOI					4.70
3.350	3.84	1.52	1.297	IOI					4.71
3.367	3.92	1.52	1.300	IOI					4.71
3.383	3.99	1.52	1.303	IOI					4.72
3.400	4.04	1.52	1.307	IOI					4.73
3.417	4.09	1.52	1.310	IOI					4.73
3.433	4.13	1.52	1.314	IO I					4.74
3.450	4.18	1.52	1.318	IO I					4.75
3.467	4.23	1.53	1.321	IO I					4.75
3.483	4.28	1.53	1.325	IO I					4.76
3.500	4.33	1.53	1.329	IO I					4.77
3.517	4.46	1.53	1.333	IO I					4.77
3.533	4.60	1.53	1.337	IO I					4.78

3.550	4.74	1.53	1.341	O	I					4.79
3.567	4.88	1.53	1.346	O	I					4.80
3.583	5.01	1.53	1.350	O	I					4.80
3.600	5.15	1.53	1.355	O	I					4.81
3.617	5.29	1.53	1.360	O	I					4.82
3.633	5.39	1.53	1.366	O	I					4.83
3.650	5.50	1.53	1.371	O	I					4.84
3.667	5.60	1.54	1.377	O	I					4.85
3.683	5.71	1.54	1.382	O	I					4.86
3.700	5.81	1.54	1.388	O	I					4.87
3.717	5.92	1.54	1.394	O	I					4.88
3.733	6.02	1.54	1.400	O	I					4.89
3.750	6.42	1.54	1.407	O	I					4.90
3.767	6.83	1.54	1.414	O	I					4.92
3.783	7.23	1.54	1.421	O	I					4.93
3.800	7.63	1.54	1.429	O	I					4.95
3.817	8.04	1.55	1.438	O	I					4.96
3.833	8.44	1.55	1.447	O	I					4.98
3.850	8.84	1.55	1.457	O	I					4.99
3.867	9.36	1.55	1.467	O	I					5.01
3.883	9.88	1.55	1.478	O	I					5.03
3.900	10.39	1.56	1.490	O	I					5.05
3.917	10.91	1.56	1.503	O	I					5.08
3.933	11.43	1.56	1.516	O	I					5.10
3.950	11.94	1.56	1.530	O	I					5.12
3.967	12.46	1.57	1.545	O	I					5.15
3.983	16.95	1.57	1.563	O	I		I			5.18
4.000	21.44	1.57	1.587	O	I		I			5.23
4.017	25.93	1.58	1.617	O	I		I			5.28
4.033	30.42	1.58	1.654	O	I		I			5.35
4.050	34.92	1.59	1.697	O	I		I			5.42
4.067	39.41	1.60	1.746	O	I		I		I	5.51
4.083	43.90	1.62	1.801	O	I		I		I	5.60
4.100	38.64	1.64	1.856	O	I		I		I	5.69
4.117	33.38	1.65	1.903	O	I		I		I	5.76
4.133	28.12	1.67	1.943	O	I		I		I	5.83
4.150	22.87	1.68	1.976	O	I		I		I	5.88
4.167	17.61	1.68	2.001	O	I		I		I	5.92
4.183	12.35	1.69	2.020	O	I		I		I	5.95
4.200	7.09	1.69	2.031	O	I		I		I	5.97
4.217	6.76	1.70	2.038	O	I		I		I	5.98
4.233	6.42	1.70	2.045	O	I		I		I	5.99
4.250	6.09	1.70	2.051	O	I		I		I	6.00
4.267	5.75	1.70	2.057	O	I		I		I	6.01
4.283	5.42	1.70	2.062	O	I		I		I	6.02
4.300	5.08	1.71	2.067	O	I		I		I	6.03
4.317	4.75	1.71	2.071	O	I		I		I	6.03
4.333	4.60	1.71	2.075	O	I		I		I	6.04
4.350	4.45	1.71	2.079	O	I		I		I	6.05
4.367	4.30	1.71	2.083	O	I		I		I	6.05
4.383	4.16	1.71	2.087	O	I		I		I	6.06
4.400	4.01	1.71	2.090	O	I		I		I	6.06
4.417	3.86	1.71	2.093	O	I		I		I	6.07
4.433	3.71	1.71	2.096	O	I		I		I	6.07
4.450	3.63	1.72	2.098	O	I		I		I	6.08
4.467	3.54	1.72	2.101	O	I		I		I	6.08
4.483	3.45	1.72	2.103	O	I		I		I	6.09
4.500	3.37	1.72	2.106	O	I		I		I	6.09
4.517	3.28	1.72	2.108	O	I		I		I	6.09
4.533	3.20	1.72	2.110	O	I		I		I	6.10
4.550	3.11	1.72	2.112	O	I		I		I	6.10
4.567	3.05	1.72	2.114	O	I		I		I	6.10
4.583	2.99	1.72	2.116	O	I		I		I	6.11
4.600	2.94	1.72	2.117	O	I		I		I	6.11
4.617	2.88	1.72	2.119	O	I		I		I	6.11
4.633	2.82	1.72	2.121	O	I		I		I	6.11
4.650	2.76	1.72	2.122	O	I		I		I	6.12
4.667	2.71	1.72	2.123	O	I		I		I	6.12
4.683	2.66	1.72	2.125	O	I		I		I	6.12
4.700	2.62	1.72	2.126	O	I		I		I	6.12
4.717	2.58	1.72	2.127	O	I		I		I	6.12

4.733	2.54	1.73	2.128	IO					6.13
4.750	2.50	1.73	2.130	IO					6.13
4.767	2.46	1.73	2.131	IO					6.13
4.783	2.41	1.73	2.132	IO					6.13
4.800	2.38	1.73	2.132	IO					6.13
4.817	2.35	1.73	2.133	IO					6.13
4.833	2.32	1.73	2.134	IO					6.14
4.850	2.29	1.73	2.135	IO					6.14
4.867	2.26	1.73	2.136	IO					6.14
4.883	2.22	1.73	2.136	IO					6.14
4.900	2.19	1.73	2.137	IO					6.14
4.917	2.17	1.73	2.138	IO					6.14
4.933	2.14	1.73	2.138	IO					6.14
4.950	2.12	1.73	2.139	IO					6.14
4.967	2.09	1.73	2.139	IO					6.14
4.983	2.06	1.73	2.140	IO					6.14
5.000	2.04	1.73	2.140	IO					6.15
5.017	2.01	1.73	2.141	IO					6.15
5.033	1.99	1.73	2.141	IO					6.15
5.050	1.97	1.73	2.141	IO					6.15
5.067	1.95	1.73	2.142	IO					6.15
5.083	1.93	1.73	2.142	IO					6.15
5.100	1.91	1.73	2.142	IO					6.15
5.117	1.89	1.73	2.143	IO					6.15
5.133	1.87	1.73	2.143	IO					6.15
5.150	1.85	1.73	2.143	IO					6.15
5.167	1.84	1.73	2.143	IO					6.15
5.183	1.82	1.73	2.143	IO					6.15
5.200	1.80	1.73	2.143	IO					6.15
5.217	1.78	1.73	2.143	IO					6.15
5.233	1.77	1.73	2.143	IO					6.15
5.250	1.75	1.73	2.143	IO					6.15
5.267	1.73	1.73	2.144	IO					6.15
5.283	1.72	1.73	2.143	IO					6.15
5.300	1.70	1.73	2.143	IO					6.15
5.317	1.69	1.73	2.143	IO					6.15
5.333	1.68	1.73	2.143	IO					6.15
5.350	1.66	1.73	2.143	IO					6.15
5.367	1.65	1.73	2.143	IO					6.15
5.383	1.63	1.73	2.143	IO					6.15
5.400	1.62	1.73	2.143	IO					6.15
5.417	1.61	1.73	2.143	IO					6.15
5.433	1.60	1.73	2.143	IO					6.15
5.450	1.58	1.73	2.142	IO					6.15
5.467	1.57	1.73	2.142	IO					6.15
5.483	1.56	1.73	2.142	IO					6.15
5.500	1.55	1.73	2.142	IO					6.15
5.517	1.54	1.73	2.141	IO					6.15
5.533	1.52	1.73	2.141	IO					6.15
5.550	1.51	1.73	2.141	IO					6.15
5.567	1.50	1.73	2.141	IO					6.15
5.583	1.49	1.73	2.140	IO					6.15
5.600	1.48	1.73	2.140	IO					6.15
5.617	1.47	1.73	2.140	IO					6.14
5.633	1.46	1.73	2.139	IO					6.14
5.650	1.45	1.73	2.139	IO					6.14
5.667	1.44	1.73	2.138	IO					6.14
5.683	1.43	1.73	2.138	IO					6.14
5.700	1.42	1.73	2.138	IO					6.14
5.717	1.41	1.73	2.137	IO					6.14
5.733	1.40	1.73	2.137	IO					6.14
5.750	1.39	1.73	2.136	IO					6.14
5.767	1.39	1.73	2.136	IO					6.14
5.783	1.38	1.73	2.135	IO					6.14
5.800	1.37	1.73	2.135	IO					6.14
5.817	1.36	1.73	2.134	IO					6.14
5.833	1.35	1.73	2.134	IO					6.14
5.850	1.34	1.73	2.133	IO					6.13
5.867	1.34	1.73	2.133	IO					6.13
5.883	1.33	1.73	2.132	IO					6.13
5.900	1.32	1.73	2.132	IO					6.13

5.917	1.31	1.73	2.131	IO					6.13
5.933	1.30	1.73	2.131	IO					6.13
5.950	1.30	1.73	2.130	IO					6.13
5.967	1.29	1.73	2.129	IO					6.13
5.983	1.28	1.73	2.129	IO					6.13
6.000	1.28	1.73	2.128	IO					6.13
6.017	1.27	1.73	2.128	IO					6.13
6.033	1.26	1.72	2.127	IO					6.12
6.050	1.25	1.72	2.126	IO					6.12
6.067	1.25	1.72	2.126	IO					6.12
6.083	0.00	1.72	2.124	IO					6.12
6.100	0.00	1.72	2.122	IO					6.12
6.117	0.00	1.72	2.119	IO					6.11
6.133	0.00	1.72	2.117	IO					6.11
6.150	0.00	1.72	2.115	IO					6.10
6.167	0.00	1.72	2.112	IO					6.10
6.183	0.00	1.72	2.110	IO					6.10
6.200	0.00	1.72	2.107	IO					6.09
6.217	0.00	1.72	2.105	IO					6.09
6.233	0.00	1.72	2.103	IO					6.09
6.250	0.00	1.72	2.100	IO					6.08
6.267	0.00	1.72	2.098	IO					6.08
6.283	0.00	1.71	2.096	IO					6.07
6.300	0.00	1.71	2.093	IO					6.07
6.317	0.00	1.71	2.091	IO					6.07
6.333	0.00	1.71	2.089	IO					6.06
6.350	0.00	1.71	2.086	IO					6.06
6.367	0.00	1.71	2.084	IO					6.05
6.383	0.00	1.71	2.082	IO					6.05
6.400	0.00	1.71	2.079	IO					6.05
6.417	0.00	1.71	2.077	IO					6.04
6.433	0.00	1.71	2.074	IO					6.04
6.450	0.00	1.71	2.072	IO					6.04
6.467	0.00	1.71	2.070	IO					6.03
6.483	0.00	1.71	2.067	IO					6.03
6.500	0.00	1.70	2.065	IO					6.02
6.517	0.00	1.70	2.063	IO					6.02
6.533	0.00	1.70	2.060	IO					6.02
6.550	0.00	1.70	2.058	IO					6.01
6.567	0.00	1.70	2.056	IO					6.01
6.583	0.00	1.70	2.053	IO					6.01
6.600	0.00	1.70	2.051	IO					6.00
6.617	0.00	1.70	2.049	IO					6.00
6.633	0.00	1.70	2.046	IO					5.99
6.650	0.00	1.70	2.044	IO					5.99
6.667	0.00	1.70	2.042	IO					5.99
6.683	0.00	1.70	2.039	IO					5.98
6.700	0.00	1.70	2.037	IO					5.98
6.717	0.00	1.70	2.035	IO					5.98
6.733	0.00	1.69	2.032	IO					5.97
6.750	0.00	1.69	2.030	IO					5.97
6.767	0.00	1.69	2.028	IO					5.96
6.783	0.00	1.69	2.025	IO					5.96
6.800	0.00	1.69	2.023	IO					5.96
6.817	0.00	1.69	2.021	IO					5.95
6.833	0.00	1.69	2.018	IO					5.95
6.850	0.00	1.69	2.016	IO					5.95
6.867	0.00	1.69	2.014	IO					5.94
6.883	0.00	1.69	2.011	IO					5.94
6.900	0.00	1.69	2.009	IO					5.93
6.917	0.00	1.69	2.007	IO					5.93
6.933	0.00	1.69	2.004	IO					5.93
6.950	0.00	1.68	2.002	IO					5.92
6.967	0.00	1.68	2.000	IO					5.92
6.983	0.00	1.68	1.997	IO					5.92
7.000	0.00	1.68	1.995	IO					5.91
7.017	0.00	1.68	1.993	IO					5.91
7.033	0.00	1.68	1.990	IO					5.90
7.050	0.00	1.68	1.988	IO					5.90
7.067	0.00	1.68	1.986	IO					5.90
7.083	0.00	1.68	1.983	IO					5.89

7.100	0.00	1.68	1.981	IO					5.89
7.117	0.00	1.68	1.979	IO					5.89
7.133	0.00	1.68	1.977	IO					5.88
7.150	0.00	1.68	1.974	IO					5.88
7.167	0.00	1.67	1.972	IO					5.87
7.183	0.00	1.67	1.970	IO					5.87
7.200	0.00	1.67	1.967	IO					5.87
7.217	0.00	1.67	1.965	IO					5.86
7.233	0.00	1.67	1.963	IO					5.86
7.250	0.00	1.67	1.960	IO					5.86
7.267	0.00	1.67	1.958	IO					5.85
7.283	0.00	1.67	1.956	IO					5.85
7.300	0.00	1.67	1.954	IO					5.84
7.317	0.00	1.67	1.951	IO					5.84
7.333	0.00	1.67	1.949	IO					5.84
7.350	0.00	1.67	1.947	IO					5.83
7.367	0.00	1.67	1.944	IO					5.83
7.383	0.00	1.67	1.942	IO					5.83
7.400	0.00	1.66	1.940	IO					5.82
7.417	0.00	1.66	1.937	IO					5.82
7.433	0.00	1.66	1.935	IO					5.81
7.450	0.00	1.66	1.933	IO					5.81
7.467	0.00	1.66	1.931	IO					5.81
7.483	0.00	1.66	1.928	IO					5.80
7.500	0.00	1.66	1.926	IO					5.80
7.517	0.00	1.66	1.924	IO					5.80
7.533	0.00	1.66	1.921	IO					5.79
7.550	0.00	1.66	1.919	IO					5.79
7.567	0.00	1.66	1.917	IO					5.79
7.583	0.00	1.66	1.915	IO					5.78
7.600	0.00	1.66	1.912	IO					5.78
7.617	0.00	1.65	1.910	IO					5.77
7.633	0.00	1.65	1.908	IO					5.77
7.650	0.00	1.65	1.905	IO					5.77
7.667	0.00	1.65	1.903	IO					5.76
7.683	0.00	1.65	1.901	IO					5.76
7.700	0.00	1.65	1.899	IO					5.76
7.717	0.00	1.65	1.896	IO					5.75
7.733	0.00	1.65	1.894	IO					5.75
7.750	0.00	1.65	1.892	IO					5.74
7.767	0.00	1.65	1.890	IO					5.74
7.783	0.00	1.65	1.887	IO					5.74
7.800	0.00	1.65	1.885	IO					5.73
7.817	0.00	1.65	1.883	IO					5.73
7.833	0.00	1.65	1.880	IO					5.73
7.850	0.00	1.64	1.878	IO					5.72
7.867	0.00	1.64	1.876	IO					5.72
7.883	0.00	1.64	1.874	IO					5.72
7.900	0.00	1.64	1.871	IO					5.71
7.917	0.00	1.64	1.869	IO					5.71
7.933	0.00	1.64	1.867	IO					5.70
7.950	0.00	1.64	1.865	IO					5.70
7.967	0.00	1.64	1.862	IO					5.70
7.983	0.00	1.64	1.860	IO					5.69
8.000	0.00	1.64	1.858	IO					5.69
8.017	0.00	1.64	1.856	IO					5.69
8.033	0.00	1.64	1.853	IO					5.68
8.050	0.00	1.64	1.851	IO					5.68
8.067	0.00	1.64	1.849	IO					5.68
8.083	0.00	1.63	1.847	IO					5.67
8.100	0.00	1.63	1.844	IO					5.67
8.117	0.00	1.63	1.842	IO					5.66
8.133	0.00	1.63	1.840	IO					5.66
8.150	0.00	1.63	1.838	IO					5.66
8.167	0.00	1.63	1.835	IO					5.65
8.183	0.00	1.63	1.833	IO					5.65
8.200	0.00	1.63	1.831	IO					5.65
8.217	0.00	1.63	1.829	IO					5.64
8.233	0.00	1.63	1.826	IO					5.64
8.250	0.00	1.63	1.824	IO					5.64
8.267	0.00	1.63	1.822	IO					5.63

8.283	0.00	1.63	1.820	IO					5.63
8.300	0.00	1.62	1.817	IO					5.62
8.317	0.00	1.62	1.815	IO					5.62
8.333	0.00	1.62	1.813	IO					5.62
8.350	0.00	1.62	1.811	IO					5.61
8.367	0.00	1.62	1.808	IO					5.61
8.383	0.00	1.62	1.806	IO					5.61
8.400	0.00	1.62	1.804	IO					5.60
8.417	0.00	1.62	1.802	IO					5.60
8.433	0.00	1.62	1.800	IO					5.60
8.450	0.00	1.62	1.797	IO					5.59
8.467	0.00	1.62	1.795	IO					5.59
8.483	0.00	1.62	1.793	IO					5.59
8.500	0.00	1.62	1.791	IO					5.58
8.517	0.00	1.62	1.788	IO					5.58
8.533	0.00	1.61	1.786	IO					5.57
8.550	0.00	1.61	1.784	IO					5.57
8.567	0.00	1.61	1.782	IO					5.57
8.583	0.00	1.61	1.780	IO					5.56
8.600	0.00	1.61	1.777	IO					5.56
8.617	0.00	1.61	1.775	IO					5.56
8.633	0.00	1.61	1.773	IO					5.55
8.650	0.00	1.61	1.771	IO					5.55
8.667	0.00	1.61	1.768	IO					5.55
8.683	0.00	1.61	1.766	IO					5.54
8.700	0.00	1.61	1.764	IO					5.54
8.717	0.00	1.61	1.762	IO					5.54
8.733	0.00	1.61	1.760	IO					5.53
8.750	0.00	1.61	1.757	IO					5.53
8.767	0.00	1.60	1.755	IO					5.52
8.783	0.00	1.60	1.753	IO					5.52
8.800	0.00	1.60	1.751	IO					5.52
8.817	0.00	1.60	1.749	IO					5.51
8.833	0.00	1.60	1.746	IO					5.51
8.850	0.00	1.60	1.744	IO					5.51
8.867	0.00	1.60	1.742	IO					5.50
8.883	0.00	1.60	1.740	IO					5.50
8.900	0.00	1.60	1.737	IO					5.50
8.917	0.00	1.60	1.735	IO					5.49
8.933	0.00	1.60	1.733	IO					5.49
8.950	0.00	1.60	1.731	IO					5.48
8.967	0.00	1.60	1.729	IO					5.48
8.983	0.00	1.60	1.726	IO					5.48
9.000	0.00	1.60	1.724	IO					5.47
9.017	0.00	1.60	1.722	IO					5.47
9.033	0.00	1.60	1.720	IO					5.46
9.050	0.00	1.60	1.718	IO					5.46
9.067	0.00	1.60	1.715	IO					5.46
9.083	0.00	1.60	1.713	IO					5.45
9.100	0.00	1.59	1.711	IO					5.45
9.117	0.00	1.59	1.709	IO					5.44
9.133	0.00	1.59	1.707	IO					5.44
9.150	0.00	1.59	1.705	IO					5.44
9.167	0.00	1.59	1.702	IO					5.43
9.183	0.00	1.59	1.700	IO					5.43
9.200	0.00	1.59	1.698	IO					5.42
9.217	0.00	1.59	1.696	IO					5.42
9.233	0.00	1.59	1.694	IO					5.42
9.250	0.00	1.59	1.691	IO					5.41
9.267	0.00	1.59	1.689	IO					5.41
9.283	0.00	1.59	1.687	IO					5.41
9.300	0.00	1.59	1.685	IO					5.40
9.317	0.00	1.59	1.683	IO					5.40
9.333	0.00	1.59	1.680	IO					5.39
9.350	0.00	1.59	1.678	IO					5.39
9.367	0.00	1.59	1.676	IO					5.39
9.383	0.00	1.59	1.674	IO					5.38
9.400	0.00	1.59	1.672	IO					5.38
9.417	0.00	1.59	1.669	IO					5.37
9.433	0.00	1.59	1.667	IO					5.37
9.450	0.00	1.59	1.665	IO					5.37

9.467	0.00	1.59	1.663	IO					5.36
9.483	0.00	1.59	1.661	IO					5.36
9.500	0.00	1.59	1.659	IO					5.35
9.517	0.00	1.59	1.656	IO					5.35
9.533	0.00	1.58	1.654	IO					5.35
9.550	0.00	1.58	1.652	IO					5.34
9.567	0.00	1.58	1.650	IO					5.34
9.583	0.00	1.58	1.648	IO					5.34
9.600	0.00	1.58	1.645	IO					5.33
9.617	0.00	1.58	1.643	IO					5.33
9.633	0.00	1.58	1.641	IO					5.32
9.650	0.00	1.58	1.639	IO					5.32
9.667	0.00	1.58	1.637	IO					5.32
9.683	0.00	1.58	1.635	IO					5.31
9.700	0.00	1.58	1.632	IO					5.31
9.717	0.00	1.58	1.630	IO					5.30
9.733	0.00	1.58	1.628	IO					5.30
9.750	0.00	1.58	1.626	IO					5.30
9.767	0.00	1.58	1.624	IO					5.29
9.783	0.00	1.58	1.621	IO					5.29
9.800	0.00	1.58	1.619	IO					5.28
9.817	0.00	1.58	1.617	IO					5.28
9.833	0.00	1.58	1.615	IO					5.28
9.850	0.00	1.58	1.613	IO					5.27
9.867	0.00	1.58	1.611	IO					5.27
9.883	0.00	1.58	1.608	IO					5.27
9.900	0.00	1.58	1.606	IO					5.26
9.917	0.00	1.58	1.604	IO					5.26
9.933	0.00	1.58	1.602	IO					5.25
9.950	0.00	1.57	1.600	IO					5.25
9.967	0.00	1.57	1.598	IO					5.25
9.983	0.00	1.57	1.595	IO					5.24
10.000	0.00	1.57	1.593	IO					5.24
10.017	0.00	1.57	1.591	IO					5.23
10.033	0.00	1.57	1.589	IO					5.23
10.050	0.00	1.57	1.587	IO					5.23
10.067	0.00	1.57	1.585	IO					5.22
10.083	0.00	1.57	1.582	IO					5.22
10.100	0.00	1.57	1.580	IO					5.21
10.117	0.00	1.57	1.578	IO					5.21
10.133	0.00	1.57	1.576	IO					5.21
10.150	0.00	1.57	1.574	IO					5.20
10.167	0.00	1.57	1.572	IO					5.20
10.183	0.00	1.57	1.569	IO					5.20
10.200	0.00	1.57	1.567	IO					5.19
10.217	0.00	1.57	1.565	IO					5.19
10.233	0.00	1.57	1.563	IO					5.18
10.250	0.00	1.57	1.561	IO					5.18
10.267	0.00	1.57	1.559	IO					5.18
10.283	0.00	1.57	1.556	IO					5.17
10.300	0.00	1.57	1.554	IO					5.17
10.317	0.00	1.57	1.552	IO					5.16
10.333	0.00	1.57	1.550	IO					5.16
10.350	0.00	1.57	1.548	IO					5.16
10.367	0.00	1.57	1.546	IO					5.15
10.383	0.00	1.56	1.544	IO					5.15
10.400	0.00	1.56	1.541	IO					5.15
10.417	0.00	1.56	1.539	IO					5.14
10.433	0.00	1.56	1.537	IO					5.14
10.450	0.00	1.56	1.535	IO					5.13
10.467	0.00	1.56	1.533	IO					5.13
10.483	0.00	1.56	1.531	IO					5.13
10.500	0.00	1.56	1.528	IO					5.12
10.517	0.00	1.56	1.526	IO					5.12
10.533	0.00	1.56	1.524	IO					5.11
10.550	0.00	1.56	1.522	IO					5.11
10.567	0.00	1.56	1.520	IO					5.11
10.583	0.00	1.56	1.518	IO					5.10
10.600	0.00	1.56	1.516	IO					5.10
10.617	0.00	1.56	1.513	IO					5.10
10.633	0.00	1.56	1.511	IO					5.09

10.650	0.00	1.56	1.509	IO					5.09
10.667	0.00	1.56	1.507	IO					5.08
10.683	0.00	1.56	1.505	IO					5.08
10.700	0.00	1.56	1.503	IO					5.08
10.717	0.00	1.56	1.501	IO					5.07
10.733	0.00	1.56	1.498	IO					5.07
10.750	0.00	1.56	1.496	IO					5.06
10.767	0.00	1.56	1.494	IO					5.06
10.783	0.00	1.56	1.492	IO					5.06
10.800	0.00	1.56	1.490	IO					5.05
10.817	0.00	1.55	1.488	IO					5.05
10.833	0.00	1.55	1.486	IO					5.05
10.850	0.00	1.55	1.483	IO					5.04
10.867	0.00	1.55	1.481	IO					5.04
10.883	0.00	1.55	1.479	IO					5.03
10.900	0.00	1.55	1.477	IO					5.03
10.917	0.00	1.55	1.475	IO					5.03
10.933	0.00	1.55	1.473	IO					5.02
10.950	0.00	1.55	1.471	IO					5.02
10.967	0.00	1.55	1.468	IO					5.02
10.983	0.00	1.55	1.466	IO					5.01
11.000	0.00	1.55	1.464	IO					5.01
11.017	0.00	1.55	1.462	IO					5.00
11.033	0.00	1.55	1.460	IO					5.00
11.050	0.00	1.55	1.458	IO					5.00
11.067	0.00	1.55	1.456	IO					4.99
11.083	0.00	1.55	1.453	IO					4.99
11.100	0.00	1.55	1.451	IO					4.98
11.117	0.00	1.55	1.449	IO					4.98
11.133	0.00	1.55	1.447	IO					4.98
11.150	0.00	1.55	1.445	IO					4.97
11.167	0.00	1.55	1.443	IO					4.97
11.183	0.00	1.55	1.441	IO					4.97
11.200	0.00	1.55	1.439	IO					4.96
11.217	0.00	1.55	1.436	IO					4.96
11.233	0.00	1.55	1.434	IO					4.95
11.250	0.00	1.55	1.432	IO					4.95
11.267	0.00	1.54	1.430	IO					4.95
11.283	0.00	1.54	1.428	IO					4.94
11.300	0.00	1.54	1.426	IO					4.94
11.317	0.00	1.54	1.424	IO					4.94
11.333	0.00	1.54	1.422	IO					4.93
11.350	0.00	1.54	1.419	IO					4.93
11.367	0.00	1.54	1.417	IO					4.92
11.383	0.00	1.54	1.415	IO					4.92
11.400	0.00	1.54	1.413	IO					4.92
11.417	0.00	1.54	1.411	IO					4.91
11.433	0.00	1.54	1.409	IO					4.91
11.450	0.00	1.54	1.407	IO					4.90
11.467	0.00	1.54	1.405	IO					4.90
11.483	0.00	1.54	1.402	IO					4.90
11.500	0.00	1.54	1.400	IO					4.89
11.517	0.00	1.54	1.398	IO					4.89
11.533	0.00	1.54	1.396	IO					4.89
11.550	0.00	1.54	1.394	IO					4.88
11.567	0.00	1.54	1.392	IO					4.88
11.583	0.00	1.54	1.390	IO					4.87
11.600	0.00	1.54	1.388	IO					4.87
11.617	0.00	1.54	1.385	IO					4.87
11.633	0.00	1.54	1.383	IO					4.86
11.650	0.00	1.54	1.381	IO					4.86
11.667	0.00	1.54	1.379	IO					4.86
11.683	0.00	1.54	1.377	IO					4.85
11.700	0.00	1.53	1.375	IO					4.85
11.717	0.00	1.53	1.373	IO					4.84
11.733	0.00	1.53	1.371	IO					4.84
11.750	0.00	1.53	1.369	IO					4.84
11.767	0.00	1.53	1.366	IO					4.83
11.783	0.00	1.53	1.364	IO					4.83
11.800	0.00	1.53	1.362	IO					4.83
11.817	0.00	1.53	1.360	IO					4.82

11.833	0.00	1.53	1.358	IO					4.82
11.850	0.00	1.53	1.356	IO					4.81
11.867	0.00	1.53	1.354	IO					4.81
11.883	0.00	1.53	1.352	IO					4.81
11.900	0.00	1.53	1.350	IO					4.80
11.917	0.00	1.53	1.347	IO					4.80
11.933	0.00	1.53	1.345	IO					4.80
11.950	0.00	1.53	1.343	IO					4.79
11.967	0.00	1.53	1.341	IO					4.79
11.983	0.00	1.53	1.339	IO					4.78
12.000	0.00	1.53	1.337	IO					4.78
12.017	0.00	1.53	1.335	IO					4.78
12.033	0.00	1.53	1.333	IO					4.77
12.050	0.00	1.53	1.331	IO					4.77
12.067	0.00	1.53	1.329	IO					4.77
12.083	0.00	1.53	1.326	IO					4.76
12.100	0.00	1.53	1.324	IO					4.76
12.117	0.00	1.53	1.322	IO					4.75
12.133	0.00	1.53	1.320	IO					4.75
12.150	0.00	1.52	1.318	IO					4.75
12.167	0.00	1.52	1.316	IO					4.74
12.183	0.00	1.52	1.314	IO					4.74
12.200	0.00	1.52	1.312	IO					4.74
12.217	0.00	1.52	1.310	IO					4.73
12.233	0.00	1.52	1.308	IO					4.73
12.250	0.00	1.52	1.305	IO					4.72
12.267	0.00	1.52	1.303	IO					4.72
12.283	0.00	1.52	1.301	IO					4.72
12.300	0.00	1.52	1.299	IO					4.71
12.317	0.00	1.52	1.297	IO					4.71
12.333	0.00	1.52	1.295	IO					4.71
12.350	0.00	1.52	1.293	IO					4.70
12.367	0.00	1.52	1.291	IO					4.70
12.383	0.00	1.52	1.289	IO					4.69
12.400	0.00	1.52	1.287	IO					4.69
12.417	0.00	1.52	1.284	IO					4.69
12.433	0.00	1.52	1.282	IO					4.68
12.450	0.00	1.52	1.280	IO					4.68
12.467	0.00	1.52	1.278	IO					4.68
12.483	0.00	1.52	1.276	IO					4.67
12.500	0.00	1.52	1.274	IO					4.67
12.517	0.00	1.52	1.272	IO					4.66
12.533	0.00	1.52	1.270	IO					4.66
12.550	0.00	1.52	1.268	IO					4.66
12.567	0.00	1.52	1.266	IO					4.65
12.583	0.00	1.51	1.264	IO					4.65
12.600	0.00	1.51	1.261	IO					4.65
12.617	0.00	1.51	1.259	IO					4.64
12.633	0.00	1.51	1.257	IO					4.64
12.650	0.00	1.51	1.255	IO					4.63
12.667	0.00	1.51	1.253	IO					4.63
12.683	0.00	1.51	1.251	IO					4.63
12.700	0.00	1.51	1.249	IO					4.62
12.717	0.00	1.51	1.247	IO					4.62
12.733	0.00	1.51	1.245	IO					4.62
12.750	0.00	1.51	1.243	IO					4.61
12.767	0.00	1.51	1.241	IO					4.61
12.783	0.00	1.51	1.239	IO					4.60
12.800	0.00	1.51	1.236	IO					4.60
12.817	0.00	1.51	1.234	IO					4.60
12.833	0.00	1.51	1.232	IO					4.59
12.850	0.00	1.51	1.230	IO					4.59
12.867	0.00	1.51	1.228	IO					4.59
12.883	0.00	1.51	1.226	IO					4.58
12.900	0.00	1.51	1.224	IO					4.58
12.917	0.00	1.51	1.222	IO					4.57
12.933	0.00	1.51	1.220	IO					4.57
12.950	0.00	1.51	1.218	IO					4.57
12.967	0.00	1.51	1.216	IO					4.56
12.983	0.00	1.51	1.214	IO					4.56
13.000	0.00	1.51	1.212	IO					4.56

13.017	0.00	1.51	1.209	IO					4.55
13.033	0.00	1.50	1.207	IO					4.55
13.050	0.00	1.50	1.205	IO					4.55
13.067	0.00	1.50	1.203	IO					4.54
13.083	0.00	1.50	1.201	IO					4.54
13.100	0.00	1.50	1.199	IO					4.53
13.117	0.00	1.50	1.197	IO					4.53
13.133	0.00	1.50	1.195	IO					4.53
13.150	0.00	1.50	1.193	IO					4.52
13.167	0.00	1.50	1.191	IO					4.52
13.183	0.00	1.50	1.189	IO					4.52
13.200	0.00	1.50	1.187	IO					4.51
13.217	0.00	1.50	1.185	IO					4.51
13.233	0.00	1.50	1.183	IO					4.50
13.250	0.00	1.50	1.181	IO					4.50
13.267	0.00	1.50	1.178	IO					4.50
13.283	0.00	1.50	1.176	IO					4.49
13.300	0.00	1.50	1.174	IO					4.49
13.317	0.00	1.50	1.172	IO					4.48
13.333	0.00	1.50	1.170	IO					4.48
13.350	0.00	1.50	1.168	IO					4.48
13.367	0.00	1.49	1.166	IO					4.47
13.383	0.00	1.49	1.164	IO					4.47
13.400	0.00	1.49	1.162	IO					4.46
13.417	0.00	1.49	1.160	IO					4.46
13.433	0.00	1.49	1.158	IO					4.46
13.450	0.00	1.49	1.156	IO					4.45
13.467	0.00	1.49	1.154	IO					4.45
13.483	0.00	1.49	1.152	IO					4.44
13.500	0.00	1.49	1.150	IO					4.44
13.517	0.00	1.49	1.148	IO					4.44
13.533	0.00	1.49	1.146	IO					4.43
13.550	0.00	1.49	1.144	IO					4.43
13.567	0.00	1.48	1.141	IO					4.42
13.583	0.00	1.48	1.139	IO					4.42
13.600	0.00	1.48	1.137	IO					4.41
13.617	0.00	1.48	1.135	IO					4.41
13.633	0.00	1.48	1.133	IO					4.41
13.650	0.00	1.48	1.131	IO					4.40
13.667	0.00	1.48	1.129	IO					4.40
13.683	0.00	1.48	1.127	IO					4.39
13.700	0.00	1.48	1.125	IO					4.39
13.717	0.00	1.48	1.123	IO					4.39
13.733	0.00	1.48	1.121	IO					4.38
13.750	0.00	1.48	1.119	IO					4.38
13.767	0.00	1.47	1.117	IO					4.37
13.783	0.00	1.47	1.115	IO					4.37
13.800	0.00	1.47	1.113	IO					4.37
13.817	0.00	1.47	1.111	IO					4.36
13.833	0.00	1.47	1.109	IO					4.36
13.850	0.00	1.47	1.107	IO					4.35
13.867	0.00	1.47	1.105	IO					4.35
13.883	0.00	1.47	1.103	IO					4.35
13.900	0.00	1.47	1.101	IO					4.34
13.917	0.00	1.47	1.099	IO					4.34
13.933	0.00	1.47	1.097	IO					4.33
13.950	0.00	1.47	1.095	IO					4.33
13.967	0.00	1.47	1.093	IO					4.33
13.983	0.00	1.46	1.091	IO					4.32
14.000	0.00	1.46	1.089	IO					4.32
14.017	0.00	1.46	1.087	IO					4.31
14.033	0.00	1.46	1.085	IO					4.31
14.050	0.00	1.46	1.083	IO					4.31
14.067	0.00	1.46	1.081	IO					4.30
14.083	0.00	1.46	1.079	IO					4.30
14.100	0.00	1.46	1.077	IO					4.29
14.117	0.00	1.46	1.075	IO					4.29
14.133	0.00	1.46	1.073	IO					4.29
14.150	0.00	1.46	1.071	IO					4.28
14.167	0.00	1.46	1.069	IO					4.28
14.183	0.00	1.45	1.067	IO					4.27

14.200	0.00	1.45	1.065	IO					4.27
14.217	0.00	1.45	1.063	IO					4.27
14.233	0.00	1.45	1.061	IO					4.26
14.250	0.00	1.45	1.059	IO					4.26
14.267	0.00	1.45	1.057	IO					4.25
14.283	0.00	1.45	1.055	IO					4.25
14.300	0.00	1.45	1.053	IO					4.25
14.317	0.00	1.45	1.051	IO					4.24
14.333	0.00	1.45	1.049	IO					4.24
14.350	0.00	1.45	1.047	IO					4.23
14.367	0.00	1.45	1.045	IO					4.23
14.383	0.00	1.45	1.043	IO					4.23
14.400	0.00	1.44	1.041	IO					4.22
14.417	0.00	1.44	1.039	IO					4.22
14.433	0.00	1.44	1.037	IO					4.21
14.450	0.00	1.44	1.035	IO					4.21
14.467	0.00	1.44	1.033	IO					4.21
14.483	0.00	1.44	1.031	IO					4.20
14.500	0.00	1.44	1.029	IO					4.20
14.517	0.00	1.44	1.027	IO					4.19
14.533	0.00	1.44	1.025	IO					4.19
14.550	0.00	1.44	1.023	IO					4.19
14.567	0.00	1.44	1.021	IO					4.18
14.583	0.00	1.44	1.019	IO					4.18
14.600	0.00	1.43	1.017	IO					4.17
14.617	0.00	1.43	1.015	IO					4.17
14.633	0.00	1.43	1.013	IO					4.17
14.650	0.00	1.43	1.011	IO					4.16
14.667	0.00	1.43	1.009	IO					4.16
14.683	0.00	1.43	1.007	IO					4.15
14.700	0.00	1.43	1.005	IO					4.15
14.717	0.00	1.43	1.003	IO					4.15
14.733	0.00	1.43	1.001	IO					4.14
14.750	0.00	1.43	0.999	IO					4.14
14.767	0.00	1.43	0.997	IO					4.13
14.783	0.00	1.43	0.995	IO					4.13
14.800	0.00	1.43	0.993	IO					4.13
14.817	0.00	1.42	0.991	IO					4.12
14.833	0.00	1.42	0.989	IO					4.12
14.850	0.00	1.42	0.987	IO					4.11
14.867	0.00	1.42	0.985	IO					4.11
14.883	0.00	1.42	0.983	IO					4.11
14.900	0.00	1.42	0.981	IO					4.10
14.917	0.00	1.42	0.979	IO					4.10
14.933	0.00	1.42	0.978	IO					4.10
14.950	0.00	1.42	0.976	IO					4.09
14.967	0.00	1.42	0.974	IO					4.09
14.983	0.00	1.42	0.972	IO					4.08
15.000	0.00	1.42	0.970	IO					4.08
15.017	0.00	1.42	0.968	IO					4.08
15.033	0.00	1.41	0.966	IO					4.07
15.050	0.00	1.41	0.964	IO					4.07
15.067	0.00	1.41	0.962	IO					4.06
15.083	0.00	1.41	0.960	IO					4.06
15.100	0.00	1.41	0.958	IO					4.06
15.117	0.00	1.41	0.956	IO					4.05
15.133	0.00	1.41	0.954	IO					4.05
15.150	0.00	1.41	0.952	IO					4.04
15.167	0.00	1.41	0.950	IO					4.04
15.183	0.00	1.41	0.948	IO					4.04
15.200	0.00	1.41	0.946	IO					4.03
15.217	0.00	1.41	0.944	IO					4.03
15.233	0.00	1.40	0.942	IO					4.02
15.250	0.00	1.40	0.941	IO					4.02
15.267	0.00	1.40	0.939	IO					4.02
15.283	0.00	1.40	0.937	IO					4.01
15.300	0.00	1.40	0.935	IO					4.01
15.317	0.00	1.40	0.933	IO					4.01
15.333	0.00	1.40	0.931	IO					4.00
15.350	0.00	1.40	0.929	IO					4.00
15.367	0.00	1.40	0.927	IO					3.99

15.383	0.00	1.40	0.925	IO					3.99
15.400	0.00	1.40	0.923	IO					3.99
15.417	0.00	1.40	0.921	IO					3.98
15.433	0.00	1.40	0.919	IO					3.98
15.450	0.00	1.39	0.917	IO					3.97
15.467	0.00	1.39	0.916	IO					3.97
15.483	0.00	1.39	0.914	IO					3.97
15.500	0.00	1.39	0.912	IO					3.96
15.517	0.00	1.39	0.910	IO					3.96
15.533	0.00	1.39	0.908	IO					3.96
15.550	0.00	1.39	0.906	IO					3.95
15.567	0.00	1.39	0.904	IO					3.95
15.583	0.00	1.39	0.902	IO					3.94
15.600	0.00	1.39	0.900	IO					3.94
15.617	0.00	1.39	0.898	IO					3.94
15.633	0.00	1.39	0.896	IO					3.93
15.650	0.00	1.39	0.894	IO					3.93
15.667	0.00	1.39	0.893	IO					3.93
15.683	0.00	1.38	0.891	IO					3.92
15.700	0.00	1.38	0.889	IO					3.92
15.717	0.00	1.38	0.887	IO					3.91
15.733	0.00	1.38	0.885	IO					3.91
15.750	0.00	1.38	0.883	IO					3.91
15.767	0.00	1.38	0.881	IO					3.90
15.783	0.00	1.38	0.879	IO					3.90
15.800	0.00	1.38	0.877	IO					3.89
15.817	0.00	1.38	0.875	IO					3.89
15.833	0.00	1.38	0.874	IO					3.89
15.850	0.00	1.38	0.872	IO					3.88
15.867	0.00	1.38	0.870	IO					3.88
15.883	0.00	1.38	0.868	IO					3.88
15.900	0.00	1.37	0.866	IO					3.87
15.917	0.00	1.37	0.864	IO					3.87
15.933	0.00	1.37	0.862	IO					3.86
15.950	0.00	1.37	0.860	IO					3.86
15.967	0.00	1.37	0.858	O					3.86
15.983	0.00	1.37	0.856	O					3.85
16.000	0.00	1.37	0.855	O					3.85
16.017	0.00	1.37	0.853	O					3.85
16.033	0.00	1.37	0.851	O					3.84
16.050	0.00	1.37	0.849	O					3.84
16.067	0.00	1.37	0.847	O					3.83
16.083	0.00	1.37	0.845	O					3.83
16.100	0.00	1.37	0.843	O					3.83
16.117	0.00	1.36	0.841	O					3.82
16.133	0.00	1.36	0.840	O					3.82
16.150	0.00	1.36	0.838	O					3.82
16.167	0.00	1.36	0.836	O					3.81
16.183	0.00	1.36	0.834	O					3.81
16.200	0.00	1.36	0.832	O					3.80
16.217	0.00	1.36	0.830	O					3.80
16.233	0.00	1.36	0.828	O					3.80
16.250	0.00	1.36	0.826	O					3.79
16.267	0.00	1.36	0.825	O					3.79
16.283	0.00	1.36	0.823	O					3.79
16.300	0.00	1.36	0.821	O					3.78
16.317	0.00	1.36	0.819	O					3.78
16.333	0.00	1.35	0.817	O					3.77
16.350	0.00	1.35	0.815	O					3.77
16.367	0.00	1.35	0.813	O					3.77
16.383	0.00	1.35	0.811	O					3.76
16.400	0.00	1.35	0.810	O					3.76
16.417	0.00	1.35	0.808	O					3.76
16.433	0.00	1.35	0.806	O					3.75
16.450	0.00	1.35	0.804	O					3.75
16.467	0.00	1.35	0.802	O					3.74
16.483	0.00	1.35	0.800	O					3.74
16.500	0.00	1.35	0.798	O					3.74
16.517	0.00	1.35	0.797	O					3.73
16.533	0.00	1.35	0.795	O					3.73
16.550	0.00	1.35	0.793	O					3.73

16.567	0.00	1.34	0.791	0					3.72
16.583	0.00	1.34	0.789	0					3.72
16.600	0.00	1.34	0.787	0					3.71
16.617	0.00	1.34	0.785	0					3.71
16.633	0.00	1.34	0.784	0					3.71
16.650	0.00	1.34	0.782	0					3.70
16.667	0.00	1.34	0.780	0					3.70
16.683	0.00	1.34	0.778	0					3.70
16.700	0.00	1.34	0.776	0					3.69
16.717	0.00	1.34	0.774	0					3.69
16.733	0.00	1.34	0.773	0					3.69
16.750	0.00	1.34	0.771	0					3.68
16.767	0.00	1.34	0.769	0					3.68
16.783	0.00	1.33	0.767	0					3.67
16.800	0.00	1.33	0.765	0					3.67
16.817	0.00	1.33	0.763	0					3.67
16.833	0.00	1.33	0.762	0					3.66
16.850	0.00	1.33	0.760	0					3.66
16.867	0.00	1.33	0.758	0					3.66
16.883	0.00	1.33	0.756	0					3.65
16.900	0.00	1.33	0.754	0					3.65
16.917	0.00	1.33	0.752	0					3.64
16.933	0.00	1.33	0.751	0					3.64
16.950	0.00	1.33	0.749	0					3.64
16.967	0.00	1.33	0.747	0					3.63
16.983	0.00	1.33	0.745	0					3.63
17.000	0.00	1.33	0.743	0					3.63
17.017	0.00	1.32	0.741	0					3.62
17.033	0.00	1.32	0.740	0					3.62
17.050	0.00	1.32	0.738	0					3.62
17.067	0.00	1.32	0.736	0					3.61
17.083	0.00	1.32	0.734	0					3.61
17.100	0.00	1.32	0.732	0					3.60
17.117	0.00	1.32	0.730	0					3.60
17.133	0.00	1.32	0.729	0					3.60
17.150	0.00	1.32	0.727	0					3.59
17.167	0.00	1.32	0.725	0					3.59
17.183	0.00	1.32	0.723	0					3.59
17.200	0.00	1.32	0.721	0					3.58
17.217	0.00	1.32	0.720	0					3.58
17.233	0.00	1.32	0.718	0					3.58
17.250	0.00	1.31	0.716	0					3.57
17.267	0.00	1.31	0.714	0					3.57
17.283	0.00	1.31	0.712	0					3.56
17.300	0.00	1.31	0.711	0					3.56
17.317	0.00	1.31	0.709	0					3.56
17.333	0.00	1.31	0.707	0					3.55
17.350	0.00	1.31	0.705	0					3.55
17.367	0.00	1.31	0.703	0					3.55
17.383	0.00	1.31	0.702	0					3.54
17.400	0.00	1.31	0.700	0					3.54
17.417	0.00	1.31	0.698	0					3.54
17.433	0.00	1.31	0.696	0					3.53
17.450	0.00	1.31	0.694	0					3.53
17.467	0.00	1.31	0.693	0					3.53
17.483	0.00	1.30	0.691	0					3.52
17.500	0.00	1.30	0.689	0					3.52
17.517	0.00	1.30	0.687	0					3.51
17.533	0.00	1.30	0.685	0					3.51
17.550	0.00	1.30	0.684	0					3.51
17.567	0.00	1.30	0.682	0					3.50
17.583	0.00	1.30	0.680	0					3.50
17.600	0.00	1.30	0.678	0					3.49
17.617	0.00	1.30	0.676	0					3.48
17.633	0.00	1.30	0.675	0					3.47
17.650	0.00	1.30	0.673	0					3.46
17.667	0.00	1.30	0.671	0					3.46
17.683	0.00	1.29	0.669	0					3.45
17.700	0.00	1.29	0.667	0					3.44
17.717	0.00	1.29	0.666	0					3.43
17.733	0.00	1.29	0.664	0					3.42

17.750	0.00	1.29	0.662	0					3.41
17.767	0.00	1.29	0.660	0					3.40
17.783	0.00	1.29	0.659	0					3.39
17.800	0.00	1.29	0.657	0					3.38
17.817	0.00	1.29	0.655	0					3.38
17.833	0.00	1.29	0.653	0					3.37
17.850	0.00	1.29	0.651	0					3.36
17.867	0.00	1.28	0.650	0					3.35
17.883	0.00	1.28	0.648	0					3.34
17.900	0.00	1.28	0.646	0					3.33
17.917	0.00	1.28	0.644	0					3.32
17.933	0.00	1.28	0.643	0					3.31
17.950	0.00	1.28	0.641	0					3.30
17.967	0.00	1.28	0.639	0					3.30
17.983	0.00	1.28	0.637	0					3.29
18.000	0.00	1.28	0.636	0					3.28
18.017	0.00	1.28	0.634	0					3.27
18.033	0.00	1.28	0.632	0					3.26
18.050	0.00	1.28	0.630	0					3.25
18.067	0.00	1.27	0.629	0					3.24
18.083	0.00	1.27	0.627	0					3.23
18.100	0.00	1.27	0.625	0					3.23
18.117	0.00	1.27	0.623	0					3.22
18.133	0.00	1.27	0.622	0					3.21
18.150	0.00	1.27	0.620	0					3.20
18.167	0.00	1.27	0.618	0					3.19
18.183	0.00	1.27	0.616	0					3.18
18.200	0.00	1.27	0.615	0					3.17
18.217	0.00	1.27	0.613	0					3.16
18.233	0.00	1.27	0.611	0					3.16
18.250	0.00	1.26	0.609	0					3.15
18.267	0.00	1.26	0.608	0					3.14
18.283	0.00	1.26	0.606	0					3.13
18.300	0.00	1.26	0.604	0					3.12
18.317	0.00	1.26	0.602	0					3.11
18.333	0.00	1.26	0.601	0					3.10
18.350	0.00	1.26	0.599	0					3.09
18.367	0.00	1.26	0.597	0					3.09
18.383	0.00	1.26	0.595	0					3.08
18.400	0.00	1.26	0.594	0					3.07
18.417	0.00	1.26	0.592	0					3.06
18.433	0.00	1.26	0.590	0					3.05
18.450	0.00	1.25	0.588	0					3.04
18.467	0.00	1.25	0.587	0					3.03
18.483	0.00	1.25	0.585	0					3.03
18.500	0.00	1.25	0.583	0					3.02
18.517	0.00	1.25	0.582	0					3.01
18.533	0.00	1.25	0.580	0					3.00
18.550	0.00	1.25	0.578	0					2.99
18.567	0.00	1.25	0.576	0					2.98
18.583	0.00	1.25	0.575	0					2.97
18.600	0.00	1.25	0.573	0					2.96
18.617	0.00	1.25	0.571	0					2.96
18.633	0.00	1.24	0.570	0					2.95
18.650	0.00	1.24	0.568	0					2.94
18.667	0.00	1.24	0.566	0					2.93
18.683	0.00	1.24	0.564	0					2.92
18.700	0.00	1.24	0.563	0					2.91
18.717	0.00	1.24	0.561	0					2.91
18.733	0.00	1.24	0.559	0					2.90
18.750	0.00	1.24	0.558	0					2.89
18.767	0.00	1.24	0.556	0					2.88
18.783	0.00	1.24	0.554	0					2.87
18.800	0.00	1.24	0.552	0					2.86
18.817	0.00	1.24	0.551	0					2.85
18.833	0.00	1.23	0.549	0					2.85
18.850	0.00	1.23	0.547	0					2.84
18.867	0.00	1.23	0.546	0					2.83
18.883	0.00	1.23	0.544	0					2.82
18.900	0.00	1.23	0.542	0					2.81
18.917	0.00	1.23	0.541	0					2.80

18.933	0.00	1.23	0.539	0					2.79
18.950	0.00	1.23	0.537	0					2.79
18.967	0.00	1.23	0.536	0					2.78
18.983	0.00	1.23	0.534	0					2.77
19.000	0.00	1.23	0.532	0					2.76
19.017	0.00	1.23	0.530	0					2.75
19.033	0.00	1.22	0.529	0					2.74
19.050	0.00	1.22	0.527	0					2.74
19.067	0.00	1.22	0.525	0					2.73
19.083	0.00	1.22	0.524	0					2.72
19.100	0.00	1.22	0.522	0					2.71
19.117	0.00	1.22	0.520	0					2.70
19.133	0.00	1.22	0.519	0					2.69
19.150	0.00	1.22	0.517	0					2.68
19.167	0.00	1.22	0.515	0					2.68
19.183	0.00	1.22	0.514	0					2.67
19.200	0.00	1.22	0.512	0					2.66
19.217	0.00	1.22	0.510	0					2.65
19.233	0.00	1.21	0.509	0					2.64
19.250	0.00	1.21	0.507	0					2.63
19.267	0.00	1.21	0.505	0					2.63
19.283	0.00	1.21	0.504	0					2.62
19.300	0.00	1.21	0.502	0					2.61
19.317	0.00	1.21	0.500	0					2.60
19.333	0.00	1.21	0.499	0					2.59
19.350	0.00	1.21	0.497	0					2.58
19.367	0.00	1.21	0.495	0					2.58
19.383	0.00	1.21	0.494	0					2.57
19.400	0.00	1.21	0.492	0					2.56
19.417	0.00	1.21	0.490	0					2.55
19.433	0.00	1.20	0.489	0					2.54
19.450	0.00	1.20	0.487	0					2.53
19.467	0.00	1.20	0.485	0					2.53
19.483	0.00	1.20	0.484	0					2.52
19.500	0.00	1.20	0.482	0					2.51
19.517	0.00	1.20	0.480	0					2.50
19.533	0.00	1.20	0.479	0					2.49
19.550	0.00	1.20	0.477	0					2.48
19.567	0.00	1.20	0.475	0					2.48
19.583	0.00	1.19	0.474	0					2.47
19.600	0.00	1.19	0.472	0					2.46
19.617	0.00	1.19	0.470	0					2.45
19.633	0.00	1.19	0.469	0					2.44
19.650	0.00	1.19	0.467	0					2.43
19.667	0.00	1.18	0.466	0					2.42
19.683	0.00	1.18	0.464	0					2.42
19.700	0.00	1.18	0.462	0					2.41
19.717	0.00	1.18	0.461	0					2.40
19.733	0.00	1.18	0.459	0					2.39
19.750	0.00	1.18	0.457	0					2.38
19.767	0.00	1.17	0.456	0					2.37
19.783	0.00	1.17	0.454	0					2.36
19.800	0.00	1.17	0.453	0					2.36
19.817	0.00	1.17	0.451	0					2.35
19.833	0.00	1.17	0.449	0					2.34
19.850	0.00	1.17	0.448	0					2.33
19.867	0.00	1.16	0.446	0					2.32
19.883	0.00	1.16	0.445	0					2.31
19.900	0.00	1.16	0.443	0					2.30
19.917	0.00	1.16	0.441	0					2.30
19.933	0.00	1.16	0.440	0					2.29
19.950	0.00	1.16	0.438	0					2.28
19.967	0.00	1.15	0.437	0					2.27
19.983	0.00	1.15	0.435	0					2.26
20.000	0.00	1.15	0.433	0					2.25
20.017	0.00	1.15	0.432	0					2.25
20.033	0.00	1.15	0.430	0					2.24
20.050	0.00	1.15	0.429	0					2.23
20.067	0.00	1.14	0.427	0					2.22
20.083	0.00	1.14	0.425	0					2.21
20.100	0.00	1.14	0.424	0					2.20

20.117	0.00	1.14	0.422	0					2.20
20.133	0.00	1.14	0.421	0					2.19
20.150	0.00	1.14	0.419	0					2.18
20.167	0.00	1.13	0.418	0					2.17
20.183	0.00	1.13	0.416	0					2.16
20.200	0.00	1.13	0.415	0					2.16
20.217	0.00	1.13	0.413	0					2.15
20.233	0.00	1.13	0.411	0					2.14
20.250	0.00	1.13	0.410	0					2.13
20.267	0.00	1.12	0.408	0					2.12
20.283	0.00	1.12	0.407	0					2.11
20.300	0.00	1.12	0.405	0					2.11
20.317	0.00	1.12	0.404	0					2.10
20.333	0.00	1.12	0.402	0					2.09
20.350	0.00	1.12	0.401	0					2.08
20.367	0.00	1.11	0.399	0					2.07
20.383	0.00	1.11	0.398	0					2.07
20.400	0.00	1.11	0.396	0					2.06
20.417	0.00	1.11	0.394	0					2.05
20.433	0.00	1.11	0.393	0					2.04
20.450	0.00	1.11	0.391	0					2.03
20.467	0.00	1.11	0.390	0					2.03
20.483	0.00	1.10	0.388	0					2.02
20.500	0.00	1.10	0.387	0					2.01
20.517	0.00	1.10	0.385	0					2.00
20.533	0.00	1.10	0.384	0					1.99
20.550	0.00	1.10	0.382	0					1.99
20.567	0.00	1.10	0.381	0					1.98
20.583	0.00	1.09	0.379	0					1.97
20.600	0.00	1.09	0.378	0					1.96
20.617	0.00	1.09	0.376	0					1.95
20.633	0.00	1.09	0.375	0					1.95
20.650	0.00	1.09	0.373	0					1.94
20.667	0.00	1.09	0.372	0					1.93
20.683	0.00	1.08	0.370	0					1.92
20.700	0.00	1.08	0.369	0					1.91
20.717	0.00	1.08	0.367	0					1.91
20.733	0.00	1.08	0.366	0					1.90
20.750	0.00	1.08	0.364	0					1.89
20.767	0.00	1.08	0.363	0					1.88
20.783	0.00	1.08	0.361	0					1.88
20.800	0.00	1.07	0.360	0					1.87
20.817	0.00	1.07	0.358	0					1.86
20.833	0.00	1.07	0.357	0					1.85
20.850	0.00	1.07	0.355	0					1.84
20.867	0.00	1.07	0.354	0					1.84
20.883	0.00	1.07	0.353	0					1.83
20.900	0.00	1.06	0.351	0					1.82
20.917	0.00	1.06	0.350	0					1.81
20.933	0.00	1.06	0.348	0					1.81
20.950	0.00	1.06	0.347	0					1.80
20.967	0.00	1.06	0.345	0					1.79
20.983	0.00	1.06	0.344	0					1.78
21.000	0.00	1.06	0.342	0					1.78
21.017	0.00	1.05	0.341	0					1.77
21.033	0.00	1.05	0.339	0					1.76
21.050	0.00	1.05	0.338	0					1.75
21.067	0.00	1.05	0.336	0					1.74
21.083	0.00	1.05	0.335	0					1.74
21.100	0.00	1.05	0.334	0					1.73
21.117	0.00	1.04	0.332	0					1.72
21.133	0.00	1.04	0.331	0					1.71
21.150	0.00	1.04	0.329	0					1.71
21.167	0.00	1.04	0.328	0					1.70
21.183	0.00	1.04	0.326	0					1.69
21.200	0.00	1.04	0.325	0					1.68
21.217	0.00	1.04	0.324	0					1.68
21.233	0.00	1.03	0.322	0					1.67
21.250	0.00	1.03	0.321	0					1.66
21.267	0.00	1.03	0.319	0					1.65
21.283	0.00	1.03	0.318	0					1.65

21.300	0.00	1.03	0.316	0					1.64
21.317	0.00	1.03	0.315	0					1.63
21.333	0.00	1.02	0.314	0					1.62
21.350	0.00	1.02	0.312	0					1.62
21.367	0.00	1.02	0.311	0					1.61
21.383	0.00	1.02	0.309	0					1.60
21.400	0.00	1.02	0.308	0					1.59
21.417	0.00	1.02	0.307	0					1.59
21.433	0.00	1.02	0.305	0					1.58
21.450	0.00	1.01	0.304	0					1.57
21.467	0.00	1.01	0.302	0					1.57
21.483	0.00	1.01	0.301	0					1.56
21.500	0.00	1.01	0.300	0					1.55
21.517	0.00	1.01	0.298	0					1.54
21.533	0.00	1.01	0.297	0					1.54
21.550	0.00	1.01	0.295	0					1.53
21.567	0.00	1.00	0.294	0					1.52
21.583	0.00	1.00	0.293	0					1.51
21.600	0.00	1.00	0.291	0					1.51
21.617	0.00	1.00	0.290	0					1.50
21.633	0.00	1.00	0.289	0					1.49
21.650	0.00	0.99	0.287	0					1.49
21.667	0.00	0.99	0.286	0					1.48
21.683	0.00	0.99	0.284	0					1.47
21.700	0.00	0.99	0.283	0					1.47
21.717	0.00	0.98	0.282	0					1.46
21.733	0.00	0.98	0.280	0					1.45
21.750	0.00	0.98	0.279	0					1.45
21.767	0.00	0.98	0.278	0					1.44
21.783	0.00	0.97	0.276	0					1.43
21.800	0.00	0.97	0.275	0					1.43
21.817	0.00	0.97	0.274	0					1.42
21.833	0.00	0.96	0.272	0					1.41
21.850	0.00	0.96	0.271	0					1.41
21.867	0.00	0.96	0.270	0					1.40
21.883	0.00	0.96	0.268	0					1.39
21.900	0.00	0.95	0.267	0					1.39
21.917	0.00	0.95	0.266	0					1.38
21.933	0.00	0.95	0.264	0					1.37
21.950	0.00	0.95	0.263	0					1.37
21.967	0.00	0.94	0.262	0					1.36
21.983	0.00	0.94	0.261	0					1.35
22.000	0.00	0.94	0.259	0					1.35
22.017	0.00	0.94	0.258	0					1.34
22.033	0.00	0.93	0.257	0					1.33
22.050	0.00	0.93	0.255	0					1.33
22.067	0.00	0.93	0.254	0					1.32
22.083	0.00	0.93	0.253	0					1.31
22.100	0.00	0.92	0.252	0					1.31
22.117	0.00	0.92	0.250	0					1.30
22.133	0.00	0.92	0.249	0					1.30
22.150	0.00	0.92	0.248	0					1.29
22.167	0.00	0.91	0.246	0					1.28
22.183	0.00	0.91	0.245	0					1.28
22.200	0.00	0.91	0.244	0					1.27
22.217	0.00	0.91	0.243	0					1.26
22.233	0.00	0.90	0.241	0					1.26
22.250	0.00	0.90	0.240	0					1.25
22.267	0.00	0.90	0.239	0					1.24
22.283	0.00	0.90	0.238	0					1.24
22.300	0.00	0.89	0.237	0					1.23
22.317	0.00	0.89	0.235	0					1.23
22.333	0.00	0.89	0.234	0					1.22
22.350	0.00	0.89	0.233	0					1.21
22.367	0.00	0.88	0.232	0					1.21
22.383	0.00	0.88	0.230	0					1.20
22.400	0.00	0.88	0.229	0					1.20
22.417	0.00	0.88	0.228	0					1.19
22.433	0.00	0.87	0.227	0					1.18
22.450	0.00	0.87	0.226	0					1.18
22.467	0.00	0.87	0.224	0					1.17

22.483	0.00	0.87	0.223	0					1.17
22.500	0.00	0.86	0.222	0					1.16
22.517	0.00	0.86	0.221	0					1.15
22.533	0.00	0.86	0.220	0					1.15
22.550	0.00	0.86	0.218	0					1.14
22.567	0.00	0.85	0.217	0					1.14
22.583	0.00	0.85	0.216	0					1.13
22.600	0.00	0.85	0.215	0					1.12
22.617	0.00	0.85	0.214	0					1.12
22.633	0.00	0.85	0.213	0					1.11
22.650	0.00	0.84	0.211	0					1.11
22.667	0.00	0.84	0.210	0					1.10
22.683	0.00	0.84	0.209	0					1.10
22.700	0.00	0.84	0.208	0					1.09
22.717	0.00	0.83	0.207	0					1.08
22.733	0.00	0.83	0.206	0					1.08
22.750	0.00	0.83	0.205	0					1.07
22.767	0.00	0.83	0.203	0					1.07
22.783	0.00	0.82	0.202	0					1.06
22.800	0.00	0.82	0.201	0					1.06
22.817	0.00	0.82	0.200	0					1.05
22.833	0.00	0.82	0.199	0					1.04
22.850	0.00	0.82	0.198	0					1.04
22.867	0.00	0.81	0.197	0					1.03
22.883	0.00	0.81	0.195	0					1.03
22.900	0.00	0.81	0.194	0					1.02
22.917	0.00	0.81	0.193	0					1.02
22.933	0.00	0.80	0.192	0					1.01
22.950	0.00	0.80	0.191	0					1.01
22.967	0.00	0.80	0.190	0					1.00
22.983	0.00	0.80	0.189	0					0.99
23.000	0.00	0.79	0.188	0					0.99
23.017	0.00	0.79	0.187	0					0.98
23.033	0.00	0.78	0.186	0					0.98
23.050	0.00	0.78	0.185	0					0.97
23.067	0.00	0.77	0.183	0					0.97
23.083	0.00	0.77	0.182	0					0.96
23.100	0.00	0.76	0.181	0					0.95
23.117	0.00	0.76	0.180	0					0.95
23.133	0.00	0.75	0.179	0					0.94
23.150	0.00	0.75	0.178	0					0.94
23.167	0.00	0.75	0.177	0					0.93
23.183	0.00	0.74	0.176	0					0.93
23.200	0.00	0.74	0.175	0					0.92
23.217	0.00	0.73	0.174	0					0.92
23.233	0.00	0.73	0.173	0					0.91
23.250	0.00	0.72	0.172	0					0.91
23.267	0.00	0.72	0.171	0					0.90
23.283	0.00	0.72	0.170	0					0.90
23.300	0.00	0.71	0.169	0					0.89
23.317	0.00	0.71	0.168	0					0.89
23.333	0.00	0.70	0.167	0					0.88
23.350	0.00	0.70	0.166	0					0.87
23.367	0.00	0.70	0.165	0					0.87
23.383	0.00	0.69	0.164	0					0.86
23.400	0.00	0.69	0.163	0					0.86
23.417	0.00	0.68	0.162	0					0.85
23.433	0.00	0.68	0.161	0					0.85
23.450	0.00	0.68	0.161	0					0.84
23.467	0.00	0.67	0.160	0					0.84
23.483	0.00	0.67	0.159	0					0.84
23.500	0.00	0.66	0.158	0					0.83
23.517	0.00	0.66	0.157	0					0.83
23.533	0.00	0.66	0.156	0					0.82
23.550	0.00	0.65	0.155	0					0.82
23.567	0.00	0.65	0.154	0					0.81
23.583	0.00	0.65	0.153	0					0.81
23.600	0.00	0.64	0.152	0					0.80
23.617	0.00	0.64	0.151	0					0.80
23.633	0.00	0.63	0.151	0					0.79
23.650	0.00	0.63	0.150	0					0.79

23.667	0.00	0.63	0.149	0					0.78
23.683	0.00	0.62	0.148	0					0.78
23.700	0.00	0.62	0.147	0					0.77
23.717	0.00	0.62	0.146	0					0.77
23.733	0.00	0.61	0.145	0					0.77
23.750	0.00	0.61	0.145	0					0.76
23.767	0.00	0.61	0.144	0					0.76
23.783	0.00	0.60	0.143	0					0.75
23.800	0.00	0.60	0.142	0					0.75
23.817	0.00	0.59	0.141	0					0.74
23.833	0.00	0.59	0.140	0					0.74
23.850	0.00	0.59	0.140	0					0.74
23.867	0.00	0.58	0.139	0					0.73
23.883	0.00	0.58	0.138	0					0.73
23.900	0.00	0.58	0.137	0					0.72
23.917	0.00	0.57	0.136	0					0.72
23.933	0.00	0.57	0.136	0					0.71
23.950	0.00	0.57	0.135	0					0.71
23.967	0.00	0.56	0.134	0					0.71
23.983	0.00	0.56	0.133	0					0.70
24.000	0.00	0.56	0.133	0					0.70
24.017	0.00	0.55	0.132	0					0.69
24.033	0.00	0.55	0.131	0					0.69
24.050	0.00	0.55	0.130	0					0.69
24.067	0.00	0.55	0.130	0					0.68
24.083	0.00	0.54	0.129	0					0.68
24.100	0.00	0.54	0.128	0					0.67
24.117	0.00	0.54	0.127	0					0.67
24.133	0.00	0.53	0.127	0					0.67
24.150	0.00	0.53	0.126	0					0.66
24.167	0.00	0.53	0.125	0					0.66
24.183	0.00	0.52	0.124	0					0.65
24.200	0.00	0.52	0.124	0					0.65
24.217	0.00	0.52	0.123	0					0.65
24.233	0.00	0.51	0.122	0					0.64
24.250	0.00	0.51	0.122	0					0.64
24.267	0.00	0.51	0.121	0					0.64
24.283	0.00	0.51	0.120	0					0.63
24.300	0.00	0.50	0.119	0					0.63
24.317	0.00	0.50	0.119	0					0.62
24.333	0.00	0.50	0.118	0					0.62
24.350	0.00	0.49	0.117	0					0.62
24.367	0.00	0.49	0.117	0					0.61
24.383	0.00	0.49	0.116	0					0.61
24.400	0.00	0.49	0.115	0					0.61
24.417	0.00	0.48	0.115	0					0.60
24.433	0.00	0.48	0.114	0					0.60
24.450	0.00	0.48	0.113	0					0.60
24.467	0.00	0.47	0.113	0					0.59
24.483	0.00	0.47	0.112	0					0.59
24.500	0.00	0.47	0.111	0					0.59
24.517	0.00	0.47	0.111	0					0.58
24.533	0.00	0.46	0.110	0					0.58
24.550	0.00	0.46	0.109	0					0.58
24.567	0.00	0.46	0.109	0					0.57
24.583	0.00	0.46	0.108	0					0.57
24.600	0.00	0.45	0.108	0					0.57
24.617	0.00	0.45	0.107	0					0.56
24.633	0.00	0.45	0.106	0					0.56
24.650	0.00	0.45	0.106	0					0.56
24.667	0.00	0.44	0.105	0					0.55
24.683	0.00	0.44	0.105	0					0.55
24.700	0.00	0.44	0.104	0					0.55
24.717	0.00	0.43	0.103	0					0.54
24.733	0.00	0.43	0.103	0					0.54
24.750	0.00	0.43	0.102	0					0.54
24.767	0.00	0.43	0.102	0					0.53
24.783	0.00	0.43	0.101	0					0.53
24.800	0.00	0.42	0.100	0					0.53
24.817	0.00	0.42	0.100	0					0.53
24.833	0.00	0.42	0.099	0					0.52

24.850	0.00	0.42	0.099	0					0.52
24.867	0.00	0.41	0.098	0					0.52
24.883	0.00	0.41	0.097	0					0.51
24.900	0.00	0.41	0.097	0					0.51
24.917	0.00	0.41	0.096	0					0.51
24.933	0.00	0.40	0.096	0					0.50
24.950	0.00	0.40	0.095	0					0.50
24.967	0.00	0.40	0.095	0					0.50
24.983	0.00	0.40	0.094	0					0.50
25.000	0.00	0.39	0.094	0					0.49
25.017	0.00	0.39	0.093	0					0.49
25.033	0.00	0.39	0.093	0					0.49
25.050	0.00	0.39	0.092	0					0.48
25.067	0.00	0.39	0.091	0					0.48
25.083	0.00	0.38	0.091	0					0.48
25.100	0.00	0.38	0.090	0					0.48
25.117	0.00	0.38	0.090	0					0.47
25.133	0.00	0.38	0.089	0					0.47
25.150	0.00	0.37	0.089	0					0.47
25.167	0.00	0.37	0.088	0					0.46
25.183	0.00	0.37	0.088	0					0.46
25.200	0.00	0.37	0.087	0					0.46
25.217	0.00	0.37	0.087	0					0.46
25.233	0.00	0.36	0.086	0					0.45
25.250	0.00	0.36	0.086	0					0.45
25.267	0.00	0.36	0.085	0					0.45
25.283	0.00	0.36	0.085	0					0.45
25.300	0.00	0.36	0.084	0					0.44
25.317	0.00	0.35	0.084	0					0.44
25.333	0.00	0.35	0.083	0					0.44
25.350	0.00	0.35	0.083	0					0.44
25.367	0.00	0.35	0.082	0					0.43
25.383	0.00	0.34	0.082	0					0.43
25.400	0.00	0.34	0.081	0					0.43
25.417	0.00	0.34	0.081	0					0.43
25.433	0.00	0.34	0.081	0					0.42
25.450	0.00	0.34	0.080	0					0.42
25.467	0.00	0.34	0.080	0					0.42
25.483	0.00	0.33	0.079	0					0.42
25.500	0.00	0.33	0.079	0					0.41
25.517	0.00	0.33	0.078	0					0.41
25.533	0.00	0.33	0.078	0					0.41
25.550	0.00	0.33	0.077	0					0.41
25.567	0.00	0.32	0.077	0					0.40
25.583	0.00	0.32	0.076	0					0.40
25.600	0.00	0.32	0.076	0					0.40
25.617	0.00	0.32	0.076	0					0.40
25.633	0.00	0.32	0.075	0					0.40
25.650	0.00	0.31	0.075	0					0.39
25.667	0.00	0.31	0.074	0					0.39
25.683	0.00	0.31	0.074	0					0.39
25.700	0.00	0.31	0.073	0					0.39
25.717	0.00	0.31	0.073	0					0.38
25.733	0.00	0.31	0.073	0					0.38
25.750	0.00	0.30	0.072	0					0.38
25.767	0.00	0.30	0.072	0					0.38
25.783	0.00	0.30	0.071	0					0.38
25.800	0.00	0.30	0.071	0					0.37
25.817	0.00	0.30	0.070	0					0.37
25.833	0.00	0.29	0.070	0					0.37
25.850	0.00	0.29	0.070	0					0.37
25.867	0.00	0.29	0.069	0					0.36
25.883	0.00	0.29	0.069	0					0.36
25.900	0.00	0.29	0.068	0					0.36
25.917	0.00	0.29	0.068	0					0.36
25.933	0.00	0.28	0.068	0					0.36
25.950	0.00	0.28	0.067	0					0.35
25.967	0.00	0.28	0.067	0					0.35
25.983	0.00	0.28	0.066	0					0.35
26.000	0.00	0.28	0.066	0					0.35
26.017	0.00	0.28	0.066	0					0.35

26.033	0.00	0.28	0.065	0					0.34
26.050	0.00	0.27	0.065	0					0.34
26.067	0.00	0.27	0.065	0					0.34
26.083	0.00	0.27	0.064	0					0.34
26.100	0.00	0.27	0.064	0					0.34
26.117	0.00	0.27	0.063	0					0.33
26.133	0.00	0.27	0.063	0					0.33
26.150	0.00	0.26	0.063	0					0.33
26.167	0.00	0.26	0.062	0					0.33
26.183	0.00	0.26	0.062	0					0.33
26.200	0.00	0.26	0.062	0					0.32
26.217	0.00	0.26	0.061	0					0.32
26.233	0.00	0.26	0.061	0					0.32
26.250	0.00	0.26	0.061	0					0.32
26.267	0.00	0.25	0.060	0					0.32
26.283	0.00	0.25	0.060	0					0.32
26.300	0.00	0.25	0.060	0					0.31
26.317	0.00	0.25	0.059	0					0.31
26.333	0.00	0.25	0.059	0					0.31
26.350	0.00	0.25	0.059	0					0.31
26.367	0.00	0.24	0.058	0					0.31
26.383	0.00	0.24	0.058	0					0.30
26.400	0.00	0.24	0.058	0					0.30
26.417	0.00	0.24	0.057	0					0.30
26.433	0.00	0.24	0.057	0					0.30
26.450	0.00	0.24	0.057	0					0.30
26.467	0.00	0.24	0.056	0					0.30
26.483	0.00	0.24	0.056	0					0.29
26.500	0.00	0.23	0.056	0					0.29
26.517	0.00	0.23	0.055	0					0.29
26.533	0.00	0.23	0.055	0					0.29
26.550	0.00	0.23	0.055	0					0.29
26.567	0.00	0.23	0.054	0					0.29
26.583	0.00	0.23	0.054	0					0.28
26.600	0.00	0.23	0.054	0					0.28
26.617	0.00	0.22	0.053	0					0.28
26.633	0.00	0.22	0.053	0					0.28
26.650	0.00	0.22	0.053	0					0.28
26.667	0.00	0.22	0.052	0					0.28
26.683	0.00	0.22	0.052	0					0.27
26.700	0.00	0.22	0.052	0					0.27
26.717	0.00	0.22	0.052	0					0.27
26.733	0.00	0.22	0.051	0					0.27
26.750	0.00	0.21	0.051	0					0.27
26.767	0.00	0.21	0.051	0					0.27
26.783	0.00	0.21	0.050	0					0.26
26.800	0.00	0.21	0.050	0					0.26
26.817	0.00	0.21	0.050	0					0.26
26.833	0.00	0.21	0.049	0					0.26
26.850	0.00	0.21	0.049	0					0.26
26.867	0.00	0.21	0.049	0					0.26
26.883	0.00	0.20	0.049	0					0.26
26.900	0.00	0.20	0.048	0					0.25
26.917	0.00	0.20	0.048	0					0.25
26.933	0.00	0.20	0.048	0					0.25
26.950	0.00	0.20	0.047	0					0.25
26.967	0.00	0.20	0.047	0					0.25
26.983	0.00	0.20	0.047	0					0.25
27.000	0.00	0.20	0.047	0					0.25
27.017	0.00	0.20	0.046	0					0.24
27.033	0.00	0.19	0.046	0					0.24
27.050	0.00	0.19	0.046	0					0.24
27.067	0.00	0.19	0.046	0					0.24
27.083	0.00	0.19	0.045	0					0.24
27.100	0.00	0.19	0.045	0					0.24
27.117	0.00	0.19	0.045	0					0.24
27.133	0.00	0.19	0.045	0					0.23
27.150	0.00	0.19	0.044	0					0.23
27.167	0.00	0.19	0.044	0					0.23
27.183	0.00	0.18	0.044	0					0.23
27.200	0.00	0.18	0.044	0					0.23

27.217	0.00	0.18	0.043	0					0.23
27.233	0.00	0.18	0.043	0					0.23
27.250	0.00	0.18	0.043	0					0.23
27.267	0.00	0.18	0.043	0					0.22
27.283	0.00	0.18	0.042	0					0.22
27.300	0.00	0.18	0.042	0					0.22
27.317	0.00	0.18	0.042	0					0.22
27.333	0.00	0.18	0.042	0					0.22
27.350	0.00	0.17	0.041	0					0.22
27.367	0.00	0.17	0.041	0					0.22
27.383	0.00	0.17	0.041	0					0.21
27.400	0.00	0.17	0.041	0					0.21
27.417	0.00	0.17	0.040	0					0.21
27.433	0.00	0.17	0.040	0					0.21
27.450	0.00	0.17	0.040	0					0.21
27.467	0.00	0.17	0.040	0					0.21
27.483	0.00	0.17	0.039	0					0.21
27.500	0.00	0.17	0.039	0					0.21
27.517	0.00	0.16	0.039	0					0.21
27.533	0.00	0.16	0.039	0					0.20
27.550	0.00	0.16	0.039	0					0.20
27.567	0.00	0.16	0.038	0					0.20
27.583	0.00	0.16	0.038	0					0.20
27.600	0.00	0.16	0.038	0					0.20
27.617	0.00	0.16	0.038	0					0.20
27.633	0.00	0.16	0.037	0					0.20
27.650	0.00	0.16	0.037	0					0.20
27.667	0.00	0.16	0.037	0					0.19
27.683	0.00	0.15	0.037	0					0.19
27.700	0.00	0.15	0.037	0					0.19
27.717	0.00	0.15	0.036	0					0.19
27.733	0.00	0.15	0.036	0					0.19
27.750	0.00	0.15	0.036	0					0.19
27.767	0.00	0.15	0.036	0					0.19
27.783	0.00	0.15	0.036	0					0.19
27.800	0.00	0.15	0.035	0					0.19
27.817	0.00	0.15	0.035	0					0.18
27.833	0.00	0.15	0.035	0					0.18
27.850	0.00	0.15	0.035	0					0.18
27.867	0.00	0.15	0.035	0					0.18
27.883	0.00	0.14	0.034	0					0.18
27.900	0.00	0.14	0.034	0					0.18
27.917	0.00	0.14	0.034	0					0.18
27.933	0.00	0.14	0.034	0					0.18
27.950	0.00	0.14	0.034	0					0.18
27.967	0.00	0.14	0.033	0					0.18
27.983	0.00	0.14	0.033	0					0.17
28.000	0.00	0.14	0.033	0					0.17
28.017	0.00	0.14	0.033	0					0.17
28.033	0.00	0.14	0.033	0					0.17
28.050	0.00	0.14	0.032	0					0.17
28.067	0.00	0.14	0.032	0					0.17
28.083	0.00	0.13	0.032	0					0.17
28.100	0.00	0.13	0.032	0					0.17
28.117	0.00	0.13	0.032	0					0.17
28.133	0.00	0.13	0.031	0					0.17
28.150	0.00	0.13	0.031	0					0.16
28.167	0.00	0.13	0.031	0					0.16
28.183	0.00	0.13	0.031	0					0.16
28.200	0.00	0.13	0.031	0					0.16
28.217	0.00	0.13	0.031	0					0.16
28.233	0.00	0.13	0.030	0					0.16
28.250	0.00	0.13	0.030	0					0.16
28.267	0.00	0.13	0.030	0					0.16
28.283	0.00	0.13	0.030	0					0.16
28.300	0.00	0.13	0.030	0					0.16
28.317	0.00	0.12	0.030	0					0.16
28.333	0.00	0.12	0.029	0					0.15
28.350	0.00	0.12	0.029	0					0.15
28.367	0.00	0.12	0.029	0					0.15
28.383	0.00	0.12	0.029	0					0.15

41.417	0.00	0.00	0.000	0					0.00
41.433	0.00	0.00	0.000	0					0.00
41.450	0.00	0.00	0.000	0					0.00
41.467	0.00	0.00	0.000	0					0.00
41.483	0.00	0.00	0.000	0					0.00
41.500	0.00	0.00	0.000	0					0.00
41.517	0.00	0.00	0.000	0					0.00
41.533	0.00	0.00	0.000	0					0.00
41.550	0.00	0.00	0.000	0					0.00
41.567	0.00	0.00	0.000	0					0.00
41.583	0.00	0.00	0.000	0					0.00
41.600	0.00	0.00	0.000	0					0.00
41.617	0.00	0.00	0.000	0					0.00
41.633	0.00	0.00	0.000	0					0.00
41.650	0.00	0.00	0.000	0					0.00
41.667	0.00	0.00	0.000	0					0.00
41.683	0.00	0.00	0.000	0					0.00
41.700	0.00	0.00	0.000	0					0.00
41.717	0.00	0.00	0.000	0					0.00
41.733	0.00	0.00	0.000	0					0.00
41.750	0.00	0.00	0.000	0					0.00
41.767	0.00	0.00	0.000	0					0.00
41.783	0.00	0.00	0.000	0					0.00
41.800	0.00	0.00	0.000	0					0.00
41.817	0.00	0.00	0.000	0					0.00
41.833	0.00	0.00	0.000	0					0.00
41.850	0.00	0.00	0.000	0					0.00
41.867	0.00	0.00	0.000	0					0.00
41.883	0.00	0.00	0.000	0					0.00
41.900	0.00	0.00	0.000	0					0.00
41.917	0.00	0.00	0.000	0					0.00
41.933	0.00	0.00	0.000	0					0.00
41.950	0.00	0.00	0.000	0					0.00
41.967	0.00	0.00	0.000	0					0.00
41.983	0.00	0.00	0.000	0					0.00
42.000	0.00	0.00	0.000	0					0.00
42.017	0.00	0.00	0.000	0					0.00
42.033	0.00	0.00	0.000	0					0.00
42.050	0.00	0.00	0.000	0					0.00
42.067	0.00	0.00	0.000	0					0.00
42.083	0.00	0.00	0.000	0					0.00
42.100	0.00	0.00	0.000	0					0.00
42.117	0.00	0.00	0.000	0					0.00
42.133	0.00	0.00	0.000	0					0.00
42.150	0.00	0.00	0.000	0					0.00
42.167	0.00	0.00	0.000	0					0.00
42.183	0.00	0.00	0.000	0					0.00

```

*****HYDROGRAPH DATA*****
      Number of intervals = 2531
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 1.730 (CFS)
      Total volume = 2.916 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****

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Process from Point/Station 704.000 to Point/Station 704.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

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Current stream hydrograph saved in file 100160rtebas2.rte
*****HYDROGRAPH DATA*****
      Number of intervals = 0
      Time interval = 0.0 (Min.)
      Maximum/Peak flow rate = 0.000 (CFS)

```


FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/15/24

 Majestic Otay
 Otay Mesa San Diego County
 Proposed Condition Basin 3
 100160rtebas3

Program License Serial Number 6490

 ***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratbas3.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 364
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 120.441 (CFS)
 Total volume = 4.575 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

++++
 Process from Point/Station 709.000 to Point/Station 709.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

 Total number of inflow hydrograph intervals = 364
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 4.50 (Ft.)

 Initial basin depth = 4.50 (Ft.)
 Initial basin storage = 1.14 (Ac.Ft)
 Initial basin outflow = 1.90 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.190	1.900	0.189	0.191
1.500	0.280	1.900	0.279	0.281
2.500	0.470	1.900	0.469	0.471
3.500	0.650	1.900	0.649	0.651
4.500	1.140	1.900	1.139	1.141
5.500	1.660	6.100	1.656	1.664
7.000	2.520	14.700	2.510	2.530
8.000	3.140	52.600	3.104	3.176

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

 Time Inflow Outflow Storage Depth

(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	30.1	60.22	90.33	120.44	(Ft.)
0.017	0.47	1.90	1.136	O					4.49
0.033	0.94	1.90	1.135	O					4.49
0.050	1.41	1.90	1.134	O					4.49
0.067	1.87	1.90	1.133	O					4.49
0.083	2.34	1.90	1.134	O					4.49
0.100	2.81	1.90	1.135	O					4.49
0.117	3.28	1.90	1.136	O					4.49
0.133	3.29	1.90	1.138	O					4.50
0.150	3.29	1.90	1.140	O					4.50
0.167	3.30	1.92	1.142	O					4.50
0.183	3.30	1.93	1.144	O					4.51
0.200	3.31	1.95	1.146	O					4.51
0.217	3.32	1.96	1.148	O					4.51
0.233	3.32	1.98	1.149	O					4.52
0.250	3.33	1.99	1.151	O					4.52
0.267	3.35	2.01	1.153	O					4.53
0.283	3.36	2.02	1.155	O					4.53
0.300	3.37	2.04	1.157	O					4.53
0.317	3.39	2.05	1.159	O					4.54
0.333	3.40	2.07	1.160	O					4.54
0.350	3.41	2.08	1.162	O					4.54
0.367	3.42	2.10	1.164	O					4.55
0.383	3.43	2.11	1.166	O					4.55
0.400	3.43	2.12	1.168	O					4.55
0.417	3.44	2.14	1.170	O					4.56
0.433	3.45	2.15	1.171	O					4.56
0.450	3.45	2.17	1.173	O					4.56
0.467	3.46	2.18	1.175	O					4.57
0.483	3.47	2.20	1.177	O					4.57
0.500	3.49	2.21	1.178	O					4.57
0.517	3.50	2.22	1.180	O					4.58
0.533	3.52	2.24	1.182	O					4.58
0.550	3.53	2.25	1.184	O					4.58
0.567	3.54	2.27	1.185	O					4.59
0.583	3.56	2.28	1.187	O					4.59
0.600	3.57	2.30	1.189	O					4.59
0.617	3.57	2.31	1.191	O					4.60
0.633	3.58	2.32	1.192	O					4.60
0.650	3.59	2.34	1.194	O					4.60
0.667	3.60	2.35	1.196	O					4.61
0.683	3.60	2.37	1.198	O					4.61
0.700	3.61	2.38	1.199	O					4.61
0.717	3.63	2.39	1.201	O					4.62
0.733	3.64	2.41	1.203	O					4.62
0.750	3.66	2.42	1.204	O					4.62
0.767	3.67	2.43	1.206	O					4.63
0.783	3.69	2.45	1.208	O					4.63
0.800	3.71	2.46	1.210	O					4.63
0.817	3.72	2.48	1.211	O					4.64
0.833	3.73	2.49	1.213	O					4.64
0.850	3.74	2.50	1.215	O					4.64
0.867	3.75	2.52	1.216	O					4.65
0.883	3.76	2.53	1.218	O					4.65
0.900	3.76	2.54	1.220	OI					4.65
0.917	3.77	2.56	1.221	OI					4.66
0.933	3.78	2.57	1.223	OI					4.66
0.950	3.80	2.58	1.225	OI					4.66
0.967	3.82	2.60	1.226	OI					4.67
0.983	3.84	2.61	1.228	OI					4.67
1.000	3.85	2.63	1.230	OI					4.67
1.017	3.87	2.64	1.232	OI					4.68
1.033	3.89	2.65	1.233	OI					4.68
1.050	3.91	2.67	1.235	OI					4.68
1.067	3.92	2.68	1.237	OI					4.69
1.083	3.93	2.69	1.238	OI					4.69
1.100	3.94	2.71	1.240	OI					4.69
1.117	3.95	2.72	1.242	OI					4.70
1.133	3.95	2.74	1.243	OI					4.70
1.150	3.96	2.75	1.245	OI					4.70
1.167	3.97	2.76	1.247	OI					4.71

1.183	3.99	2.78	1.248	OI					4.71
1.200	4.01	2.79	1.250	OI					4.71
1.217	4.03	2.80	1.252	OI					4.71
1.233	4.06	2.82	1.253	OI					4.72
1.250	4.08	2.83	1.255	OI					4.72
1.267	4.10	2.84	1.257	OI					4.72
1.283	4.12	2.86	1.259	OI					4.73
1.300	4.13	2.87	1.260	OI					4.73
1.317	4.14	2.89	1.262	OI					4.73
1.333	4.15	2.90	1.264	OI					4.74
1.350	4.16	2.91	1.266	OI					4.74
1.367	4.17	2.93	1.267	OI					4.74
1.383	4.18	2.94	1.269	OI					4.75
1.400	4.19	2.96	1.271	OI					4.75
1.417	4.22	2.97	1.272	OI					4.75
1.433	4.24	2.98	1.274	OI					4.76
1.450	4.26	3.00	1.276	OI					4.76
1.467	4.29	3.01	1.278	OI					4.76
1.483	4.31	3.03	1.279	OI					4.77
1.500	4.33	3.04	1.281	OI					4.77
1.517	4.36	3.05	1.283	OI					4.77
1.533	4.37	3.07	1.285	OI					4.78
1.550	4.38	3.08	1.287	OI					4.78
1.567	4.40	3.10	1.288	OI					4.79
1.583	4.41	3.11	1.290	OI					4.79
1.600	4.42	3.13	1.292	OI					4.79
1.617	4.43	3.14	1.294	OI					4.80
1.633	4.45	3.16	1.295	OI					4.80
1.650	4.47	3.17	1.297	OI					4.80
1.667	4.50	3.18	1.299	OI					4.81
1.683	4.53	3.20	1.301	OI					4.81
1.700	4.56	3.21	1.303	OI					4.81
1.717	4.58	3.23	1.305	OI					4.82
1.733	4.61	3.24	1.306	OI					4.82
1.750	4.64	3.26	1.308	OI					4.82
1.767	4.65	3.27	1.310	OI					4.83
1.783	4.67	3.29	1.312	OI					4.83
1.800	4.68	3.31	1.314	OI					4.83
1.817	4.70	3.32	1.316	OI					4.84
1.833	4.71	3.34	1.318	OI					4.84
1.850	4.73	3.35	1.320	OI					4.85
1.867	4.74	3.37	1.322	OI					4.85
1.883	4.78	3.38	1.324	OI					4.85
1.900	4.81	3.40	1.325	OI					4.86
1.917	4.84	3.41	1.327	OI					4.86
1.933	4.87	3.43	1.329	OI					4.86
1.950	4.91	3.45	1.331	OI					4.87
1.967	4.94	3.46	1.333	OI					4.87
1.983	4.97	3.48	1.335	OI					4.88
2.000	4.99	3.50	1.338	OI					4.88
2.017	5.01	3.51	1.340	OI					4.88
2.033	5.02	3.53	1.342	OI					4.89
2.050	5.04	3.55	1.344	OI					4.89
2.067	5.06	3.56	1.346	OI					4.90
2.083	5.08	3.58	1.348	OI					4.90
2.100	5.10	3.60	1.350	OI					4.90
2.117	5.14	3.61	1.352	OI					4.91
2.133	5.17	3.63	1.354	OI					4.91
2.150	5.21	3.65	1.356	OI					4.92
2.167	5.25	3.66	1.358	OI					4.92
2.183	5.29	3.68	1.361	OI					4.92
2.200	5.33	3.70	1.363	OI					4.93
2.217	5.37	3.72	1.365	OI					4.93
2.233	5.39	3.74	1.367	OI					4.94
2.250	5.42	3.75	1.370	OI					4.94
2.267	5.44	3.77	1.372	IO					4.95
2.283	5.46	3.79	1.374	IO					4.95
2.300	5.48	3.81	1.377	IO					4.95
2.317	5.50	3.83	1.379	IO					4.96
2.333	5.52	3.85	1.381	IO					4.96
2.350	5.57	3.87	1.383	IO					4.97

2.367	5.62	3.89	1.386	O					4.97
2.383	5.67	3.91	1.388	O					4.98
2.400	5.72	3.93	1.391	O					4.98
2.417	5.77	3.95	1.393	O					4.99
2.433	5.82	3.97	1.396	O					4.99
2.450	5.87	3.99	1.398	O					5.00
2.467	5.89	4.01	1.401	O					5.00
2.483	5.92	4.03	1.404	O					5.01
2.500	5.95	4.05	1.406	O					5.01
2.517	5.98	4.07	1.409	O					5.02
2.533	6.00	4.09	1.411	O					5.02
2.550	6.03	4.11	1.414	O					5.03
2.567	6.06	4.13	1.417	O					5.03
2.583	6.12	4.16	1.419	O					5.04
2.600	6.18	4.18	1.422	O					5.04
2.617	6.25	4.20	1.425	O					5.05
2.633	6.31	4.22	1.428	O					5.05
2.650	6.37	4.25	1.431	O					5.06
2.667	6.43	4.27	1.434	O					5.06
2.683	6.50	4.30	1.437	O					5.07
2.700	6.53	4.32	1.440	O					5.08
2.717	6.57	4.34	1.443	O					5.08
2.733	6.61	4.37	1.446	O					5.09
2.750	6.64	4.39	1.449	O					5.09
2.767	6.68	4.42	1.452	O					5.10
2.783	6.71	4.44	1.455	O					5.11
2.800	6.75	4.47	1.458	O					5.11
2.817	6.83	4.50	1.461	O					5.12
2.833	6.92	4.52	1.465	O					5.12
2.850	7.00	4.55	1.468	O					5.13
2.867	7.08	4.58	1.471	O					5.14
2.883	7.17	4.60	1.475	O					5.14
2.900	7.25	4.63	1.478	O					5.15
2.917	7.34	4.66	1.482	O					5.16
2.933	7.39	4.69	1.486	O					5.16
2.950	7.43	4.72	1.489	O					5.17
2.967	7.48	4.75	1.493	O					5.18
2.983	7.53	4.78	1.497	OI					5.19
3.000	7.58	4.81	1.501	OI					5.19
3.017	7.63	4.85	1.505	OI					5.20
3.033	7.68	4.88	1.508	OI					5.21
3.050	7.80	4.91	1.512	OI					5.22
3.067	7.92	4.94	1.516	OI					5.22
3.083	8.04	4.97	1.521	OI					5.23
3.100	8.16	5.01	1.525	OI					5.24
3.117	8.28	5.04	1.529	OI					5.25
3.133	8.40	5.08	1.534	OI					5.26
3.150	8.52	5.12	1.538	OI					5.27
3.167	8.59	5.16	1.543	OI					5.28
3.183	8.67	5.19	1.548	OI					5.28
3.200	8.74	5.23	1.553	OI					5.29
3.217	8.81	5.27	1.558	OI					5.30
3.233	8.89	5.31	1.562	OI					5.31
3.250	8.96	5.35	1.567	OI					5.32
3.267	9.04	5.39	1.572	OI					5.33
3.283	9.22	5.43	1.578	OI					5.34
3.300	9.41	5.48	1.583	OI					5.35
3.317	9.60	5.52	1.588	OI					5.36
3.333	9.79	5.57	1.594	OI					5.37
3.350	9.98	5.62	1.600	OI					5.38
3.367	10.17	5.66	1.606	OI					5.40
3.383	10.36	5.72	1.612	OI					5.41
3.400	10.48	5.77	1.619	OI					5.42
3.417	10.61	5.82	1.625	OI					5.43
3.433	10.73	5.87	1.632	OI					5.45
3.450	10.86	5.93	1.639	OI					5.46
3.467	10.98	5.98	1.646	OI					5.47
3.483	11.10	6.04	1.653	OI					5.49
3.500	11.23	6.10	1.660	OI					5.50
3.517	11.59	6.17	1.667	O I					5.51
3.533	11.94	6.24	1.674	O I					5.53

3.550	12.30	6.33	1.683	O	I					5.54
3.567	12.66	6.41	1.691	O	I					5.55
3.583	13.01	6.50	1.700	O	I					5.57
3.600	13.37	6.59	1.709	O	I					5.59
3.617	13.73	6.68	1.718	O	I					5.60
3.633	14.00	6.78	1.728	O	I					5.62
3.650	14.27	6.88	1.738	O	I					5.64
3.667	14.54	6.99	1.749	O	I					5.65
3.683	14.82	7.09	1.759	O	I					5.67
3.700	15.09	7.20	1.770	O	I					5.69
3.717	15.36	7.31	1.781	O	I					5.71
3.733	15.63	7.42	1.792	O	I					5.73
3.750	16.68	7.54	1.804	O	I					5.75
3.767	17.73	7.67	1.817	O	I					5.77
3.783	18.77	7.82	1.832	O	I					5.80
3.800	19.82	7.97	1.847	O	I					5.83
3.817	20.86	8.14	1.864	O	I					5.86
3.833	21.91	8.32	1.882	O	I					5.89
3.850	22.96	8.52	1.902	O	I					5.92
3.867	24.30	8.72	1.922	O	I					5.96
3.883	25.64	8.95	1.945	O	I					6.00
3.900	26.98	9.18	1.968	O	I					6.04
3.917	28.32	9.44	1.994	O	I					6.08
3.933	29.66	9.70	2.020	O	I					6.13
3.950	31.00	9.99	2.049	O	I					6.18
3.967	32.34	10.28	2.078	O	I					6.23
3.983	44.93	10.67	2.117	O		I				6.30
4.000	57.51	11.23	2.173	O		I				6.39
4.017	70.10	11.94	2.244	O		I				6.52
4.033	82.69	12.83	2.333	O		I				6.67
4.050	95.27	13.87	2.437	O		I		I		6.85
4.067	107.86	16.87	2.556	O		I		I		7.06
4.083	120.44	24.73	2.684	O		I		I		7.26
4.100	105.87	31.87	2.801	O		I		I		7.45
4.117	91.29	37.26	2.889	O		I		I		7.60
4.133	76.71	41.04	2.951	O		I		I		7.70
4.150	62.14	43.33	2.988	O		I		I		7.76
4.167	47.56	44.26	3.004	O	I			I		7.78
4.183	32.99	43.94	2.998	O	I			I		7.77
4.200	18.41	42.47	2.974	O	I			I		7.73
4.217	17.54	40.49	2.942	O	I			I		7.68
4.233	16.67	38.60	2.911	O	I			I		7.63
4.250	15.80	36.79	2.881	O	I			I		7.58
4.267	14.93	35.06	2.853	O	I			I		7.54
4.283	14.06	33.40	2.826	O	I			I		7.49
4.300	13.19	31.80	2.800	O	I			I		7.45
4.317	12.32	30.26	2.775	O	I			I		7.41
4.333	11.94	28.80	2.751	O	I			I		7.37
4.350	11.55	27.42	2.728	O	I			I		7.34
4.367	11.17	26.12	2.707	O	I			I		7.30
4.383	10.79	24.90	2.687	O	I			I		7.27
4.400	10.40	23.74	2.668	O	I			I		7.24
4.417	10.02	22.65	2.650	O	I			I		7.21
4.433	9.64	21.61	2.633	O	I			I		7.18
4.450	9.41	20.64	2.617	O	I			I		7.16
4.467	9.19	19.72	2.602	O	I			I		7.13
4.483	8.97	18.86	2.588	O	I			I		7.11
4.500	8.74	18.05	2.575	O	I			I		7.09
4.517	8.52	17.29	2.562	O	I			I		7.07
4.533	8.30	16.57	2.551	O	I			I		7.05
4.550	8.07	15.90	2.540	O	I			I		7.03
4.567	7.92	15.26	2.529	O	I			I		7.01
4.583	7.77	14.69	2.519	O	I			I		7.00
4.600	7.62	14.60	2.510	O	I			I		6.98
4.617	7.48	14.50	2.500	O	I			I		6.97
4.633	7.33	14.40	2.490	O	I			I		6.95
4.650	7.18	14.31	2.481	O	I			I		6.93
4.667	7.03	14.21	2.471	O	I			I		6.91
4.683	6.92	14.11	2.461	O	I			I		6.90
4.700	6.81	14.01	2.451	O	I			I		6.88
4.717	6.70	13.91	2.441	O	I			I		6.86

4.733	6.59	13.81	2.431	I O					6.84
4.750	6.49	13.71	2.421	I O					6.83
4.767	6.38	13.61	2.411	I O					6.81
4.783	6.27	13.51	2.401	I O					6.79
4.800	6.19	13.41	2.391	I O					6.78
4.817	6.10	13.31	2.381	I O					6.76
4.833	6.02	13.21	2.371	I O					6.74
4.850	5.94	13.11	2.361	I O					6.72
4.867	5.85	13.02	2.352	I O					6.71
4.883	5.77	12.92	2.342	I O					6.69
4.900	5.69	12.82	2.332	I O					6.67
4.917	5.62	12.72	2.322	I O					6.65
4.933	5.56	12.62	2.312	I O					6.64
4.950	5.49	12.53	2.303	I O					6.62
4.967	5.43	12.43	2.293	I O					6.60
4.983	5.36	12.33	2.283	I O					6.59
5.000	5.30	12.24	2.274	I O					6.57
5.017	5.23	12.14	2.264	I O					6.55
5.033	5.18	12.05	2.255	I O					6.54
5.050	5.12	11.95	2.245	I O					6.52
5.067	5.07	11.86	2.236	I O					6.50
5.083	5.01	11.77	2.227	I O					6.49
5.100	4.96	11.67	2.217	I O					6.47
5.117	4.91	11.58	2.208	I O					6.46
5.133	4.85	11.49	2.199	I O					6.44
5.150	4.81	11.40	2.190	I O					6.42
5.167	4.76	11.31	2.181	I O					6.41
5.183	4.72	11.22	2.172	IO					6.39
5.200	4.67	11.13	2.163	IO					6.38
5.217	4.63	11.04	2.154	IO					6.36
5.233	4.59	10.95	2.145	IO					6.35
5.250	4.54	10.86	2.136	IO					6.33
5.267	4.50	10.78	2.128	IO					6.32
5.283	4.46	10.69	2.119	IO					6.30
5.300	4.43	10.61	2.111	IO					6.29
5.317	4.39	10.52	2.102	IO					6.27
5.333	4.35	10.44	2.094	IO					6.26
5.350	4.31	10.35	2.085	IO					6.24
5.367	4.27	10.27	2.077	IO					6.23
5.383	4.24	10.19	2.069	IO					6.21
5.400	4.21	10.11	2.061	IO					6.20
5.417	4.18	10.03	2.053	IO					6.18
5.433	4.14	9.95	2.045	IO					6.17
5.450	4.11	9.87	2.037	IO					6.16
5.467	4.08	9.79	2.029	IO					6.14
5.483	4.04	9.71	2.021	IO					6.13
5.500	4.01	9.63	2.013	IO					6.12
5.517	3.99	9.55	2.005	IO					6.10
5.533	3.96	9.48	1.998	IO					6.09
5.550	3.93	9.40	1.990	IO					6.08
5.567	3.90	9.33	1.983	IO					6.06
5.583	3.87	9.25	1.975	IO					6.05
5.600	3.84	9.18	1.968	IO					6.04
5.617	3.82	9.11	1.961	IO					6.02
5.633	3.79	9.03	1.953	IO					6.01
5.650	3.77	8.96	1.946	IO					6.00
5.667	3.74	8.89	1.939	I O					5.99
5.683	3.72	8.82	1.932	I O					5.97
5.700	3.69	8.75	1.925	I O					5.96
5.717	3.67	8.68	1.918	I O					5.95
5.733	3.64	8.61	1.911	I O					5.94
5.750	3.62	8.54	1.904	I O					5.93
5.767	3.60	8.48	1.898	I O					5.91
5.783	3.58	8.41	1.891	I O					5.90
5.800	3.55	8.34	1.884	I O					5.89
5.817	3.53	8.28	1.878	I O					5.88
5.833	3.51	8.21	1.871	I O					5.87
5.850	3.49	8.15	1.865	I O					5.86
5.867	3.47	8.08	1.858	I O					5.85
5.883	3.45	8.02	1.852	I O					5.83
5.900	3.43	7.96	1.846	I O					5.82

5.917	3.41	7.90	1.840	I O					5.81
5.933	3.39	7.83	1.833	I O					5.80
5.950	3.37	7.77	1.827	I O					5.79
5.967	3.35	7.71	1.821	I O					5.78
5.983	3.33	7.65	1.815	I O					5.77
6.000	3.31	7.59	1.809	I O					5.76
6.017	3.29	7.53	1.803	I O					5.75
6.033	3.27	7.48	1.798	IO					5.74
6.050	3.26	7.42	1.792	IO					5.73
6.067	3.24	7.36	1.786	IO					5.72
6.083	0.00	7.28	1.778	IO					5.71
6.100	0.00	7.18	1.768	IO					5.69
6.117	0.00	7.09	1.759	IO					5.67
6.133	0.00	6.99	1.749	IO					5.65
6.150	0.00	6.89	1.739	IO					5.64
6.167	0.00	6.80	1.730	IO					5.62
6.183	0.00	6.71	1.721	IO					5.61
6.200	0.00	6.61	1.711	IO					5.59
6.217	0.00	6.52	1.702	IO					5.57
6.233	0.00	6.43	1.693	IO					5.56
6.250	0.00	6.35	1.685	IO					5.54
6.267	0.00	6.26	1.676	IO					5.53
6.283	0.00	6.17	1.667	IO					5.51
6.300	0.00	6.09	1.659	IO					5.50
6.317	0.00	6.02	1.651	IO					5.48
6.333	0.00	5.96	1.642	IO					5.47
6.350	0.00	5.89	1.634	IO					5.45
6.367	0.00	5.83	1.626	IO					5.43
6.383	0.00	5.76	1.618	IO					5.42
6.400	0.00	5.70	1.610	IO					5.40
6.417	0.00	5.63	1.602	IO					5.39
6.433	0.00	5.57	1.595	IO					5.37
6.450	0.00	5.51	1.587	IO					5.36
6.467	0.00	5.45	1.580	IO					5.35
6.483	0.00	5.39	1.572	IO					5.33
6.500	0.00	5.33	1.565	IO					5.32
6.517	0.00	5.27	1.557	IO					5.30
6.533	0.00	5.21	1.550	IO					5.29
6.550	0.00	5.16	1.543	IO					5.28
6.567	0.00	5.10	1.536	IO					5.26
6.583	0.00	5.04	1.529	IO					5.25
6.600	0.00	4.99	1.522	IO					5.23
6.617	0.00	4.93	1.515	IO					5.22
6.633	0.00	4.88	1.508	IO					5.21
6.650	0.00	4.82	1.502	IO					5.20
6.667	0.00	4.77	1.495	IO					5.18
6.683	0.00	4.72	1.489	IO					5.17
6.700	0.00	4.66	1.482	IO					5.16
6.717	0.00	4.61	1.476	IO					5.15
6.733	0.00	4.56	1.469	IO					5.13
6.750	0.00	4.51	1.463	IO					5.12
6.767	0.00	4.46	1.457	IO					5.11
6.783	0.00	4.41	1.451	IO					5.10
6.800	0.00	4.36	1.445	IO					5.09
6.817	0.00	4.31	1.439	IO					5.07
6.833	0.00	4.27	1.433	IO					5.06
6.850	0.00	4.22	1.427	IO					5.05
6.867	0.00	4.17	1.421	IO					5.04
6.883	0.00	4.13	1.416	IO					5.03
6.900	0.00	4.08	1.410	IO					5.02
6.917	0.00	4.04	1.404	IO					5.01
6.933	0.00	3.99	1.399	IO					5.00
6.950	0.00	3.95	1.393	IO					4.99
6.967	0.00	3.90	1.388	IO					4.98
6.983	0.00	3.86	1.383	IO					4.97
7.000	0.00	3.82	1.377	IO					4.96
7.017	0.00	3.78	1.372	IO					4.95
7.033	0.00	3.73	1.367	O					4.94
7.050	0.00	3.69	1.362	O					4.93
7.067	0.00	3.65	1.357	O					4.92
7.083	0.00	3.61	1.352	O					4.91

7.100	0.00	3.57	1.347	0					4.90
7.117	0.00	3.53	1.342	0					4.89
7.133	0.00	3.49	1.337	0					4.88
7.150	0.00	3.45	1.332	0					4.87
7.167	0.00	3.42	1.328	0					4.86
7.183	0.00	3.38	1.323	0					4.85
7.200	0.00	3.34	1.318	0					4.84
7.217	0.00	3.30	1.314	0					4.83
7.233	0.00	3.27	1.309	0					4.83
7.250	0.00	3.23	1.305	0					4.82
7.267	0.00	3.19	1.300	0					4.81
7.283	0.00	3.16	1.296	0					4.80
7.300	0.00	3.12	1.292	0					4.79
7.317	0.00	3.09	1.287	0					4.78
7.333	0.00	3.06	1.283	0					4.78
7.350	0.00	3.02	1.279	0					4.77
7.367	0.00	2.99	1.275	0					4.76
7.383	0.00	2.96	1.271	0					4.75
7.400	0.00	2.92	1.267	0					4.74
7.417	0.00	2.89	1.263	0					4.74
7.433	0.00	2.86	1.259	0					4.73
7.450	0.00	2.83	1.255	0					4.72
7.467	0.00	2.80	1.251	0					4.71
7.483	0.00	2.76	1.247	0					4.71
7.500	0.00	2.73	1.243	0					4.70
7.517	0.00	2.70	1.240	0					4.69
7.533	0.00	2.67	1.236	0					4.68
7.550	0.00	2.64	1.232	0					4.68
7.567	0.00	2.62	1.229	0					4.67
7.583	0.00	2.59	1.225	0					4.66
7.600	0.00	2.56	1.221	0					4.66
7.617	0.00	2.53	1.218	0					4.65
7.633	0.00	2.50	1.214	0					4.64
7.650	0.00	2.47	1.211	0					4.64
7.667	0.00	2.45	1.208	0					4.63
7.683	0.00	2.42	1.204	0					4.62
7.700	0.00	2.39	1.201	0					4.62
7.717	0.00	2.37	1.198	0					4.61
7.733	0.00	2.34	1.194	0					4.60
7.750	0.00	2.31	1.191	0					4.60
7.767	0.00	2.29	1.188	0					4.59
7.783	0.00	2.26	1.185	0					4.59
7.800	0.00	2.24	1.182	0					4.58
7.817	0.00	2.21	1.179	0					4.57
7.833	0.00	2.19	1.176	0					4.57
7.850	0.00	2.16	1.173	0					4.56
7.867	0.00	2.14	1.170	0					4.56
7.883	0.00	2.12	1.167	0					4.55
7.900	0.00	2.09	1.164	0					4.55
7.917	0.00	2.07	1.161	0					4.54
7.933	0.00	2.05	1.158	0					4.54
7.950	0.00	2.02	1.155	0					4.53
7.967	0.00	2.00	1.153	0					4.52
7.983	0.00	1.98	1.150	0					4.52
8.000	0.00	1.96	1.147	0					4.51
8.017	0.00	1.94	1.145	0					4.51
8.033	0.00	1.92	1.142	0					4.50
8.050	0.00	1.90	1.139	0					4.50
8.067	0.00	1.90	1.137	0					4.49
8.083	0.00	1.90	1.134	0					4.49
8.100	0.00	1.90	1.131	0					4.48
8.117	0.00	1.90	1.129	0					4.48
8.133	0.00	1.90	1.126	0					4.47
8.150	0.00	1.90	1.124	0					4.47
8.167	0.00	1.90	1.121	0					4.46
8.183	0.00	1.90	1.118	0					4.46
8.200	0.00	1.90	1.116	0					4.45
8.217	0.00	1.90	1.113	0					4.45
8.233	0.00	1.90	1.110	0					4.44
8.250	0.00	1.90	1.108	0					4.43
8.267	0.00	1.90	1.105	0					4.43

8.283	0.00	1.90	1.103	0					4.42
8.300	0.00	1.90	1.100	0					4.42
8.317	0.00	1.90	1.097	0					4.41
8.333	0.00	1.90	1.095	0					4.41
8.350	0.00	1.90	1.092	0					4.40
8.367	0.00	1.90	1.090	0					4.40
8.383	0.00	1.90	1.087	0					4.39
8.400	0.00	1.90	1.084	0					4.39
8.417	0.00	1.90	1.082	0					4.38
8.433	0.00	1.90	1.079	0					4.38
8.450	0.00	1.90	1.076	0					4.37
8.467	0.00	1.90	1.074	0					4.36
8.483	0.00	1.90	1.071	0					4.36
8.500	0.00	1.90	1.069	0					4.35
8.517	0.00	1.90	1.066	0					4.35
8.533	0.00	1.90	1.063	0					4.34
8.550	0.00	1.90	1.061	0					4.34
8.567	0.00	1.90	1.058	0					4.33
8.583	0.00	1.90	1.056	0					4.33
8.600	0.00	1.90	1.053	0					4.32
8.617	0.00	1.90	1.050	0					4.32
8.633	0.00	1.90	1.048	0					4.31
8.650	0.00	1.90	1.045	0					4.31
8.667	0.00	1.90	1.042	0					4.30
8.683	0.00	1.90	1.040	0					4.30
8.700	0.00	1.90	1.037	0					4.29
8.717	0.00	1.90	1.035	0					4.28
8.733	0.00	1.90	1.032	0					4.28
8.750	0.00	1.90	1.029	0					4.27
8.767	0.00	1.90	1.027	0					4.27
8.783	0.00	1.90	1.024	0					4.26
8.800	0.00	1.90	1.021	0					4.26
8.817	0.00	1.90	1.019	0					4.25
8.833	0.00	1.90	1.016	0					4.25
8.850	0.00	1.90	1.014	0					4.24
8.867	0.00	1.90	1.011	0					4.24
8.883	0.00	1.90	1.008	0					4.23
8.900	0.00	1.90	1.006	0					4.23
8.917	0.00	1.90	1.003	0					4.22
8.933	0.00	1.90	1.001	0					4.22
8.950	0.00	1.90	0.998	0					4.21
8.967	0.00	1.90	0.995	0					4.20
8.983	0.00	1.90	0.993	0					4.20
9.000	0.00	1.90	0.990	0					4.19
9.017	0.00	1.90	0.987	0					4.19
9.033	0.00	1.90	0.985	0					4.18
9.050	0.00	1.90	0.982	0					4.18
9.067	0.00	1.90	0.980	0					4.17
9.083	0.00	1.90	0.977	0					4.17
9.100	0.00	1.90	0.974	0					4.16
9.117	0.00	1.90	0.972	0					4.16
9.133	0.00	1.90	0.969	0					4.15
9.150	0.00	1.90	0.967	0					4.15
9.167	0.00	1.90	0.964	0					4.14
9.183	0.00	1.90	0.961	0					4.14
9.200	0.00	1.90	0.959	0					4.13
9.217	0.00	1.90	0.956	0					4.12
9.233	0.00	1.90	0.953	0					4.12
9.250	0.00	1.90	0.951	0					4.11
9.267	0.00	1.90	0.948	0					4.11
9.283	0.00	1.90	0.946	0					4.10
9.300	0.00	1.90	0.943	0					4.10
9.317	0.00	1.90	0.940	0					4.09
9.333	0.00	1.90	0.938	0					4.09
9.350	0.00	1.90	0.935	0					4.08
9.367	0.00	1.90	0.933	0					4.08
9.383	0.00	1.90	0.930	0					4.07
9.400	0.00	1.90	0.927	0					4.07
9.417	0.00	1.90	0.925	0					4.06
9.433	0.00	1.90	0.922	0					4.06
9.450	0.00	1.90	0.919	0					4.05

9.467	0.00	1.90	0.917	0					4.04
9.483	0.00	1.90	0.914	0					4.04
9.500	0.00	1.90	0.912	0					4.03
9.517	0.00	1.90	0.909	0					4.03
9.533	0.00	1.90	0.906	0					4.02
9.550	0.00	1.90	0.904	0					4.02
9.567	0.00	1.90	0.901	0					4.01
9.583	0.00	1.90	0.898	0					4.01
9.600	0.00	1.90	0.896	0					4.00
9.617	0.00	1.90	0.893	0					4.00
9.633	0.00	1.90	0.891	0					3.99
9.650	0.00	1.90	0.888	0					3.99
9.667	0.00	1.90	0.885	0					3.98
9.683	0.00	1.90	0.883	0					3.98
9.700	0.00	1.90	0.880	0					3.97
9.717	0.00	1.90	0.878	0					3.96
9.733	0.00	1.90	0.875	0					3.96
9.750	0.00	1.90	0.872	0					3.95
9.767	0.00	1.90	0.870	0					3.95
9.783	0.00	1.90	0.867	0					3.94
9.800	0.00	1.90	0.864	0					3.94
9.817	0.00	1.90	0.862	0					3.93
9.833	0.00	1.90	0.859	0					3.93
9.850	0.00	1.90	0.857	0					3.92
9.867	0.00	1.90	0.854	0					3.92
9.883	0.00	1.90	0.851	0					3.91
9.900	0.00	1.90	0.849	0					3.91
9.917	0.00	1.90	0.846	0					3.90
9.933	0.00	1.90	0.844	0					3.89
9.950	0.00	1.90	0.841	0					3.89
9.967	0.00	1.90	0.838	0					3.88
9.983	0.00	1.90	0.836	0					3.88
10.000	0.00	1.90	0.833	0					3.87
10.017	0.00	1.90	0.830	0					3.87
10.033	0.00	1.90	0.828	0					3.86
10.050	0.00	1.90	0.825	0					3.86
10.067	0.00	1.90	0.823	0					3.85
10.083	0.00	1.90	0.820	0					3.85
10.100	0.00	1.90	0.817	0					3.84
10.117	0.00	1.90	0.815	0					3.84
10.133	0.00	1.90	0.812	0					3.83
10.150	0.00	1.90	0.810	0					3.83
10.167	0.00	1.90	0.807	0					3.82
10.183	0.00	1.90	0.804	0					3.81
10.200	0.00	1.90	0.802	0					3.81
10.217	0.00	1.90	0.799	0					3.80
10.233	0.00	1.90	0.796	0					3.80
10.250	0.00	1.90	0.794	0					3.79
10.267	0.00	1.90	0.791	0					3.79
10.283	0.00	1.90	0.789	0					3.78
10.300	0.00	1.90	0.786	0					3.78
10.317	0.00	1.90	0.783	0					3.77
10.333	0.00	1.90	0.781	0					3.77
10.350	0.00	1.90	0.778	0					3.76
10.367	0.00	1.90	0.775	0					3.76
10.383	0.00	1.90	0.773	0					3.75
10.400	0.00	1.90	0.770	0					3.75
10.417	0.00	1.90	0.768	0					3.74
10.433	0.00	1.90	0.765	0					3.73
10.450	0.00	1.90	0.762	0					3.73
10.467	0.00	1.90	0.760	0					3.72
10.483	0.00	1.90	0.757	0					3.72
10.500	0.00	1.90	0.755	0					3.71
10.517	0.00	1.90	0.752	0					3.71
10.533	0.00	1.90	0.749	0					3.70
10.550	0.00	1.90	0.747	0					3.70
10.567	0.00	1.90	0.744	0					3.69
10.583	0.00	1.90	0.741	0					3.69
10.600	0.00	1.90	0.739	0					3.68
10.617	0.00	1.90	0.736	0					3.68
10.633	0.00	1.90	0.734	0					3.67

10.650	0.00	1.90	0.731	0					3.67
10.667	0.00	1.90	0.728	0					3.66
10.683	0.00	1.90	0.726	0					3.65
10.700	0.00	1.90	0.723	0					3.65
10.717	0.00	1.90	0.721	0					3.64
10.733	0.00	1.90	0.718	0					3.64
10.750	0.00	1.90	0.715	0					3.63
10.767	0.00	1.90	0.713	0					3.63
10.783	0.00	1.90	0.710	0					3.62
10.800	0.00	1.90	0.707	0					3.62
10.817	0.00	1.90	0.705	0					3.61
10.833	0.00	1.90	0.702	0					3.61
10.850	0.00	1.90	0.700	0					3.60
10.867	0.00	1.90	0.697	0					3.60
10.883	0.00	1.90	0.694	0					3.59
10.900	0.00	1.90	0.692	0					3.59
10.917	0.00	1.90	0.689	0					3.58
10.933	0.00	1.90	0.686	0					3.57
10.950	0.00	1.90	0.684	0					3.57
10.967	0.00	1.90	0.681	0					3.56
10.983	0.00	1.90	0.679	0					3.56
11.000	0.00	1.90	0.676	0					3.55
11.017	0.00	1.90	0.673	0					3.55
11.033	0.00	1.90	0.671	0					3.54
11.050	0.00	1.90	0.668	0					3.54
11.067	0.00	1.90	0.666	0					3.53
11.083	0.00	1.90	0.663	0					3.53
11.100	0.00	1.90	0.660	0					3.52
11.117	0.00	1.90	0.658	0					3.52
11.133	0.00	1.90	0.655	0					3.51
11.150	0.00	1.90	0.652	0					3.51
11.167	0.00	1.90	0.650	0					3.50
11.183	0.00	1.90	0.647	0					3.48
11.200	0.00	1.90	0.645	0					3.47
11.217	0.00	1.90	0.642	0					3.46
11.233	0.00	1.90	0.639	0					3.44
11.250	0.00	1.90	0.637	0					3.43
11.267	0.00	1.90	0.634	0					3.41
11.283	0.00	1.90	0.632	0					3.40
11.300	0.00	1.90	0.629	0					3.38
11.317	0.00	1.90	0.626	0					3.37
11.333	0.00	1.90	0.624	0					3.35
11.350	0.00	1.90	0.621	0					3.34
11.367	0.00	1.90	0.618	0					3.32
11.383	0.00	1.90	0.616	0					3.31
11.400	0.00	1.90	0.613	0					3.30
11.417	0.00	1.90	0.611	0					3.28
11.433	0.00	1.90	0.608	0					3.27
11.450	0.00	1.90	0.605	0					3.25
11.467	0.00	1.90	0.603	0					3.24
11.483	0.00	1.90	0.600	0					3.22
11.500	0.00	1.90	0.598	0					3.21
11.517	0.00	1.90	0.595	0					3.19
11.533	0.00	1.90	0.592	0					3.18
11.550	0.00	1.90	0.590	0					3.16
11.567	0.00	1.90	0.587	0					3.15
11.583	0.00	1.90	0.584	0					3.14
11.600	0.00	1.90	0.582	0					3.12
11.617	0.00	1.90	0.579	0					3.11
11.633	0.00	1.90	0.577	0					3.09
11.650	0.00	1.90	0.574	0					3.08
11.667	0.00	1.90	0.571	0					3.06
11.683	0.00	1.90	0.569	0					3.05
11.700	0.00	1.90	0.566	0					3.03
11.717	0.00	1.90	0.563	0					3.02
11.733	0.00	1.90	0.561	0					3.00
11.750	0.00	1.90	0.558	0					2.99
11.767	0.00	1.90	0.556	0					2.98
11.783	0.00	1.90	0.553	0					2.96
11.800	0.00	1.90	0.550	0					2.95
11.817	0.00	1.90	0.548	0					2.93

11.833	0.00	1.90	0.545	0					2.92
11.850	0.00	1.90	0.543	0					2.90
11.867	0.00	1.90	0.540	0					2.89
11.883	0.00	1.90	0.537	0					2.87
11.900	0.00	1.90	0.535	0					2.86
11.917	0.00	1.90	0.532	0					2.84
11.933	0.00	1.90	0.529	0					2.83
11.950	0.00	1.90	0.527	0					2.82
11.967	0.00	1.90	0.524	0					2.80
11.983	0.00	1.90	0.522	0					2.79
12.000	0.00	1.90	0.519	0					2.77
12.017	0.00	1.90	0.516	0					2.76
12.033	0.00	1.90	0.514	0					2.74
12.050	0.00	1.90	0.511	0					2.73
12.067	0.00	1.90	0.509	0					2.71
12.083	0.00	1.90	0.506	0					2.70
12.100	0.00	1.90	0.503	0					2.69
12.117	0.00	1.90	0.501	0					2.67
12.133	0.00	1.90	0.498	0					2.66
12.150	0.00	1.90	0.495	0					2.64
12.167	0.00	1.90	0.493	0					2.63
12.183	0.00	1.90	0.490	0					2.61
12.200	0.00	1.90	0.488	0					2.60
12.217	0.00	1.90	0.485	0					2.58
12.233	0.00	1.90	0.482	0					2.57
12.250	0.00	1.90	0.480	0					2.55
12.267	0.00	1.90	0.477	0					2.54
12.283	0.00	1.90	0.475	0					2.53
12.300	0.00	1.90	0.472	0					2.51
12.317	0.00	1.90	0.469	0					2.50
12.333	0.00	1.90	0.467	0					2.48
12.350	0.00	1.90	0.464	0					2.47
12.367	0.00	1.90	0.461	0					2.45
12.383	0.00	1.90	0.459	0					2.44
12.400	0.00	1.90	0.456	0					2.43
12.417	0.00	1.90	0.454	0					2.41
12.433	0.00	1.90	0.451	0					2.40
12.450	0.00	1.90	0.448	0					2.39
12.467	0.00	1.90	0.446	0					2.37
12.483	0.00	1.90	0.443	0					2.36
12.500	0.00	1.90	0.440	0					2.34
12.517	0.00	1.90	0.438	0					2.33
12.533	0.00	1.90	0.435	0					2.32
12.550	0.00	1.90	0.433	0					2.30
12.567	0.00	1.90	0.430	0					2.29
12.583	0.00	1.90	0.427	0					2.28
12.600	0.00	1.90	0.425	0					2.26
12.617	0.00	1.90	0.422	0					2.25
12.633	0.00	1.90	0.420	0					2.23
12.650	0.00	1.90	0.417	0					2.22
12.667	0.00	1.90	0.414	0					2.21
12.683	0.00	1.90	0.412	0					2.19
12.700	0.00	1.90	0.409	0					2.18
12.717	0.00	1.90	0.406	0					2.17
12.733	0.00	1.90	0.404	0					2.15
12.750	0.00	1.90	0.401	0					2.14
12.767	0.00	1.90	0.399	0					2.12
12.783	0.00	1.90	0.396	0					2.11
12.800	0.00	1.90	0.393	0					2.10
12.817	0.00	1.90	0.391	0					2.08
12.833	0.00	1.90	0.388	0					2.07
12.850	0.00	1.90	0.386	0					2.06
12.867	0.00	1.90	0.383	0					2.04
12.883	0.00	1.90	0.380	0					2.03
12.900	0.00	1.90	0.378	0					2.01
12.917	0.00	1.90	0.375	0					2.00
12.933	0.00	1.90	0.372	0					1.99
12.950	0.00	1.90	0.370	0					1.97
12.967	0.00	1.90	0.367	0					1.96
12.983	0.00	1.90	0.365	0					1.95
13.000	0.00	1.90	0.362	0					1.93

13.017	0.00	1.90	0.359	0					1.92
13.033	0.00	1.90	0.357	0					1.90
13.050	0.00	1.90	0.354	0					1.89
13.067	0.00	1.90	0.352	0					1.88
13.083	0.00	1.90	0.349	0					1.86
13.100	0.00	1.90	0.346	0					1.85
13.117	0.00	1.90	0.344	0					1.84
13.133	0.00	1.90	0.341	0					1.82
13.150	0.00	1.90	0.338	0					1.81
13.167	0.00	1.90	0.336	0					1.79
13.183	0.00	1.90	0.333	0					1.78
13.200	0.00	1.90	0.331	0					1.77
13.217	0.00	1.90	0.328	0					1.75
13.233	0.00	1.90	0.325	0					1.74
13.250	0.00	1.90	0.323	0					1.72
13.267	0.00	1.90	0.320	0					1.71
13.283	0.00	1.90	0.317	0					1.70
13.300	0.00	1.90	0.315	0					1.68
13.317	0.00	1.90	0.312	0					1.67
13.333	0.00	1.90	0.310	0					1.66
13.350	0.00	1.90	0.307	0					1.64
13.367	0.00	1.90	0.304	0					1.63
13.383	0.00	1.90	0.302	0					1.61
13.400	0.00	1.90	0.299	0					1.60
13.417	0.00	1.90	0.297	0					1.59
13.433	0.00	1.90	0.294	0					1.57
13.450	0.00	1.90	0.291	0					1.56
13.467	0.00	1.90	0.289	0					1.55
13.483	0.00	1.90	0.286	0					1.53
13.500	0.00	1.90	0.283	0					1.52
13.517	0.00	1.90	0.281	0					1.50
13.533	0.00	1.90	0.278	0					1.49
13.550	0.00	1.90	0.276	0					1.48
13.567	0.00	1.90	0.273	0					1.46
13.583	0.00	1.90	0.270	0					1.45
13.600	0.00	1.90	0.268	0					1.43
13.617	0.00	1.90	0.265	0					1.42
13.633	0.00	1.90	0.263	0					1.40
13.650	0.00	1.90	0.260	0					1.39
13.667	0.00	1.90	0.257	0					1.37
13.683	0.00	1.90	0.255	0					1.36
13.700	0.00	1.90	0.252	0					1.34
13.717	0.00	1.90	0.249	0					1.33
13.733	0.00	1.90	0.247	0					1.32
13.750	0.00	1.90	0.244	0					1.30
13.767	0.00	1.90	0.242	0					1.29
13.783	0.00	1.90	0.239	0					1.27
13.800	0.00	1.90	0.236	0					1.26
13.817	0.00	1.90	0.234	0					1.24
13.833	0.00	1.90	0.231	0					1.23
13.850	0.00	1.90	0.229	0					1.21
13.867	0.00	1.90	0.226	0					1.20
13.883	0.00	1.90	0.223	0					1.18
13.900	0.00	1.90	0.221	0					1.17
13.917	0.00	1.90	0.218	0					1.16
13.933	0.00	1.90	0.215	0					1.14
13.950	0.00	1.90	0.213	0					1.13
13.967	0.00	1.90	0.210	0					1.11
13.983	0.00	1.90	0.208	0					1.10
14.000	0.00	1.90	0.205	0					1.08
14.017	0.00	1.90	0.202	0					1.07
14.033	0.00	1.90	0.200	0					1.05
14.050	0.00	1.90	0.197	0					1.04
14.067	0.00	1.90	0.194	0					1.02
14.083	0.00	1.90	0.192	0					1.01
14.100	0.00	1.89	0.189	0					1.00
14.117	0.00	1.87	0.187	0					0.98
14.133	0.00	1.84	0.184	0					0.97
14.150	0.00	1.82	0.182	0					0.96
14.167	0.00	1.79	0.179	0					0.94
14.183	0.00	1.77	0.177	0					0.93

14.200	0.00	1.74	0.174	0					0.92
14.217	0.00	1.72	0.172	0					0.90
14.233	0.00	1.70	0.170	0					0.89
14.250	0.00	1.67	0.167	0					0.88
14.267	0.00	1.65	0.165	0					0.87
14.283	0.00	1.63	0.163	0					0.86
14.300	0.00	1.60	0.160	0					0.84
14.317	0.00	1.58	0.158	0					0.83
14.333	0.00	1.56	0.156	0					0.82
14.350	0.00	1.54	0.154	0					0.81
14.367	0.00	1.52	0.152	0					0.80
14.383	0.00	1.50	0.150	0					0.79
14.400	0.00	1.48	0.148	0					0.78
14.417	0.00	1.46	0.146	0					0.77
14.433	0.00	1.44	0.144	0					0.76
14.450	0.00	1.42	0.142	0					0.75
14.467	0.00	1.40	0.140	0					0.74
14.483	0.00	1.38	0.138	0					0.73
14.500	0.00	1.36	0.136	0					0.72
14.517	0.00	1.34	0.134	0					0.71
14.533	0.00	1.32	0.132	0					0.70
14.550	0.00	1.30	0.130	0					0.69
14.567	0.00	1.29	0.129	0					0.68
14.583	0.00	1.27	0.127	0					0.67
14.600	0.00	1.25	0.125	0					0.66
14.617	0.00	1.23	0.123	0					0.65
14.633	0.00	1.22	0.122	0					0.64
14.650	0.00	1.20	0.120	0					0.63
14.667	0.00	1.18	0.118	0					0.62
14.683	0.00	1.17	0.117	0					0.62
14.700	0.00	1.15	0.115	0					0.61
14.717	0.00	1.14	0.114	0					0.60
14.733	0.00	1.12	0.112	0					0.59
14.750	0.00	1.11	0.111	0					0.58
14.767	0.00	1.09	0.109	0					0.57
14.783	0.00	1.08	0.108	0					0.57
14.800	0.00	1.06	0.106	0					0.56
14.817	0.00	1.05	0.105	0					0.55
14.833	0.00	1.03	0.103	0					0.54
14.850	0.00	1.02	0.102	0					0.54
14.867	0.00	1.00	0.100	0					0.53
14.883	0.00	0.99	0.099	0					0.52
14.900	0.00	0.98	0.098	0					0.51
14.917	0.00	0.96	0.096	0					0.51
14.933	0.00	0.95	0.095	0					0.50
14.950	0.00	0.94	0.094	0					0.49
14.967	0.00	0.92	0.092	0					0.49
14.983	0.00	0.91	0.091	0					0.48
15.000	0.00	0.90	0.090	0					0.47
15.017	0.00	0.89	0.089	0					0.47
15.033	0.00	0.88	0.088	0					0.46
15.050	0.00	0.86	0.086	0					0.45
15.067	0.00	0.85	0.085	0					0.45
15.083	0.00	0.84	0.084	0					0.44
15.100	0.00	0.83	0.083	0					0.44
15.117	0.00	0.82	0.082	0					0.43
15.133	0.00	0.81	0.081	0					0.42
15.150	0.00	0.79	0.079	0					0.42
15.167	0.00	0.78	0.078	0					0.41
15.183	0.00	0.77	0.077	0					0.41
15.200	0.00	0.76	0.076	0					0.40
15.217	0.00	0.75	0.075	0					0.40
15.233	0.00	0.74	0.074	0					0.39
15.250	0.00	0.73	0.073	0					0.39
15.267	0.00	0.72	0.072	0					0.38
15.283	0.00	0.71	0.071	0					0.37
15.300	0.00	0.70	0.070	0					0.37
15.317	0.00	0.69	0.069	0					0.36
15.333	0.00	0.68	0.068	0					0.36
15.350	0.00	0.67	0.067	0					0.35
15.367	0.00	0.66	0.066	0					0.35

15.383	0.00	0.66	0.066	0					0.34
15.400	0.00	0.65	0.065	0					0.34
15.417	0.00	0.64	0.064	0					0.34
15.433	0.00	0.63	0.063	0					0.33
15.450	0.00	0.62	0.062	0					0.33
15.467	0.00	0.61	0.061	0					0.32
15.483	0.00	0.60	0.060	0					0.32
15.500	0.00	0.60	0.060	0					0.31
15.517	0.00	0.59	0.059	0					0.31
15.533	0.00	0.58	0.058	0					0.30
15.550	0.00	0.57	0.057	0					0.30
15.567	0.00	0.56	0.056	0					0.30
15.583	0.00	0.56	0.056	0					0.29
15.600	0.00	0.55	0.055	0					0.29
15.617	0.00	0.54	0.054	0					0.28
15.633	0.00	0.53	0.053	0					0.28
15.650	0.00	0.53	0.053	0					0.28
15.667	0.00	0.52	0.052	0					0.27
15.683	0.00	0.51	0.051	0					0.27
15.700	0.00	0.50	0.050	0					0.27
15.717	0.00	0.50	0.050	0					0.26
15.733	0.00	0.49	0.049	0					0.26
15.750	0.00	0.48	0.048	0					0.25
15.767	0.00	0.48	0.048	0					0.25
15.783	0.00	0.47	0.047	0					0.25
15.800	0.00	0.46	0.046	0					0.24
15.817	0.00	0.46	0.046	0					0.24
15.833	0.00	0.45	0.045	0					0.24
15.850	0.00	0.45	0.045	0					0.23
15.867	0.00	0.44	0.044	0					0.23
15.883	0.00	0.43	0.043	0					0.23
15.900	0.00	0.43	0.043	0					0.23
15.917	0.00	0.42	0.042	0					0.22
15.933	0.00	0.42	0.042	0					0.22
15.950	0.00	0.41	0.041	0					0.22
15.967	0.00	0.40	0.040	0					0.21
15.983	0.00	0.40	0.040	0					0.21
16.000	0.00	0.39	0.039	0					0.21
16.017	0.00	0.39	0.039	0					0.20
16.033	0.00	0.38	0.038	0					0.20
16.050	0.00	0.38	0.038	0					0.20
16.067	0.00	0.37	0.037	0					0.20
16.083	0.00	0.37	0.037	0					0.19
16.100	0.00	0.36	0.036	0					0.19
16.117	0.00	0.36	0.036	0					0.19
16.133	0.00	0.35	0.035	0					0.19
16.150	0.00	0.35	0.035	0					0.18
16.167	0.00	0.34	0.034	0					0.18
16.183	0.00	0.34	0.034	0					0.18
16.200	0.00	0.33	0.033	0					0.18
16.217	0.00	0.33	0.033	0					0.17
16.233	0.00	0.32	0.032	0					0.17
16.250	0.00	0.32	0.032	0					0.17
16.267	0.00	0.32	0.032	0					0.17
16.283	0.00	0.31	0.031	0					0.16
16.300	0.00	0.31	0.031	0					0.16
16.317	0.00	0.30	0.030	0					0.16
16.333	0.00	0.30	0.030	0					0.16
16.350	0.00	0.29	0.029	0					0.16
16.367	0.00	0.29	0.029	0					0.15
16.383	0.00	0.29	0.029	0					0.15
16.400	0.00	0.28	0.028	0					0.15
16.417	0.00	0.28	0.028	0					0.15
16.433	0.00	0.28	0.028	0					0.14
16.450	0.00	0.27	0.027	0					0.14
16.467	0.00	0.27	0.027	0					0.14
16.483	0.00	0.26	0.026	0					0.14
16.500	0.00	0.26	0.026	0					0.14
16.517	0.00	0.26	0.026	0					0.14
16.533	0.00	0.25	0.025	0					0.13
16.550	0.00	0.25	0.025	0					0.13

16.567	0.00	0.25	0.025	0					0.13
16.583	0.00	0.24	0.024	0					0.13
16.600	0.00	0.24	0.024	0					0.13
16.617	0.00	0.24	0.024	0					0.12
16.633	0.00	0.23	0.023	0					0.12
16.650	0.00	0.23	0.023	0					0.12
16.667	0.00	0.23	0.023	0					0.12
16.683	0.00	0.22	0.022	0					0.12
16.700	0.00	0.22	0.022	0					0.12
16.717	0.00	0.22	0.022	0					0.11
16.733	0.00	0.21	0.021	0					0.11
16.750	0.00	0.21	0.021	0					0.11
16.767	0.00	0.21	0.021	0					0.11
16.783	0.00	0.21	0.021	0					0.11
16.800	0.00	0.20	0.020	0					0.11
16.817	0.00	0.20	0.020	0					0.11
16.833	0.00	0.20	0.020	0					0.10
16.850	0.00	0.19	0.019	0					0.10
16.867	0.00	0.19	0.019	0					0.10
16.883	0.00	0.19	0.019	0					0.10
16.900	0.00	0.19	0.019	0					0.10
16.917	0.00	0.18	0.018	0					0.10
16.933	0.00	0.18	0.018	0					0.10
16.950	0.00	0.18	0.018	0					0.09
16.967	0.00	0.18	0.018	0					0.09
16.983	0.00	0.17	0.017	0					0.09
17.000	0.00	0.17	0.017	0					0.09
17.017	0.00	0.17	0.017	0					0.09
17.033	0.00	0.17	0.017	0					0.09
17.050	0.00	0.17	0.017	0					0.09
17.067	0.00	0.16	0.016	0					0.09
17.083	0.00	0.16	0.016	0					0.08
17.100	0.00	0.16	0.016	0					0.08
17.117	0.00	0.16	0.016	0					0.08
17.133	0.00	0.15	0.015	0					0.08
17.150	0.00	0.15	0.015	0					0.08
17.167	0.00	0.15	0.015	0					0.08
17.183	0.00	0.15	0.015	0					0.08
17.200	0.00	0.15	0.015	0					0.08
17.217	0.00	0.14	0.014	0					0.08
17.233	0.00	0.14	0.014	0					0.07
17.250	0.00	0.14	0.014	0					0.07
17.267	0.00	0.14	0.014	0					0.07
17.283	0.00	0.14	0.014	0					0.07
17.300	0.00	0.13	0.013	0					0.07
17.317	0.00	0.13	0.013	0					0.07
17.333	0.00	0.13	0.013	0					0.07
17.350	0.00	0.13	0.013	0					0.07
17.367	0.00	0.13	0.013	0					0.07
17.383	0.00	0.13	0.013	0					0.07
17.400	0.00	0.12	0.012	0					0.07
17.417	0.00	0.12	0.012	0					0.06
17.433	0.00	0.12	0.012	0					0.06
17.450	0.00	0.12	0.012	0					0.06
17.467	0.00	0.12	0.012	0					0.06
17.483	0.00	0.12	0.012	0					0.06
17.500	0.00	0.11	0.011	0					0.06
17.517	0.00	0.11	0.011	0					0.06
17.533	0.00	0.11	0.011	0					0.06
17.550	0.00	0.11	0.011	0					0.06
17.567	0.00	0.11	0.011	0					0.06
17.583	0.00	0.11	0.011	0					0.06
17.600	0.00	0.10	0.010	0					0.06
17.617	0.00	0.10	0.010	0					0.05
17.633	0.00	0.10	0.010	0					0.05
17.650	0.00	0.10	0.010	0					0.05
17.667	0.00	0.10	0.010	0					0.05
17.683	0.00	0.10	0.010	0					0.05
17.700	0.00	0.10	0.010	0					0.05
17.717	0.00	0.10	0.010	0					0.05
17.733	0.00	0.09	0.009	0					0.05


```
*****HYDROGRAPH DATA*****
      Number of intervals = 1348
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 44.265 (CFS)
      Total volume = 5.712 (Ac.Ft)
      Status of hydrographs being held in storage
            Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****
```

```
+++++
Process from Point/Station 709.000 to Point/Station 709.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****
```

```
Current stream hydrograph saved in file 100160rtebas3.rte
*****HYDROGRAPH DATA*****
      Number of intervals = 0
      Time interval = 0.0 (Min.)
      Maximum/Peak flow rate = 0.000 (CFS)
      Total volume = 0.000 (Ac.Ft)
      Status of hydrographs being held in storage
            Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****
```

FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/16/24

Majestic Otay
 Otay Mesa, San Diego County
 Proposed Condition POC 1
 100160rtPOC1

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratArea80.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 364
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 5.199 (CFS)
 Total volume = 0.299 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 703.000 to Point/Station 1.000
 **** ADD/COMBINE/RECOVER HYDROGRAPHS ****

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rtebas1POC1.rte
 +++++
 P R I N T O F S T O R M
 R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q (CFS)	Tot. Q	0	1.8	3.5	5.3	7.0
0+ 1	0.0000	0.02	Q				
0+ 2	0.3211	0.09	Q				
0+ 3	7.0985	1.30		Q			
0+ 4	8.6333	1.59		qQ			
0+ 5	8.9802	1.67		qQ			
0+ 6	9.0584	1.70		Q			
0+ 7	9.0764	1.72		Q			
0+ 8	9.0813	1.73		Q			
0+ 9	9.0838	1.75		Q			
0+10	9.0865	1.77		qQ			
0+11	9.0893	1.79		qQ			
0+12	9.0910	1.80		qQ			
0+13	9.0925	1.82		qQ			
0+14	9.0940	1.82		qQ			
0+15	9.0954	1.82		qQ			
0+16	9.0969	1.82		qQ			
0+17	9.0983	1.82		qQ			
0+18	9.0998	1.82		qQ			
0+19	9.1013	1.82		qQ			
0+20	9.1027	1.83		qQ			
0+21	9.1042	1.83		qQ			

0+22	9.1057	1.83	qQ				
0+23	9.1072	1.83	qQ				
0+24	9.1088	1.83	qQ				
0+25	9.1103	1.83	qQ				
0+26	9.1118	1.83	qQ				
0+27	9.1134	1.83	qQ				
0+28	9.1150	1.83	qQ				
0+29	9.1165	1.83	qQ				
0+30	9.1181	1.83	qQ				
0+31	9.1197	1.84	qQ				
0+32	9.1213	1.84	qQ				
0+33	9.1229	1.84	qQ				
0+34	9.1245	1.84	qQ				
0+35	9.1261	1.84	qQ				
0+36	9.1277	1.84	qQ				
0+37	9.1293	1.84	qQ				
0+38	9.1309	1.84	qQ				
0+39	9.1326	1.85	qQ				
0+40	9.1343	1.85	qQ				
0+41	9.1360	1.85	qQ				
0+42	9.1376	1.85	qQ				
0+43	9.1394	1.85	qQ				
0+44	9.1411	1.85	qQ				
0+45	9.1428	1.85	qQ				
0+46	9.1445	1.85	qQ				
0+47	9.1462	1.85	qQ				
0+48	9.1480	1.85	qQ				
0+49	9.1497	1.85	qQ				
0+50	9.1515	1.85	qQ				
0+51	9.1532	1.86	qQ				
0+52	9.1550	1.86	qQ				
0+53	9.1568	1.86	qQ				
0+54	9.1586	1.86	qQ				
0+55	9.1604	1.86	qQ				
0+56	9.1623	1.86	qQ				
0+57	9.1641	1.86	qQ				
0+58	9.1660	1.86	qQ				
0+59	9.1679	1.87	qQ				
1+ 0	9.1697	1.87	qQ				
1+ 1	9.1716	1.87	qQ				
1+ 2	9.1735	1.87	qQ				
1+ 3	9.1754	1.87	qQ				
1+ 4	9.1774	1.87	qQ				
1+ 5	9.1793	1.88	qQ				
1+ 6	9.1812	1.88	qQ				
1+ 7	9.1832	1.88	qQ				
1+ 8	9.1851	1.88	qQ				
1+ 9	9.1871	1.88	qQ				
1+10	9.1891	1.88	qQ				
1+11	9.1911	1.88	qQ				
1+12	9.1931	1.88	qQ				
1+13	9.1952	1.88	qQ				
1+14	9.1972	1.88	qQ				
1+15	9.1993	1.89	qQ				
1+16	9.2014	1.89	qQ				
1+17	9.2035	1.89	qQ				
1+18	9.2056	1.89	qQ				
1+19	9.2077	1.89	qQ				
1+20	9.2098	1.89	qQ				
1+21	9.2119	1.89	qQ				
1+22	9.2141	1.90	qQ				
1+23	9.2162	1.90	qQ				
1+24	9.2184	1.90	qQ				
1+25	9.2206	1.90	qQ				
1+26	9.2228	1.90	qQ				
1+27	9.2250	1.91	qQ				
1+28	9.2272	1.91	qQ				
1+29	9.2295	1.91	qQ				
1+30	9.2318	1.91	qQ				
1+31	9.2341	1.91	qQ				
1+32	9.2364	1.91	qQ				

1+33	9.2387	1.92	qQ			
1+34	9.2411	1.92	qQ			
1+35	9.2434	1.92	qQ			
1+36	9.2458	1.92	qQ			
1+37	9.2482	1.92	qQ			
1+38	9.2505	1.92	qQ			
1+39	9.2529	1.92	qQ			
1+40	9.2553	1.92	qQ			
1+41	9.2578	1.93	qQ			
1+42	9.2602	1.93	qQ			
1+43	9.2627	1.93	qQ			
1+44	9.2652	1.93	qQ			
1+45	9.2678	1.93	qQ			
1+46	9.2703	1.93	qQ			
1+47	9.2729	1.94	qIQ			
1+48	9.2755	1.94	qIQ			
1+49	9.2781	1.94	qIQ			
1+50	9.2807	1.94	qIQ			
1+51	9.2833	1.95	qIQ			
1+52	9.2860	1.95	qIQ			
1+53	9.2886	1.95	qIQ			
1+54	9.2913	1.95	qIQ			
1+55	9.2940	1.96	qIQ			
1+56	9.2967	1.96	qIQ			
1+57	9.2994	1.96	qIQ			
1+58	9.3022	1.96	qIQ			
1+59	9.3050	1.96	qIQ			
2+ 0	9.3078	1.97	qIQ			
2+ 1	9.3107	1.97	qIQ			
2+ 2	9.3136	1.97	qIQ			
2+ 3	9.3165	1.97	qIQ			
2+ 4	9.3194	1.97	qIQ			
2+ 5	9.3223	1.97	qIQ			
2+ 6	9.3253	1.98	qIQ			
2+ 7	9.3282	1.98	qIQ			
2+ 8	9.3312	1.98	qIQ			
2+ 9	9.3342	1.98	qIQ			
2+10	9.3372	1.98	qIQ			
2+11	9.3403	1.99	qIQ			
2+12	9.3433	1.99	qIQ			
2+13	9.3465	1.99	qIQ			
2+14	9.3496	2.00	qIQ			
2+15	9.3528	2.00	qIQ			
2+16	9.3560	2.00	qIQ			
2+17	9.3592	2.01	qIQ			
2+18	9.3625	2.01	qIQ			
2+19	9.3658	2.01	qIQ			
2+20	9.3692	2.02	qIQ			
2+21	9.3725	2.02	qIQ			
2+22	9.3759	2.02	qIQ			
2+23	9.3793	2.03	qIQ			
2+24	9.3827	2.03	qIQ			
2+25	9.3861	2.03	qIQ			
2+26	9.3896	2.03	qIQ			
2+27	9.3931	2.04	qIQ			
2+28	9.3966	2.04	qIQ			
2+29	9.4001	2.04	qIQ			
2+30	9.4038	2.04	qIQ			
2+31	9.4074	2.05	qIQ			
2+32	9.4111	2.05	qIQ			
2+33	9.4149	2.05	qIQ			
2+34	9.4187	2.05	qIQ			
2+35	9.4225	2.06	qIQ			
2+36	9.4264	2.06	qIQ			
2+37	9.4302	2.06	qIQ			
2+38	9.4342	2.07	qIQ			
2+39	9.4381	2.07	qIQ			
2+40	9.4421	2.08	qIQ			
2+41	9.4460	2.08	qIQ			
2+42	9.4501	2.09	qIQ			
2+43	9.4541	2.10	qIQ			

2+44	9.4582	2.10	q Q			
2+45	9.4624	2.11	q Q			
2+46	9.4666	2.11	q Q			
2+47	9.4709	2.12	q Q			
2+48	9.4753	2.12	q Q			
2+49	9.4797	2.13	q Q			
2+50	9.4842	2.13	q Q			
2+51	9.4887	2.13	q Q			
2+52	9.4932	2.14	q Q			
2+53	9.4978	2.14	q Q			
2+54	9.5025	2.15	q Q			
2+55	9.5072	2.15	q Q			
2+56	9.5119	2.15	q Q			
2+57	9.5166	2.16	q Q			
2+58	9.5214	2.16	q Q			
2+59	9.5262	2.16	q Q			
3+ 0	9.5311	2.17	q Q			
3+ 1	9.5361	2.17	q Q			
3+ 2	9.5412	2.18	q Q			
3+ 3	9.5464	2.19	q Q			
3+ 4	9.5517	2.20	q Q			
3+ 5	9.5570	2.20	q Q			
3+ 6	9.5624	2.21	q Q			
3+ 7	9.5679	2.22	q Q			
3+ 8	9.5735	2.23	q Q			
3+ 9	9.5791	2.24	q Q			
3+10	9.5848	2.25	q Q			
3+11	9.5905	2.26	q Q			
3+12	9.5963	2.27	q Q			
3+13	9.6021	2.28	q Q			
3+14	9.6080	2.29	q Q			
3+15	9.6140	2.30	q Q			
3+16	9.6201	2.31	q Q			
3+17	9.6263	2.31	q Q			
3+18	9.6327	2.32	q Q			
3+19	9.6392	2.33	q Q			
3+20	9.6459	2.34	q Q			
3+21	9.6526	2.35	q Q			
3+22	9.6594	2.35	q Q			
3+23	9.6662	2.36	q Q			
3+24	9.6730	2.37	q Q			
3+25	9.6799	2.38	q Q			
3+26	9.6869	2.38	q Q			
3+27	9.6939	2.39	q Q			
3+28	9.7011	2.40	q Q			
3+29	9.7083	2.43	q Q			
3+30	9.7156	2.45	q Q			
3+31	9.7231	2.48	q Q			
3+32	9.7308	2.50	q Q			
3+33	9.7387	2.53	q Q			
3+34	9.7469	2.56	q Q			
3+35	9.7553	2.58	q Q			
3+36	9.7640	2.61	q Q			
3+37	9.7729	2.64	q Q			
3+38	9.7821	2.66	q Q			
3+39	9.7915	2.69	q Q			
3+40	9.8011	2.72	q Q			
3+41	9.8109	2.74	q Q			
3+42	9.8209	2.78	q Q			
3+43	9.8310	2.81	q Q			
3+44	9.8414	2.84	q Q			
3+45	9.8519	2.88	q Q			
3+46	9.8627	2.91	q Q			
3+47	9.8738	2.95	q Q			
3+48	9.8856	2.98	q Q			
3+49	9.8981	3.01	q Q			
3+50	9.9114	3.05	q Q			
3+51	9.9253	3.08	q Q			
3+52	9.9400	3.12	q Q			
3+53	9.9555	3.15	q Q			
3+54	9.9716	3.19	q Q			

3+55	9.9886	3.48		q	Q		
3+56	10.0065	3.77		q	Q		
3+57	10.0253	4.06		q	Q		
3+58	10.0450	4.36		q	Q		
3+59	10.0657	4.65		q	Q		
4+ 0	10.0873	4.95		q	Q		
4+ 1	10.1099	5.24		q	Q		
4+ 2	10.1335	5.53		q	Q		
4+ 3	10.1612	5.83		q	Q		
4+ 4	10.1972	6.12		q	Q		
4+ 5	10.2585	6.42		q	Q		
4+ 6	10.3523	6.73		q	Q		
4+ 7	10.4659	7.04		q	Q		
4+ 8	10.5966	6.73		q	Q		
4+ 9	10.7437	6.42		q	Q		
4+10	10.9065	6.11		q	Q		
4+11	11.0711	5.80		q	Q		
4+12	11.2210	5.49		q	Q		
4+13	11.3417	5.17		q	Q		
4+14	11.4091	4.85		q	Q		
4+15	11.4575	4.52		q	Q		
4+16	11.4946	4.19		q	Q		
4+17	11.5221	3.85		q	Q		
4+18	11.5406	3.52		q	Q		
4+19	11.5536	3.19		q	Q		
4+20	11.5648	2.85		q	Q		
4+21	11.5752	2.83		q	Q		
4+22	11.5850	2.81		q	Q		
4+23	11.5942	2.79		q	Q		
4+24	11.6029	2.77		q	Q		
4+25	11.6110	2.75		q	Q		
4+26	11.6186	2.74		q	Q		
4+27	11.6258	2.72		q	Q		
4+28	11.6327	2.70		q	Q		
4+29	11.6393	2.68		q	Q		
4+30	11.6457	2.66		q	Q		
4+31	11.6518	2.64		q	Q		
4+32	11.6577	2.62		q	Q		
4+33	11.6633	2.60		q	Q		
4+34	11.6688	2.59		q	Q		
4+35	11.6740	2.58		q	Q		
4+36	11.6790	2.57		q	Q		
4+37	11.6839	2.57		q	Q		
4+38	11.6887	2.56		q	Q		
4+39	11.6933	2.55		q	Q		
4+40	11.6978	2.54		q	Q		
4+41	11.7021	2.53		q	Q		
4+42	11.7063	2.52		q	Q		
4+43	11.7104	2.51		q	Q		
4+44	11.7144	2.51		q	Q		
4+45	11.7183	2.50		q	Q		
4+46	11.7220	2.49		q	Q		
4+47	11.7257	2.48		q	Q		
4+48	11.7293	2.48		q	Q		
4+49	11.7328	2.48		q	Q		
4+50	11.7362	2.47		q	Q		
4+51	11.7395	2.47		q	Q		
4+52	11.7428	2.46		q	Q		
4+53	11.7460	2.46		q	Q		
4+54	11.7491	2.45		q	Q		
4+55	11.7521	2.45		q	Q		
4+56	11.7551	2.44		q	Q		
4+57	11.7580	2.44		q	Q		
4+58	11.7608	2.43		q	Q		
4+59	11.7636	2.43		q	Q		
5+ 0	11.7663	2.42		q	Q		
5+ 1	11.7690	2.42		q	Q		
5+ 2	11.7716	2.42		q	Q		
5+ 3	11.7741	2.42		q	Q		
5+ 4	11.7766	2.41		q	Q		
5+ 5	11.7791	2.41		q	Q		

5+ 6	11.7815	2.41		q Q			
5+ 7	11.7838	2.40		q Q			
5+ 8	11.7861	2.40		q Q			
5+ 9	11.7884	2.40		q Q			
5+10	11.7906	2.39		q Q			
5+11	11.7928	2.39		q Q			
5+12	11.7950	2.39		q Q			
5+13	11.7971	2.38		q Q			
5+14	11.7991	2.38		q Q			
5+15	11.8011	2.38		q Q			
5+16	11.8031	2.38		q Q			
5+17	11.8051	2.38		q Q			
5+18	11.8070	2.37		q Q			
5+19	11.8089	2.37		q Q			
5+20	11.8107	2.37		q Q			
5+21	11.8125	2.37		q Q			
5+22	11.8143	2.36		q Q			
5+23	11.8160	2.36		q Q			
5+24	11.8178	2.36		q Q			
5+25	11.8195	2.36		q Q			
5+26	11.8211	2.36		q Q			
5+27	11.8227	2.35		q Q			
5+28	11.8243	2.35		q Q			
5+29	11.8259	2.35		q Q			
5+30	11.8275	2.35		q Q			
5+31	11.8290	2.35		q Q			
5+32	11.8305	2.35		q Q			
5+33	11.8319	2.34		q Q			
5+34	11.8334	2.34		q Q			
5+35	11.8348	2.34		q Q			
5+36	11.8362	2.34		q Q			
5+37	11.8376	2.34		q Q			
5+38	11.8389	2.34		q Q			
5+39	11.8403	2.33		q Q			
5+40	11.8416	2.33		q Q			
5+41	11.8428	2.33		q Q			
5+42	11.8441	2.33		q Q			
5+43	11.8453	2.33		q Q			
5+44	11.8466	2.33		q Q			
5+45	11.8478	2.33		q Q			
5+46	11.8489	2.32		q Q			
5+47	11.8501	2.32		q Q			
5+48	11.8512	2.32		q Q			
5+49	11.8524	2.32		q Q			
5+50	11.8535	2.32		q Q			
5+51	11.8546	2.32		q Q			
5+52	11.8556	2.32		q Q			
5+53	11.8567	2.32		q Q			
5+54	11.8577	2.31		q Q			
5+55	11.8587	2.31		q Q			
5+56	11.8597	2.31		q Q			
5+57	11.8607	2.31		q Q			
5+58	11.8617	2.31		q Q			
5+59	11.8626	2.31		q Q			
6+ 0	11.8635	2.31		q Q			
6+ 1	11.8644	2.31		q Q			
6+ 2	11.8653	2.31		q Q			
6+ 3	11.8662	2.30		q Q			
6+ 4	11.8671	2.30		q Q			
6+ 5	11.8680	2.09		Q			
6+ 6	11.8688	2.09		Q			
6+ 7	11.8696	2.09		Q			
6+ 8	11.8704	2.09		Q			
6+ 9	11.8712	2.09		Q			
6+10	11.8720	2.09		Q			
6+11	11.8717	2.09		Q			
6+12	11.8703	2.09		Q			
6+13	11.8686	2.09		Q			
6+14	11.8669	2.09		Q			
6+15	11.8651	2.09		Q			
6+16	11.8634	2.09		Q			

6+17	11.8616	2.09					
6+18	11.8599	2.09					
6+19	11.8581	2.09					
6+20	11.8563	2.09					
6+21	11.8546	2.09					
6+22	11.8528	2.09					
6+23	11.8511	2.09					
6+24	11.8493	2.09					
6+25	11.8476	2.09					
6+26	11.8458	2.09					
6+27	11.8441	2.08					
6+28	11.8423	2.08					
6+29	11.8405	2.08					
6+30	11.8388	2.08					
6+31	11.8370	2.08					
6+32	11.8353	2.08					
6+33	11.8335	2.08					
6+34	11.8318	2.08					
6+35	11.8300	2.08					
6+36	11.8283	2.08					
6+37	11.8265	2.08					
6+38	11.8248	2.08					
6+39	11.8230	2.08					
6+40	11.8213	2.08					
6+41	11.8195	2.08					
6+42	11.8178	2.08					
6+43	11.8160	2.08					
6+44	11.8143	2.08					
6+45	11.8125	2.08					
6+46	11.8108	2.08					
6+47	11.8090	2.08					
6+48	11.8073	2.08					
6+49	11.8055	2.08					
6+50	11.8038	2.08					
6+51	11.8020	2.08					
6+52	11.8003	2.08					
6+53	11.7985	2.08					
6+54	11.7968	2.08					
6+55	11.7950	2.08					
6+56	11.7933	2.08					
6+57	11.7915	2.08					
6+58	11.7898	2.08					
6+59	11.7881	2.07					
7+ 0	11.7863	2.07					
7+ 1	11.7846	2.07					
7+ 2	11.7828	2.07					
7+ 3	11.7811	2.07					
7+ 4	11.7793	2.07					
7+ 5	11.7776	2.07					
7+ 6	11.7758	2.07					
7+ 7	11.7741	2.07					
7+ 8	11.7724	2.07					
7+ 9	11.7706	2.07					
7+10	11.7689	2.07					
7+11	11.7671	2.07					
7+12	11.7654	2.07					
7+13	11.7636	2.07					
7+14	11.7619	2.07					
7+15	11.7602	2.07					
7+16	11.7584	2.07					
7+17	11.7567	2.07					
7+18	11.7549	2.07					
7+19	11.7532	2.07					
7+20	11.7514	2.07					
7+21	11.7497	2.07					
7+22	11.7480	2.07					
7+23	11.7462	2.07					
7+24	11.7445	2.07					
7+25	11.7427	2.07					
7+26	11.7410	2.07					
7+27	11.7393	2.07					

7+28	11.7375	2.07		IQ			
7+29	11.7358	2.07		IQ			
7+30	11.7341	2.07		IQ			
7+31	11.7323	2.07		IQ			
7+32	11.7306	2.06		IQ			
7+33	11.7288	2.06		IQ			
7+34	11.7271	2.06		IQ			
7+35	11.7254	2.06		IQ			
7+36	11.7236	2.06		IQ			
7+37	11.7219	2.06		IQ			
7+38	11.7202	2.06		IQ			
7+39	11.7184	2.06		IQ			
7+40	11.7167	2.06		IQ			
7+41	11.7150	2.06		IQ			
7+42	11.7132	2.06		IQ			
7+43	11.7115	2.06		IQ			
7+44	11.7097	2.06		IQ			
7+45	11.7080	2.06		IQ			
7+46	11.7063	2.06		IQ			
7+47	11.7045	2.06		IQ			
7+48	11.7028	2.06		IQ			
7+49	11.7011	2.06		IQ			
7+50	11.6993	2.06		IQ			
7+51	11.6976	2.06		IQ			
7+52	11.6959	2.06		IQ			
7+53	11.6942	2.06		IQ			
7+54	11.6924	2.06		IQ			
7+55	11.6907	2.06		IQ			
7+56	11.6890	2.06		IQ			
7+57	11.6872	2.06		IQ			
7+58	11.6855	2.06		IQ			
7+59	11.6838	2.06		IQ			
8+ 0	11.6820	2.06		IQ			
8+ 1	11.6803	2.06		IQ			
8+ 2	11.6786	2.06		IQ			
8+ 3	11.6768	2.06		IQ			
8+ 4	11.6751	2.06		IQ			
8+ 5	11.6734	2.05		IQ			
8+ 6	11.6717	2.05		IQ			
8+ 7	11.6699	2.05		IQ			
8+ 8	11.6682	2.05		IQ			
8+ 9	11.6665	2.05		IQ			
8+10	11.6647	2.05		IQ			
8+11	11.6630	2.05		IQ			
8+12	11.6613	2.05		IQ			
8+13	11.6596	2.05		IQ			
8+14	11.6578	2.05		IQ			
8+15	11.6561	2.05		IQ			
8+16	11.6544	2.05		IQ			
8+17	11.6527	2.05		IQ			
8+18	11.6509	2.05		IQ			
8+19	11.6492	2.05		IQ			
8+20	11.6475	2.05		IQ			
8+21	11.6458	2.05		IQ			
8+22	11.6440	2.05		IQ			
8+23	11.6423	2.05		IQ			
8+24	11.6406	2.05		IQ			
8+25	11.6389	2.05		IQ			
8+26	11.6371	2.05		IQ			
8+27	11.6354	2.05		IQ			
8+28	11.6337	2.05		IQ			
8+29	11.6320	2.05		IQ			
8+30	11.6302	2.05		IQ			
8+31	11.6285	2.05		IQ			
8+32	11.6268	2.05		IQ			
8+33	11.6251	2.05		IQ			
8+34	11.6234	2.05		IQ			
8+35	11.6216	2.05		IQ			
8+36	11.6199	2.05		IQ			
8+37	11.6182	2.05		IQ			
8+38	11.6165	2.04		IQ			

8+39	11.6147	2.04		Q			
8+40	11.6130	2.04		Q			
8+41	11.6113	2.04		Q			
8+42	11.6096	2.04		Q			
8+43	11.6079	2.04		Q			
8+44	11.6062	2.04		Q			
8+45	11.6044	2.04		Q			
8+46	11.6027	2.04		Q			
8+47	11.6010	2.04		Q			
8+48	11.5993	2.04		Q			
8+49	11.5976	2.04		Q			
8+50	11.5958	2.04		Q			
8+51	11.5941	2.04		Q			
8+52	11.5924	2.04		Q			
8+53	11.5907	2.04		Q			
8+54	11.5890	2.04		Q			
8+55	11.5873	2.04		Q			
8+56	11.5855	2.04		Q			
8+57	11.5838	2.04		Q			
8+58	11.5821	2.04		Q			
8+59	11.5804	2.04		Q			
9+ 0	11.5787	2.04		Q			
9+ 1	11.5770	2.04		Q			
9+ 2	11.5753	2.04		Q			
9+ 3	11.5735	2.04		Q			
9+ 4	11.5718	2.04		Q			
9+ 5	11.5701	2.04		Q			
9+ 6	11.5684	2.04		Q			
9+ 7	11.5667	2.04		Q			
9+ 8	11.5650	2.04		Q			
9+ 9	11.5633	2.04		Q			
9+10	11.5615	2.04		Q			
9+11	11.5598	2.03		Q			
9+12	11.5581	2.03		Q			
9+13	11.5564	2.03		Q			
9+14	11.5547	2.03		Q			
9+15	11.5530	2.03		Q			
9+16	11.5513	2.03		Q			
9+17	11.5496	2.03		Q			
9+18	11.5479	2.03		Q			
9+19	11.5461	2.03		Q			
9+20	11.5444	2.03		Q			
9+21	11.5427	2.03		Q			
9+22	11.5410	2.03		Q			
9+23	11.5393	2.03		Q			
9+24	11.5376	2.03		Q			
9+25	11.5359	2.03		Q			
9+26	11.5342	2.03		Q			
9+27	11.5325	2.03		Q			
9+28	11.5308	2.03		Q			
9+29	11.5291	2.03		Q			
9+30	11.5273	2.03		Q			
9+31	11.5256	2.03		Q			
9+32	11.5239	2.03		Q			
9+33	11.5222	2.03		Q			
9+34	11.5205	2.03		Q			
9+35	11.5188	2.03		Q			
9+36	11.5171	2.03		Q			
9+37	11.5154	2.03		Q			
9+38	11.5137	2.03		Q			
9+39	11.5120	2.03		Q			
9+40	11.5103	2.03		Q			
9+41	11.5086	2.03		Q			
9+42	11.5069	2.03		Q			
9+43	11.5052	2.03		Q			
9+44	11.5035	2.02		Q			
9+45	11.5018	2.02		Q			
9+46	11.5001	2.02		Q			
9+47	11.4984	2.02		Q			
9+48	11.4967	2.02		Q			
9+49	11.4950	2.02		Q			

9+50	11.4933	2.02		Q			
9+51	11.4915	2.02		Q			
9+52	11.4898	2.02		Q			
9+53	11.4881	2.02		Q			
9+54	11.4864	2.02		Q			
9+55	11.4847	2.02		Q			
9+56	11.4830	2.02		Q			
9+57	11.4813	2.02		Q			
9+58	11.4796	2.02		Q			
9+59	11.4779	2.02		Q			
10+ 0	11.4762	2.02		Q			
10+ 1	11.4745	2.02		Q			
10+ 2	11.4728	2.02		Q			
10+ 3	11.4711	2.02		Q			
10+ 4	11.4694	2.02		Q			
10+ 5	11.4677	2.02		Q			
10+ 6	11.4660	2.02		Q			
10+ 7	11.4643	2.02		Q			
10+ 8	11.4627	2.02		Q			
10+ 9	11.4610	2.02		Q			
10+10	11.4593	2.02		Q			
10+11	11.4576	2.02		Q			
10+12	11.4559	2.02		Q			
10+13	11.4542	2.02		Q			
10+14	11.4525	2.02		Q			
10+15	11.4508	2.02		Q			
10+16	11.4491	2.02		Q			
10+17	11.4474	2.01		Q			
10+18	11.4457	2.01		Q			
10+19	11.4440	2.01		Q			
10+20	11.4423	2.01		Q			
10+21	11.4406	2.01		Q			
10+22	11.4389	2.01		Q			
10+23	11.4372	2.01		Q			
10+24	11.4355	2.01		Q			
10+25	11.4338	2.01		Q			
10+26	11.4321	2.01		Q			
10+27	11.4304	2.01		Q			
10+28	11.4287	2.01		Q			
10+29	11.4271	2.01		Q			
10+30	11.4254	2.01		Q			
10+31	11.4237	2.01		Q			
10+32	11.4220	2.01		Q			
10+33	11.4203	2.01		Q			
10+34	11.4186	2.01		Q			
10+35	11.4169	2.01		Q			
10+36	11.4152	2.01		Q			
10+37	11.4135	2.01		Q			
10+38	11.4118	2.01		Q			
10+39	11.4101	2.01		Q			
10+40	11.4085	2.01		Q			
10+41	11.4068	2.01		Q			
10+42	11.4051	2.01		Q			
10+43	11.4034	2.01		Q			
10+44	11.4017	2.01		Q			
10+45	11.4000	2.01		Q			
10+46	11.3983	2.01		Q			
10+47	11.3966	2.01		Q			
10+48	11.3949	2.01		Q			
10+49	11.3933	2.01		Q			
10+50	11.3916	2.01		Q			
10+51	11.3899	2.00		Q			
10+52	11.3882	2.00		Q			
10+53	11.3865	2.00		Q			
10+54	11.3848	2.00		Q			
10+55	11.3831	2.00		Q			
10+56	11.3815	2.00		Q			
10+57	11.3798	2.00		Q			
10+58	11.3781	2.00		Q			
10+59	11.3764	2.00		Q			
11+ 0	11.3747	2.00		Q			

11+ 1	11.3730	2.00		Q			
11+ 2	11.3713	2.00		Q			
11+ 3	11.3697	2.00		Q			
11+ 4	11.3680	2.00		Q			
11+ 5	11.3663	2.00		Q			
11+ 6	11.3646	2.00		Q			
11+ 7	11.3629	2.00		Q			
11+ 8	11.3598	2.00		Q			
11+ 9	11.3563	2.00		Q			
11+10	11.3528	2.00		Q			
11+11	11.3493	2.00		Q			
11+12	11.3458	2.00		Q			
11+13	11.3423	2.00		Q			
11+14	11.3388	2.00		Q			
11+15	11.3353	2.00		Q			
11+16	11.3318	1.99		Q			
11+17	11.3283	1.99		Q			
11+18	11.3248	1.99		Q			
11+19	11.3213	1.99		Q			
11+20	11.3178	1.99		Q			
11+21	11.3143	1.99		Q			
11+22	11.3108	1.99		Q			
11+23	11.3073	1.99		Q			
11+24	11.3038	1.99		Q			
11+25	11.3003	1.99		Q			
11+26	11.2968	1.99		Q			
11+27	11.2933	1.99		Q			
11+28	11.2898	1.99		Q			
11+29	11.2863	1.99		Q			
11+30	11.2828	1.99		Q			
11+31	11.2793	1.99		Q			
11+32	11.2758	1.98		Q			
11+33	11.2723	1.98		Q			
11+34	11.2688	1.98		Q			
11+35	11.2653	1.98		Q			
11+36	11.2618	1.98		Q			
11+37	11.2584	1.98		Q			
11+38	11.2549	1.98		Q			
11+39	11.2514	1.98		Q			
11+40	11.2479	1.98		Q			
11+41	11.2444	1.98		Q			
11+42	11.2410	1.98		Q			
11+43	11.2375	1.98		Q			
11+44	11.2340	1.98		Q			
11+45	11.2305	1.98		Q			
11+46	11.2270	1.98		Q			
11+47	11.2236	1.98		Q			
11+48	11.2201	1.97		Q			
11+49	11.2166	1.97		Q			
11+50	11.2132	1.97		Q			
11+51	11.2097	1.97		Q			
11+52	11.2062	1.97		Q			
11+53	11.2027	1.97		Q			
11+54	11.1993	1.97		Q			
11+55	11.1958	1.97		Q			
11+56	11.1923	1.97		Q			
11+57	11.1889	1.97		Q			
11+58	11.1854	1.97		Q			
11+59	11.1820	1.97		Q			
12+ 0	11.1785	1.97		Q			
12+ 1	11.1750	1.97		Q			
12+ 2	11.1716	1.97		Q			
12+ 3	11.1681	1.97		Q			
12+ 4	11.1647	1.97		Q			
12+ 5	11.1612	1.96		Q			
12+ 6	11.1578	1.96		Q			
12+ 7	11.1543	1.96		Q			
12+ 8	11.1508	1.96		Q			
12+ 9	11.1474	1.96		Q			
12+10	11.1439	1.96		Q			
12+11	11.1405	1.96		Q			

12+12	11.1371	1.96					
12+13	11.1336	1.96					
12+14	11.1302	1.96					
12+15	11.1267	1.96					
12+16	11.1233	1.96					
12+17	11.1198	1.96					
12+18	11.1164	1.96					
12+19	11.1129	1.96					
12+20	11.1095	1.96					
12+21	11.1061	1.95					
12+22	11.1026	1.95					
12+23	11.0992	1.95					
12+24	11.0958	1.95					
12+25	11.0923	1.95					
12+26	11.0889	1.95					
12+27	11.0855	1.95					
12+28	11.0820	1.95					
12+29	11.0786	1.95					
12+30	11.0752	1.95					
12+31	11.0717	1.95					
12+32	11.0683	1.95					
12+33	11.0649	1.95					
12+34	11.0615	1.95					
12+35	11.0580	1.95					
12+36	11.0546	1.95					
12+37	11.0512	1.95					
12+38	11.0478	1.94					
12+39	11.0444	1.94					
12+40	11.0409	1.94					
12+41	11.0375	1.94					
12+42	11.0341	1.94					
12+43	11.0307	1.94					
12+44	11.0273	1.94					
12+45	11.0239	1.94					
12+46	11.0205	1.94					
12+47	11.0170	1.94					
12+48	11.0136	1.94					
12+49	11.0102	1.94					
12+50	11.0068	1.94					
12+51	11.0034	1.94					
12+52	11.0000	1.94					
12+53	10.9966	1.94					
12+54	10.9932	1.93					
12+55	10.9898	1.93					
12+56	10.9864	1.93					
12+57	10.9830	1.93					
12+58	10.9796	1.93					
12+59	10.9762	1.93					
13+ 0	10.9728	1.93					
13+ 1	10.9694	1.93					
13+ 2	10.9660	1.93					
13+ 3	10.9626	1.93					
13+ 4	10.9592	1.93					
13+ 5	10.9558	1.93					
13+ 6	10.9524	1.93					
13+ 7	10.9491	1.93					
13+ 8	10.9457	1.93					
13+ 9	10.9423	1.93					
13+10	10.9389	1.93					
13+11	10.9355	1.92					
13+12	10.9321	1.92					
13+13	10.9287	1.92					
13+14	10.9254	1.92					
13+15	10.9220	1.92					
13+16	10.9186	1.92					
13+17	10.9152	1.92					
13+18	10.9118	1.92					
13+19	10.9085	1.92					
13+20	10.9051	1.92					
13+21	10.9017	1.92					
13+22	10.8983	1.92					

13+23	10.8950	1.92	Q			
13+24	10.8916	1.92	Q			
13+25	10.8882	1.92	Q			
13+26	10.8849	1.92	Q			
13+27	10.8815	1.92	Q			
13+28	10.8781	1.91	Q			
13+29	10.8748	1.91	Q			
13+30	10.8714	1.91	Q			
13+31	10.8680	1.91	Q			
13+32	10.8647	1.91	Q			
13+33	10.8613	1.91	Q			
13+34	10.8579	1.91	Q			
13+35	10.8546	1.91	Q			
13+36	10.8512	1.91	Q			
13+37	10.8479	1.91	Q			
13+38	10.8445	1.91	Q			
13+39	10.8411	1.91	Q			
13+40	10.8378	1.91	Q			
13+41	10.8344	1.91	Q			
13+42	10.8311	1.91	Q			
13+43	10.8277	1.91	Q			
13+44	10.8244	1.91	Q			
13+45	10.8210	1.90	Q			
13+46	10.8177	1.90	Q			
13+47	10.8143	1.90	Q			
13+48	10.8110	1.90	Q			
13+49	10.8076	1.90	Q			
13+50	10.8043	1.90	Q			
13+51	10.8009	1.90	Q			
13+52	10.7976	1.90	Q			
13+53	10.7943	1.90	Q			
13+54	10.7909	1.90	Q			
13+55	10.7876	1.90	Q			
13+56	10.7842	1.90	Q			
13+57	10.7809	1.90	Q			
13+58	10.7776	1.90	Q			
13+59	10.7742	1.90	Q			
14+ 0	10.7709	1.90	Q			
14+ 1	10.7676	1.90	Q			
14+ 2	10.7642	1.89	Q			
14+ 3	10.7609	1.89	Q			
14+ 4	10.7576	1.89	Q			
14+ 5	10.7542	1.89	Q			
14+ 6	10.7509	1.89	Q			
14+ 7	10.7476	1.89	Q			
14+ 8	10.7443	1.89	Q			
14+ 9	10.7409	1.89	Q			
14+10	10.7376	1.89	Q			
14+11	10.7343	1.89	Q			
14+12	10.7310	1.89	Q			
14+13	10.7276	1.89	Q			
14+14	10.7243	1.89	Q			
14+15	10.7210	1.89	Q			
14+16	10.7177	1.89	Q			
14+17	10.7144	1.89	Q			
14+18	10.7111	1.89	Q			
14+19	10.7077	1.88	Q			
14+20	10.7044	1.88	Q			
14+21	10.7011	1.88	Q			
14+22	10.6978	1.88	Q			
14+23	10.6945	1.88	Q			
14+24	10.6912	1.88	Q			
14+25	10.6879	1.88	Q			
14+26	10.6846	1.88	Q			
14+27	10.6813	1.88	Q			
14+28	10.6780	1.88	Q			
14+29	10.6747	1.88	Q			
14+30	10.6713	1.88	Q			
14+31	10.6680	1.88	Q			
14+32	10.6647	1.88	Q			
14+33	10.6614	1.88	Q			

14+34	10.6581	1.88		Q			
14+35	10.6548	1.88		Q			
14+36	10.6515	1.87		Q			
14+37	10.6483	1.87		Q			
14+38	10.6450	1.87		Q			
14+39	10.6417	1.87		Q			
14+40	10.6384	1.87		Q			
14+41	10.6351	1.87		Q			
14+42	10.6318	1.87		Q			
14+43	10.6285	1.87		Q			
14+44	10.6252	1.87		Q			
14+45	10.6219	1.87		Q			
14+46	10.6186	1.87		Q			
14+47	10.6153	1.87		Q			
14+48	10.6121	1.87		Q			
14+49	10.6088	1.87		Q			
14+50	10.6055	1.87		Q			
14+51	10.6022	1.87		Q			
14+52	10.5989	1.87		Q			
14+53	10.5956	1.87		Q			
14+54	10.5924	1.86		Q			
14+55	10.5891	1.86		Q			
14+56	10.5858	1.86		Q			
14+57	10.5825	1.86		Q			
14+58	10.5793	1.86		Q			
14+59	10.5760	1.86		Q			
15+ 0	10.5727	1.86		Q			
15+ 1	10.5694	1.86		Q			
15+ 2	10.5662	1.86		Q			
15+ 3	10.5629	1.86		Q			
15+ 4	10.5596	1.86		Q			
15+ 5	10.5564	1.86		Q			
15+ 6	10.5531	1.86		Q			
15+ 7	10.5498	1.86		Q			
15+ 8	10.5466	1.86		Q			
15+ 9	10.5433	1.86		Q			
15+10	10.5400	1.86		Q			
15+11	10.5368	1.85		Q			
15+12	10.5335	1.85		Q			
15+13	10.5303	1.85		Q			
15+14	10.5270	1.85		Q			
15+15	10.5237	1.85		Q			
15+16	10.5205	1.85		Q			
15+17	10.5172	1.85		Q			
15+18	10.5140	1.85		Q			
15+19	10.5107	1.85		Q			
15+20	10.5075	1.85		Q			
15+21	10.5042	1.85		Q			
15+22	10.5010	1.85		Q			
15+23	10.4977	1.85		Q			
15+24	10.4945	1.85		Q			
15+25	10.4912	1.85		Q			
15+26	10.4880	1.85		Q			
15+27	10.4847	1.85		Q			
15+28	10.4815	1.84		Q			
15+29	10.4782	1.84		Q			
15+30	10.4750	1.84		Q			
15+31	10.4717	1.84		Q			
15+32	10.4685	1.84		Q			
15+33	10.4653	1.84		Q			
15+34	10.4620	1.84		Q			
15+35	10.4588	1.84		Q			
15+36	10.4556	1.84		Q			
15+37	10.4523	1.84		Q			
15+38	10.4491	1.84		Q			
15+39	10.4458	1.84		Q			
15+40	10.4426	1.84		Q			
15+41	10.4394	1.84		Q			
15+42	10.4362	1.84		Q			
15+43	10.4329	1.84		Q			
15+44	10.4297	1.84		Q			

15+45	10.4265	1.84	Q				
15+46	10.4232	1.83	Q				
15+47	10.4200	1.83	Q				
15+48	10.4168	1.83	Q				
15+49	10.4136	1.83	Q				
15+50	10.4103	1.83	Q				
15+51	10.4071	1.83	Q				
15+52	10.4039	1.83	Q				
15+53	10.4007	1.83	Q				
15+54	10.3975	1.83	Q				
15+55	10.3942	1.83	Q				
15+56	10.3910	1.83	Q				
15+57	10.3878	1.83	Q				
15+58	10.3846	1.83	Q				
15+59	10.3814	1.83	Q				
16+ 0	10.3782	1.83	Q				
16+ 1	10.3750	1.83	Q				
16+ 2	10.3717	1.83	Q				
16+ 3	10.3685	1.83	Q				
16+ 4	10.3653	1.82	Q				
16+ 5	10.3621	1.82	Q				
16+ 6	10.3589	1.82	Q				
16+ 7	10.3557	1.82	Q				
16+ 8	10.3525	1.82	Q				
16+ 9	10.3493	1.82	Q				
16+10	10.3461	1.82	Q				
16+11	10.3429	1.82	Q				
16+12	10.3397	1.82	Q				
16+13	10.3365	1.82	Q				
16+14	10.3333	1.82	Q				
16+15	10.3301	1.82	Q				
16+16	10.3269	1.82	Q				
16+17	10.3237	1.82	Q				
16+18	10.3205	1.82	Q				
16+19	10.3173	1.82	Q				
16+20	10.3141	1.82	Q				
16+21	10.3109	1.81	Q				
16+22	10.3077	1.81	Q				
16+23	10.3045	1.81	Q				
16+24	10.3014	1.81	Q				
16+25	10.2982	1.81	Q				
16+26	10.2950	1.81	Q				
16+27	10.2918	1.81	Q				
16+28	10.2886	1.81	Q				
16+29	10.2854	1.81	Q				
16+30	10.2822	1.81	Q				
16+31	10.2791	1.81	Q				
16+32	10.2759	1.81	Q				
16+33	10.2727	1.81	Q				
16+34	10.2695	1.81	Q				
16+35	10.2663	1.81	Q				
16+36	10.2632	1.81	Q				
16+37	10.2600	1.81	Q				
16+38	10.2568	1.81	Q				
16+39	10.2536	1.80	Q				
16+40	10.2505	1.80	Q				
16+41	10.2473	1.80	Q				
16+42	10.2441	1.80	Q				
16+43	10.2410	1.80	Q				
16+44	10.2378	1.80	Q				
16+45	10.2346	1.80	Q				
16+46	10.2314	1.80	Q				
16+47	10.2283	1.80	Q				
16+48	10.2259	1.80	Q				
16+49	10.2240	1.80	Q				
16+50	10.2223	1.80	Q				
16+51	10.2206	1.80	Q				
16+52	10.2189	1.80	Q				
16+53	10.2173	1.80	Q				
16+54	10.2156	1.80	Q				
16+55	10.2139	1.80	Q				

16+56	10.2122	1.80		Q			
16+57	10.2106	1.80		Q			
16+58	10.2089	1.80		Q			
16+59	10.2072	1.80		Q			
17+ 0	10.2055	1.80		Q			
17+ 1	10.2039	1.80		Q			
17+ 2	10.2022	1.80		Q			
17+ 3	10.2005	1.80		Q			
17+ 4	10.1989	1.80		Q			
17+ 5	10.1972	1.79		Q			
17+ 6	10.1955	1.79		Q			
17+ 7	10.1938	1.79		Q			
17+ 8	10.1922	1.79		Q			
17+ 9	10.1905	1.79		Q			
17+10	10.1888	1.79		Q			
17+11	10.1872	1.79		Q			
17+12	10.1855	1.79		Q			
17+13	10.1838	1.79		Q			
17+14	10.1821	1.79		Q			
17+15	10.1805	1.79		Q			
17+16	10.1788	1.79		Q			
17+17	10.1771	1.79		Q			
17+18	10.1755	1.79		Q			
17+19	10.1738	1.79		Q			
17+20	10.1721	1.79		Q			
17+21	10.1705	1.79		Q			
17+22	10.1688	1.79		Q			
17+23	10.1671	1.79		Q			
17+24	10.1655	1.79		Q			
17+25	10.1638	1.79		Q			
17+26	10.1621	1.79		Q			
17+27	10.1605	1.79		Q			
17+28	10.1588	1.79		Q			
17+29	10.1571	1.79		Q			
17+30	10.1555	1.79		Q			
17+31	10.1538	1.79		Q			
17+32	10.1521	1.79		Q			
17+33	10.1505	1.79		Q			
17+34	10.1488	1.79		Q			
17+35	10.1471	1.79		Q			
17+36	10.1455	1.79		Q			
17+37	10.1438	1.79		Q			
17+38	10.1422	1.79		Q			
17+39	10.1405	1.78		Q			
17+40	10.1388	1.78		Q			
17+41	10.1372	1.78		Q			
17+42	10.1355	1.78		Q			
17+43	10.1338	1.78		Q			
17+44	10.1322	1.78		Q			
17+45	10.1305	1.78		Q			
17+46	10.1289	1.78		Q			
17+47	10.1272	1.78		Q			
17+48	10.1255	1.78		Q			
17+49	10.1239	1.78		Q			
17+50	10.1222	1.78		Q			
17+51	10.1206	1.78		Q			
17+52	10.1189	1.78		Q			
17+53	10.1172	1.78		Q			
17+54	10.1156	1.78		Q			
17+55	10.1139	1.78		Q			
17+56	10.1123	1.78		Q			
17+57	10.1106	1.78		Q			
17+58	10.1089	1.78		Q			
17+59	10.1073	1.78		Q			
18+ 0	10.1056	1.78		Q			
18+ 1	10.1040	1.78		Q			
18+ 2	10.1023	1.78		Q			
18+ 3	10.1007	1.78		Q			
18+ 4	10.0990	1.78		Q			
18+ 5	10.0973	1.78		Q			
18+ 6	10.0957	1.78		Q			

18+ 7	10.0940	1.78	Q				
18+ 8	10.0924	1.78	Q				
18+ 9	10.0907	1.78	Q				
18+10	10.0891	1.78	Q				
18+11	10.0874	1.78	Q				
18+12	10.0858	1.78	Q				
18+13	10.0841	1.77	Q				
18+14	10.0825	1.77	Q				
18+15	10.0808	1.77	Q				
18+16	10.0791	1.77	Q				
18+17	10.0775	1.77	Q				
18+18	10.0758	1.77	Q				
18+19	10.0742	1.77	Q				
18+20	10.0725	1.77	Q				
18+21	10.0709	1.77	Q				
18+22	10.0692	1.77	Q				
18+23	10.0676	1.77	Q				
18+24	10.0659	1.77	Q				
18+25	10.0643	1.77	Q				
18+26	10.0626	1.77	Q				
18+27	10.0610	1.77	Q				
18+28	10.0593	1.77	Q				
18+29	10.0577	1.77	Q				
18+30	10.0560	1.77	Q				
18+31	10.0544	1.77	Q				
18+32	10.0527	1.77	Q				
18+33	10.0511	1.77	Q				
18+34	10.0494	1.77	Q				
18+35	10.0478	1.77	Q				
18+36	10.0461	1.77	Q				
18+37	10.0445	1.77	Q				
18+38	10.0429	1.77	Q				
18+39	10.0412	1.77	Q				
18+40	10.0396	1.77	Q				
18+41	10.0379	1.77	Q				
18+42	10.0363	1.77	Q				
18+43	10.0346	1.77	Q				
18+44	10.0330	1.77	Q				
18+45	10.0313	1.77	Q				
18+46	10.0297	1.77	Q				
18+47	10.0280	1.77	Q				
18+48	10.0264	1.76	Q				
18+49	10.0248	1.76	Q				
18+50	10.0231	1.76	Q				
18+51	10.0215	1.76	Q				
18+52	10.0198	1.76	Q				
18+53	10.0182	1.76	Q				
18+54	10.0165	1.76	Q				
18+55	10.0149	1.76	Q				
18+56	10.0133	1.76	Q				
18+57	10.0116	1.76	Q				
18+58	10.0100	1.76	Q				
18+59	10.0083	1.76	Q				
19+ 0	10.0067	1.76	Q				
19+ 1	10.0050	1.76	Q				
19+ 2	10.0034	1.76	Q				
19+ 3	10.0018	1.76	Q				
19+ 4	10.0001	1.76	Q				
19+ 5	9.9985	1.76	Q				
19+ 6	9.9968	1.76	Q				
19+ 7	9.9952	1.76	Q				
19+ 8	9.9936	1.76	Q				
19+ 9	9.9919	1.76	Q				
19+10	9.9903	1.76	Q				
19+11	9.9887	1.76	Q				
19+12	9.9870	1.76	Q				
19+13	9.9854	1.76	Q				
19+14	9.9837	1.76	Q				
19+15	9.9821	1.76	Q				
19+16	9.9805	1.76	Q				
19+17	9.9788	1.76	Q				

19+18	9.9772	1.76		Q				
19+19	9.9756	1.76		Q				
19+20	9.9739	1.76		Q				
19+21	9.9723	1.76		Q				
19+22	9.9707	1.76		Q				
19+23	9.9690	1.75		Q				
19+24	9.9674	1.75		Q				
19+25	9.9658	1.75		Q				
19+26	9.9641	1.75		Q				
19+27	9.9625	1.75		Q				
19+28	9.9609	1.75		Q				
19+29	9.9592	1.75		Q				
19+30	9.9576	1.75		Q				
19+31	9.9560	1.75		Q				
19+32	9.9543	1.75		Q				
19+33	9.9527	1.75		Q				
19+34	9.9511	1.75		Q				
19+35	9.9494	1.75		Q				
19+36	9.9478	1.75		Q				
19+37	9.9462	1.75		Q				
19+38	9.9445	1.75		Q				
19+39	9.9429	1.75		Q				
19+40	9.9413	1.75		Q				
19+41	9.9396	1.75		Q				
19+42	9.9380	1.75		Q				
19+43	9.9364	1.75		Q				
19+44	9.9348	1.75		Q				
19+45	9.9331	1.75		Q				
19+46	9.9315	1.75		Q				
19+47	9.9299	1.75		Q				
19+48	9.9282	1.75		Q				
19+49	9.9266	1.75		Q				
19+50	9.9250	1.75		Q				
19+51	9.9234	1.75		Q				
19+52	9.9217	1.75		Q				
19+53	9.9201	1.75		Q				
19+54	9.9185	1.75		Q				
19+55	9.9168	1.75		Q				
19+56	9.9152	1.75		Q				
19+57	9.9136	1.74		Q				
19+58	9.9120	1.74		Q				
19+59	9.9103	1.74		Q				
20+ 0	9.9087	1.74		Q				
20+ 1	9.9071	1.74		Q				
20+ 2	9.9055	1.74		Q				
20+ 3	9.9038	1.74		Q				
20+ 4	9.9022	1.74		Q				
20+ 5	9.9006	1.74		Q				
20+ 6	9.8990	1.74		Q				
20+ 7	9.8974	1.74		Q				
20+ 8	9.8957	1.74		Q				
20+ 9	9.8941	1.74		Q				
20+10	9.8925	1.74		Q				
20+11	9.8909	1.74		Q				
20+12	9.8892	1.74		Q				
20+13	9.8876	1.74		Q				
20+14	9.8860	1.74		Q				
20+15	9.8844	1.74		Q				
20+16	9.8828	1.74		Q				
20+17	9.8811	1.74		Q				
20+18	9.8795	1.74		Q				
20+19	9.8779	1.74		Q				
20+20	9.8763	1.74		Q				
20+21	9.8747	1.74		Q				
20+22	9.8730	1.74		Q				
20+23	9.8714	1.74		Q				
20+24	9.8698	1.74		Q				
20+25	9.8682	1.74		Q				
20+26	9.8666	1.74		Q				
20+27	9.8649	1.74		Q				
20+28	9.8633	1.74		Q				

20+29	9.8617	1.74	QI				
20+30	9.8601	1.74	QI				
20+31	9.8585	1.74	QI				
20+32	9.8569	1.73	QI				
20+33	9.8552	1.73	QI				
20+34	9.8536	1.73	QI				
20+35	9.8520	1.73	QI				
20+36	9.8504	1.73	QI				
20+37	9.8488	1.73	QI				
20+38	9.8472	1.73	QI				
20+39	9.8456	1.73	QI				
20+40	9.8439	1.73	QI				
20+41	9.8423	1.73	QI				
20+42	9.8407	1.73	QI				
20+43	9.8391	1.73	QI				
20+44	9.8375	1.73	QI				
20+45	9.8359	1.73	QI				
20+46	9.8343	1.73	QI				
20+47	9.8326	1.73	QI				
20+48	9.8310	1.73	QI				
20+49	9.8294	1.73	QI				
20+50	9.8278	1.73	QI				
20+51	9.8262	1.73	QI				
20+52	9.8246	1.73	QI				
20+53	9.8230	1.73	QI				
20+54	9.8214	1.73	QI				
20+55	9.8198	1.73	QI				
20+56	9.8181	1.73	QI				
20+57	9.8165	1.73	QI				
20+58	9.8149	1.73	QI				
20+59	9.8133	1.73	QI				
21+ 0	9.8117	1.73	QI				
21+ 1	9.8101	1.73	QI				
21+ 2	9.8085	1.73	QI				
21+ 3	9.8069	1.73	QI				
21+ 4	9.8053	1.73	QI				
21+ 5	9.8037	1.73	QI				
21+ 6	9.8021	1.73	QI				
21+ 7	9.8005	1.73	QI				
21+ 8	9.7988	1.72	QI				
21+ 9	9.7972	1.72	QI				
21+10	9.7956	1.72	QI				
21+11	9.7940	1.72	QI				
21+12	9.7924	1.72	QI				
21+13	9.7908	1.72	QI				
21+14	9.7892	1.72	QI				
21+15	9.7876	1.72	QI				
21+16	9.7860	1.72	QI				
21+17	9.7844	1.72	QI				
21+18	9.7828	1.72	QI				
21+19	9.7812	1.72	QI				
21+20	9.7796	1.72	QI				
21+21	9.7780	1.72	QI				
21+22	9.7764	1.72	QI				
21+23	9.7748	1.72	QI				
21+24	9.7732	1.72	QI				
21+25	9.7716	1.72	QI				
21+26	9.7700	1.72	QI				
21+27	9.7684	1.72	QI				
21+28	9.7668	1.72	QI				
21+29	9.7652	1.72	QI				
21+30	9.7636	1.72	QI				
21+31	9.7620	1.72	QI				
21+32	9.7604	1.72	QI				
21+33	9.7588	1.72	QI				
21+34	9.7572	1.72	QI				
21+35	9.7556	1.72	QI				
21+36	9.7540	1.72	QI				
21+37	9.7524	1.72	QI				
21+38	9.7508	1.72	QI				
21+39	9.7492	1.72	QI				

21+40	9.7476	1.72		Q				
21+41	9.7460	1.72		Q				
21+42	9.7444	1.72		Q				
21+43	9.7428	1.71		Q				
21+44	9.7412	1.71		Q				
21+45	9.7396	1.71		Q				
21+46	9.7380	1.71		Q				
21+47	9.7364	1.71		Q				
21+48	9.7348	1.71		Q				
21+49	9.7332	1.71		Q				
21+50	9.7316	1.71		Q				
21+51	9.7300	1.71		Q				
21+52	9.7284	1.71		Q				
21+53	9.7268	1.71		Q				
21+54	9.7252	1.71		Q				
21+55	9.7236	1.71		Q				
21+56	9.7220	1.71		Q				
21+57	9.7204	1.71		Q				
21+58	9.7188	1.71		Q				
21+59	9.7172	1.71		Q				
22+ 0	9.7156	1.71		Q				
22+ 1	9.7141	1.71		Q				
22+ 2	9.7125	1.71		Q				
22+ 3	9.7109	1.71		Q				
22+ 4	9.7093	1.71		Q				
22+ 5	9.7077	1.71		Q				
22+ 6	9.7061	1.71		Q				
22+ 7	9.7045	1.71		Q				
22+ 8	9.7029	1.71		Q				
22+ 9	9.7013	1.71		Q				
22+10	9.6997	1.71		Q				
22+11	9.6981	1.71		Q				
22+12	9.6966	1.71		Q				
22+13	9.6950	1.71		Q				
22+14	9.6934	1.71		Q				
22+15	9.6918	1.71		Q				
22+16	9.6902	1.71		Q				
22+17	9.6886	1.71		Q				
22+18	9.6870	1.71		Q				
22+19	9.6854	1.70		Q				
22+20	9.6838	1.70		Q				
22+21	9.6823	1.70		Q				
22+22	9.6807	1.70		Q				
22+23	9.6791	1.70		Q				
22+24	9.6775	1.70		Q				
22+25	9.6759	1.70		Q				
22+26	9.6743	1.70		Q				
22+27	9.6727	1.70		Q				
22+28	9.6711	1.70		Q				
22+29	9.6696	1.70		Q				
22+30	9.6680	1.70		Q				
22+31	9.6664	1.70		Q				
22+32	9.6648	1.70		Q				
22+33	9.6632	1.70		Q				
22+34	9.6616	1.70		Q				
22+35	9.6600	1.70		Q				
22+36	9.6585	1.70		Q				
22+37	9.6568	1.70		Q				
22+38	9.6552	1.70		Q				
22+39	9.6535	1.70		Q				
22+40	9.6518	1.70		Q				
22+41	9.6502	1.70		Q				
22+42	9.6485	1.70		Q				
22+43	9.6468	1.70		Q				
22+44	9.6452	1.70		Q				
22+45	9.6435	1.70		Q				
22+46	9.6419	1.70		Q				
22+47	9.6402	1.70		Q				
22+48	9.6385	1.70		Q				
22+49	9.6369	1.70		Q				
22+50	9.6352	1.70		Q				

22+51	9.6336	1.70		Q			
22+52	9.6319	1.70		Q			
22+53	9.6303	1.70		Q			
22+54	9.6286	1.69		Q			
22+55	9.6269	1.69		Q			
22+56	9.6253	1.69		Q			
22+57	9.6236	1.69		Q			
22+58	9.6220	1.69		Q			
22+59	9.6203	1.69		Q			
23+ 0	9.6187	1.69		Q			
23+ 1	9.6170	1.69		Q			
23+ 2	9.6153	1.69		Q			
23+ 3	9.6137	1.69		Q			
23+ 4	9.6120	1.69		Q			
23+ 5	9.6104	1.69		Q			
23+ 6	9.6087	1.69		Q			
23+ 7	9.6071	1.69		Q			
23+ 8	9.6054	1.69		Q			
23+ 9	9.6038	1.69		Q			
23+10	9.6021	1.69		Q			
23+11	9.6005	1.69		Q			
23+12	9.5988	1.69		Q			
23+13	9.5971	1.69		Q			
23+14	9.5955	1.69		Q			
23+15	9.5938	1.69		Q			
23+16	9.5922	1.69		Q			
23+17	9.5905	1.69		Q			
23+18	9.5889	1.69		Q			
23+19	9.5872	1.69		Q			
23+20	9.5856	1.69		Q			
23+21	9.5839	1.69		Q			
23+22	9.5823	1.69		Q			
23+23	9.5806	1.69		Q			
23+24	9.5790	1.69		Q			
23+25	9.5773	1.69		Q			
23+26	9.5757	1.69		Q			
23+27	9.5740	1.69		Q			
23+28	9.5724	1.68		Q			
23+29	9.5707	1.68		Q			
23+30	9.5691	1.68		Q			
23+31	9.5675	1.68		Q			
23+32	9.5658	1.68		Q			
23+33	9.5642	1.68		Q			
23+34	9.5625	1.68		Q			
23+35	9.5609	1.68		Q			
23+36	9.5592	1.68		Q			
23+37	9.5576	1.68		Q			
23+38	9.5559	1.68		Q			
23+39	9.5543	1.68		Q			
23+40	9.5526	1.68		Q			
23+41	9.5510	1.68		Q			
23+42	9.5493	1.68		Q			
23+43	9.5477	1.68		Q			
23+44	9.5461	1.68		Q			
23+45	9.5444	1.68		Q			
23+46	9.5428	1.68		Q			
23+47	9.5411	1.68		Q			
23+48	9.5395	1.68		Q			
23+49	9.5378	1.68		Q			
23+50	9.5362	1.68		Q			
23+51	9.5346	1.68		Q			
23+52	9.5329	1.68		Q			
23+53	9.5313	1.68		Q			
23+54	9.5296	1.68		Q			
23+55	9.5280	1.68		Q			
23+56	9.5264	1.68		Q			
23+57	9.5247	1.68		Q			
23+58	9.5231	1.68		Q			
23+59	9.5214	1.68		Q			
24+ 0	9.5198	1.68		Q			
24+ 1	9.5182	1.68		Q			

24+ 2	9.5165	1.68	QI				
24+ 3	9.5149	1.67	QI				
24+ 4	9.5132	1.67	QI				
24+ 5	9.5116	1.67	QI				
24+ 6	9.5100	1.67	QI				
24+ 7	9.5083	1.67	QI				
24+ 8	9.5067	1.67	QI				
24+ 9	9.5051	1.67	QI				
24+10	9.5034	1.67	QI				
24+11	9.5018	1.67	QI				
24+12	9.5002	1.67	QI				
24+13	9.4985	1.67	QI				
24+14	9.4969	1.67	QI				
24+15	9.4952	1.67	QI				
24+16	9.4936	1.67	QI				
24+17	9.4920	1.67	QI				
24+18	9.4903	1.67	QI				
24+19	9.4887	1.67	QI				
24+20	9.4871	1.67	QI				
24+21	9.4854	1.67	QI				
24+22	9.4838	1.67	QI				
24+23	9.4822	1.67	QI				
24+24	9.4805	1.67	QI				
24+25	9.4789	1.67	QI				
24+26	9.4773	1.67	QI				
24+27	9.4756	1.67	QI				
24+28	9.4740	1.67	QI				
24+29	9.4724	1.67	QI				
24+30	9.4708	1.67	QI				
24+31	9.4691	1.67	QI				
24+32	9.4675	1.67	QI				
24+33	9.4659	1.67	QI				
24+34	9.4642	1.67	QI				
24+35	9.4626	1.67	QI				
24+36	9.4610	1.67	QI				
24+37	9.4593	1.67	QI				
24+38	9.4577	1.66	QI				
24+39	9.4561	1.66	QI				
24+40	9.4545	1.66	QI				
24+41	9.4528	1.66	QI				
24+42	9.4512	1.66	QI				
24+43	9.4496	1.66	QI				
24+44	9.4480	1.66	QI				
24+45	9.4463	1.66	QI				
24+46	9.4447	1.66	QI				
24+47	9.4431	1.66	QI				
24+48	9.4414	1.66	QI				
24+49	9.4398	1.66	QI				
24+50	9.4382	1.66	QI				
24+51	9.4366	1.66	QI				
24+52	9.4349	1.66	QI				
24+53	9.4333	1.66	QI				
24+54	9.4317	1.66	QI				
24+55	9.4301	1.66	QI				
24+56	9.4285	1.66	QI				
24+57	9.4268	1.66	QI				
24+58	9.4252	1.66	QI				
24+59	9.4236	1.66	QI				
25+ 0	9.4220	1.66	QI				
25+ 1	9.4203	1.66	QI				
25+ 2	9.4187	1.66	QI				
25+ 3	9.4171	1.66	QI				
25+ 4	9.4155	1.66	QI				
25+ 5	9.4139	1.66	QI				
25+ 6	9.4122	1.66	QI				
25+ 7	9.4106	1.66	QI				
25+ 8	9.4090	1.66	QI				
25+ 9	9.4074	1.66	QI				
25+10	9.4058	1.66	QI				
25+11	9.4041	1.66	QI				
25+12	9.4025	1.66	QI				

25+13	9.4009	1.65	QI				
25+14	9.3993	1.65	QI				
25+15	9.3977	1.65	QI				
25+16	9.3960	1.65	QI				
25+17	9.3944	1.65	QI				
25+18	9.3928	1.65	QI				
25+19	9.3912	1.65	QI				
25+20	9.3896	1.65	QI				
25+21	9.3880	1.65	QI				
25+22	9.3863	1.65	QI				
25+23	9.3847	1.65	QI				
25+24	9.3831	1.65	QI				
25+25	9.3815	1.65	QI				
25+26	9.3799	1.65	QI				
25+27	9.3783	1.65	QI				
25+28	9.3766	1.65	QI				
25+29	9.3750	1.65	QI				
25+30	9.3734	1.65	QI				
25+31	9.3718	1.65	QI				
25+32	9.3702	1.65	QI				
25+33	9.3686	1.65	QI				
25+34	9.3670	1.65	QI				
25+35	9.3654	1.65	QI				
25+36	9.3637	1.65	QI				
25+37	9.3621	1.65	QI				
25+38	9.3605	1.65	QI				
25+39	9.3589	1.65	QI				
25+40	9.3573	1.65	QI				
25+41	9.3557	1.65	QI				
25+42	9.3541	1.65	QI				
25+43	9.3525	1.65	QI				
25+44	9.3509	1.65	QI				
25+45	9.3492	1.65	QI				
25+46	9.3476	1.65	QI				
25+47	9.3460	1.65	QI				
25+48	9.3444	1.64	QI				
25+49	9.3428	1.64	QI				
25+50	9.3412	1.64	QI				
25+51	9.3396	1.64	QI				
25+52	9.3380	1.64	QI				
25+53	9.3364	1.64	QI				
25+54	9.3348	1.64	QI				
25+55	9.3332	1.64	QI				
25+56	9.3316	1.64	QI				
25+57	9.3299	1.64	QI				
25+58	9.3283	1.64	QI				
25+59	9.3267	1.64	QI				
26+ 0	9.3251	1.64	QI				
26+ 1	9.3235	1.64	QI				
26+ 2	9.3219	1.64	QI				
26+ 3	9.3203	1.64	QI				
26+ 4	9.3187	1.64	QI				
26+ 5	9.3171	1.64	QI				
26+ 6	9.3155	1.64	QI				
26+ 7	9.3139	1.64	QI				
26+ 8	9.3123	1.64	QI				
26+ 9	9.3107	1.64	QI				
26+10	9.3091	1.64	QI				
26+11	9.3075	1.64	QI				
26+12	9.3059	1.64	QI				
26+13	9.3043	1.64	QI				
26+14	9.3027	1.64	QI				
26+15	9.3011	1.64	QI				
26+16	9.2995	1.64	QI				
26+17	9.2979	1.64	QI				
26+18	9.2963	1.64	QI				
26+19	9.2947	1.64	QI				
26+20	9.2931	1.64	QI				
26+21	9.2915	1.64	QI				
26+22	9.2899	1.64	QI				
26+23	9.2883	1.63	QI				

26+24	9.2867	1.63	QI				
26+25	9.2851	1.63	QI				
26+26	9.2835	1.63	QI				
26+27	9.2819	1.63	QI				
26+28	9.2803	1.63	QI				
26+29	9.2787	1.63	QI				
26+30	9.2771	1.63	QI				
26+31	9.2755	1.63	QI				
26+32	9.2739	1.63	QI				
26+33	9.2723	1.63	QI				
26+34	9.2707	1.63	QI				
26+35	9.2691	1.63	QI				
26+36	9.2675	1.63	QI				
26+37	9.2659	1.63	QI				
26+38	9.2643	1.63	QI				
26+39	9.2627	1.63	QI				
26+40	9.2611	1.63	QI				
26+41	9.2595	1.63	QI				
26+42	9.2579	1.63	QI				
26+43	9.2563	1.63	QI				
26+44	9.2547	1.63	QI				
26+45	9.2532	1.63	QI				
26+46	9.2516	1.63	QI				
26+47	9.2500	1.63	QI				
26+48	9.2484	1.63	QI				
26+49	9.2468	1.63	QI				
26+50	9.2452	1.63	QI				
26+51	9.2436	1.63	QI				
26+52	9.2420	1.63	QI				
26+53	9.2404	1.63	QI				
26+54	9.2388	1.63	QI				
26+55	9.2372	1.63	QI				
26+56	9.2356	1.63	QI				
26+57	9.2341	1.63	QI				
26+58	9.2325	1.63	QI				
26+59	9.2309	1.62	QI				
27+ 0	9.2293	1.62	QI				
27+ 1	9.2277	1.62	QI				
27+ 2	9.2261	1.62	QI				
27+ 3	9.2245	1.62	QI				
27+ 4	9.2229	1.62	QI				
27+ 5	9.2213	1.62	QI				
27+ 6	9.2198	1.62	QI				
27+ 7	9.2182	1.62	QI				
27+ 8	9.2166	1.62	QI				
27+ 9	9.2150	1.62	QI				
27+10	9.2134	1.62	QI				
27+11	9.2118	1.62	QI				
27+12	9.2102	1.62	QI				
27+13	9.2087	1.62	QI				
27+14	9.2071	1.62	QI				
27+15	9.2055	1.62	QI				
27+16	9.2039	1.62	QI				
27+17	9.2023	1.62	QI				
27+18	9.2007	1.62	QI				
27+19	9.1991	1.62	QI				
27+20	9.1976	1.62	QI				
27+21	9.1960	1.62	QI				
27+22	9.1944	1.62	QI				
27+23	9.1928	1.62	QI				
27+24	9.1912	1.62	QI				
27+25	9.1896	1.62	QI				
27+26	9.1881	1.62	QI				
27+27	9.1865	1.62	QI				
27+28	9.1849	1.62	QI				
27+29	9.1833	1.62	QI				
27+30	9.1817	1.62	QI				
27+31	9.1802	1.62	QI				
27+32	9.1786	1.62	QI				
27+33	9.1770	1.62	QI				
27+34	9.1754	1.62	QI				

27+35	9.1738	1.61		Q				
27+36	9.1723	1.61		Q				
27+37	9.1707	1.61		Q				
27+38	9.1691	1.61		Q				
27+39	9.1675	1.61		Q				
27+40	9.1659	1.61		Q				
27+41	9.1644	1.61		Q				
27+42	9.1628	1.61		Q				
27+43	9.1612	1.61		Q				
27+44	9.1596	1.61		Q				
27+45	9.1581	1.61		Q				
27+46	9.1565	1.61		Q				
27+47	9.1549	1.61		Q				
27+48	9.1533	1.61		Q				
27+49	9.1518	1.61		Q				
27+50	9.1502	1.61		Q				
27+51	9.1486	1.61		Q				
27+52	9.1470	1.61		Q				
27+53	9.1455	1.61		Q				
27+54	9.1439	1.61		Q				
27+55	9.1423	1.61		Q				
27+56	9.1407	1.61		Q				
27+57	9.1392	1.61		Q				
27+58	9.1376	1.61		Q				
27+59	9.1360	1.61		Q				
28+ 0	9.1344	1.61		Q				
28+ 1	9.1329	1.61		Q				
28+ 2	9.1313	1.61		Q				
28+ 3	9.1297	1.61		Q				
28+ 4	9.1281	1.61		Q				
28+ 5	9.1266	1.61		Q				
28+ 6	9.1250	1.61		Q				
28+ 7	9.1234	1.61		Q				
28+ 8	9.1219	1.61		Q				
28+ 9	9.1203	1.61		Q				
28+10	9.1187	1.61		Q				
28+11	9.1172	1.60		Q				
28+12	9.1156	1.60		Q				
28+13	9.1140	1.60		Q				
28+14	9.1124	1.60		Q				
28+15	9.1109	1.60		Q				
28+16	9.1093	1.60		Q				
28+17	9.1077	1.60		Q				
28+18	9.1062	1.60		Q				
28+19	9.1046	1.60		Q				
28+20	9.1030	1.60		Q				
28+21	9.1015	1.60		Q				
28+22	9.0999	1.60		Q				
28+23	9.0983	1.60		Q				
28+24	9.0968	1.60		Q				
28+25	9.0952	1.60		Q				
28+26	9.0936	1.60		Q				
28+27	9.0921	1.60		Q				
28+28	9.0904	1.60		Q				
28+29	9.0876	1.60		Q				
28+30	9.0844	1.60		Q				
28+31	9.0811	1.60		Q				
28+32	9.0777	1.60		Q				
28+33	9.0744	1.60		Q				
28+34	9.0711	1.60		Q				
28+35	9.0677	1.60		Q				
28+36	9.0644	1.60		Q				
28+37	9.0611	1.59		Q				
28+38	9.0578	1.59		Q				
28+39	9.0544	1.59		Q				
28+40	9.0511	1.59		Q				
28+41	9.0478	1.59		Q				
28+42	9.0445	1.59		Q				
28+43	9.0411	1.59		Q				
28+44	9.0378	1.59		Q				
28+45	9.0345	1.59		Q				

28+46	9.0312	1.59	Q				
28+47	9.0279	1.59	Q				
28+48	9.0245	1.59	Q				
28+49	9.0212	1.59	Q				
28+50	9.0179	1.59	Q				
28+51	9.0146	1.59	Q				
28+52	9.0113	1.59	Q				
28+53	9.0080	1.59	Q				
28+54	9.0047	1.58	Q				
28+55	9.0014	1.58	Q				
28+56	8.9981	1.58	Q				
28+57	8.9948	1.58	Q				
28+58	8.9915	1.58	Q				
28+59	8.9882	1.58	Q				
29+ 0	8.9849	1.58	Q				
29+ 1	8.9816	1.58	Q				
29+ 2	8.9783	1.58	Q				
29+ 3	8.9750	1.58	Q				
29+ 4	8.9717	1.58	Q				
29+ 5	8.9684	1.58	Q				
29+ 6	8.9651	1.58	Q				
29+ 7	8.9618	1.58	Q				
29+ 8	8.9585	1.58	Q				
29+ 9	8.9552	1.58	Q				
29+10	8.9519	1.58	Q				
29+11	8.9486	1.58	Q				
29+12	8.9453	1.57	Q				
29+13	8.9421	1.57	Q				
29+14	8.9388	1.57	Q				
29+15	8.9355	1.57	Q				
29+16	8.9322	1.57	Q				
29+17	8.9289	1.57	Q				
29+18	8.9256	1.57	Q				
29+19	8.9224	1.57	Q				
29+20	8.9191	1.57	Q				
29+21	8.9158	1.57	Q				
29+22	8.9125	1.57	Q				
29+23	8.9093	1.57	Q				
29+24	8.9060	1.57	Q				
29+25	8.9027	1.57	Q				
29+26	8.8995	1.57	Q				
29+27	8.8962	1.57	Q				
29+28	8.8929	1.57	Q				
29+29	8.8897	1.56	Q				
29+30	8.8864	1.56	Q				
29+31	8.8831	1.56	Q				
29+32	8.8799	1.56	Q				
29+33	8.8766	1.56	Q				
29+34	8.8733	1.56	Q				
29+35	8.8701	1.56	Q				
29+36	8.8668	1.56	Q				
29+37	8.8636	1.56	Q				
29+38	8.8603	1.56	Q				
29+39	8.8571	1.56	Q				
29+40	8.8538	1.56	Q				
29+41	8.8506	1.56	Q				
29+42	8.8473	1.56	Q				
29+43	8.8441	1.56	Q				
29+44	8.8408	1.56	Q				
29+45	8.8376	1.56	Q				
29+46	8.8343	1.55	Q				
29+47	8.8311	1.55	Q				
29+48	8.8278	1.55	Q				
29+49	8.8246	1.55	Q				
29+50	8.8213	1.55	Q				
29+51	8.8181	1.55	Q				
29+52	8.8149	1.55	Q				
29+53	8.8116	1.55	Q				
29+54	8.8084	1.55	Q				
29+55	8.8052	1.55	Q				
29+56	8.8019	1.55	Q				

29+57	8.7987	1.55	Q				
29+58	8.7955	1.55	Q				
29+59	8.7922	1.55	Q				
30+ 0	8.7890	1.55	Q				
30+ 1	8.7858	1.55	Q				
30+ 2	8.7826	1.55	Q				
30+ 3	8.7793	1.55	Q				
30+ 4	8.7761	1.54	Q				
30+ 5	8.7729	1.54	Q				
30+ 6	8.7697	1.54	Q				
30+ 7	8.7664	1.54	Q				
30+ 8	8.7632	1.54	Q				
30+ 9	8.7600	1.54	Q				
30+10	8.7568	1.54	Q				
30+11	8.7536	1.54	Q				
30+12	8.7504	1.54	Q				
30+13	8.7471	1.54	Q				
30+14	8.7439	1.54	Q				
30+15	8.7407	1.54	Q				
30+16	8.7375	1.54	Q				
30+17	8.7343	1.54	Q				
30+18	8.7311	1.54	Q				
30+19	8.7279	1.54	Q				
30+20	8.7247	1.54	Q				
30+21	8.7215	1.54	Q				
30+22	8.7183	1.53	Q				
30+23	8.7151	1.53	Q				
30+24	8.7119	1.53	Q				
30+25	8.7087	1.53	Q				
30+26	8.7055	1.53	Q				
30+27	8.7023	1.53	Q				
30+28	8.6991	1.53	Q				
30+29	8.6959	1.53	Q				
30+30	8.6927	1.53	Q				
30+31	8.6895	1.53	Q				
30+32	8.6863	1.53	Q				
30+33	8.6831	1.53	Q				
30+34	8.6799	1.53	Q				
30+35	8.6767	1.53	Q				
30+36	8.6736	1.53	Q				
30+37	8.6704	1.53	Q				
30+38	8.6672	1.53	Q				
30+39	8.6640	1.53	Q				
30+40	8.6608	1.52	Q				
30+41	8.6576	1.52	Q				
30+42	8.6545	1.52	Q				
30+43	8.6513	1.52	Q				
30+44	8.6481	1.52	Q				
30+45	8.6449	1.52	Q				
30+46	8.6418	1.52	Q				
30+47	8.6386	1.52	Q				
30+48	8.6354	1.52	Q				
30+49	8.6322	1.52	Q				
30+50	8.6291	1.52	Q				
30+51	8.6259	1.52	Q				
30+52	8.6227	1.52	Q				
30+53	8.6196	1.52	Q				
30+54	8.6164	1.52	Q				
30+55	8.6132	1.52	Q				
30+56	8.6101	1.52	Q				
30+57	8.6069	1.51	Q				
30+58	8.6037	1.51	Q				
30+59	8.6006	1.51	Q				
31+ 0	8.5974	1.51	Q				
31+ 1	8.5943	1.51	Q				
31+ 2	8.5911	1.51	Q				
31+ 3	8.5880	1.51	Q				
31+ 4	8.5848	1.51	Q				
31+ 5	8.5817	1.51	Q				
31+ 6	8.5785	1.51	Q				
31+ 7	8.5754	1.51	Q				

31+ 8	8.5722	1.51	Q				
31+ 9	8.5691	1.51	Q				
31+10	8.5659	1.51	Q				
31+11	8.5628	1.51	Q				
31+12	8.5596	1.51	Q				
31+13	8.5565	1.51	Q				
31+14	8.5533	1.51	Q				
31+15	8.5502	1.50	Q				
31+16	8.5471	1.50	Q				
31+17	8.5439	1.50	Q				
31+18	8.5408	1.50	Q				
31+19	8.5376	1.50	Q				
31+20	8.5345	1.50	Q				
31+21	8.5314	1.50	Q				
31+22	8.5282	1.50	Q				
31+23	8.5251	1.50	Q				
31+24	8.5220	1.50	Q				
31+25	8.5188	1.50	Q				
31+26	8.5157	1.50	Q				
31+27	8.5126	1.50	Q				
31+28	8.5095	1.50	Q				
31+29	8.5063	1.50	Q				
31+30	8.5032	1.50	Q				
31+31	8.5001	1.50	Q				
31+32	8.4970	1.50	Q				
31+33	8.4938	1.50	Q				
31+34	8.4907	1.49	Q				
31+35	8.4876	1.49	Q				
31+36	8.4845	1.49	Q				
31+37	8.4814	1.49	Q				
31+38	8.4783	1.49	Q				
31+39	8.4751	1.49	Q				
31+40	8.4720	1.49	Q				
31+41	8.4689	1.49	Q				
31+42	8.4658	1.49	Q				
31+43	8.4627	1.49	Q				
31+44	8.4596	1.49	Q				
31+45	8.4565	1.49	Q				
31+46	8.4534	1.49	Q				
31+47	8.4503	1.49	Q				
31+48	8.4472	1.49	Q				
31+49	8.4441	1.49	Q				
31+50	8.4410	1.49	Q				
31+51	8.4379	1.49	Q				
31+52	8.4348	1.48	Q				
31+53	8.4317	1.48	Q				
31+54	8.4286	1.48	Q				
31+55	8.4255	1.48	Q				
31+56	8.4224	1.48	Q				
31+57	8.4193	1.48	Q				
31+58	8.4162	1.48	Q				
31+59	8.4131	1.48	Q				
32+ 0	8.4100	1.48	Q				
32+ 1	8.4069	1.48	Q				
32+ 2	8.4039	1.48	Q				
32+ 3	8.4008	1.48	Q				
32+ 4	8.3977	1.48	Q				
32+ 5	8.3946	1.48	Q				
32+ 6	8.3915	1.48	Q				
32+ 7	8.3884	1.48	Q				
32+ 8	8.3854	1.48	Q				
32+ 9	8.3823	1.48	Q				
32+10	8.3792	1.47	Q				
32+11	8.3761	1.47	Q				
32+12	8.3730	1.47	Q				
32+13	8.3700	1.47	Q				
32+14	8.3669	1.47	Q				
32+15	8.3638	1.47	Q				
32+16	8.3607	1.47	Q				
32+17	8.3577	1.47	Q				
32+18	8.3546	1.47	Q				

32+19	8.3515	1.47	Q				
32+20	8.3485	1.47	Q				
32+21	8.3454	1.47	Q				
32+22	8.3423	1.47	Q				
32+23	8.3393	1.47	Q				
32+24	8.3362	1.47	Q				
32+25	8.3332	1.47	Q				
32+26	8.3301	1.47	Q				
32+27	8.3270	1.47	Q				
32+28	8.3240	1.47	Q				
32+29	8.3209	1.46	Q				
32+30	8.3179	1.46	Q				
32+31	8.3148	1.46	Q				
32+32	8.3118	1.46	Q				
32+33	8.3087	1.46	Q				
32+34	8.3057	1.46	Q				
32+35	8.3026	1.46	Q				
32+36	8.2996	1.46	Q				
32+37	8.2965	1.46	Q				
32+38	8.2935	1.46	Q				
32+39	8.2904	1.46	Q				
32+40	8.2874	1.46	Q				
32+41	8.2843	1.46	Q				
32+42	8.2813	1.46	Q				
32+43	8.2782	1.46	Q				
32+44	8.2752	1.46	Q				
32+45	8.2722	1.46	Q				
32+46	8.2691	1.46	Q				
32+47	8.2661	1.45	Q				
32+48	8.2631	1.45	Q				
32+49	8.2600	1.45	Q				
32+50	8.2570	1.45	Q				
32+51	8.2540	1.45	Q				
32+52	8.2509	1.45	Q				
32+53	8.2479	1.45	Q				
32+54	8.2449	1.45	Q				
32+55	8.2418	1.45	Q				
32+56	8.2388	1.45	Q				
32+57	8.2358	1.45	Q				
32+58	8.2328	1.45	Q				
32+59	8.2297	1.45	Q				
33+ 0	8.2267	1.45	Q				
33+ 1	8.2237	1.45	Q				
33+ 2	8.2207	1.45	Q				
33+ 3	8.2176	1.45	Q				
33+ 4	8.2146	1.45	Q				
33+ 5	8.2116	1.45	Q				
33+ 6	8.2086	1.44	Q				
33+ 7	8.2056	1.44	Q				
33+ 8	8.2026	1.44	Q				
33+ 9	8.1996	1.44	Q				
33+10	8.1965	1.44	Q				
33+11	8.1935	1.44	Q				
33+12	8.1905	1.44	Q				
33+13	8.1875	1.44	Q				
33+14	8.1845	1.44	Q				
33+15	8.1815	1.44	Q				
33+16	8.1785	1.44	Q				
33+17	8.1755	1.44	Q				
33+18	8.1725	1.44	Q				
33+19	8.1695	1.44	Q				
33+20	8.1665	1.44	Q				
33+21	8.1635	1.44	Q				
33+22	8.1605	1.44	Q				
33+23	8.1575	1.44	Q				
33+24	8.1545	1.44	Q				
33+25	8.1515	1.43	Q				
33+26	8.1485	1.43	Q				
33+27	8.1455	1.43	Q				
33+28	8.1425	1.43	Q				
33+29	8.1395	1.43	Q				

33+30	8.1366	1.43	Q				
33+31	8.1336	1.43	Q				
33+32	8.1306	1.43	Q				
33+33	8.1276	1.43	Q				
33+34	8.1246	1.43	Q				
33+35	8.1216	1.43	Q				
33+36	8.1186	1.43	Q				
33+37	8.1157	1.43	Q				
33+38	8.1127	1.43	Q				
33+39	8.1097	1.43	Q				
33+40	8.1067	1.43	Q				
33+41	8.1037	1.43	Q				
33+42	8.1008	1.43	Q				
33+43	8.0978	1.43	Q				
33+44	8.0948	1.42	Q				
33+45	8.0918	1.42	Q				
33+46	8.0889	1.42	Q				
33+47	8.0859	1.42	Q				
33+48	8.0829	1.42	Q				
33+49	8.0800	1.42	Q				
33+50	8.0770	1.42	Q				
33+51	8.0740	1.42	Q				
33+52	8.0711	1.42	Q				
33+53	8.0681	1.42	Q				
33+54	8.0651	1.42	Q				
33+55	8.0622	1.42	Q				
33+56	8.0592	1.42	Q				
33+57	8.0563	1.42	Q				
33+58	8.0533	1.42	Q				
33+59	8.0503	1.42	Q				
34+ 0	8.0474	1.42	Q				
34+ 1	8.0444	1.42	Q				
34+ 2	8.0415	1.42	Q				
34+ 3	8.0385	1.41	Q				
34+ 4	8.0356	1.41	Q				
34+ 5	8.0326	1.41	Q				
34+ 6	8.0297	1.41	Q				
34+ 7	8.0267	1.41	Q				
34+ 8	8.0238	1.41	Q				
34+ 9	8.0208	1.41	Q				
34+10	8.0179	1.41	Q				
34+11	8.0149	1.41	Q				
34+12	8.0120	1.41	Q				
34+13	8.0091	1.41	Q				
34+14	8.0061	1.41	Q				
34+15	8.0032	1.41	Q				
34+16	8.0002	1.41	Q				
34+17	7.9973	1.41	Q				
34+18	7.9944	1.41	Q				
34+19	7.9914	1.41	Q				
34+20	7.9885	1.41	Q				
34+21	7.9856	1.41	Q				
34+22	7.9826	1.41	Q				
34+23	7.9797	1.40	Q				
34+24	7.9768	1.40	Q				
34+25	7.9738	1.40	Q				
34+26	7.9709	1.40	Q				
34+27	7.9680	1.40	Q				
34+28	7.9650	1.40	Q				
34+29	7.9621	1.40	Q				
34+30	7.9592	1.40	Q				
34+31	7.9563	1.40	Q				
34+32	7.9531	1.40	Q				
34+33	7.9496	1.40	Q				
34+34	7.9459	1.40	Q				
34+35	7.9423	1.40	Q				
34+36	7.9387	1.40	Q				
34+37	7.9350	1.40	Q				
34+38	7.9314	1.40	Q				
34+39	7.9277	1.40	Q				
34+40	7.9241	1.39	Q				

34+41	7.9205	1.39	Q				
34+42	7.9168	1.39	Q				
34+43	7.9132	1.39	Q				
34+44	7.9096	1.39	Q				
34+45	7.9059	1.39	Q				
34+46	7.9023	1.39	Q				
34+47	7.8987	1.39	Q				
34+48	7.8950	1.39	Q				
34+49	7.8914	1.39	Q				
34+50	7.8878	1.39	Q				
34+51	7.8842	1.39	Q				
34+52	7.8806	1.39	Q				
34+53	7.8769	1.39	Q				
34+54	7.8733	1.39	Q				
34+55	7.8697	1.39	Q				
34+56	7.8661	1.38	Q				
34+57	7.8625	1.38	Q				
34+58	7.8589	1.38	Q				
34+59	7.8553	1.38	Q				
35+ 0	7.8517	1.38	Q				
35+ 1	7.8481	1.38	Q				
35+ 2	7.8445	1.38	Q				
35+ 3	7.8409	1.38	Q				
35+ 4	7.8373	1.38	Q				
35+ 5	7.8337	1.38	Q				
35+ 6	7.8301	1.38	Q				
35+ 7	7.8265	1.38	Q				
35+ 8	7.8229	1.38	Q				
35+ 9	7.8193	1.38	Q				
35+10	7.8157	1.38	Q				
35+11	7.8121	1.38	Q				
35+12	7.8085	1.37	Q				
35+13	7.8049	1.37	Q				
35+14	7.8014	1.37	Q				
35+15	7.7978	1.37	Q				
35+16	7.7942	1.37	Q				
35+17	7.7906	1.37	Q				
35+18	7.7870	1.37	Q				
35+19	7.7835	1.37	Q				
35+20	7.7799	1.37	Q				
35+21	7.7763	1.37	Q				
35+22	7.7728	1.37	Q				
35+23	7.7692	1.37	Q				
35+24	7.7656	1.37	Q				
35+25	7.7621	1.37	Q				
35+26	7.7585	1.37	Q				
35+27	7.7549	1.37	Q				
35+28	7.7514	1.36	Q				
35+29	7.7478	1.36	Q				
35+30	7.7443	1.36	Q				
35+31	7.7407	1.36	Q				
35+32	7.7371	1.36	Q				
35+33	7.7336	1.36	Q				
35+34	7.7300	1.36	Q				
35+35	7.7265	1.36	Q				
35+36	7.7230	1.36	Q				
35+37	7.7194	1.36	Q				
35+38	7.7159	1.36	Q				
35+39	7.7123	1.36	Q				
35+40	7.7088	1.36	Q				
35+41	7.7052	1.36	Q				
35+42	7.7017	1.36	Q				
35+43	7.6982	1.36	Q				
35+44	7.6946	1.35	Q				
35+45	7.6911	1.35	Q				
35+46	7.6876	1.35	Q				
35+47	7.6840	1.35	Q				
35+48	7.6805	1.35	Q				
35+49	7.6770	1.35	Q				
35+50	7.6735	1.35	Q				
35+51	7.6699	1.35	Q				

35+52	7.6664	1.35	Q						
35+53	7.6629	1.35	Q						
35+54	7.6594	1.35	Q						
35+55	7.6559	1.35	Q						
35+56	7.6524	1.35	Q						
35+57	7.6488	1.35	Q						
35+58	7.6453	1.35	Q						
35+59	7.6418	1.35	Q						
36+ 0	7.6383	1.34	Q						
36+ 1	7.6348	1.34	Q						
36+ 2	7.6313	1.34	Q						
36+ 3	7.6278	1.34	Q						
36+ 4	7.6243	1.34	Q						
36+ 5	7.6208	1.34	Q						
36+ 6	7.6173	1.34	Q						
36+ 7	7.6138	1.34	Q						
36+ 8	7.6103	1.34	Q						
36+ 9	7.6068	1.34	Q						
36+10	7.6033	1.34	Q						
36+11	7.5998	1.34	Q						
36+12	7.5963	1.34	Q						
36+13	7.5929	1.34	Q						
36+14	7.5894	1.34	Q						
36+15	7.5859	1.34	Q						
36+16	7.5824	1.33	Q						
36+17	7.5789	1.33	Q						
36+18	7.5755	1.33	Q						
36+19	7.5720	1.33	Q						
36+20	7.5685	1.33	Q						
36+21	7.5650	1.33	Q						
36+22	7.5616	1.33	Q						
36+23	7.5581	1.33	Q						
36+24	7.5546	1.33	Q						
36+25	7.5511	1.33	Q						
36+26	7.5477	1.33	Q						
36+27	7.5442	1.33	Q						
36+28	7.5407	1.33	Q						
36+29	7.5373	1.33	Q						
36+30	7.5338	1.33	Q						
36+31	7.5304	1.33	Q						
36+32	7.5269	1.32	Q						
36+33	7.5235	1.32	Q						
36+34	7.5200	1.32	Q						
36+35	7.5166	1.32	Q						
36+36	7.5131	1.32	Q						
36+37	7.5097	1.32	Q						
36+38	7.5062	1.32	Q						
36+39	7.5028	1.32	Q						
36+40	7.4993	1.32	Q						
36+41	7.4959	1.32	Q						
36+42	7.4924	1.32	Q						
36+43	7.4890	1.32	Q						
36+44	7.4856	1.32	Q						
36+45	7.4821	1.32	Q						
36+46	7.4787	1.32	Q						
36+47	7.4753	1.32	Q						
36+48	7.4718	1.32	Q						
36+49	7.4684	1.31	Q						
36+50	7.4650	1.31	Q						
36+51	7.4615	1.31	Q						
36+52	7.4581	1.31	Q						
36+53	7.4547	1.31	Q						
36+54	7.4513	1.31	Q						
36+55	7.4478	1.31	Q						
36+56	7.4444	1.31	Q						
36+57	7.4410	1.31	Q						
36+58	7.4376	1.31	Q						
36+59	7.4342	1.31	Q						
37+ 0	7.4308	1.31	Q						
37+ 1	7.4274	1.31	Q						
37+ 2	7.4239	1.31	Q						

37+ 3	7.4205	1.31	Q				
37+ 4	7.4171	1.31	Q				
37+ 5	7.4137	1.30	Q				
37+ 6	7.4103	1.30	Q				
37+ 7	7.4069	1.30	Q				
37+ 8	7.4035	1.30	Q				
37+ 9	7.4001	1.30	Q				
37+10	7.3967	1.30	Q				
37+11	7.3933	1.30	Q				
37+12	7.3899	1.30	Q				
37+13	7.3864	1.30	Q				
37+14	7.3803	1.30	Q				
37+15	7.3735	1.30	Q				
37+16	7.3665	1.30	Q				
37+17	7.3595	1.30	Q				
37+18	7.3525	1.29	Q				
37+19	7.3456	1.29	Q				
37+20	7.3386	1.29	Q				
37+21	7.3316	1.29	Q				
37+22	7.3246	1.29	Q				
37+23	7.3177	1.29	Q				
37+24	7.3107	1.29	Q				
37+25	7.3038	1.29	Q				
37+26	7.2969	1.28	Q				
37+27	7.2899	1.28	Q				
37+28	7.2830	1.28	Q				
37+29	7.2761	1.28	Q				
37+30	7.2692	1.28	Q				
37+31	7.2623	1.28	Q				
37+32	7.2554	1.28	Q				
37+33	7.2485	1.28	Q				
37+34	7.2416	1.27	Q				
37+35	7.2348	1.27	Q				
37+36	7.2279	1.27	Q				
37+37	7.2210	1.27	Q				
37+38	7.2142	1.27	Q				
37+39	7.2073	1.27	Q				
37+40	7.2005	1.27	Q				
37+41	7.1936	1.27	Q				
37+42	7.1868	1.27	Q				
37+43	7.1800	1.26	Q				
37+44	7.1732	1.26	Q				
37+45	7.1664	1.26	Q				
37+46	7.1595	1.26	Q				
37+47	7.1527	1.26	Q				
37+48	7.1460	1.26	Q				
37+49	7.1392	1.26	Q				
37+50	7.1324	1.26	Q				
37+51	7.1256	1.25	Q				
37+52	7.1189	1.25	Q				
37+53	7.1121	1.25	Q				
37+54	7.1053	1.25	Q				
37+55	7.0986	1.25	Q				
37+56	7.0919	1.25	Q				
37+57	7.0851	1.25	Q				
37+58	7.0784	1.25	Q				
37+59	7.0717	1.24	Q				
38+ 0	7.0650	1.24	Q				
38+ 1	7.0583	1.24	Q				
38+ 2	7.0516	1.24	Q				
38+ 3	7.0449	1.24	Q				
38+ 4	7.0382	1.24	Q				
38+ 5	7.0315	1.24	Q				
38+ 6	7.0248	1.24	Q				
38+ 7	7.0181	1.24	Q				
38+ 8	7.0115	1.23	Q				
38+ 9	7.0048	1.23	Q				
38+10	6.9982	1.23	Q				
38+11	6.9915	1.23	Q				
38+12	6.9849	1.23	Q				
38+13	6.9783	1.23	Q				

38+14	6.9716	1.23	Q				
38+15	6.9650	1.23	Q				
38+16	6.9584	1.22	Q				
38+17	6.9518	1.22	Q				
38+18	6.9452	1.22	Q				
38+19	6.9386	1.22	Q				
38+20	6.9320	1.22	Q				
38+21	6.9254	1.22	Q				
38+22	6.9188	1.22	Q				
38+23	6.9123	1.22	Q				
38+24	6.9057	1.22	Q				
38+25	6.8992	1.21	Q				
38+26	6.8926	1.21	Q				
38+27	6.8861	1.21	Q				
38+28	6.8795	1.21	Q				
38+29	6.8730	1.21	Q				
38+30	6.8665	1.21	Q				
38+31	6.8599	1.21	Q				
38+32	6.8534	1.21	Q				
38+33	6.8469	1.21	Q				
38+34	6.8404	1.20	Q				
38+35	6.8339	1.20	Q				
38+36	6.8274	1.20	Q				
38+37	6.8210	1.20	Q				
38+38	6.8145	1.20	Q				
38+39	6.8080	1.20	Q				
38+40	6.8015	1.20	Q				
38+41	6.7951	1.20	Q				
38+42	6.7886	1.19	Q				
38+43	6.7822	1.19	Q				
38+44	6.7758	1.19	Q				
38+45	6.7693	1.19	Q				
38+46	6.7629	1.19	Q				
38+47	6.7565	1.19	Q				
38+48	6.7501	1.19	Q				
38+49	6.7436	1.19	Q				
38+50	6.7372	1.19	Q				
38+51	6.7308	1.18	Q				
38+52	6.7245	1.18	Q				
38+53	6.7181	1.18	Q				
38+54	6.7117	1.18	Q				
38+55	6.7053	1.18	Q				
38+56	6.6990	1.18	Q				
38+57	6.6926	1.18	Q				
38+58	6.6862	1.18	Q				
38+59	6.6799	1.18	Q				
39+ 0	6.6735	1.17	Q				
39+ 1	6.6672	1.17	Q				
39+ 2	6.6609	1.17	Q				
39+ 3	6.6546	1.17	Q				
39+ 4	6.6482	1.17	Q				
39+ 5	6.6419	1.17	Q				
39+ 6	6.6356	1.17	Q				
39+ 7	6.6293	1.17	Q				
39+ 8	6.6230	1.17	Q				
39+ 9	6.6167	1.16	Q				
39+10	6.6105	1.16	Q				
39+11	6.6042	1.16	Q				
39+12	6.5979	1.16	Q				
39+13	6.5916	1.16	Q				
39+14	6.5854	1.16	Q				
39+15	6.5791	1.16	Q				
39+16	6.5729	1.16	Q				
39+17	6.5666	1.16	Q				
39+18	6.5604	1.15	Q				
39+19	6.5542	1.15	Q				
39+20	6.5480	1.15	Q				
39+21	6.5417	1.15	Q				
39+22	6.5355	1.15	Q				
39+23	6.5293	1.15	Q				
39+24	6.5231	1.15	Q				

39+25	6.5169	1.15	Q						
39+26	6.5107	1.15	Q						
39+27	6.5046	1.14	Q						
39+28	6.4984	1.14	Q						
39+29	6.4922	1.14	Q						
39+30	6.4860	1.14	Q						
39+31	6.4799	1.14	Q						
39+32	6.4737	1.14	Q						
39+33	6.4676	1.14	Q						
39+34	6.4614	1.14	Q						
39+35	6.4553	1.14	Q						
39+36	6.4492	1.14	Q						
39+37	6.4431	1.13	Q						
39+38	6.4369	1.13	Q						
39+39	6.4308	1.13	Q						
39+40	6.4247	1.13	Q						
39+41	6.4186	1.13	Q						
39+42	6.4125	1.13	Q						
39+43	6.4064	1.13	Q						
39+44	6.4004	1.13	Q						
39+45	6.3943	1.13	Q						
39+46	6.3882	1.12	Q						
39+47	6.3821	1.12	Q						
39+48	6.3761	1.12	Q						
39+49	6.3700	1.12	Q						
39+50	6.3640	1.12	Q						
39+51	6.3579	1.12	Q						
39+52	6.3519	1.12	Q						
39+53	6.3459	1.12	Q						
39+54	6.3398	1.12	Q						
39+55	6.3338	1.11	Q						
39+56	6.3278	1.11	Q						
39+57	6.3218	1.11	Q						
39+58	6.3158	1.11	Q						
39+59	6.3098	1.11	Q						
40+ 0	6.3038	1.11	Q						
40+ 1	6.2978	1.11	Q						
40+ 2	6.2918	1.11	Q						
40+ 3	6.2859	1.11	Q						
40+ 4	6.2799	1.11	Q						
40+ 5	6.2739	1.10	Q						
40+ 6	6.2680	1.10	Q						
40+ 7	6.2620	1.10	Q						
40+ 8	6.2561	1.10	Q						
40+ 9	6.2502	1.10	Q						
40+10	6.2444	1.10	Q						
40+11	6.2387	1.10	Q						
40+12	6.2329	1.10	Q						
40+13	6.2272	1.10	Q						
40+14	6.2215	1.10	Q						
40+15	6.2158	1.09	Q						
40+16	6.2101	1.09	Q						
40+17	6.2044	1.09	Q						
40+18	6.1987	1.09	Q						
40+19	6.1930	1.09	Q						
40+20	6.1873	1.09	Q						
40+21	6.1816	1.09	Q						
40+22	6.1760	1.09	Q						
40+23	6.1703	1.09	Q						
40+24	6.1646	1.09	Q						
40+25	6.1590	1.08	Q						
40+26	6.1533	1.08	Q						
40+27	6.1477	1.08	Q						
40+28	6.1420	1.08	Q						
40+29	6.1364	1.08	Q						
40+30	6.1308	1.08	Q						
40+31	6.1251	1.08	Q						
40+32	6.1195	1.08	Q						
40+33	6.1139	1.08	Q						
40+34	6.1083	1.08	Q						
40+35	6.1027	1.07	Q						

40+36	6.0971	1.07	Q				
40+37	6.0915	1.07	Q				
40+38	6.0859	1.07	Q				
40+39	6.0803	1.07	Q				
40+40	6.0747	1.07	Q				
40+41	6.0691	1.07	Q				
40+42	6.0636	1.07	Q				
40+43	6.0580	1.07	Q				
40+44	6.0524	1.07	Q				
40+45	6.0469	1.06	Q				
40+46	6.0413	1.06	Q				
40+47	6.0358	1.06	Q				
40+48	6.0303	1.06	Q				
40+49	6.0247	1.06	Q				
40+50	6.0192	1.06	Q				
40+51	6.0137	1.06	Q				
40+52	6.0081	1.06	Q				
40+53	6.0026	1.06	Q				
40+54	5.9971	1.06	Q				
40+55	5.9916	1.05	Q				
40+56	5.9861	1.05	Q				
40+57	5.9806	1.05	Q				
40+58	5.9751	1.05	Q				
40+59	5.9696	1.05	Q				
41+ 0	5.9642	1.05	Q				
41+ 1	5.9587	1.05	Q				
41+ 2	5.9532	1.05	Q				
41+ 3	5.9478	1.05	Q				
41+ 4	5.9423	1.05	Q				
41+ 5	5.9368	1.04	Q				
41+ 6	5.9314	1.04	Q				
41+ 7	5.9260	1.04	Q				
41+ 8	5.9205	1.04	Q				
41+ 9	5.9151	1.04	Q				
41+10	5.9097	1.04	Q				
41+11	5.9042	1.04	Q				
41+12	5.8988	1.04	Q				
41+13	5.8934	1.04	Q				
41+14	5.8880	1.04	Q				
41+15	5.8826	1.04	Q				
41+16	5.8772	1.03	Q				
41+17	5.8718	1.03	Q				
41+18	5.8664	1.03	Q				
41+19	5.8610	1.03	Q				
41+20	5.8556	1.03	Q				
41+21	5.8503	1.03	Q				
41+22	5.8449	1.03	Q				
41+23	5.8395	1.03	Q				
41+24	5.8342	1.03	Q				
41+25	5.8288	1.03	Q				
41+26	5.8235	1.03	Q				
41+27	5.8181	1.02	Q				
41+28	5.8128	1.02	Q				
41+29	5.8074	1.02	Q				
41+30	5.8021	1.02	Q				
41+31	5.7968	1.02	Q				
41+32	5.7915	1.02	Q				
41+33	5.7861	1.02	Q				
41+34	5.7808	1.02	Q				
41+35	5.7755	1.02	Q				
41+36	5.7702	1.02	Q				
41+37	5.7649	1.01	Q				
41+38	5.7596	1.01	Q				
41+39	5.7544	1.01	Q				
41+40	5.7491	1.01	Q				
41+41	5.7438	1.01	Q				
41+42	5.7385	1.01	Q				
41+43	5.7333	1.01	Q				
41+44	5.7280	1.01	Q				
41+45	5.7227	1.01	Q				
41+46	5.7175	1.01	Q				

41+47	5.7122	1.01	Q						
41+48	5.7070	1.00	Q						
41+49	5.7018	1.00	Q						
41+50	5.6965	1.00	Q						
41+51	5.6913	1.00	Q						
41+52	5.6858	1.00	Q						
41+53	5.6746	1.00	Q						
41+54	5.6513	0.99	Q						
41+55	5.6253	0.99	Q						
41+56	5.5988	0.99	Q						
41+57	5.5723	0.98	Q						
41+58	5.5459	0.98	Q						
41+59	5.5197	0.97	Q						
42+ 0	5.4935	0.97	Q						
42+ 1	5.4675	0.96	Q						
42+ 2	5.4416	0.96	Q						
42+ 3	5.4158	0.95	Q						
42+ 4	5.3901	0.95	Q						
42+ 5	5.3646	0.94	Q						
42+ 6	5.3392	0.94	Q						
42+ 7	5.3139	0.94	Q						
42+ 8	5.2887	0.93	Q						
42+ 9	5.2636	0.93	Q						
42+10	5.2387	0.92	Q						
42+11	5.2139	0.92	Q						
42+12	5.1892	0.91	Q						
42+13	5.1646	0.91	Q						
42+14	5.1401	0.90	Q						
42+15	5.1157	0.90	Q						
42+16	5.0915	0.90	Q						
42+17	5.0674	0.89	Q						
42+18	5.0434	0.89	Q						
42+19	5.0195	0.88	Q						
42+20	4.9957	0.88	Q						
42+21	4.9720	0.88	Q						
42+22	4.9485	0.87	Q						
42+23	4.9250	0.87	Q						
42+24	4.9017	0.86	Q						
42+25	4.8784	0.86	Q						
42+26	4.8553	0.85	Q						
42+27	4.8323	0.85	Q						
42+28	4.8094	0.85	Q						
42+29	4.7866	0.84	Q						
42+30	4.7639	0.84	Q						
42+31	4.7414	0.83	Q						
42+32	4.7189	0.83	Q						
42+33	4.6965	0.83	Q						
42+34	4.6743	0.82	Q						
42+35	4.6521	0.82	Q						
42+36	4.6301	0.81	Q						
42+37	4.6082	0.81	Q						
42+38	4.5863	0.81	Q						
42+39	4.5646	0.80	Q						
42+40	4.5430	0.80	Q						
42+41	4.5214	0.80	Q						
42+42	4.5000	0.79	Q						
42+43	4.4787	0.79	Q						
42+44	4.4575	0.78	Q						
42+45	4.4363	0.78	Q						
42+46	4.4153	0.78	Q						
42+47	4.3944	0.77	Q						
42+48	4.3736	0.77	Q						
42+49	4.3529	0.77	Q						
42+50	4.3322	0.76	Q						
42+51	4.3117	0.76	Q						
42+52	4.2913	0.76	Q						
42+53	4.2709	0.75	Q						
42+54	4.2507	0.75	Q						
42+55	4.2306	0.74	Q						
42+56	4.2105	0.74	Q						
42+57	4.1906	0.74	Q						

42+58	4.1707	0.73	Q						
42+59	4.1509	0.73	Q						
43+ 0	4.1313	0.73	Q						
43+ 1	4.1117	0.72	Q						
43+ 2	4.0922	0.72	Q						
43+ 3	4.0728	0.72	Q						
43+ 4	4.0535	0.71	Q						
43+ 5	4.0343	0.71	Q						
43+ 6	4.0152	0.71	Q						
43+ 7	3.9962	0.70	Q						
43+ 8	3.9772	0.70	Q						
43+ 9	3.9584	0.70	Q						
43+10	3.9396	0.69	Q						
43+11	3.9210	0.69	Q						
43+12	3.9024	0.69	Q						
43+13	3.8839	0.68	Q						
43+14	3.8655	0.68	Q						
43+15	3.8472	0.68	Q						
43+16	3.8290	0.67	Q						
43+17	3.8108	0.67	Q						
43+18	3.7928	0.67	Q						
43+19	3.7748	0.66	Q						
43+20	3.7569	0.66	Q						
43+21	3.7391	0.66	Q						
43+22	3.7214	0.66	Q						
43+23	3.7037	0.65	Q						
43+24	3.6862	0.65	Q						
43+25	3.6687	0.65	Q						
43+26	3.6513	0.64	Q						
43+27	3.6340	0.64	Q						
43+28	3.6168	0.64	Q						
43+29	3.5997	0.63	Q						
43+30	3.5826	0.63	Q						
43+31	3.5656	0.63	Q						
43+32	3.5488	0.62	Q						
43+33	3.5319	0.62	Q						
43+34	3.5152	0.62	Q						
43+35	3.4985	0.62	Q						
43+36	3.4820	0.61	Q						
43+37	3.4655	0.61	Q						
43+38	3.4490	0.61	Q						
43+39	3.4327	0.60	Q						
43+40	3.4164	0.60	Q						
43+41	3.4002	0.60	Q						
43+42	3.3841	0.60	Q						
43+43	3.3681	0.59	Q						
43+44	3.3521	0.59	Q						
43+45	3.3363	0.59	Q						
43+46	3.3204	0.58	Q						
43+47	3.3047	0.58	Q						
43+48	3.2891	0.58	Q						
43+49	3.2735	0.58	Q						
43+50	3.2580	0.57	Q						
43+51	3.2425	0.57	Q						
43+52	3.2272	0.57	Q						
43+53	3.2119	0.57	Q						
43+54	3.1966	0.56	Q						
43+55	3.1815	0.56	Q						
43+56	3.1664	0.56	Q						
43+57	3.1514	0.55	Q						
43+58	3.1365	0.55	Q						
43+59	3.1216	0.55	Q						
44+ 0	3.1068	0.55	Q						
44+ 1	3.0921	0.54	Q						
44+ 2	3.0775	0.54	Q						
44+ 3	3.0629	0.54	Q						
44+ 4	3.0484	0.54	Q						
44+ 5	3.0339	0.53	Q						
44+ 6	3.0195	0.53	Q						
44+ 7	3.0052	0.53	Q						
44+ 8	2.9910	0.53	Q						

44+ 9	2.9768	0.52	Q				
44+10	2.9627	0.52	Q				
44+11	2.9487	0.52	Q				
44+12	2.9347	0.52	Q				
44+13	2.9208	0.51	Q				
44+14	2.9070	0.51	Q				
44+15	2.8932	0.51	Q				
44+16	2.8795	0.51	Q				
44+17	2.8658	0.50	Q				
44+18	2.8523	0.50	Q				
44+19	2.8387	0.50	Q				
44+20	2.8253	0.50	Q				
44+21	2.8119	0.49	Q				
44+22	2.7986	0.49	Q				
44+23	2.7853	0.49	Q				
44+24	2.7721	0.49	Q				
44+25	2.7590	0.49	Q				
44+26	2.7459	0.48	Q				
44+27	2.7329	0.48	Q				
44+28	2.7199	0.48	Q				
44+29	2.7071	0.48	Q				
44+30	2.6942	0.47	Q				
44+31	2.6815	0.47	Q				
44+32	2.6688	0.47	Q				
44+33	2.6561	0.47	Q				
44+34	2.6435	0.47	Q				
44+35	2.6310	0.46	Q				
44+36	2.6185	0.46	Q				
44+37	2.6061	0.46	Q				
44+38	2.5938	0.46	Q				
44+39	2.5815	0.45	Q				
44+40	2.5693	0.45	Q				
44+41	2.5571	0.45	Q				
44+42	2.5450	0.45	Q				
44+43	2.5329	0.45	Q				
44+44	2.5209	0.44	Q				
44+45	2.5090	0.44	Q				
44+46	2.4971	0.44	Q				
44+47	2.4852	0.44	Q				
44+48	2.4735	0.44	Q				
44+49	2.4617	0.43	Q				
44+50	2.4501	0.43	Q				
44+51	2.4385	0.43	Q				
44+52	2.4269	0.43	Q				
44+53	2.4154	0.43	Q				
44+54	2.4040	0.42	Q				
44+55	2.3926	0.42	Q				
44+56	2.3812	0.42	Q				
44+57	2.3700	0.42	Q				
44+58	2.3587	0.42	Q				
44+59	2.3475	0.41	Q				
45+ 0	2.3364	0.41	Q				
45+ 1	2.3254	0.41	Q				
45+ 2	2.3143	0.41	Q				
45+ 3	2.3034	0.41	Q				
45+ 4	2.2925	0.40	Q				
45+ 5	2.2816	0.40	Q				
45+ 6	2.2708	0.40	Q				
45+ 7	2.2600	0.40	Q				
45+ 8	2.2493	0.40	Q				
45+ 9	2.2387	0.39	Q				
45+10	2.2280	0.39	Q				
45+11	2.2175	0.39	Q				
45+12	2.2070	0.39	Q				
45+13	2.1965	0.39	Q				
45+14	2.1861	0.38	Q				
45+15	2.1758	0.38	Q				
45+16	2.1654	0.38	Q				
45+17	2.1552	0.38	Q				
45+18	2.1450	0.38	Q				
45+19	2.1348	0.38	Q				

45+20	2.1247	0.37	Q				
45+21	2.1146	0.37	Q				
45+22	2.1046	0.37	Q				
45+23	2.0946	0.37	Q				
45+24	2.0847	0.37	Q				
45+25	2.0748	0.37	Q				
45+26	2.0650	0.36	Q				
45+27	2.0552	0.36	Q				
45+28	2.0455	0.36	Q				
45+29	2.0358	0.36	Q				
45+30	2.0261	0.36	Q				
45+31	2.0165	0.35	Q				
45+32	2.0070	0.35	Q				
45+33	1.9975	0.35	Q				
45+34	1.9880	0.35	Q				
45+35	1.9786	0.35	Q				
45+36	1.9692	0.35	Q				
45+37	1.9599	0.34	Q				
45+38	1.9506	0.34	Q				
45+39	1.9414	0.34	Q				
45+40	1.9322	0.34	Q				
45+41	1.9230	0.34	Q				
45+42	1.9139	0.34	Q				
45+43	1.9048	0.34	Q				
45+44	1.8958	0.33	Q				
45+45	1.8868	0.33	Q				
45+46	1.8779	0.33	Q				
45+47	1.8690	0.33	Q				
45+48	1.8601	0.33	Q				
45+49	1.8513	0.33	Q				
45+50	1.8425	0.32	Q				
45+51	1.8338	0.32	Q				
45+52	1.8251	0.32	Q				
45+53	1.8165	0.32	Q				
45+54	1.8078	0.32	Q				
45+55	1.7993	0.32	Q				
45+56	1.7908	0.32	Q				
45+57	1.7823	0.31	Q				
45+58	1.7738	0.31	Q				
45+59	1.7654	0.31	Q				
46+ 0	1.7571	0.31	Q				
46+ 1	1.7487	0.31	Q				
46+ 2	1.7404	0.31	Q				
46+ 3	1.7322	0.30	Q				
46+ 4	1.7240	0.30	Q				
46+ 5	1.7158	0.30	Q				
46+ 6	1.7077	0.30	Q				
46+ 7	1.6996	0.30	Q				
46+ 8	1.6915	0.30	Q				
46+ 9	1.6835	0.30	Q				
46+10	1.6756	0.29	Q				
46+11	1.6676	0.29	Q				
46+12	1.6597	0.29	Q				
46+13	1.6518	0.29	Q				
46+14	1.6440	0.29	Q				
46+15	1.6362	0.29	Q				
46+16	1.6285	0.29	Q				
46+17	1.6208	0.29	Q				
46+18	1.6131	0.28	Q				
46+19	1.6054	0.28	Q				
46+20	1.5978	0.28	Q				
46+21	1.5903	0.28	Q				
46+22	1.5827	0.28	Q				
46+23	1.5752	0.28	Q				
46+24	1.5678	0.28	Q				
46+25	1.5603	0.27	Q				
46+26	1.5529	0.27	Q				
46+27	1.5456	0.27	Q				
46+28	1.5383	0.27	Q				
46+29	1.5310	0.27	Q				
46+30	1.5237	0.27	Q				

46+31	1.5165	0.27	Q				
46+32	1.5093	0.27	Q				
46+33	1.5022	0.26	Q				
46+34	1.4950	0.26	Q				
46+35	1.4880	0.26	Q				
46+36	1.4809	0.26	Q				
46+37	1.4739	0.26	Q				
46+38	1.4669	0.26	Q				
46+39	1.4599	0.26	Q				
46+40	1.4530	0.26	Q				
46+41	1.4461	0.25	Q				
46+42	1.4393	0.25	Q				
46+43	1.4325	0.25	Q				
46+44	1.4257	0.25	Q				
46+45	1.4189	0.25	Q				
46+46	1.4122	0.25	Q				
46+47	1.4055	0.25	Q				
46+48	1.3989	0.25	Q				
46+49	1.3922	0.25	Q				
46+50	1.3856	0.24	Q				
46+51	1.3791	0.24	Q				
46+52	1.3725	0.24	Q				
46+53	1.3660	0.24	Q				
46+54	1.3596	0.24	Q				
46+55	1.3531	0.24	Q				
46+56	1.3467	0.24	Q				
46+57	1.3403	0.24	Q				
46+58	1.3340	0.23	Q				
46+59	1.3276	0.23	Q				
47+ 0	1.3214	0.23	Q				
47+ 1	1.3151	0.23	Q				
47+ 2	1.3089	0.23	Q				
47+ 3	1.3027	0.23	Q				
47+ 4	1.2965	0.23	Q				
47+ 5	1.2903	0.23	Q				
47+ 6	1.2842	0.23	Q				
47+ 7	1.2781	0.22	Q				
47+ 8	1.2721	0.22	Q				
47+ 9	1.2661	0.22	Q				
47+10	1.2601	0.22	Q				
47+11	1.2541	0.22	Q				
47+12	1.2481	0.22	Q				
47+13	1.2422	0.22	Q				
47+14	1.2363	0.22	Q				
47+15	1.2305	0.22	Q				
47+16	1.2247	0.22	Q				
47+17	1.2189	0.21	Q				
47+18	1.2131	0.21	Q				
47+19	1.2073	0.21	Q				
47+20	1.2016	0.21	Q				
47+21	1.1959	0.21	Q				
47+22	1.1903	0.21	Q				
47+23	1.1846	0.21	Q				
47+24	1.1790	0.21	Q				
47+25	1.1734	0.21	Q				
47+26	1.1679	0.21	Q				
47+27	1.1623	0.20	Q				
47+28	1.1568	0.20	Q				
47+29	1.1513	0.20	Q				
47+30	1.1459	0.20	Q				
47+31	1.1404	0.20	Q				
47+32	1.1350	0.20	Q				
47+33	1.1297	0.20	Q				
47+34	1.1243	0.20	Q				
47+35	1.1190	0.20	Q				
47+36	1.1137	0.20	Q				
47+37	1.1084	0.20	Q				
47+38	1.1031	0.19	Q				
47+39	1.0979	0.19	Q				
47+40	1.0927	0.19	Q				
47+41	1.0875	0.19	Q				

47+42	1.0824	0.19	IQ				
47+43	1.0773	0.19	IQ				
47+44	1.0722	0.19	IQ				
47+45	1.0671	0.19	IQ				
47+46	1.0620	0.19	IQ				
47+47	1.0570	0.19	IQ				
47+48	1.0520	0.19	IQ				
47+49	1.0470	0.18	IQ				
47+50	1.0420	0.18	IQ				
47+51	1.0371	0.18	IQ				
47+52	1.0322	0.18	IQ				
47+53	1.0273	0.18	IQ				
47+54	1.0224	0.18	IQ				
47+55	1.0176	0.18	IQ				
47+56	1.0128	0.18	IQ				
47+57	1.0080	0.18	IQ				
47+58	1.0032	0.18	IQ				
47+59	0.9984	0.18	Q				
48+ 0	0.9937	0.17	Q				
48+ 1	0.9890	0.17	Q				
48+ 2	0.9843	0.17	Q				
48+ 3	0.9796	0.17	Q				
48+ 4	0.9750	0.17	Q				
48+ 5	0.9704	0.17	Q				
48+ 6	0.9658	0.17	Q				
48+ 7	0.9612	0.17	Q				
48+ 8	0.9566	0.17	Q				
48+ 9	0.9521	0.17	Q				
48+10	0.9476	0.17	Q				
48+11	0.9431	0.17	Q				
48+12	0.9386	0.17	Q				
48+13	0.9342	0.16	Q				
48+14	0.9298	0.16	Q				
48+15	0.9254	0.16	Q				
48+16	0.9210	0.16	Q				
48+17	0.9166	0.16	Q				
48+18	0.9123	0.16	Q				
48+19	0.9079	0.16	Q				
48+20	0.9036	0.16	Q				
48+21	0.8994	0.16	Q				
48+22	0.8951	0.16	Q				
48+23	0.8909	0.16	Q				
48+24	0.8866	0.16	Q				
48+25	0.8824	0.16	Q				
48+26	0.8783	0.15	Q				
48+27	0.8741	0.15	Q				
48+28	0.8700	0.15	Q				
48+29	0.8658	0.15	Q				
48+30	0.8617	0.15	Q				
48+31	0.8576	0.15	Q				
48+32	0.8536	0.15	Q				
48+33	0.8495	0.15	Q				
48+34	0.8455	0.15	Q				
48+35	0.8415	0.15	Q				
48+36	0.8375	0.15	Q				
48+37	0.8335	0.15	Q				
48+38	0.8296	0.15	Q				
48+39	0.8257	0.15	Q				
48+40	0.8218	0.14	Q				
48+41	0.8179	0.14	Q				
48+42	0.8140	0.14	Q				
48+43	0.8101	0.14	Q				
48+44	0.8063	0.14	Q				
48+45	0.8025	0.14	Q				
48+46	0.7987	0.14	Q				
48+47	0.7949	0.14	Q				
48+48	0.7911	0.14	Q				
48+49	0.7874	0.14	Q				
48+50	0.7836	0.14	Q				
48+51	0.7799	0.14	Q				
48+52	0.7762	0.14	Q				

48+53	0.7726	0.14	Q				
48+54	0.7689	0.14	Q				
48+55	0.7652	0.13	Q				
48+56	0.7616	0.13	Q				
48+57	0.7580	0.13	Q				
48+58	0.7544	0.13	Q				
48+59	0.7508	0.13	Q				
49+ 0	0.7473	0.13	Q				
49+ 1	0.7437	0.13	Q				
49+ 2	0.7402	0.13	Q				
49+ 3	0.7367	0.13	Q				
49+ 4	0.7332	0.13	Q				
49+ 5	0.7297	0.13	Q				
49+ 6	0.7263	0.13	Q				
49+ 7	0.7228	0.13	Q				
49+ 8	0.7194	0.13	Q				
49+ 9	0.7160	0.13	Q				
49+10	0.7126	0.13	Q				
49+11	0.7092	0.12	Q				
49+12	0.7059	0.12	Q				
49+13	0.7025	0.12	Q				
49+14	0.6992	0.12	Q				
49+15	0.6959	0.12	Q				
49+16	0.6926	0.12	Q				
49+17	0.6893	0.12	Q				
49+18	0.6861	0.12	Q				
49+19	0.6828	0.12	Q				
49+20	0.6796	0.12	Q				
49+21	0.6763	0.12	Q				
49+22	0.6731	0.12	Q				
49+23	0.6700	0.12	Q				
49+24	0.6668	0.12	Q				
49+25	0.6636	0.12	Q				
49+26	0.6605	0.12	Q				
49+27	0.6573	0.12	Q				
49+28	0.6542	0.12	Q				
49+29	0.6511	0.11	Q				
49+30	0.6480	0.11	Q				
49+31	0.6450	0.11	Q				
49+32	0.6419	0.11	Q				
49+33	0.6389	0.11	Q				
49+34	0.6358	0.11	Q				
49+35	0.6328	0.11	Q				
49+36	0.6298	0.11	Q				
49+37	0.6269	0.11	Q				
49+38	0.6239	0.11	Q				
49+39	0.6209	0.11	Q				
49+40	0.6180	0.11	Q				
49+41	0.6151	0.11	Q				
49+42	0.6121	0.11	Q				
49+43	0.6092	0.11	Q				
49+44	0.6064	0.11	Q				
49+45	0.6035	0.11	Q				
49+46	0.6006	0.11	Q				
49+47	0.5978	0.11	Q				
49+48	0.5949	0.10	Q				
49+49	0.5921	0.10	Q				
49+50	0.5893	0.10	Q				
49+51	0.5865	0.10	Q				
49+52	0.5837	0.10	Q				
49+53	0.5810	0.10	Q				
49+54	0.5782	0.10	Q				
49+55	0.5755	0.10	Q				
49+56	0.5728	0.10	Q				
49+57	0.5700	0.10	Q				
49+58	0.5673	0.10	Q				
49+59	0.5647	0.10	Q				
50+ 0	0.5620	0.10	Q				
50+ 1	0.5593	0.10	Q				
50+ 2	0.5567	0.10	Q				
50+ 3	0.5540	0.10	Q				

50+ 4	0.5514	0.10	Q				
50+ 5	0.5488	0.10	Q				
50+ 6	0.5462	0.10	Q				
50+ 7	0.5436	0.10	Q				
50+ 8	0.5410	0.10	Q				
50+ 9	0.5385	0.09	Q				
50+10	0.5359	0.09	Q				
50+11	0.5334	0.09	Q				
50+12	0.5308	0.09	Q				
50+13	0.5283	0.09	Q				
50+14	0.5258	0.09	Q				
50+15	0.5233	0.09	Q				
50+16	0.5209	0.09	Q				
50+17	0.5184	0.09	Q				
50+18	0.5159	0.09	Q				
50+19	0.5135	0.09	Q				
50+20	0.5111	0.09	Q				
50+21	0.5086	0.09	Q				
50+22	0.5062	0.09	Q				
50+23	0.5038	0.09	Q				
50+24	0.5014	0.09	Q				
50+25	0.4991	0.09	Q				
50+26	0.4967	0.09	Q				
50+27	0.4943	0.09	Q				
50+28	0.4920	0.09	Q				
50+29	0.4897	0.09	Q				
50+30	0.4873	0.09	Q				
50+31	0.4850	0.09	Q				
50+32	0.4827	0.08	Q				
50+33	0.4805	0.08	Q				
50+34	0.4782	0.08	Q				
50+35	0.4759	0.08	Q				
50+36	0.4737	0.08	Q				
50+37	0.4714	0.08	Q				
50+38	0.4692	0.08	Q				
50+39	0.4670	0.08	Q				
50+40	0.4647	0.08	Q				
50+41	0.4625	0.08	Q				
50+42	0.4603	0.08	Q				
50+43	0.4582	0.08	Q				
50+44	0.4560	0.08	Q				
50+45	0.4538	0.08	Q				
50+46	0.4517	0.08	Q				
50+47	0.4495	0.08	Q				
50+48	0.4474	0.08	Q				
50+49	0.4453	0.08	Q				
50+50	0.4432	0.08	Q				
50+51	0.4411	0.08	Q				
50+52	0.4390	0.08	Q				
50+53	0.4369	0.08	Q				
50+54	0.4348	0.08	Q				
50+55	0.4328	0.08	Q				
50+56	0.4307	0.08	Q				
50+57	0.4287	0.08	Q				
50+58	0.4267	0.08	Q				
50+59	0.4246	0.07	Q				
51+ 0	0.4226	0.07	Q				
51+ 1	0.4206	0.07	Q				
51+ 2	0.4186	0.07	Q				
51+ 3	0.4166	0.07	Q				
51+ 4	0.4147	0.07	Q				
51+ 5	0.4127	0.07	Q				
51+ 6	0.4108	0.07	Q				
51+ 7	0.4088	0.07	Q				
51+ 8	0.4069	0.07	Q				
51+ 9	0.4049	0.07	Q				
51+10	0.4030	0.07	Q				
51+11	0.4011	0.07	Q				
51+12	0.3992	0.07	Q				
51+13	0.3973	0.07	Q				
51+14	0.3954	0.07	Q				

51+15	0.3936	0.07	Q				
51+16	0.3917	0.07	Q				
51+17	0.3898	0.07	Q				
51+18	0.3880	0.07	Q				
51+19	0.3862	0.07	Q				
51+20	0.3843	0.07	Q				
51+21	0.3825	0.07	Q				
51+22	0.3807	0.07	Q				
51+23	0.3789	0.07	Q				
51+24	0.3771	0.07	Q				
51+25	0.3753	0.07	Q				
51+26	0.3735	0.07	Q				
51+27	0.3718	0.07	Q				
51+28	0.3700	0.07	Q				
51+29	0.3682	0.06	Q				
51+30	0.3665	0.06	Q				
51+31	0.3648	0.06	Q				
51+32	0.3630	0.06	Q				
51+33	0.3613	0.06	Q				
51+34	0.3596	0.06	Q				
51+35	0.3579	0.06	Q				
51+36	0.3562	0.06	Q				
51+37	0.3545	0.06	Q				
51+38	0.3528	0.06	Q				
51+39	0.3512	0.06	Q				
51+40	0.3495	0.06	Q				
51+41	0.3478	0.06	Q				
51+42	0.3462	0.06	Q				
51+43	0.3446	0.06	Q				
51+44	0.3429	0.06	Q				
51+45	0.3413	0.06	Q				
51+46	0.3397	0.06	Q				
51+47	0.3381	0.06	Q				
51+48	0.3365	0.06	Q				
51+49	0.3349	0.06	Q				
51+50	0.3333	0.06	Q				
51+51	0.3317	0.06	Q				
51+52	0.3301	0.06	Q				
51+53	0.3286	0.06	Q				
51+54	0.3270	0.06	Q				
51+55	0.3255	0.06	Q				
51+56	0.3239	0.06	Q				
51+57	0.3224	0.06	Q				
51+58	0.3209	0.06	Q				
51+59	0.3193	0.06	Q				
52+ 0	0.3178	0.06	Q				
52+ 1	0.3163	0.06	Q				
52+ 2	0.3148	0.06	Q				
52+ 3	0.3133	0.06	Q				
52+ 4	0.3118	0.05	Q				
52+ 5	0.3104	0.05	Q				
52+ 6	0.3089	0.05	Q				
52+ 7	0.3074	0.05	Q				
52+ 8	0.3060	0.05	Q				
52+ 9	0.3045	0.05	Q				
52+10	0.3031	0.05	Q				
52+11	0.3016	0.05	Q				
52+12	0.3002	0.05	Q				
52+13	0.2988	0.05	Q				
52+14	0.2974	0.05	Q				
52+15	0.2960	0.05	Q				
52+16	0.2946	0.05	Q				
52+17	0.2932	0.05	Q				
52+18	0.2918	0.05	Q				
52+19	0.2904	0.05	Q				
52+20	0.2890	0.05	Q				
52+21	0.2877	0.05	Q				
52+22	0.2863	0.05	Q				
52+23	0.2849	0.05	Q				
52+24	0.2836	0.05	Q				
52+25	0.2822	0.05	Q				

52+26	0.2809	0.05	Q				
52+27	0.2796	0.05	Q				
52+28	0.2782	0.05	Q				
52+29	0.2769	0.05	Q				
52+30	0.2756	0.05	Q				
52+31	0.2743	0.05	Q				
52+32	0.2730	0.05	Q				
52+33	0.2717	0.05	Q				
52+34	0.2704	0.05	Q				
52+35	0.2691	0.05	Q				
52+36	0.2679	0.05	Q				
52+37	0.2666	0.05	Q				
52+38	0.2653	0.05	Q				
52+39	0.2641	0.05	Q				
52+40	0.2628	0.05	Q				
52+41	0.2616	0.05	Q				
52+42	0.2603	0.05	Q				
52+43	0.2591	0.05	Q				
52+44	0.2579	0.05	Q				
52+45	0.2567	0.05	Q				
52+46	0.2554	0.04	Q				
52+47	0.2542	0.04	Q				
52+48	0.2530	0.04	Q				
52+49	0.2518	0.04	Q				
52+50	0.2506	0.04	Q				
52+51	0.2495	0.04	Q				
52+52	0.2483	0.04	Q				
52+53	0.2471	0.04	Q				
52+54	0.2459	0.04	Q				
52+55	0.2448	0.04	Q				
52+56	0.2436	0.04	Q				
52+57	0.2424	0.04	Q				
52+58	0.2413	0.04	Q				
52+59	0.2402	0.04	Q				
53+ 0	0.2390	0.04	Q				
53+ 1	0.2379	0.04	Q				
53+ 2	0.2368	0.04	Q				
53+ 3	0.2356	0.04	Q				
53+ 4	0.2345	0.04	Q				
53+ 5	0.2334	0.04	Q				
53+ 6	0.2323	0.04	Q				
53+ 7	0.2312	0.04	Q				
53+ 8	0.2301	0.04	Q				
53+ 9	0.2290	0.04	Q				
53+10	0.2279	0.04	Q				
53+11	0.2268	0.04	Q				
53+12	0.2258	0.04	Q				
53+13	0.2247	0.04	Q				
53+14	0.2236	0.04	Q				
53+15	0.2226	0.04	Q				
53+16	0.2215	0.04	Q				
53+17	0.2205	0.04	Q				
53+18	0.2194	0.04	Q				
53+19	0.2184	0.04	Q				
53+20	0.2174	0.04	Q				
53+21	0.2163	0.04	Q				
53+22	0.2153	0.04	Q				
53+23	0.2143	0.04	Q				
53+24	0.2133	0.04	Q				
53+25	0.2123	0.04	Q				
53+26	0.2112	0.04	Q				
53+27	0.2102	0.04	Q				
53+28	0.2092	0.04	Q				
53+29	0.2083	0.04	Q				
53+30	0.2073	0.04	Q				
53+31	0.2063	0.04	Q				
53+32	0.2053	0.04	Q				
53+33	0.2043	0.04	Q				
53+34	0.2034	0.04	Q				
53+35	0.2024	0.04	Q				
53+36	0.2014	0.04	Q				

53+37	0.2005	0.04	Q				
53+38	0.1995	0.04	Q				
53+39	0.1986	0.03	Q				
53+40	0.1977	0.03	Q				
53+41	0.1967	0.03	Q				
53+42	0.1958	0.03	Q				
53+43	0.1949	0.03	Q				
53+44	0.1939	0.03	Q				
53+45	0.1930	0.03	Q				
53+46	0.1921	0.03	Q				
53+47	0.1912	0.03	Q				
53+48	0.1903	0.03	Q				
53+49	0.1894	0.03	Q				
53+50	0.1885	0.03	Q				
53+51	0.1876	0.03	Q				
53+52	0.1867	0.03	Q				
53+53	0.1858	0.03	Q				
53+54	0.1849	0.03	Q				
53+55	0.1841	0.03	Q				
53+56	0.1832	0.03	Q				
53+57	0.1823	0.03	Q				
53+58	0.1815	0.03	Q				
53+59	0.1806	0.03	Q				
54+ 0	0.1797	0.03	Q				
54+ 1	0.1789	0.03	Q				
54+ 2	0.1780	0.03	Q				
54+ 3	0.1772	0.03	Q				
54+ 4	0.1764	0.03	Q				
54+ 5	0.1755	0.03	Q				
54+ 6	0.1747	0.03	Q				
54+ 7	0.1739	0.03	Q				
54+ 8	0.1730	0.03	Q				
54+ 9	0.1722	0.03	Q				
54+10	0.1714	0.03	Q				
54+11	0.1706	0.03	Q				
54+12	0.1698	0.03	Q				
54+13	0.1690	0.03	Q				
54+14	0.1682	0.03	Q				
54+15	0.1674	0.03	Q				
54+16	0.1666	0.03	Q				
54+17	0.1658	0.03	Q				
54+18	0.1650	0.03	Q				
54+19	0.1642	0.03	Q				
54+20	0.1635	0.03	Q				
54+21	0.1627	0.03	Q				
54+22	0.1619	0.03	Q				
54+23	0.1611	0.03	Q				
54+24	0.1604	0.03	Q				
54+25	0.1596	0.03	Q				
54+26	0.1589	0.03	Q				
54+27	0.1581	0.03	Q				
54+28	0.1574	0.03	Q				
54+29	0.1566	0.03	Q				
54+30	0.1559	0.03	Q				
54+31	0.1551	0.03	Q				
54+32	0.1544	0.03	Q				
54+33	0.1537	0.03	Q				
54+34	0.1529	0.03	Q				
54+35	0.1522	0.03	Q				
54+36	0.1515	0.03	Q				
54+37	0.1508	0.03	Q				
54+38	0.1501	0.03	Q				
54+39	0.1494	0.03	Q				
54+40	0.1486	0.03	Q				
54+41	0.1479	0.03	Q				
54+42	0.1472	0.03	Q				
54+43	0.1465	0.03	Q				
54+44	0.1458	0.03	Q				
54+45	0.1452	0.03	Q				
54+46	0.1445	0.03	Q				
54+47	0.1438	0.03	Q				

54+48	0.1431	0.03	Q				
54+49	0.1424	0.03	Q				
54+50	0.1417	0.02	Q				
54+51	0.1411	0.02	Q				
54+52	0.1404	0.02	Q				
54+53	0.1397	0.02	Q				
54+54	0.1391	0.02	Q				
54+55	0.1384	0.02	Q				
54+56	0.1378	0.02	Q				
54+57	0.1371	0.02	Q				
54+58	0.1365	0.02	Q				
54+59	0.1358	0.02	Q				
55+ 0	0.1352	0.02	Q				
55+ 1	0.1345	0.02	Q				
55+ 2	0.1339	0.02	Q				
55+ 3	0.1333	0.02	Q				
55+ 4	0.1326	0.02	Q				
55+ 5	0.1320	0.02	Q				
55+ 6	0.1314	0.02	Q				
55+ 7	0.1308	0.02	Q				
55+ 8	0.1301	0.02	Q				
55+ 9	0.1295	0.02	Q				
55+10	0.1289	0.02	Q				
55+11	0.1283	0.02	Q				
55+12	0.1277	0.02	Q				
55+13	0.1271	0.02	Q				
55+14	0.1265	0.02	Q				
55+15	0.1259	0.02	Q				
55+16	0.1253	0.02	Q				
55+17	0.1247	0.02	Q				
55+18	0.1241	0.02	Q				
55+19	0.1235	0.02	Q				
55+20	0.1229	0.02	Q				
55+21	0.1223	0.02	Q				
55+22	0.1218	0.02	Q				
55+23	0.1212	0.02	Q				
55+24	0.1206	0.02	Q				
55+25	0.1200	0.02	Q				
55+26	0.1195	0.02	Q				
55+27	0.1189	0.02	Q				
55+28	0.1183	0.02	Q				
55+29	0.1178	0.02	Q				
55+30	0.1172	0.02	Q				
55+31	0.1167	0.02	Q				
55+32	0.1161	0.02	Q				
55+33	0.1156	0.02	Q				
55+34	0.1150	0.02	Q				
55+35	0.1145	0.02	Q				
55+36	0.1139	0.02	Q				
55+37	0.1134	0.02	Q				
55+38	0.1129	0.02	Q				
55+39	0.1123	0.02	Q				
55+40	0.1118	0.02	Q				
55+41	0.1113	0.02	Q				
55+42	0.1107	0.02	Q				
55+43	0.1102	0.02	Q				
55+44	0.1097	0.02	Q				
55+45	0.1092	0.02	Q				
55+46	0.1086	0.02	Q				
55+47	0.1081	0.02	Q				
55+48	0.1076	0.02	Q				
55+49	0.1071	0.02	Q				
55+50	0.1066	0.02	Q				
55+51	0.1061	0.02	Q				
55+52	0.1056	0.02	Q				
55+53	0.1051	0.02	Q				
55+54	0.1046	0.02	Q				
55+55	0.1041	0.02	Q				
55+56	0.1036	0.02	Q				
55+57	0.1031	0.02	Q				
55+58	0.1026	0.02	Q				

55+59	0.1021	0.02	Q				
56+ 0	0.1017	0.02	Q				
56+ 1	0.1012	0.02	Q				
56+ 2	0.1007	0.02	Q				
56+ 3	0.1002	0.02	Q				
56+ 4	0.0997	0.02	Q				
56+ 5	0.0993	0.02	Q				
56+ 6	0.0988	0.02	Q				
56+ 7	0.0983	0.02	Q				
56+ 8	0.0979	0.02	Q				
56+ 9	0.0974	0.02	Q				
56+10	0.0969	0.02	Q				
56+11	0.0965	0.02	Q				
56+12	0.0960	0.02	Q				
56+13	0.0956	0.02	Q				
56+14	0.0951	0.02	Q				
56+15	0.0947	0.02	Q				
56+16	0.0942	0.02	Q				
56+17	0.0938	0.02	Q				
56+18	0.0933	0.02	Q				
56+19	0.0929	0.02	Q				
56+20	0.0924	0.02	Q				
56+21	0.0920	0.02	Q				
56+22	0.0916	0.02	Q				
56+23	0.0911	0.02	Q				
56+24	0.0907	0.02	Q				
56+25	0.0903	0.02	Q				
56+26	0.0898	0.02	Q				
56+27	0.0894	0.02	Q				
56+28	0.0890	0.02	Q				
56+29	0.0886	0.02	Q				
56+30	0.0882	0.02	Q				
56+31	0.0877	0.02	Q				
56+32	0.0873	0.02	Q				
56+33	0.0869	0.02	Q				
56+34	0.0865	0.02	Q				
56+35	0.0861	0.02	Q				
56+36	0.0857	0.02	Q				
56+37	0.0853	0.02	Q				
56+38	0.0849	0.01	Q				
56+39	0.0845	0.01	Q				
56+40	0.0841	0.01	Q				
56+41	0.0837	0.01	Q				
56+42	0.0833	0.01	Q				
56+43	0.0829	0.01	Q				
56+44	0.0825	0.01	Q				
56+45	0.0821	0.01	Q				
56+46	0.0817	0.01	Q				
56+47	0.0813	0.01	Q				
56+48	0.0809	0.01	Q				
56+49	0.0805	0.01	Q				
56+50	0.0802	0.01	Q				
56+51	0.0798	0.01	Q				
56+52	0.0794	0.01	Q				
56+53	0.0790	0.01	Q				
56+54	0.0787	0.01	Q				
56+55	0.0783	0.01	Q				
56+56	0.0779	0.01	Q				
56+57	0.0775	0.01	Q				
56+58	0.0772	0.01	Q				
56+59	0.0768	0.01	Q				
57+ 0	0.0764	0.01	Q				
57+ 1	0.0761	0.01	Q				
57+ 2	0.0757	0.01	Q				
57+ 3	0.0754	0.01	Q				
57+ 4	0.0750	0.01	Q				
57+ 5	0.0747	0.01	Q				
57+ 6	0.0743	0.01	Q				
57+ 7	0.0739	0.01	Q				
57+ 8	0.0736	0.01	Q				
57+ 9	0.0732	0.01	Q				

57+10	0.0729	0.01	Q				
57+11	0.0726	0.01	Q				
57+12	0.0722	0.01	Q				
57+13	0.0719	0.01	Q				
57+14	0.0715	0.01	Q				
57+15	0.0712	0.01	Q				
57+16	0.0709	0.01	Q				
57+17	0.0705	0.01	Q				
57+18	0.0702	0.01	Q				
57+19	0.0698	0.01	Q				
57+20	0.0695	0.01	Q				
57+21	0.0692	0.01	Q				
57+22	0.0689	0.01	Q				
57+23	0.0685	0.01	Q				
57+24	0.0682	0.01	Q				
57+25	0.0679	0.01	Q				
57+26	0.0676	0.01	Q				
57+27	0.0672	0.01	Q				
57+28	0.0669	0.01	Q				
57+29	0.0666	0.01	Q				
57+30	0.0663	0.01	Q				
57+31	0.0660	0.01	Q				
57+32	0.0657	0.01	Q				
57+33	0.0654	0.01	Q				
57+34	0.0650	0.01	Q				
57+35	0.0647	0.01	Q				
57+36	0.0644	0.01	Q				
57+37	0.0641	0.01	Q				
57+38	0.0638	0.01	Q				
57+39	0.0635	0.01	Q				
57+40	0.0632	0.01	Q				
57+41	0.0629	0.01	Q				
57+42	0.0626	0.01	Q				
57+43	0.0623	0.01	Q				
57+44	0.0620	0.01	Q				
57+45	0.0617	0.01	Q				
57+46	0.0614	0.01	Q				
57+47	0.0612	0.01	Q				
57+48	0.0609	0.01	Q				
57+49	0.0606	0.01	Q				
57+50	0.0603	0.01	Q				
57+51	0.0600	0.01	Q				
57+52	0.0597	0.01	Q				
57+53	0.0594	0.01	Q				
57+54	0.0592	0.01	Q				
57+55	0.0589	0.01	Q				
57+56	0.0586	0.01	Q				
57+57	0.0583	0.01	Q				
57+58	0.0580	0.01	Q				
57+59	0.0578	0.01	Q				
58+ 0	0.0575	0.01	Q				
58+ 1	0.0572	0.01	Q				
58+ 2	0.0569	0.01	Q				
58+ 3	0.0567	0.01	Q				
58+ 4	0.0564	0.01	Q				
58+ 5	0.0561	0.01	Q				
58+ 6	0.0559	0.01	Q				
58+ 7	0.0556	0.01	Q				
58+ 8	0.0553	0.01	Q				
58+ 9	0.0551	0.01	Q				
58+10	0.0548	0.01	Q				
58+11	0.0546	0.01	Q				
58+12	0.0543	0.01	Q				
58+13	0.0540	0.01	Q				
58+14	0.0538	0.01	Q				
58+15	0.0535	0.01	Q				
58+16	0.0533	0.01	Q				
58+17	0.0530	0.01	Q				
58+18	0.0528	0.01	Q				
58+19	0.0525	0.01	Q				
58+20	0.0523	0.01	Q				

58+21	0.0520	0.01	Q				
58+22	0.0518	0.01	Q				
58+23	0.0515	0.01	Q				
58+24	0.0513	0.01	Q				
58+25	0.0511	0.01	Q				
58+26	0.0508	0.01	Q				
58+27	0.0506	0.01	Q				
58+28	0.0503	0.01	Q				
58+29	0.0501	0.01	Q				
58+30	0.0499	0.01	Q				
58+31	0.0496	0.01	Q				
58+32	0.0494	0.01	Q				
58+33	0.0491	0.01	Q				
58+34	0.0489	0.01	Q				
58+35	0.0487	0.01	Q				
58+36	0.0485	0.01	Q				
58+37	0.0482	0.01	Q				
58+38	0.0480	0.01	Q				
58+39	0.0478	0.01	Q				
58+40	0.0475	0.01	Q				
58+41	0.0473	0.01	Q				
58+42	0.0471	0.01	Q				
58+43	0.0469	0.01	Q				
58+44	0.0466	0.01	Q				
58+45	0.0464	0.01	Q				
58+46	0.0462	0.01	Q				
58+47	0.0460	0.01	Q				
58+48	0.0458	0.01	Q				
58+49	0.0456	0.01	Q				
58+50	0.0453	0.01	Q				
58+51	0.0451	0.01	Q				
58+52	0.0449	0.01	Q				
58+53	0.0447	0.01	Q				
58+54	0.0445	0.01	Q				
58+55	0.0443	0.01	Q				
58+56	0.0441	0.01	Q				
58+57	0.0439	0.01	Q				
58+58	0.0436	0.01	Q				
58+59	0.0434	0.01	Q				
59+ 0	0.0432	0.01	Q				
59+ 1	0.0430	0.01	Q				
59+ 2	0.0428	0.01	Q				
59+ 3	0.0426	0.01	Q				
59+ 4	0.0424	0.01	Q				
59+ 5	0.0422	0.01	Q				
59+ 6	0.0420	0.01	Q				
59+ 7	0.0418	0.01	Q				
59+ 8	0.0416	0.01	Q				
59+ 9	0.0414	0.01	Q				
59+10	0.0412	0.01	Q				
59+11	0.0410	0.01	Q				
59+12	0.0408	0.01	Q				
59+13	0.0406	0.01	Q				
59+14	0.0405	0.01	Q				
59+15	0.0403	0.01	Q				
59+16	0.0401	0.01	Q				
59+17	0.0399	0.01	Q				
59+18	0.0397	0.01	Q				
59+19	0.0395	0.01	Q				
59+20	0.0393	0.01	Q				
59+21	0.0391	0.01	Q				
59+22	0.0389	0.01	Q				
59+23	0.0388	0.01	Q				
59+24	0.0386	0.01	Q				
59+25	0.0384	0.01	Q				
59+26	0.0382	0.01	Q				
59+27	0.0380	0.01	Q				
59+28	0.0379	0.01	Q				
59+29	0.0377	0.01	Q				
59+30	0.0375	0.01	Q				
59+31	0.0373	0.01	Q				

59+32	0.0371	0.01	Q				
59+33	0.0370	0.01	Q				
59+34	0.0368	0.01	Q				
59+35	0.0366	0.01	Q				
59+36	0.0364	0.01	Q				
59+37	0.0363	0.01	Q				
59+38	0.0361	0.01	Q				
59+39	0.0359	0.01	Q				
59+40	0.0358	0.01	Q				
59+41	0.0356	0.01	Q				
59+42	0.0354	0.01	Q				
59+43	0.0352	0.01	Q				
59+44	0.0351	0.01	Q				
59+45	0.0349	0.01	Q				
59+46	0.0347	0.01	Q				
59+47	0.0346	0.01	Q				
59+48	0.0344	0.01	Q				
59+49	0.0343	0.01	Q				
59+50	0.0341	0.01	Q				
59+51	0.0339	0.01	Q				
59+52	0.0338	0.01	Q				
59+53	0.0336	0.01	Q				
59+54	0.0335	0.01	Q				
59+55	0.0333	0.01	Q				
59+56	0.0331	0.01	Q				
59+57	0.0330	0.01	Q				
59+58	0.0328	0.01	Q				
59+59	0.0327	0.01	Q				
60+ 0	0.0325	0.01	Q				
60+ 1	0.0324	0.01	Q				
60+ 2	0.0322	0.01	Q				
60+ 3	0.0321	0.01	Q				
60+ 4	0.0319	0.01	Q				
60+ 5	0.0318	0.01	Q				
60+ 6	0.0316	0.01	Q				
60+ 7	0.0315	0.01	Q				
60+ 8	0.0313	0.01	Q				
60+ 9	0.0312	0.01	Q				
60+10	0.0310	0.01	Q				
60+11	0.0309	0.01	Q				
60+12	0.0307	0.01	Q				
60+13	0.0306	0.01	Q				
60+14	0.0304	0.01	Q				
60+15	0.0303	0.01	Q				
60+16	0.0301	0.01	Q				
60+17	0.0300	0.01	Q				
60+18	0.0298	0.01	Q				
60+19	0.0297	0.01	Q				
60+20	0.0296	0.01	Q				
60+21	0.0294	0.01	Q				
60+22	0.0293	0.01	Q				
60+23	0.0291	0.01	Q				
60+24	0.0290	0.01	Q				
60+25	0.0289	0.01	Q				
60+26	0.0287	0.01	Q				
60+27	0.0286	0.01	Q				
60+28	0.0285	0.01	Q				
60+29	0.0283	0.00	Q				
60+30	0.0282	0.00	Q				
60+31	0.0281	0.00	Q				
60+32	0.0279	0.00	Q				
60+33	0.0278	0.00	Q				
60+34	0.0277	0.00	Q				
60+35	0.0275	0.00	Q				
60+36	0.0274	0.00	Q				
60+37	0.0273	0.00	Q				
60+38	0.0271	0.00	Q				
60+39	0.0270	0.00	Q				
60+40	0.0269	0.00	Q				
60+41	0.0268	0.00	Q				
60+42	0.0266	0.00	Q				

60+43	0.0265	0.00	Q				
60+44	0.0264	0.00	Q				
60+45	0.0263	0.00	Q				
60+46	0.0261	0.00	Q				
60+47	0.0260	0.00	Q				
60+48	0.0259	0.00	Q				
60+49	0.0258	0.00	Q				
60+50	0.0256	0.00	Q				
60+51	0.0255	0.00	Q				
60+52	0.0254	0.00	Q				
60+53	0.0253	0.00	Q				
60+54	0.0252	0.00	Q				
60+55	0.0250	0.00	Q				
60+56	0.0249	0.00	Q				
60+57	0.0248	0.00	Q				
60+58	0.0247	0.00	Q				
60+59	0.0246	0.00	Q				
61+ 0	0.0245	0.00	Q				
61+ 1	0.0243	0.00	Q				
61+ 2	0.0242	0.00	Q				
61+ 3	0.0241	0.00	Q				
61+ 4	0.0240	0.00	Q				
61+ 5	0.0239	0.00	Q				
61+ 6	0.0238	0.00	Q				
61+ 7	0.0237	0.00	Q				
61+ 8	0.0235	0.00	Q				
61+ 9	0.0234	0.00	Q				
61+10	0.0233	0.00	Q				
61+11	0.0232	0.00	Q				
61+12	0.0231	0.00	Q				
61+13	0.0230	0.00	Q				
61+14	0.0229	0.00	Q				
61+15	0.0228	0.00	Q				
61+16	0.0227	0.00	Q				
61+17	0.0226	0.00	Q				
61+18	0.0224	0.00	Q				
61+19	0.0223	0.00	Q				
61+20	0.0222	0.00	Q				
61+21	0.0221	0.00	Q				
61+22	0.0220	0.00	Q				
61+23	0.0219	0.00	Q				
61+24	0.0218	0.00	Q				
61+25	0.0217	0.00	Q				
61+26	0.0216	0.00	Q				
61+27	0.0215	0.00	Q				
61+28	0.0214	0.00	Q				
61+29	0.0213	0.00	Q				
61+30	0.0212	0.00	Q				
61+31	0.0211	0.00	Q				
61+32	0.0210	0.00	Q				
61+33	0.0209	0.00	Q				
61+34	0.0208	0.00	Q				
61+35	0.0207	0.00	Q				
61+36	0.0206	0.00	Q				
61+37	0.0205	0.00	Q				
61+38	0.0204	0.00	Q				
61+39	0.0203	0.00	Q				
61+40	0.0202	0.00	Q				
61+41	0.0201	0.00	Q				
61+42	0.0200	0.00	Q				
61+43	0.0199	0.00	Q				
61+44	0.0198	0.00	Q				
61+45	0.0197	0.00	Q				
61+46	0.0197	0.00	Q				
61+47	0.0196	0.00	Q				
61+48	0.0195	0.00	Q				
61+49	0.0194	0.00	Q				
61+50	0.0193	0.00	Q				
61+51	0.0192	0.00	Q				
61+52	0.0191	0.00	Q				
61+53	0.0190	0.00	Q				

61+54	0.0189	0.00	Q				
61+55	0.0188	0.00	Q				
61+56	0.0187	0.00	Q				
61+57	0.0187	0.00	Q				
61+58	0.0186	0.00	Q				
61+59	0.0185	0.00	Q				
62+ 0	0.0184	0.00	Q				
62+ 1	0.0183	0.00	Q				
62+ 2	0.0182	0.00	Q				
62+ 3	0.0181	0.00	Q				
62+ 4	0.0180	0.00	Q				
62+ 5	0.0180	0.00	Q				
62+ 6	0.0179	0.00	Q				
62+ 7	0.0178	0.00	Q				
62+ 8	0.0177	0.00	Q				
62+ 9	0.0176	0.00	Q				
62+10	0.0175	0.00	Q				
62+11	0.0175	0.00	Q				
62+12	0.0174	0.00	Q				
62+13	0.0173	0.00	Q				
62+14	0.0172	0.00	Q				
62+15	0.0171	0.00	Q				
62+16	0.0170	0.00	Q				
62+17	0.0170	0.00	Q				
62+18	0.0169	0.00	Q				
62+19	0.0168	0.00	Q				
62+20	0.0167	0.00	Q				
62+21	0.0166	0.00	Q				
62+22	0.0166	0.00	Q				
62+23	0.0165	0.00	Q				
62+24	0.0164	0.00	Q				
62+25	0.0163	0.00	Q				
62+26	0.0163	0.00	Q				
62+27	0.0162	0.00	Q				
62+28	0.0161	0.00	Q				
62+29	0.0160	0.00	Q				
62+30	0.0159	0.00	Q				
62+31	0.0159	0.00	Q				
62+32	0.0158	0.00	Q				
62+33	0.0157	0.00	Q				
62+34	0.0156	0.00	Q				
62+35	0.0156	0.00	Q				
62+36	0.0155	0.00	Q				
62+37	0.0154	0.00	Q				
62+38	0.0154	0.00	Q				
62+39	0.0153	0.00	Q				
62+40	0.0152	0.00	Q				
62+41	0.0151	0.00	Q				
62+42	0.0151	0.00	Q				
62+43	0.0150	0.00	Q				
62+44	0.0149	0.00	Q				
62+45	0.0148	0.00	Q				
62+46	0.0148	0.00	Q				
62+47	0.0147	0.00	Q				
62+48	0.0146	0.00	Q				
62+49	0.0146	0.00	Q				
62+50	0.0145	0.00	Q				
62+51	0.0144	0.00	Q				
62+52	0.0144	0.00	Q				
62+53	0.0143	0.00	Q				
62+54	0.0142	0.00	Q				
62+55	0.0142	0.00	Q				
62+56	0.0141	0.00	Q				
62+57	0.0140	0.00	Q				
62+58	0.0140	0.00	Q				
62+59	0.0139	0.00	Q				
63+ 0	0.0138	0.00	Q				
63+ 1	0.0138	0.00	Q				
63+ 2	0.0137	0.00	Q				
63+ 3	0.0136	0.00	Q				
63+ 4	0.0136	0.00	Q				

63+ 5	0.0135	0.00	Q				
63+ 6	0.0134	0.00	Q				
63+ 7	0.0134	0.00	Q				
63+ 8	0.0133	0.00	Q				
63+ 9	0.0132	0.00	Q				
63+10	0.0132	0.00	Q				
63+11	0.0131	0.00	Q				
63+12	0.0131	0.00	Q				
63+13	0.0130	0.00	Q				
63+14	0.0129	0.00	Q				
63+15	0.0129	0.00	Q				
63+16	0.0128	0.00	Q				
63+17	0.0128	0.00	Q				
63+18	0.0127	0.00	Q				
63+19	0.0126	0.00	Q				
63+20	0.0126	0.00	Q				
63+21	0.0125	0.00	Q				
63+22	0.0125	0.00	Q				
63+23	0.0124	0.00	Q				
63+24	0.0123	0.00	Q				
63+25	0.0123	0.00	Q				
63+26	0.0122	0.00	Q				
63+27	0.0122	0.00	Q				
63+28	0.0121	0.00	Q				
63+29	0.0120	0.00	Q				
63+30	0.0120	0.00	Q				
63+31	0.0119	0.00	Q				
63+32	0.0119	0.00	Q				
63+33	0.0118	0.00	Q				
63+34	0.0118	0.00	Q				
63+35	0.0117	0.00	Q				
63+36	0.0117	0.00	Q				
63+37	0.0116	0.00	Q				
63+38	0.0115	0.00	Q				
63+39	0.0115	0.00	Q				
63+40	0.0114	0.00	Q				
63+41	0.0114	0.00	Q				
63+42	0.0113	0.00	Q				
63+43	0.0113	0.00	Q				
63+44	0.0112	0.00	Q				
63+45	0.0112	0.00	Q				
63+46	0.0111	0.00	Q				
63+47	0.0111	0.00	Q				
63+48	0.0110	0.00	Q				
63+49	0.0110	0.00	Q				
63+50	0.0109	0.00	Q				
63+51	0.0109	0.00	Q				
63+52	0.0108	0.00	Q				
63+53	0.0108	0.00	Q				
63+54	0.0107	0.00	Q				
63+55	0.0106	0.00	Q				
63+56	0.0106	0.00	Q				
63+57	0.0105	0.00	Q				
63+58	0.0105	0.00	Q				
63+59	0.0104	0.00	Q				
64+ 0	0.0104	0.00	Q				
64+ 1	0.0103	0.00	Q				
64+ 2	0.0103	0.00	Q				
64+ 3	0.0103	0.00	Q				
64+ 4	0.0102	0.00	Q				
64+ 5	0.0102	0.00	Q				
64+ 6	0.0101	0.00	Q				
64+ 7	0.0101	0.00	Q				
64+ 8	0.0100	0.00	Q				
64+ 9	0.0100	0.00	Q				
64+10	0.0099	0.00	Q				
64+11	0.0099	0.00	Q				
64+12	0.0098	0.00	Q				
64+13	0.0098	0.00	Q				
64+14	0.0097	0.00	Q				
64+15	0.0097	0.00	Q				

64+16	0.0096	0.00	Q				
64+17	0.0096	0.00	Q				
64+18	0.0095	0.00	Q				
64+19	0.0095	0.00	Q				
64+20	0.0095	0.00	Q				
64+21	0.0094	0.00	Q				
64+22	0.0094	0.00	Q				
64+23	0.0093	0.00	Q				
64+24	0.0093	0.00	Q				
64+25	0.0092	0.00	Q				
64+26	0.0092	0.00	Q				
64+27	0.0091	0.00	Q				
64+28	0.0091	0.00	Q				
64+29	0.0091	0.00	Q				
64+30	0.0090	0.00	Q				
64+31	0.0090	0.00	Q				
64+32	0.0089	0.00	Q				
64+33	0.0089	0.00	Q				
64+34	0.0088	0.00	Q				
64+35	0.0088	0.00	Q				
64+36	0.0088	0.00	Q				
64+37	0.0087	0.00	Q				
64+38	0.0087	0.00	Q				
64+39	0.0086	0.00	Q				
64+40	0.0086	0.00	Q				
64+41	0.0086	0.00	Q				
64+42	0.0085	0.00	Q				
64+43	0.0085	0.00	Q				
64+44	0.0084	0.00	Q				
64+45	0.0084	0.00	Q				
64+46	0.0084	0.00	Q				
64+47	0.0083	0.00	Q				
64+48	0.0083	0.00	Q				
64+49	0.0082	0.00	Q				
64+50	0.0082	0.00	Q				
64+51	0.0082	0.00	Q				
64+52	0.0081	0.00	Q				
64+53	0.0081	0.00	Q				
64+54	0.0080	0.00	Q				
64+55	0.0080	0.00	Q				
64+56	0.0080	0.00	Q				
64+57	0.0079	0.00	Q				
64+58	0.0079	0.00	Q				
64+59	0.0079	0.00	Q				
65+ 0	0.0078	0.00	Q				
65+ 1	0.0078	0.00	Q				
65+ 2	0.0077	0.00	Q				
65+ 3	0.0077	0.00	Q				
65+ 4	0.0077	0.00	Q				
65+ 5	0.0076	0.00	Q				
65+ 6	0.0076	0.00	Q				
65+ 7	0.0076	0.00	Q				
65+ 8	0.0075	0.00	Q				
65+ 9	0.0075	0.00	Q				
65+10	0.0075	0.00	Q				
65+11	0.0074	0.00	Q				
65+12	0.0074	0.00	Q				
65+13	0.0074	0.00	Q				
65+14	0.0073	0.00	Q				
65+15	0.0073	0.00	Q				
65+16	0.0072	0.00	Q				
65+17	0.0072	0.00	Q				
65+18	0.0072	0.00	Q				
65+19	0.0071	0.00	Q				
65+20	0.0071	0.00	Q				
65+21	0.0071	0.00	Q				
65+22	0.0070	0.00	Q				
65+23	0.0070	0.00	Q				
65+24	0.0070	0.00	Q				
65+25	0.0069	0.00	Q				
65+26	0.0069	0.00	Q				

65+27	0.0069	0.00	Q				
65+28	0.0068	0.00	Q				
65+29	0.0068	0.00	Q				
65+30	0.0068	0.00	Q				
65+31	0.0067	0.00	Q				
65+32	0.0067	0.00	Q				
65+33	0.0067	0.00	Q				
65+34	0.0067	0.00	Q				
65+35	0.0066	0.00	Q				
65+36	0.0066	0.00	Q				
65+37	0.0066	0.00	Q				
65+38	0.0065	0.00	Q				
65+39	0.0065	0.00	Q				
65+40	0.0065	0.00	Q				
65+41	0.0064	0.00	Q				
65+42	0.0064	0.00	Q				
65+43	0.0064	0.00	Q				
65+44	0.0063	0.00	Q				
65+45	0.0063	0.00	Q				
65+46	0.0063	0.00	Q				
65+47	0.0063	0.00	Q				
65+48	0.0062	0.00	Q				
65+49	0.0062	0.00	Q				
65+50	0.0062	0.00	Q				
65+51	0.0061	0.00	Q				
65+52	0.0061	0.00	Q				
65+53	0.0061	0.00	Q				
65+54	0.0061	0.00	Q				
65+55	0.0060	0.00	Q				
65+56	0.0060	0.00	Q				
65+57	0.0060	0.00	Q				
65+58	0.0059	0.00	Q				
65+59	0.0059	0.00	Q				
66+ 0	0.0059	0.00	Q				
66+ 1	0.0059	0.00	Q				
66+ 2	0.0058	0.00	Q				
66+ 3	0.0058	0.00	Q				
66+ 4	0.0058	0.00	Q				
66+ 5	0.0057	0.00	Q				
66+ 6	0.0057	0.00	Q				
66+ 7	0.0057	0.00	Q				

*****HYDROGRAPH DATA*****

Number of intervals = 3967
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 7.041 (CFS)
Total volume = 6.352 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++

Process from Point/Station 703.000 to Point/Station 1.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

Current stream hydrograph of 1.0 minute intervals has been stored as stream number 1 with a starting time of 0.00 hours and ending time of 66.00 hours With a total volume of 6.35(Ac.Ft)

*****HYDROGRAPH DATA*****

Number of intervals = 0
Time interval = 0.0 (Min.)
Maximum/Peak flow rate = 0.000 (CFS)
Total volume = 0.000 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

Peak (CFS) 7.041 0.000 0.000 0.000 0.000
 Vol (Ac.Ft) 6.352 0.000 0.000 0.000 0.000

+-----+
 +-----+
 Process from Point/Station 704.000 to Point/Station 1.000
 **** ADD/COMBINE/RECOVER HYDROGRAPHS ****

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rtebas2POC1.rte
 +-----+
 P R I N T O F S T O R M
 R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	0.4	0.9	1.3	1.7
0+ 1	0.0000	0.00	Q				
0+ 2	0.0000	0.00	Q				
0+ 3	0.0000	0.00	Q				
0+ 4	11.6835	0.51		Q			
0+ 5	25.2290	1.09			Q		
0+ 6	30.7744	1.33				Q	
0+ 7	33.0410	1.43				Q	
0+ 8	33.9646	1.47				Q	
0+ 9	34.3389	1.49				Q	
0+10	34.4894	1.49				Q	
0+11	34.5490	1.49				Q	
0+12	34.5717	1.50				Q	
0+13	34.5794	1.50				Q	
0+14	34.5808	1.50				Q	
0+15	34.5797	1.50				Q	
0+16	34.5776	1.50				Q	
0+17	34.5751	1.50				Q	
0+18	34.5724	1.50				Q	
0+19	34.5698	1.50				Q	
0+20	34.5671	1.50				Q	
0+21	34.5646	1.50				Q	
0+22	34.5620	1.49				Q	
0+23	34.5596	1.49				Q	
0+24	34.5572	1.49				Q	
0+25	34.5548	1.49				Q	
0+26	34.5525	1.49				Q	
0+27	34.5503	1.49				Q	
0+28	34.5481	1.49				Q	
0+29	34.5459	1.49				Q	
0+30	34.5437	1.49				Q	
0+31	34.5416	1.49				Q	
0+32	34.5395	1.49				Q	
0+33	34.5375	1.49				Q	
0+34	34.5356	1.49				Q	
0+35	34.5337	1.49				Q	
0+36	34.5319	1.49				Q	
0+37	34.5301	1.49				Q	
0+38	34.5284	1.49				Q	
0+39	34.5268	1.49				Q	
0+40	34.5253	1.49				Q	
0+41	34.5237	1.49				Q	
0+42	34.5223	1.49				Q	
0+43	34.5208	1.49				Q	
0+44	34.5194	1.49				Q	
0+45	34.5181	1.49				Q	
0+46	34.5168	1.49				Q	
0+47	34.5155	1.49				Q	
0+48	34.5143	1.49				Q	

0+49	34.5132	1.49					Q	
0+50	34.5122	1.49					Q	
0+51	34.5112	1.49					Q	
0+52	34.5103	1.49					Q	
0+53	34.5095	1.49					Q	
0+54	34.5088	1.49					Q	
0+55	34.5081	1.49					Q	
0+56	34.5074	1.49					Q	
0+57	34.5068	1.49					Q	
0+58	34.5063	1.49					Q	
0+59	34.5057	1.49					Q	
1+ 0	34.5053	1.49					Q	
1+ 1	34.5048	1.49					Q	
1+ 2	34.5045	1.49					Q	
1+ 3	34.5043	1.49					Q	
1+ 4	34.5041	1.49					Q	
1+ 5	34.5040	1.49					Q	
1+ 6	34.5041	1.49					Q	
1+ 7	34.5042	1.49					Q	
1+ 8	34.5043	1.49					Q	
1+ 9	34.5045	1.49					Q	
1+10	34.5048	1.49					Q	
1+11	34.5051	1.49					Q	
1+12	34.5055	1.49					Q	
1+13	34.5059	1.49					Q	
1+14	34.5064	1.49					Q	
1+15	34.5069	1.49					Q	
1+16	34.5075	1.49					Q	
1+17	34.5082	1.49					Q	
1+18	34.5091	1.49					Q	
1+19	34.5100	1.49					Q	
1+20	34.5110	1.49					Q	
1+21	34.5121	1.49					Q	
1+22	34.5133	1.49					Q	
1+23	34.5146	1.49					Q	
1+24	34.5159	1.49					Q	
1+25	34.5172	1.49					Q	
1+26	34.5187	1.49					Q	
1+27	34.5201	1.49					Q	
1+28	34.5217	1.49					Q	
1+29	34.5233	1.49					Q	
1+30	34.5250	1.49					Q	
1+31	34.5268	1.49					Q	
1+32	34.5288	1.49					Q	
1+33	34.5308	1.49					Q	
1+34	34.5330	1.49					Q	
1+35	34.5353	1.49					Q	
1+36	34.5376	1.49					Q	
1+37	34.5401	1.49					Q	
1+38	34.5426	1.49					Q	
1+39	34.5451	1.49					Q	
1+40	34.5477	1.49					Q	
1+41	34.5504	1.49					Q	
1+42	34.5532	1.49					Q	
1+43	34.5560	1.49					Q	
1+44	34.5590	1.49					Q	
1+45	34.5621	1.49					Q	
1+46	34.5653	1.50					Q	
1+47	34.5687	1.50					Q	
1+48	34.5722	1.50					Q	
1+49	34.5758	1.50					Q	
1+50	34.5795	1.50					Q	
1+51	34.5833	1.50					Q	
1+52	34.5872	1.50					Q	
1+53	34.5912	1.50					Q	
1+54	34.5952	1.50					Q	
1+55	34.5993	1.50					Q	
1+56	34.6035	1.50					Q	
1+57	34.6078	1.50					Q	
1+58	34.6122	1.50					Q	
1+59	34.6168	1.50					Q	

2+ 0	34.6215	1.50					Q	
2+ 1	34.6264	1.50					Q	
2+ 2	34.6315	1.50					Q	
2+ 3	34.6367	1.50					Q	
2+ 4	34.6420	1.50					Q	
2+ 5	34.6474	1.50					Q	
2+ 6	34.6529	1.50					Q	
2+ 7	34.6585	1.50					Q	
2+ 8	34.6642	1.50					Q	
2+ 9	34.6699	1.50					Q	
2+10	34.6751	1.50					Q	
2+11	34.6792	1.50					Q	
2+12	34.6826	1.50					Q	
2+13	34.6856	1.50					Q	
2+14	34.6887	1.50					Q	
2+15	34.6917	1.50					Q	
2+16	34.6948	1.50					Q	
2+17	34.6980	1.50					Q	
2+18	34.7012	1.50					Q	
2+19	34.7045	1.50					Q	
2+20	34.7079	1.50					Q	
2+21	34.7113	1.50					Q	
2+22	34.7147	1.50					Q	
2+23	34.7182	1.50					Q	
2+24	34.7217	1.50					Q	
2+25	34.7254	1.50					Q	
2+26	34.7291	1.50					Q	
2+27	34.7329	1.50					Q	
2+28	34.7368	1.50					Q	
2+29	34.7408	1.50					Q	
2+30	34.7450	1.50					Q	
2+31	34.7492	1.50					Q	
2+32	34.7535	1.50					Q	
2+33	34.7579	1.50					Q	
2+34	34.7623	1.50					Q	
2+35	34.7668	1.50					Q	
2+36	34.7714	1.50					Q	
2+37	34.7760	1.50					Q	
2+38	34.7807	1.50					Q	
2+39	34.7855	1.50					Q	
2+40	34.7904	1.50					Q	
2+41	34.7955	1.51					Q	
2+42	34.8006	1.51					Q	
2+43	34.8059	1.51					Q	
2+44	34.8114	1.51					Q	
2+45	34.8170	1.51					Q	
2+46	34.8226	1.51					Q	
2+47	34.8284	1.51					Q	
2+48	34.8343	1.51					Q	
2+49	34.8402	1.51					Q	
2+50	34.8462	1.51					Q	
2+51	34.8523	1.51					Q	
2+52	34.8585	1.51					Q	
2+53	34.8648	1.51					Q	
2+54	34.8712	1.51					Q	
2+55	34.8779	1.51					Q	
2+56	34.8847	1.51					Q	
2+57	34.8917	1.51					Q	
2+58	34.8989	1.51					Q	
2+59	34.9063	1.51					Q	
3+ 0	34.9138	1.51					Q	
3+ 1	34.9214	1.51					Q	
3+ 2	34.9291	1.51					Q	
3+ 3	34.9370	1.51					Q	
3+ 4	34.9449	1.51					Q	
3+ 5	34.9530	1.51					Q	
3+ 6	34.9611	1.51					Q	
3+ 7	34.9695	1.51					Q	
3+ 8	34.9781	1.51					Q	
3+ 9	34.9870	1.51					Q	
3+10	34.9961	1.51					Q	

3+11	35.0055	1.51						Q	
3+12	35.0151	1.51						Q	
3+13	35.0249	1.51						Q	
3+14	35.0350	1.52						Q	
3+15	35.0453	1.52						Q	
3+16	35.0557	1.52						Q	
3+17	35.0663	1.52						Q	
3+18	35.0770	1.52						Q	
3+19	35.0879	1.52						Q	
3+20	35.0990	1.52						Q	
3+21	35.1104	1.52						Q	
3+22	35.1222	1.52						Q	
3+23	35.1343	1.52						Q	
3+24	35.1469	1.52						Q	
3+25	35.1598	1.52						Q	
3+26	35.1732	1.52						Q	
3+27	35.1869	1.52						Q	
3+28	35.2010	1.52						Q	
3+29	35.2154	1.52						Q	
3+30	35.2301	1.52						Q	
3+31	35.2450	1.52						Q	
3+32	35.2602	1.53						Q	
3+33	35.2757	1.53						Q	
3+34	35.2915	1.53						Q	
3+35	35.3079	1.53						Q	
3+36	35.3250	1.53						Q	
3+37	35.3428	1.53						Q	
3+38	35.3613	1.53						Q	
3+39	35.3806	1.53						Q	
3+40	35.4007	1.53						Q	
3+41	35.4216	1.53						Q	
3+42	35.4431	1.53						Q	
3+43	35.4652	1.53						Q	
3+44	35.4880	1.53						Q	
3+45	35.5113	1.54						Q	
3+46	35.5352	1.54						Q	
3+47	35.5598	1.54						Q	
3+48	35.5852	1.54						Q	
3+49	35.6121	1.54						Q	
3+50	35.6410	1.54						Q	
3+51	35.6720	1.54						Q	
3+52	35.7052	1.54						Q	
3+53	35.7407	1.55						Q	
3+54	35.7785	1.55						Q	
3+55	35.8186	1.55						Q	
3+56	35.8614	1.55						Q	
3+57	35.9070	1.55						Q	
3+58	35.9555	1.56						Q	
3+59	36.0068	1.56						Q	
4+ 0	36.0611	1.56						Q	
4+ 1	36.1183	1.56						Q	
4+ 2	36.1823	1.57						Q	
4+ 3	36.2612	1.57						Q	
4+ 4	36.3612	1.57						Q	
4+ 5	36.4851	1.58						Q	
4+ 6	36.6337	1.58						Q	
4+ 7	36.8140	1.59						Q	
4+ 8	37.0827	1.60						Q	
4+ 9	37.4341	1.62						Q	
4+10	37.8002	1.64						Q	
4+11	38.1404	1.65						Q	
4+12	38.4379	1.66						Q	
4+13	38.6860	1.67						Q	
4+14	38.8820	1.68						Q	
4+15	39.0247	1.69						Q	
4+16	39.1222	1.69						Q	
4+17	39.1927	1.70						Q	
4+18	39.2500	1.70						Q	
4+19	39.3000	1.70						Q	
4+20	39.3449	1.70						Q	
4+21	39.3856	1.70						Q	

4+22	39.4226	1.71						QI
4+23	39.4564	1.71						QI
4+24	39.4877	1.71						QI
4+25	39.5171	1.71						QI
4+26	39.5448	1.71						QI
4+27	39.5709	1.71						QI
4+28	39.5954	1.71						QI
4+29	39.6184	1.71						QI
4+30	39.6400	1.71						QI
4+31	39.6604	1.72						QI
4+32	39.6798	1.72						QI
4+33	39.6982	1.72						QI
4+34	39.7157	1.72						QI
4+35	39.7324	1.72						QI
4+36	39.7481	1.72						QI
4+37	39.7630	1.72						QI
4+38	39.7771	1.72						QI
4+39	39.7906	1.72						QI
4+40	39.8035	1.72						QI
4+41	39.8158	1.72						QI
4+42	39.8274	1.72						QI
4+43	39.8385	1.72						QI
4+44	39.8490	1.72						QI
4+45	39.8590	1.72						QI
4+46	39.8685	1.72						QI
4+47	39.8776	1.72						QI
4+48	39.8862	1.73						QI
4+49	39.8944	1.73						QI
4+50	39.9022	1.73						QI
4+51	39.9096	1.73						QI
4+52	39.9165	1.73						QI
4+53	39.9232	1.73						QI
4+54	39.9295	1.73						QI
4+55	39.9354	1.73						QI
4+56	39.9410	1.73						QI
4+57	39.9463	1.73						QI
4+58	39.9513	1.73						QI
4+59	39.9560	1.73						QI
5+ 0	39.9604	1.73						QI
5+ 1	39.9645	1.73						QI
5+ 2	39.9684	1.73						QI
5+ 3	39.9720	1.73						QI
5+ 4	39.9754	1.73						QI
5+ 5	39.9785	1.73						QI
5+ 6	39.9814	1.73						QI
5+ 7	39.9840	1.73						QI
5+ 8	39.9864	1.73						QI
5+ 9	39.9886	1.73						QI
5+10	39.9906	1.73						QI
5+11	39.9924	1.73						QI
5+12	39.9940	1.73						QI
5+13	39.9954	1.73						QI
5+14	39.9966	1.73						QI
5+15	39.9976	1.73						QI
5+16	39.9984	1.73						QI
5+17	39.9991	1.73						QI
5+18	39.9995	1.73						QI
5+19	39.9999	1.73						QI
5+20	40.0000	1.73						Q
5+21	40.0000	1.73						QI
5+22	39.9998	1.73						QI
5+23	39.9995	1.73						QI
5+24	39.9990	1.73						QI
5+25	39.9984	1.73						QI
5+26	39.9977	1.73						QI
5+27	39.9968	1.73						QI
5+28	39.9957	1.73						QI
5+29	39.9946	1.73						QI
5+30	39.9933	1.73						QI
5+31	39.9918	1.73						QI
5+32	39.9903	1.73						QI

5+33	39.9886	1.73					QI
5+34	39.9868	1.73					QI
5+35	39.9849	1.73					QI
5+36	39.9828	1.73					QI
5+37	39.9807	1.73					QI
5+38	39.9784	1.73					QI
5+39	39.9760	1.73					QI
5+40	39.9736	1.73					QI
5+41	39.9710	1.73					QI
5+42	39.9683	1.73					QI
5+43	39.9655	1.73					QI
5+44	39.9626	1.73					QI
5+45	39.9596	1.73					QI
5+46	39.9565	1.73					QI
5+47	39.9533	1.73					QI
5+48	39.9501	1.73					QI
5+49	39.9467	1.73					QI
5+50	39.9432	1.73					QI
5+51	39.9397	1.73					QI
5+52	39.9361	1.73					QI
5+53	39.9323	1.73					QI
5+54	39.9285	1.73					QI
5+55	39.9247	1.73					QI
5+56	39.9207	1.73					QI
5+57	39.9166	1.73					QI
5+58	39.9125	1.73					QI
5+59	39.9083	1.73					QI
6+ 0	39.9040	1.73					QI
6+ 1	39.8997	1.73					QI
6+ 2	39.8952	1.73					QI
6+ 3	39.8907	1.73					QI
6+ 4	39.8862	1.73					QI
6+ 5	39.8815	1.73					QI
6+ 6	39.8768	1.72					QI
6+ 7	39.8720	1.72					QI
6+ 8	39.8650	1.72					QI
6+ 9	39.8533	1.72					QI
6+10	39.8381	1.72					QI
6+11	39.8214	1.72					QI
6+12	39.8041	1.72					QI
6+13	39.7866	1.72					QI
6+14	39.7690	1.72					QI
6+15	39.7514	1.72					QI
6+16	39.7337	1.72					QI
6+17	39.7161	1.72					QI
6+18	39.6984	1.72					QI
6+19	39.6808	1.72					QI
6+20	39.6632	1.72					QI
6+21	39.6455	1.71					QI
6+22	39.6279	1.71					QI
6+23	39.6103	1.71					QI
6+24	39.5927	1.71					QI
6+25	39.5751	1.71					QI
6+26	39.5576	1.71					QI
6+27	39.5400	1.71					QI
6+28	39.5224	1.71					QI
6+29	39.5049	1.71					QI
6+30	39.4873	1.71					QI
6+31	39.4698	1.71					QI
6+32	39.4522	1.71					QI
6+33	39.4347	1.71					QI
6+34	39.4172	1.70					QI
6+35	39.3997	1.70					QI
6+36	39.3822	1.70					QI
6+37	39.3647	1.70					QI
6+38	39.3472	1.70					QI
6+39	39.3297	1.70					QI
6+40	39.3123	1.70					QI
6+41	39.2948	1.70					QI
6+42	39.2773	1.70					QI
6+43	39.2599	1.70					QI

6+44	39.2424	1.70						Q
6+45	39.2250	1.70						Q
6+46	39.2076	1.70						Q
6+47	39.1902	1.70						Q
6+48	39.1728	1.69						Q
6+49	39.1554	1.69						Q
6+50	39.1380	1.69						Q
6+51	39.1206	1.69						Q
6+52	39.1032	1.69						Q
6+53	39.0858	1.69						Q
6+54	39.0685	1.69						Q
6+55	39.0511	1.69						Q
6+56	39.0338	1.69						Q
6+57	39.0164	1.69						Q
6+58	38.9991	1.69						Q
6+59	38.9818	1.69						Q
7+ 0	38.9645	1.69						Q
7+ 1	38.9471	1.68						Q
7+ 2	38.9298	1.68						Q
7+ 3	38.9125	1.68						Q
7+ 4	38.8953	1.68						Q
7+ 5	38.8780	1.68						Q
7+ 6	38.8607	1.68						Q
7+ 7	38.8434	1.68						Q
7+ 8	38.8262	1.68						Q
7+ 9	38.8089	1.68						Q
7+10	38.7917	1.68						Q
7+11	38.7745	1.68						Q
7+12	38.7572	1.68						Q
7+13	38.7400	1.68						Q
7+14	38.7228	1.67						Q
7+15	38.7056	1.67						Q
7+16	38.6884	1.67						Q
7+17	38.6712	1.67						Q
7+18	38.6541	1.67						Q
7+19	38.6369	1.67						Q
7+20	38.6197	1.67						Q
7+21	38.6026	1.67						Q
7+22	38.5854	1.67						Q
7+23	38.5683	1.67						Q
7+24	38.5511	1.67						Q
7+25	38.5340	1.67						Q
7+26	38.5169	1.67						Q
7+27	38.4998	1.67						Q
7+28	38.4827	1.66						Q
7+29	38.4656	1.66						Q
7+30	38.4485	1.66						Q
7+31	38.4314	1.66						Q
7+32	38.4144	1.66						Q
7+33	38.3973	1.66						Q
7+34	38.3802	1.66						Q
7+35	38.3632	1.66						Q
7+36	38.3461	1.66						Q
7+37	38.3291	1.66						Q
7+38	38.3121	1.66						Q
7+39	38.2951	1.66						Q
7+40	38.2781	1.66						Q
7+41	38.2610	1.65						Q
7+42	38.2441	1.65						Q
7+43	38.2271	1.65						Q
7+44	38.2101	1.65						Q
7+45	38.1931	1.65						Q
7+46	38.1761	1.65						Q
7+47	38.1592	1.65						Q
7+48	38.1422	1.65						Q
7+49	38.1253	1.65						Q
7+50	38.1083	1.65						Q
7+51	38.0914	1.65						Q
7+52	38.0745	1.65						Q
7+53	38.0576	1.65						Q
7+54	38.0407	1.65						Q

7+55	38.0238	1.64						Q	
7+56	38.0069	1.64						Q	
7+57	37.9900	1.64						Q	
7+58	37.9731	1.64						Q	
7+59	37.9563	1.64						Q	
8+ 0	37.9394	1.64						Q	
8+ 1	37.9225	1.64						Q	
8+ 2	37.9057	1.64						Q	
8+ 3	37.8889	1.64						Q	
8+ 4	37.8720	1.64						Q	
8+ 5	37.8552	1.64						Q	
8+ 6	37.8384	1.64						Q	
8+ 7	37.8216	1.64						Q	
8+ 8	37.8048	1.64						Q	
8+ 9	37.7880	1.63						Q	
8+10	37.7712	1.63						Q	
8+11	37.7544	1.63						Q	
8+12	37.7376	1.63						Q	
8+13	37.7209	1.63						Q	
8+14	37.7041	1.63						Q	
8+15	37.6874	1.63						Q	
8+16	37.6706	1.63						Q	
8+17	37.6539	1.63						Q	
8+18	37.6372	1.63						Q	
8+19	37.6205	1.63						Q	
8+20	37.6037	1.63						Q	
8+21	37.5870	1.63						Q	
8+22	37.5703	1.63						Q	
8+23	37.5537	1.62						Q	
8+24	37.5370	1.62						Q	
8+25	37.5203	1.62						Q	
8+26	37.5036	1.62						Q	
8+27	37.4870	1.62						Q	
8+28	37.4703	1.62						Q	
8+29	37.4537	1.62						Q	
8+30	37.4370	1.62						Q	
8+31	37.4204	1.62						Q	
8+32	37.4038	1.62						Q	
8+33	37.3872	1.62						Q	
8+34	37.3706	1.62						Q	
8+35	37.3540	1.62						Q	
8+36	37.3374	1.61						Q	
8+37	37.3208	1.61						Q	
8+38	37.3042	1.61						Q	
8+39	37.2876	1.61						Q	
8+40	37.2711	1.61						Q	
8+41	37.2545	1.61						Q	
8+42	37.2380	1.61						Q	
8+43	37.2214	1.61						Q	
8+44	37.2049	1.61						Q	
8+45	37.1883	1.61						Q	
8+46	37.1718	1.61						Q	
8+47	37.1553	1.61						Q	
8+48	37.1388	1.61						Q	
8+49	37.1223	1.61						Q	
8+50	37.1058	1.60						Q	
8+51	37.0893	1.60						Q	
8+52	37.0729	1.60						Q	
8+53	37.0564	1.60						Q	
8+54	37.0399	1.60						Q	
8+55	37.0235	1.60						Q	
8+56	37.0074	1.60						Q	
8+57	36.9938	1.60						Q	
8+58	36.9829	1.60						Q	
8+59	36.9730	1.60						Q	
9+ 0	36.9636	1.60						Q	
9+ 1	36.9544	1.60						Q	
9+ 2	36.9453	1.60						Q	
9+ 3	36.9362	1.60						Q	
9+ 4	36.9271	1.60						Q	
9+ 5	36.9180	1.60						Q	

9+ 6	36.9089	1.60						Q	
9+ 7	36.8998	1.60						Q	
9+ 8	36.8908	1.60						Q	
9+ 9	36.8817	1.60						Q	
9+10	36.8726	1.59						Q	
9+11	36.8635	1.59						Q	
9+12	36.8545	1.59						Q	
9+13	36.8454	1.59						Q	
9+14	36.8364	1.59						Q	
9+15	36.8273	1.59						Q	
9+16	36.8182	1.59						Q	
9+17	36.8092	1.59						Q	
9+18	36.8001	1.59						Q	
9+19	36.7911	1.59						Q	
9+20	36.7820	1.59						Q	
9+21	36.7730	1.59						Q	
9+22	36.7639	1.59						Q	
9+23	36.7549	1.59						Q	
9+24	36.7459	1.59						Q	
9+25	36.7368	1.59						Q	
9+26	36.7278	1.59						Q	
9+27	36.7188	1.59						Q	
9+28	36.7097	1.59						Q	
9+29	36.7007	1.59						Q	
9+30	36.6917	1.59						Q	
9+31	36.6826	1.59						Q	
9+32	36.6736	1.59						Q	
9+33	36.6646	1.59						Q	
9+34	36.6556	1.59						Q	
9+35	36.6466	1.59						Q	
9+36	36.6376	1.58						Q	
9+37	36.6286	1.58						Q	
9+38	36.6195	1.58						Q	
9+39	36.6105	1.58						Q	
9+40	36.6015	1.58						Q	
9+41	36.5925	1.58						Q	
9+42	36.5835	1.58						Q	
9+43	36.5745	1.58						Q	
9+44	36.5655	1.58						Q	
9+45	36.5565	1.58						Q	
9+46	36.5476	1.58						Q	
9+47	36.5386	1.58						Q	
9+48	36.5296	1.58						Q	
9+49	36.5206	1.58						Q	
9+50	36.5116	1.58						Q	
9+51	36.5026	1.58						Q	
9+52	36.4937	1.58						Q	
9+53	36.4847	1.58						Q	
9+54	36.4757	1.58						Q	
9+55	36.4667	1.58						Q	
9+56	36.4578	1.58						Q	
9+57	36.4488	1.58						Q	
9+58	36.4398	1.58						Q	
9+59	36.4309	1.58						Q	
10+ 0	36.4219	1.58						Q	
10+ 1	36.4130	1.58						Q	
10+ 2	36.4040	1.57						Q	
10+ 3	36.3951	1.57						Q	
10+ 4	36.3861	1.57						Q	
10+ 5	36.3772	1.57						Q	
10+ 6	36.3682	1.57						Q	
10+ 7	36.3593	1.57						Q	
10+ 8	36.3503	1.57						Q	
10+ 9	36.3414	1.57						Q	
10+10	36.3324	1.57						Q	
10+11	36.3235	1.57						Q	
10+12	36.3146	1.57						Q	
10+13	36.3056	1.57						Q	
10+14	36.2967	1.57						Q	
10+15	36.2878	1.57						Q	
10+16	36.2789	1.57						Q	

10+17	36.2699	1.57						Q	
10+18	36.2610	1.57						Q	
10+19	36.2521	1.57						Q	
10+20	36.2432	1.57						Q	
10+21	36.2343	1.57						Q	
10+22	36.2254	1.57						Q	
10+23	36.2165	1.57						Q	
10+24	36.2076	1.57						Q	
10+25	36.1986	1.57						Q	
10+26	36.1897	1.57						Q	
10+27	36.1808	1.56						Q	
10+28	36.1719	1.56						Q	
10+29	36.1630	1.56						Q	
10+30	36.1542	1.56						Q	
10+31	36.1453	1.56						Q	
10+32	36.1364	1.56						Q	
10+33	36.1275	1.56						Q	
10+34	36.1186	1.56						Q	
10+35	36.1097	1.56						Q	
10+36	36.1008	1.56						Q	
10+37	36.0920	1.56						Q	
10+38	36.0831	1.56						Q	
10+39	36.0742	1.56						Q	
10+40	36.0653	1.56						Q	
10+41	36.0565	1.56						Q	
10+42	36.0476	1.56						Q	
10+43	36.0387	1.56						Q	
10+44	36.0299	1.56						Q	
10+45	36.0210	1.56						Q	
10+46	36.0122	1.56						Q	
10+47	36.0033	1.56						Q	
10+48	35.9944	1.56						Q	
10+49	35.9856	1.56						Q	
10+50	35.9767	1.56						Q	
10+51	35.9679	1.56						Q	
10+52	35.9590	1.56						Q	
10+53	35.9502	1.55						Q	
10+54	35.9414	1.55						Q	
10+55	35.9325	1.55						Q	
10+56	35.9237	1.55						Q	
10+57	35.9148	1.55						Q	
10+58	35.9060	1.55						Q	
10+59	35.8972	1.55						Q	
11+ 0	35.8884	1.55						Q	
11+ 1	35.8795	1.55						Q	
11+ 2	35.8707	1.55						Q	
11+ 3	35.8619	1.55						Q	
11+ 4	35.8531	1.55						Q	
11+ 5	35.8442	1.55						Q	
11+ 6	35.8354	1.55						Q	
11+ 7	35.8266	1.55						Q	
11+ 8	35.8178	1.55						Q	
11+ 9	35.8090	1.55						Q	
11+10	35.8002	1.55						Q	
11+11	35.7914	1.55						Q	
11+12	35.7826	1.55						Q	
11+13	35.7738	1.55						Q	
11+14	35.7650	1.55						Q	
11+15	35.7562	1.55						Q	
11+16	35.7474	1.55						Q	
11+17	35.7386	1.55						Q	
11+18	35.7298	1.55						Q	
11+19	35.7210	1.55						Q	
11+20	35.7122	1.54						Q	
11+21	35.7035	1.54						Q	
11+22	35.6947	1.54						Q	
11+23	35.6859	1.54						Q	
11+24	35.6771	1.54						Q	
11+25	35.6683	1.54						Q	
11+26	35.6596	1.54						Q	
11+27	35.6508	1.54						Q	

11+28	35.6420	1.54						Q	
11+29	35.6333	1.54						Q	
11+30	35.6245	1.54						Q	
11+31	35.6157	1.54						Q	
11+32	35.6070	1.54						Q	
11+33	35.5982	1.54						Q	
11+34	35.5895	1.54						Q	
11+35	35.5807	1.54						Q	
11+36	35.5720	1.54						Q	
11+37	35.5632	1.54						Q	
11+38	35.5545	1.54						Q	
11+39	35.5457	1.54						Q	
11+40	35.5370	1.54						Q	
11+41	35.5283	1.54						Q	
11+42	35.5195	1.54						Q	
11+43	35.5108	1.54						Q	
11+44	35.5020	1.54						Q	
11+45	35.4933	1.54						Q	
11+46	35.4846	1.53						Q	
11+47	35.4759	1.53						Q	
11+48	35.4671	1.53						Q	
11+49	35.4584	1.53						Q	
11+50	35.4497	1.53						Q	
11+51	35.4410	1.53						Q	
11+52	35.4323	1.53						Q	
11+53	35.4235	1.53						Q	
11+54	35.4148	1.53						Q	
11+55	35.4061	1.53						Q	
11+56	35.3974	1.53						Q	
11+57	35.3887	1.53						Q	
11+58	35.3800	1.53						Q	
11+59	35.3713	1.53						Q	
12+ 0	35.3626	1.53						Q	
12+ 1	35.3539	1.53						Q	
12+ 2	35.3452	1.53						Q	
12+ 3	35.3365	1.53						Q	
12+ 4	35.3278	1.53						Q	
12+ 5	35.3191	1.53						Q	
12+ 6	35.3105	1.53						Q	
12+ 7	35.3018	1.53						Q	
12+ 8	35.2931	1.53						Q	
12+ 9	35.2844	1.53						Q	
12+10	35.2757	1.53						Q	
12+11	35.2671	1.53						Q	
12+12	35.2584	1.53						Q	
12+13	35.2497	1.52						Q	
12+14	35.2410	1.52						Q	
12+15	35.2324	1.52						Q	
12+16	35.2237	1.52						Q	
12+17	35.2150	1.52						Q	
12+18	35.2064	1.52						Q	
12+19	35.1977	1.52						Q	
12+20	35.1891	1.52						Q	
12+21	35.1804	1.52						Q	
12+22	35.1718	1.52						Q	
12+23	35.1631	1.52						Q	
12+24	35.1545	1.52						Q	
12+25	35.1458	1.52						Q	
12+26	35.1372	1.52						Q	
12+27	35.1285	1.52						Q	
12+28	35.1199	1.52						Q	
12+29	35.1113	1.52						Q	
12+30	35.1026	1.52						Q	
12+31	35.0940	1.52						Q	
12+32	35.0854	1.52						Q	
12+33	35.0767	1.52						Q	
12+34	35.0681	1.52						Q	
12+35	35.0595	1.52						Q	
12+36	35.0509	1.52						Q	
12+37	35.0422	1.52						Q	
12+38	35.0336	1.52						Q	

12+39	35.0250	1.51						Q	
12+40	35.0164	1.51						Q	
12+41	35.0078	1.51						Q	
12+42	34.9992	1.51						Q	
12+43	34.9906	1.51						Q	
12+44	34.9820	1.51						Q	
12+45	34.9734	1.51						Q	
12+46	34.9648	1.51						Q	
12+47	34.9562	1.51						Q	
12+48	34.9476	1.51						Q	
12+49	34.9390	1.51						Q	
12+50	34.9304	1.51						Q	
12+51	34.9218	1.51						Q	
12+52	34.9132	1.51						Q	
12+53	34.9046	1.51						Q	
12+54	34.8960	1.51						Q	
12+55	34.8874	1.51						Q	
12+56	34.8789	1.51						Q	
12+57	34.8703	1.51						Q	
12+58	34.8617	1.51						Q	
12+59	34.8531	1.51						Q	
13+ 0	34.8446	1.51						Q	
13+ 1	34.8360	1.51						Q	
13+ 2	34.8274	1.51						Q	
13+ 3	34.8189	1.51						Q	
13+ 4	34.8103	1.51						Q	
13+ 5	34.8017	1.51						Q	
13+ 6	34.7932	1.50						Q	
13+ 7	34.7846	1.50						Q	
13+ 8	34.7761	1.50						Q	
13+ 9	34.7675	1.50						Q	
13+10	34.7590	1.50						Q	
13+11	34.7504	1.50						Q	
13+12	34.7419	1.50						Q	
13+13	34.7333	1.50						Q	
13+14	34.7248	1.50						Q	
13+15	34.7162	1.50						Q	
13+16	34.7077	1.50						Q	
13+17	34.6992	1.50						Q	
13+18	34.6906	1.50						Q	
13+19	34.6794	1.50						Q	
13+20	34.6642	1.50						Q	
13+21	34.6467	1.50						Q	
13+22	34.6283	1.50						Q	
13+23	34.6095	1.50						Q	
13+24	34.5905	1.50						Q	
13+25	34.5715	1.50						Q	
13+26	34.5525	1.49						Q	
13+27	34.5335	1.49						Q	
13+28	34.5145	1.49						Q	
13+29	34.4954	1.49						Q	
13+30	34.4764	1.49						Q	
13+31	34.4575	1.49						Q	
13+32	34.4385	1.49						Q	
13+33	34.4195	1.49						Q	
13+34	34.4006	1.49						Q	
13+35	34.3816	1.49						Q	
13+36	34.3627	1.49						Q	
13+37	34.3437	1.49						Q	
13+38	34.3248	1.48						Q	
13+39	34.3059	1.48						Q	
13+40	34.2870	1.48						Q	
13+41	34.2681	1.48						Q	
13+42	34.2493	1.48						Q	
13+43	34.2304	1.48						Q	
13+44	34.2115	1.48						Q	
13+45	34.1927	1.48						Q	
13+46	34.1739	1.48						Q	
13+47	34.1550	1.48						Q	
13+48	34.1362	1.48						Q	
13+49	34.1174	1.48						Q	

13+50	34.0986	1.47						Q	
13+51	34.0798	1.47						Q	
13+52	34.0611	1.47						Q	
13+53	34.0423	1.47						Q	
13+54	34.0236	1.47						Q	
13+55	34.0048	1.47						Q	
13+56	33.9861	1.47						Q	
13+57	33.9674	1.47						Q	
13+58	33.9487	1.47						Q	
13+59	33.9300	1.47						Q	
14+ 0	33.9113	1.47						Q	
14+ 1	33.8926	1.47						Q	
14+ 2	33.8739	1.47						Q	
14+ 3	33.8553	1.46						Q	
14+ 4	33.8366	1.46						Q	
14+ 5	33.8180	1.46						Q	
14+ 6	33.7994	1.46						Q	
14+ 7	33.7807	1.46						Q	
14+ 8	33.7621	1.46						Q	
14+ 9	33.7435	1.46						Q	
14+10	33.7249	1.46						Q	
14+11	33.7064	1.46						Q	
14+12	33.6878	1.46						Q	
14+13	33.6693	1.46						Q	
14+14	33.6507	1.46						Q	
14+15	33.6322	1.45						Q	
14+16	33.6136	1.45						Q	
14+17	33.5951	1.45						Q	
14+18	33.5766	1.45						Q	
14+19	33.5581	1.45						Q	
14+20	33.5396	1.45						Q	
14+21	33.5212	1.45						Q	
14+22	33.5027	1.45						Q	
14+23	33.4843	1.45						Q	
14+24	33.4658	1.45						Q	
14+25	33.4474	1.45						Q	
14+26	33.4290	1.45						Q	
14+27	33.4105	1.45						Q	
14+28	33.3921	1.44						Q	
14+29	33.3737	1.44						Q	
14+30	33.3554	1.44						Q	
14+31	33.3370	1.44						Q	
14+32	33.3186	1.44						Q	
14+33	33.3003	1.44						Q	
14+34	33.2819	1.44						Q	
14+35	33.2636	1.44						Q	
14+36	33.2453	1.44						Q	
14+37	33.2270	1.44						Q	
14+38	33.2087	1.44						Q	
14+39	33.1904	1.44						Q	
14+40	33.1721	1.43						Q	
14+41	33.1538	1.43						Q	
14+42	33.1356	1.43						Q	
14+43	33.1173	1.43						Q	
14+44	33.0991	1.43						Q	
14+45	33.0808	1.43						Q	
14+46	33.0626	1.43						Q	
14+47	33.0444	1.43						Q	
14+48	33.0262	1.43						Q	
14+49	33.0080	1.43						Q	
14+50	32.9898	1.43						Q	
14+51	32.9717	1.43						Q	
14+52	32.9535	1.43						Q	
14+53	32.9353	1.42						Q	
14+54	32.9172	1.42						Q	
14+55	32.8991	1.42						Q	
14+56	32.8810	1.42						Q	
14+57	32.8628	1.42						Q	
14+58	32.8447	1.42						Q	
14+59	32.8266	1.42						Q	
15+ 0	32.8086	1.42						Q	

15+ 1	32.7905	1.42					Q	
15+ 2	32.7724	1.42					Q	
15+ 3	32.7544	1.42					Q	
15+ 4	32.7363	1.42					Q	
15+ 5	32.7183	1.42					Q	
15+ 6	32.7003	1.41					Q	
15+ 7	32.6823	1.41					Q	
15+ 8	32.6643	1.41					Q	
15+ 9	32.6463	1.41					Q	
15+10	32.6283	1.41					Q	
15+11	32.6103	1.41					Q	
15+12	32.5924	1.41					Q	
15+13	32.5744	1.41					Q	
15+14	32.5565	1.41					Q	
15+15	32.5385	1.41					Q	
15+16	32.5206	1.41					Q	
15+17	32.5027	1.41					Q	
15+18	32.4848	1.41					Q	
15+19	32.4669	1.40					Q	
15+20	32.4490	1.40					Q	
15+21	32.4312	1.40					Q	
15+22	32.4133	1.40					Q	
15+23	32.3954	1.40					Q	
15+24	32.3776	1.40					Q	
15+25	32.3598	1.40					Q	
15+26	32.3419	1.40					Q	
15+27	32.3241	1.40					Q	
15+28	32.3063	1.40					Q	
15+29	32.2885	1.40					Q	
15+30	32.2707	1.40					Q	
15+31	32.2530	1.40					Q	
15+32	32.2352	1.39					Q	
15+33	32.2174	1.39					Q	
15+34	32.1997	1.39					Q	
15+35	32.1820	1.39					Q	
15+36	32.1642	1.39					Q	
15+37	32.1465	1.39					Q	
15+38	32.1288	1.39					Q	
15+39	32.1111	1.39					Q	
15+40	32.0934	1.39					Q	
15+41	32.0757	1.39					Q	
15+42	32.0581	1.39					Q	
15+43	32.0404	1.39					Q	
15+44	32.0228	1.39					Q	
15+45	32.0051	1.38					Q	
15+46	31.9875	1.38					Q	
15+47	31.9699	1.38					Q	
15+48	31.9523	1.38					Q	
15+49	31.9347	1.38					Q	
15+50	31.9171	1.38					Q	
15+51	31.8995	1.38					Q	
15+52	31.8819	1.38					Q	
15+53	31.8644	1.38					Q	
15+54	31.8468	1.38					Q	
15+55	31.8293	1.38					Q	
15+56	31.8117	1.38					Q	
15+57	31.7942	1.38					Q	
15+58	31.7767	1.37					Q	
15+59	31.7592	1.37					Q	
16+ 0	31.7417	1.37					Q	
16+ 1	31.7242	1.37					Q	
16+ 2	31.7068	1.37					Q	
16+ 3	31.6893	1.37					Q	
16+ 4	31.6718	1.37					Q	
16+ 5	31.6544	1.37					Q	
16+ 6	31.6370	1.37					Q	
16+ 7	31.6195	1.37					Q	
16+ 8	31.6021	1.37					Q	
16+ 9	31.5847	1.37					Q	
16+10	31.5673	1.37					Q	
16+11	31.5499	1.36					Q	

17+23	30.3229	1.31				Q	
17+24	30.3062	1.31				Q	
17+25	30.2895	1.31				Q	
17+26	30.2728	1.31				Q	
17+27	30.2561	1.31				Q	
17+28	30.2394	1.31				Q	
17+29	30.2228	1.31				Q	
17+30	30.2061	1.31				Q	
17+31	30.1895	1.31				Q	
17+32	30.1729	1.31				Q	
17+33	30.1562	1.30				Q	
17+34	30.1396	1.30				Q	
17+35	30.1230	1.30				Q	
17+36	30.1064	1.30				Q	
17+37	30.0899	1.30				Q	
17+38	30.0733	1.30				Q	
17+39	30.0553	1.30				Q	
17+40	30.0357	1.30				Q	
17+41	30.0154	1.30				Q	
17+42	29.9950	1.30				Q	
17+43	29.9744	1.30				Q	
17+44	29.9538	1.30				Q	
17+45	29.9332	1.29				Q	
17+46	29.9126	1.29				Q	
17+47	29.8920	1.29				Q	
17+48	29.8714	1.29				Q	
17+49	29.8508	1.29				Q	
17+50	29.8303	1.29				Q	
17+51	29.8098	1.29				Q	
17+52	29.7892	1.29				Q	
17+53	29.7687	1.29				Q	
17+54	29.7482	1.29				Q	
17+55	29.7277	1.29				Q	
17+56	29.7073	1.28				Q	
17+57	29.6868	1.28				Q	
17+58	29.6664	1.28				Q	
17+59	29.6460	1.28				Q	
18+ 0	29.6256	1.28				Q	
18+ 1	29.6052	1.28				Q	
18+ 2	29.5848	1.28				Q	
18+ 3	29.5644	1.28				Q	
18+ 4	29.5441	1.28				Q	
18+ 5	29.5237	1.28				Q	
18+ 6	29.5034	1.28				Q	
18+ 7	29.4831	1.28				Q	
18+ 8	29.4628	1.27				Q	
18+ 9	29.4425	1.27				Q	
18+10	29.4222	1.27				Q	
18+11	29.4020	1.27				Q	
18+12	29.3817	1.27				Q	
18+13	29.3615	1.27				Q	
18+14	29.3413	1.27				Q	
18+15	29.3211	1.27				Q	
18+16	29.3009	1.27				Q	
18+17	29.2807	1.27				Q	
18+18	29.2606	1.27				Q	
18+19	29.2404	1.26				Q	
18+20	29.2203	1.26				Q	
18+21	29.2002	1.26				Q	
18+22	29.1801	1.26				Q	
18+23	29.1600	1.26				Q	
18+24	29.1399	1.26				Q	
18+25	29.1198	1.26				Q	
18+26	29.0998	1.26				Q	
18+27	29.0798	1.26				Q	
18+28	29.0597	1.26				Q	
18+29	29.0397	1.26				Q	
18+30	29.0197	1.26				Q	
18+31	28.9998	1.25				Q	
18+32	28.9798	1.25				Q	
18+33	28.9598	1.25				Q	

18+34	28.9399	1.25				Q	
18+35	28.9200	1.25				Q	
18+36	28.9001	1.25				Q	
18+37	28.8802	1.25				Q	
18+38	28.8603	1.25				Q	
18+39	28.8404	1.25				Q	
18+40	28.8206	1.25				Q	
18+41	28.8007	1.25				Q	
18+42	28.7809	1.24				Q	
18+43	28.7611	1.24				Q	
18+44	28.7413	1.24				Q	
18+45	28.7215	1.24				Q	
18+46	28.7017	1.24				Q	
18+47	28.6820	1.24				Q	
18+48	28.6622	1.24				Q	
18+49	28.6425	1.24				Q	
18+50	28.6228	1.24				Q	
18+51	28.6031	1.24				Q	
18+52	28.5834	1.24				Q	
18+53	28.5637	1.24				Q	
18+54	28.5440	1.23				Q	
18+55	28.5244	1.23				Q	
18+56	28.5047	1.23				Q	
18+57	28.4851	1.23				Q	
18+58	28.4655	1.23				Q	
18+59	28.4459	1.23				Q	
19+ 0	28.4263	1.23				Q	
19+ 1	28.4067	1.23				Q	
19+ 2	28.3872	1.23				Q	
19+ 3	28.3676	1.23				Q	
19+ 4	28.3481	1.23				Q	
19+ 5	28.3286	1.23				Q	
19+ 6	28.3091	1.22				Q	
19+ 7	28.2896	1.22				Q	
19+ 8	28.2701	1.22				Q	
19+ 9	28.2507	1.22				Q	
19+10	28.2312	1.22				Q	
19+11	28.2118	1.22				Q	
19+12	28.1923	1.22				Q	
19+13	28.1729	1.22				Q	
19+14	28.1535	1.22				Q	
19+15	28.1342	1.22				Q	
19+16	28.1148	1.22				Q	
19+17	28.0954	1.22				Q	
19+18	28.0761	1.21				Q	
19+19	28.0568	1.21				Q	
19+20	28.0374	1.21				Q	
19+21	28.0181	1.21				Q	
19+22	27.9989	1.21				Q	
19+23	27.9796	1.21				Q	
19+24	27.9603	1.21				Q	
19+25	27.9411	1.21				Q	
19+26	27.9218	1.21				Q	
19+27	27.9026	1.21				Q	
19+28	27.8834	1.21				Q	
19+29	27.8642	1.21				Q	
19+30	27.8450	1.20				Q	
19+31	27.8258	1.20				Q	
19+32	27.8067	1.20				Q	
19+33	27.7875	1.20				Q	
19+34	27.7684	1.20				Q	
19+35	27.7436	1.20				Q	
19+36	27.7108	1.20				Q	
19+37	27.6736	1.20				Q	
19+38	27.6348	1.20				Q	
19+39	27.5953	1.19				Q	
19+40	27.5555	1.19				Q	
19+41	27.5156	1.19				Q	
19+42	27.4758	1.19				Q	
19+43	27.4360	1.19				Q	
19+44	27.3963	1.18				Q	

19+45	27.3566	1.18				Q	
19+46	27.3169	1.18				Q	
19+47	27.2774	1.18				Q	
19+48	27.2378	1.18				Q	
19+49	27.1984	1.18				Q	
19+50	27.1590	1.17				Q	
19+51	27.1196	1.17				Q	
19+52	27.0803	1.17				Q	
19+53	27.0411	1.17				Q	
19+54	27.0019	1.17				Q	
19+55	26.9628	1.17				Q	
19+56	26.9237	1.16				Q	
19+57	26.8847	1.16				Q	
19+58	26.8458	1.16				Q	
19+59	26.8069	1.16				Q	
20+ 0	26.7680	1.16				Q	
20+ 1	26.7293	1.16				Q	
20+ 2	26.6905	1.15				Q	
20+ 3	26.6519	1.15				Q	
20+ 4	26.6132	1.15				Q	
20+ 5	26.5747	1.15				Q	
20+ 6	26.5362	1.15				Q	
20+ 7	26.4977	1.15				Q	
20+ 8	26.4593	1.14				Q	
20+ 9	26.4210	1.14				Q	
20+10	26.3827	1.14				Q	
20+11	26.3445	1.14				Q	
20+12	26.3063	1.14				Q	
20+13	26.2682	1.14				Q	
20+14	26.2302	1.13				Q	
20+15	26.1922	1.13				Q	
20+16	26.1542	1.13				Q	
20+17	26.1163	1.13				Q	
20+18	26.0785	1.13				Q	
20+19	26.0407	1.13				Q	
20+20	26.0030	1.12				Q	
20+21	25.9653	1.12				Q	
20+22	25.9277	1.12				Q	
20+23	25.8901	1.12				Q	
20+24	25.8526	1.12				Q	
20+25	25.8151	1.12				Q	
20+26	25.7777	1.11				Q	
20+27	25.7404	1.11				Q	
20+28	25.7031	1.11				Q	
20+29	25.6658	1.11				Q	
20+30	25.6287	1.11				Q	
20+31	25.5915	1.11				Q	
20+32	25.5545	1.11				Q	
20+33	25.5174	1.10				Q	
20+34	25.4805	1.10				Q	
20+35	25.4435	1.10				Q	
20+36	25.4067	1.10				Q	
20+37	25.3699	1.10				Q	
20+38	25.3331	1.10				Q	
20+39	25.2964	1.09				Q	
20+40	25.2598	1.09				Q	
20+41	25.2232	1.09				Q	
20+42	25.1866	1.09				Q	
20+43	25.1501	1.09				Q	
20+44	25.1137	1.09				Q	
20+45	25.0773	1.08				Q	
20+46	25.0410	1.08				Q	
20+47	25.0047	1.08				Q	
20+48	24.9685	1.08				Q	
20+49	24.9323	1.08				Q	
20+50	24.8962	1.08				Q	
20+51	24.8601	1.08				Q	
20+52	24.8241	1.07				Q	
20+53	24.7881	1.07				Q	
20+54	24.7522	1.07				Q	
20+55	24.7163	1.07				Q	

20+56	24.6805	1.07				Q		
20+57	24.6447	1.07				Q		
20+58	24.6090	1.06				Q		
20+59	24.5734	1.06				Q		
21+ 0	24.5378	1.06				Q		
21+ 1	24.5022	1.06				Q		
21+ 2	24.4667	1.06				Q		
21+ 3	24.4313	1.06				Q		
21+ 4	24.3959	1.06				Q		
21+ 5	24.3605	1.05				Q		
21+ 6	24.3252	1.05				Q		
21+ 7	24.2900	1.05				Q		
21+ 8	24.2548	1.05				Q		
21+ 9	24.2197	1.05				Q		
21+10	24.1846	1.05				Q		
21+11	24.1495	1.04				Q		
21+12	24.1145	1.04				Q		
21+13	24.0796	1.04				Q		
21+14	24.0447	1.04				Q		
21+15	24.0099	1.04				Q		
21+16	23.9751	1.04				Q		
21+17	23.9404	1.04				Q		
21+18	23.9057	1.03				Q		
21+19	23.8710	1.03				Q		
21+20	23.8365	1.03				Q		
21+21	23.8019	1.03				Q		
21+22	23.7674	1.03				Q		
21+23	23.7330	1.03				Q		
21+24	23.6986	1.03				Q		
21+25	23.6643	1.02				Q		
21+26	23.6300	1.02				Q		
21+27	23.5958	1.02				Q		
21+28	23.5616	1.02				Q		
21+29	23.5274	1.02				Q		
21+30	23.4933	1.02				Q		
21+31	23.4593	1.01				Q		
21+32	23.4253	1.01				Q		
21+33	23.3914	1.01				Q		
21+34	23.3575	1.01				Q		
21+35	23.3236	1.01				Q		
21+36	23.2898	1.01				Q		
21+37	23.2561	1.01				Q		
21+38	23.2224	1.00				Q		
21+39	23.1888	1.00				Q		
21+40	23.1546	1.00				Q		
21+41	23.1103	1.00				Q		
21+42	23.0546	1.00				Q		
21+43	22.9945	0.99				Q		
21+44	22.9325	0.99				Q		
21+45	22.8700	0.99				Q		
21+46	22.8073	0.99				Q		
21+47	22.7446	0.98				Q		
21+48	22.6821	0.98				Q		
21+49	22.6197	0.98				Q		
21+50	22.5575	0.98				Q		
21+51	22.4955	0.97				Q		
21+52	22.4336	0.97				Q		
21+53	22.3719	0.97				Q		
21+54	22.3103	0.97				Q		
21+55	22.2489	0.96				Q		
21+56	22.1877	0.96				Q		
21+57	22.1267	0.96				Q		
21+58	22.0658	0.95				Q		
21+59	22.0051	0.95				Q		
22+ 0	21.9446	0.95				Q		
22+ 1	21.8842	0.95				Q		
22+ 2	21.8240	0.94				Q		
22+ 3	21.7640	0.94				Q		
22+ 4	21.7041	0.94				Q		
22+ 5	21.6444	0.94				Q		
22+ 6	21.5848	0.93				Q		

22+ 7	21.5255	0.93				IQ		
22+ 8	21.4662	0.93				IQ		
22+ 9	21.4072	0.93				IQ		
22+10	21.3483	0.92				IQ		
22+11	21.2896	0.92				IQ		
22+12	21.2310	0.92				IQ		
22+13	21.1726	0.92				IQ		
22+14	21.1143	0.91				IQ		
22+15	21.0563	0.91				IQ		
22+16	20.9983	0.91				Q		
22+17	20.9406	0.91				Q		
22+18	20.8830	0.90				Q		
22+19	20.8255	0.90				Q		
22+20	20.7682	0.90				Q		
22+21	20.7111	0.90				Q		
22+22	20.6541	0.89				Q		
22+23	20.5973	0.89				Q		
22+24	20.5406	0.89				Q		
22+25	20.4841	0.89				Q		
22+26	20.4278	0.88				Q		
22+27	20.3716	0.88				Q		
22+28	20.3155	0.88				Q		
22+29	20.2596	0.88				Q		
22+30	20.2039	0.87				Q		
22+31	20.1483	0.87				Q		
22+32	20.0929	0.87				Q		
22+33	20.0376	0.87				Q		
22+34	19.9825	0.86				Q		
22+35	19.9275	0.86				Q		
22+36	19.8727	0.86				Q		
22+37	19.8180	0.86				Q		
22+38	19.7635	0.85				Q		
22+39	19.7091	0.85				Q		
22+40	19.6549	0.85				Q		
22+41	19.6008	0.85				Q		
22+42	19.5469	0.85				Q		
22+43	19.4931	0.84				Q		
22+44	19.4395	0.84				Q		
22+45	19.3860	0.84				Q		
22+46	19.3327	0.84				Q		
22+47	19.2795	0.83				Q		
22+48	19.2265	0.83				Q		
22+49	19.1736	0.83				Q		
22+50	19.1208	0.83				Q		
22+51	19.0682	0.82				Q		
22+52	19.0158	0.82				Q		
22+53	18.9635	0.82				Q		
22+54	18.9113	0.82				Q		
22+55	18.8593	0.82				Q		
22+56	18.8074	0.81				Q		
22+57	18.7556	0.81				Q		
22+58	18.7041	0.81				Q		
22+59	18.6526	0.81				Q		
23+ 0	18.6013	0.80				Q		
23+ 1	18.5491	0.80				Q		
23+ 2	18.4780	0.80				Q		
23+ 3	18.3859	0.80				Q		
23+ 4	18.2857	0.79				Q		
23+ 5	18.1825	0.79				Q		
23+ 6	18.0783	0.78				Q		
23+ 7	17.9742	0.78				Q		
23+ 8	17.8704	0.77				Q		
23+ 9	17.7672	0.77				Q		
23+10	17.6644	0.76				Q		
23+11	17.5623	0.76				Q		
23+12	17.4607	0.76				Q		
23+13	17.3598	0.75				Q		
23+14	17.2594	0.75				Q		
23+15	17.1596	0.74				Q		
23+16	17.0603	0.74				Q		
23+17	16.9617	0.73				Q		

23+18	16.8636	0.73			Q		
23+19	16.7661	0.73			Q		
23+20	16.6691	0.72			Q		
23+21	16.5727	0.72			Q		
23+22	16.4769	0.71			Q		
23+23	16.3816	0.71			Q		
23+24	16.2869	0.70			Q		
23+25	16.1927	0.70			Q		
23+26	16.0991	0.70			Q		
23+27	16.0060	0.69			Q		
23+28	15.9134	0.69			Q		
23+29	15.8214	0.68			Q		
23+30	15.7299	0.68			Q		
23+31	15.6389	0.68			Q		
23+32	15.5485	0.67			Q		
23+33	15.4586	0.67			Q		
23+34	15.3692	0.66			Q		
23+35	15.2803	0.66			Q		
23+36	15.1919	0.66			Q		
23+37	15.1041	0.65			Q		
23+38	15.0167	0.65			Q		
23+39	14.9299	0.65			Q		
23+40	14.8436	0.64			Q		
23+41	14.7577	0.64			Q		
23+42	14.6724	0.63			Q		
23+43	14.5875	0.63			Q		
23+44	14.5032	0.63			Q		
23+45	14.4193	0.62			Q		
23+46	14.3359	0.62			Q		
23+47	14.2530	0.62			Q		
23+48	14.1706	0.61			Q		
23+49	14.0886	0.61			Q		
23+50	14.0072	0.61			Q		
23+51	13.9262	0.60			Q		
23+52	13.8456	0.60			Q		
23+53	13.7656	0.60			Q		
23+54	13.6860	0.59			Q		
23+55	13.6068	0.59			Q		
23+56	13.5281	0.59			Q		
23+57	13.4499	0.58			Q		
23+58	13.3721	0.58			Q		
23+59	13.2948	0.58			Q		
24+ 0	13.2179	0.57			Q		
24+ 1	13.1415	0.57			Q		
24+ 2	13.0655	0.57			Q		
24+ 3	12.9899	0.56			Q		
24+ 4	12.9148	0.56			Q		
24+ 5	12.8401	0.56			Q		
24+ 6	12.7659	0.55			Q		
24+ 7	12.6920	0.55			Q		
24+ 8	12.6186	0.55			Q		
24+ 9	12.5457	0.54			Q		
24+10	12.4731	0.54			Q		
24+11	12.4010	0.54			Q		
24+12	12.3293	0.53			Q		
24+13	12.2580	0.53			Q		
24+14	12.1871	0.53			Q		
24+15	12.1166	0.52			Q		
24+16	12.0466	0.52			Q		
24+17	11.9769	0.52			Q		
24+18	11.9076	0.52			Q		
24+19	11.8388	0.51			Q		
24+20	11.7703	0.51			Q		
24+21	11.7022	0.51			Q		
24+22	11.6346	0.50			Q		
24+23	11.5673	0.50			Q		
24+24	11.5004	0.50			Q		
24+25	11.4339	0.49			Q		
24+26	11.3678	0.49			Q		
24+27	11.3020	0.49			Q		
24+28	11.2367	0.49			Q		

24+29	11.1717	0.48		Q				
24+30	11.1071	0.48		Q				
24+31	11.0429	0.48		Q				
24+32	10.9790	0.47		Q				
24+33	10.9155	0.47		Q				
24+34	10.8524	0.47		Q				
24+35	10.7896	0.47		Q				
24+36	10.7272	0.46		Q				
24+37	10.6652	0.46		Q				
24+38	10.6035	0.46		Q				
24+39	10.5422	0.46		Q				
24+40	10.4812	0.45		Q				
24+41	10.4206	0.45		Q				
24+42	10.3604	0.45		Q				
24+43	10.3005	0.45		Q				
24+44	10.2409	0.44		Q				
24+45	10.1817	0.44		Q				
24+46	10.1228	0.44		Q				
24+47	10.0643	0.44		Q				
24+48	10.0061	0.43		Q				
24+49	9.9482	0.43		Q				
24+50	9.8907	0.43		Q				
24+51	9.8335	0.43		Q				
24+52	9.7766	0.42		Q				
24+53	9.7201	0.42		Q				
24+54	9.6639	0.42		Q				
24+55	9.6080	0.42		Q				
24+56	9.5524	0.41		Q				
24+57	9.4972	0.41		Q				
24+58	9.4422	0.41		Q				
24+59	9.3876	0.41		Q				
25+ 0	9.3334	0.40		Q				
25+ 1	9.2794	0.40		Q				
25+ 2	9.2257	0.40		Q				
25+ 3	9.1724	0.40		Q				
25+ 4	9.1193	0.39		Q				
25+ 5	9.0666	0.39		Q				
25+ 6	9.0142	0.39		Q				
25+ 7	8.9620	0.39		Q				
25+ 8	8.9102	0.39		Q				
25+ 9	8.8587	0.38		Q				
25+10	8.8075	0.38		Q				
25+11	8.7565	0.38		Q				
25+12	8.7059	0.38		Q				
25+13	8.6555	0.37		Q				
25+14	8.6055	0.37		Q				
25+15	8.5557	0.37		Q				
25+16	8.5062	0.37		Q				
25+17	8.4571	0.37		Q				
25+18	8.4081	0.36		Q				
25+19	8.3595	0.36		Q				
25+20	8.3112	0.36		Q				
25+21	8.2631	0.36		Q				
25+22	8.2153	0.36		Q				
25+23	8.1678	0.35		Q				
25+24	8.1206	0.35		Q				
25+25	8.0736	0.35		Q				
25+26	8.0269	0.35		Q				
25+27	7.9805	0.35		Q				
25+28	7.9344	0.34		Q				
25+29	7.8885	0.34		Q				
25+30	7.8429	0.34		Q				
25+31	7.7975	0.34		Q				
25+32	7.7524	0.34		Q				
25+33	7.7076	0.33		Q				
25+34	7.6630	0.33		Q				
25+35	7.6187	0.33		Q				
25+36	7.5747	0.33		Q				
25+37	7.5308	0.33		Q				
25+38	7.4873	0.32		Q				
25+39	7.4440	0.32		Q				

25+40	7.4010	0.32	Q				
25+41	7.3582	0.32	Q				
25+42	7.3156	0.32	Q				
25+43	7.2733	0.31	Q				
25+44	7.2312	0.31	Q				
25+45	7.1894	0.31	Q				
25+46	7.1478	0.31	Q				
25+47	7.1065	0.31	Q				
25+48	7.0654	0.31	Q				
25+49	7.0246	0.30	Q				
25+50	6.9839	0.30	Q				
25+51	6.9435	0.30	Q				
25+52	6.9034	0.30	Q				
25+53	6.8635	0.30	Q				
25+54	6.8238	0.30	Q				
25+55	6.7843	0.29	Q				
25+56	6.7451	0.29	Q				
25+57	6.7061	0.29	Q				
25+58	6.6673	0.29	Q				
25+59	6.6287	0.29	Q				
26+ 0	6.5904	0.29	Q				
26+ 1	6.5523	0.28	Q				
26+ 2	6.5144	0.28	Q				
26+ 3	6.4767	0.28	Q				
26+ 4	6.4393	0.28	Q				
26+ 5	6.4020	0.28	Q				
26+ 6	6.3650	0.28	Q				
26+ 7	6.3282	0.27	Q				
26+ 8	6.2916	0.27	Q				
26+ 9	6.2552	0.27	Q				
26+10	6.2191	0.27	Q				
26+11	6.1831	0.27	Q				
26+12	6.1473	0.27	Q				
26+13	6.1118	0.26	Q				
26+14	6.0765	0.26	Q				
26+15	6.0413	0.26	Q				
26+16	6.0064	0.26	Q				
26+17	5.9716	0.26	Q				
26+18	5.9371	0.26	Q				
26+19	5.9028	0.26	Q				
26+20	5.8686	0.25	Q				
26+21	5.8347	0.25	Q				
26+22	5.8010	0.25	Q				
26+23	5.7674	0.25	Q				
26+24	5.7341	0.25	Q				
26+25	5.7009	0.25	Q				
26+26	5.6679	0.25	Q				
26+27	5.6352	0.24	Q				
26+28	5.6026	0.24	Q				
26+29	5.5702	0.24	Q				
26+30	5.5380	0.24	Q				
26+31	5.5059	0.24	Q				
26+32	5.4741	0.24	Q				
26+33	5.4424	0.24	Q				
26+34	5.4110	0.23	Q				
26+35	5.3797	0.23	Q				
26+36	5.3486	0.23	Q				
26+37	5.3176	0.23	Q				
26+38	5.2869	0.23	Q				
26+39	5.2563	0.23	Q				
26+40	5.2259	0.23	Q				
26+41	5.1957	0.22	Q				
26+42	5.1657	0.22	Q				
26+43	5.1358	0.22	Q				
26+44	5.1061	0.22	Q				
26+45	5.0766	0.22	Q				
26+46	5.0472	0.22	Q				
26+47	5.0180	0.22	Q				
26+48	4.9890	0.22	Q				
26+49	4.9601	0.21	Q				
26+50	4.9315	0.21	Q				

26+51	4.9029	0.21	Q						
26+52	4.8746	0.21	Q						
26+53	4.8464	0.21	Q						
26+54	4.8184	0.21	Q						
26+55	4.7905	0.21	Q						
26+56	4.7628	0.21	Q						
26+57	4.7353	0.20	Q						
26+58	4.7079	0.20	Q						
26+59	4.6807	0.20	Q						
27+ 0	4.6536	0.20	Q						
27+ 1	4.6267	0.20	Q						
27+ 2	4.5999	0.20	Q						
27+ 3	4.5733	0.20	Q						
27+ 4	4.5469	0.20	Q						
27+ 5	4.5206	0.20	Q						
27+ 6	4.4944	0.19	Q						
27+ 7	4.4684	0.19	Q						
27+ 8	4.4426	0.19	Q						
27+ 9	4.4169	0.19	Q						
27+10	4.3914	0.19	Q						
27+11	4.3660	0.19	Q						
27+12	4.3407	0.19	Q						
27+13	4.3156	0.19	Q						
27+14	4.2907	0.19	Q						
27+15	4.2659	0.18	Q						
27+16	4.2412	0.18	Q						
27+17	4.2167	0.18	Q						
27+18	4.1923	0.18	Q						
27+19	4.1680	0.18	Q						
27+20	4.1439	0.18	Q						
27+21	4.1200	0.18	Q						
27+22	4.0961	0.18	Q						
27+23	4.0725	0.18	Q						
27+24	4.0489	0.18	Q						
27+25	4.0255	0.17	Q						
27+26	4.0022	0.17	Q						
27+27	3.9791	0.17	Q						
27+28	3.9561	0.17	Q						
27+29	3.9332	0.17	Q						
27+30	3.9104	0.17	Q						
27+31	3.8878	0.17	Q						
27+32	3.8653	0.17	Q						
27+33	3.8430	0.17	Q						
27+34	3.8208	0.17	Q						
27+35	3.7987	0.16	Q						
27+36	3.7767	0.16	Q						
27+37	3.7549	0.16	Q						
27+38	3.7331	0.16	Q						
27+39	3.7116	0.16	Q						
27+40	3.6901	0.16	Q						
27+41	3.6688	0.16	Q						
27+42	3.6475	0.16	Q						
27+43	3.6264	0.16	Q						
27+44	3.6055	0.16	Q						
27+45	3.5846	0.16	Q						
27+46	3.5639	0.15	Q						
27+47	3.5433	0.15	Q						
27+48	3.5228	0.15	Q						
27+49	3.5024	0.15	Q						
27+50	3.4822	0.15	Q						
27+51	3.4620	0.15	Q						
27+52	3.4420	0.15	Q						
27+53	3.4221	0.15	Q						
27+54	3.4023	0.15	Q						
27+55	3.3826	0.15	Q						
27+56	3.3631	0.15	Q						
27+57	3.3436	0.14	Q						
27+58	3.3243	0.14	Q						
27+59	3.3051	0.14	Q						
28+ 0	3.2860	0.14	Q						
28+ 1	3.2670	0.14	Q						

28+ 2	3.2481	0.14		Q					
28+ 3	3.2293	0.14		Q					
28+ 4	3.2106	0.14		Q					
28+ 5	3.1920	0.14		Q					
28+ 6	3.1736	0.14		Q					
28+ 7	3.1552	0.14		Q					
28+ 8	3.1370	0.14		Q					
28+ 9	3.1188	0.13		Q					
28+10	3.1008	0.13		Q					
28+11	3.0829	0.13		Q					
28+12	3.0650	0.13		Q					
28+13	3.0473	0.13		Q					
28+14	3.0297	0.13		Q					
28+15	3.0122	0.13		Q					
28+16	2.9948	0.13		Q					
28+17	2.9774	0.13		Q					
28+18	2.9602	0.13		Q					
28+19	2.9431	0.13		Q					
28+20	2.9261	0.13		Q					
28+21	2.9092	0.13		Q					
28+22	2.8923	0.13		Q					
28+23	2.8756	0.12		Q					
28+24	2.8590	0.12		Q					
28+25	2.8425	0.12		Q					
28+26	2.8260	0.12		Q					
28+27	2.8097	0.12		Q					
28+28	2.7934	0.12		Q					
28+29	2.7773	0.12		Q					
28+30	2.7612	0.12		Q					
28+31	2.7452	0.12		Q					
28+32	2.7294	0.12		Q					
28+33	2.7136	0.12		Q					
28+34	2.6979	0.12		Q					
28+35	2.6823	0.12		Q					
28+36	2.6668	0.12		Q					
28+37	2.6514	0.11		Q					
28+38	2.6360	0.11		Q					
28+39	2.6208	0.11		Q					
28+40	2.6056	0.11		Q					
28+41	2.5906	0.11		Q					
28+42	2.5756	0.11		Q					
28+43	2.5607	0.11		Q					
28+44	2.5459	0.11		Q					
28+45	2.5312	0.11		Q					
28+46	2.5165	0.11		Q					
28+47	2.5020	0.11		Q					
28+48	2.4875	0.11		Q					
28+49	2.4731	0.11		Q					
28+50	2.4588	0.11		Q					
28+51	2.4446	0.11		Q					
28+52	2.4305	0.11		Q					
28+53	2.4164	0.10		Q					
28+54	2.4024	0.10		Q					
28+55	2.3885	0.10		Q					
28+56	2.3747	0.10		Q					
28+57	2.3610	0.10		Q					
28+58	2.3473	0.10		Q					
28+59	2.3338	0.10		Q					
29+ 0	2.3203	0.10		Q					
29+ 1	2.3068	0.10		Q					
29+ 2	2.2935	0.10		Q					
29+ 3	2.2802	0.10		Q					
29+ 4	2.2671	0.10		Q					
29+ 5	2.2539	0.10		Q					
29+ 6	2.2409	0.10		Q					
29+ 7	2.2280	0.10		Q					
29+ 8	2.2151	0.10		Q					
29+ 9	2.2023	0.10		Q					
29+10	2.1895	0.09		Q					
29+11	2.1769	0.09		Q					
29+12	2.1643	0.09		Q					

29+13	2.1518	0.09	Q				
29+14	2.1393	0.09	Q				
29+15	2.1269	0.09	Q				
29+16	2.1146	0.09	Q				
29+17	2.1024	0.09	Q				
29+18	2.0903	0.09	Q				
29+19	2.0782	0.09	Q				
29+20	2.0662	0.09	Q				
29+21	2.0542	0.09	Q				
29+22	2.0423	0.09	Q				
29+23	2.0305	0.09	Q				
29+24	2.0188	0.09	Q				
29+25	2.0071	0.09	Q				
29+26	1.9955	0.09	Q				
29+27	1.9840	0.09	Q				
29+28	1.9725	0.09	Q				
29+29	1.9611	0.08	Q				
29+30	1.9497	0.08	Q				
29+31	1.9385	0.08	Q				
29+32	1.9272	0.08	Q				
29+33	1.9161	0.08	Q				
29+34	1.9050	0.08	Q				
29+35	1.8940	0.08	Q				
29+36	1.8831	0.08	Q				
29+37	1.8722	0.08	Q				
29+38	1.8613	0.08	Q				
29+39	1.8506	0.08	Q				
29+40	1.8399	0.08	Q				
29+41	1.8292	0.08	Q				
29+42	1.8187	0.08	Q				
29+43	1.8081	0.08	Q				
29+44	1.7977	0.08	Q				
29+45	1.7873	0.08	Q				
29+46	1.7769	0.08	Q				
29+47	1.7667	0.08	Q				
29+48	1.7565	0.08	Q				
29+49	1.7463	0.08	Q				
29+50	1.7362	0.08	Q				
29+51	1.7262	0.07	Q				
29+52	1.7162	0.07	Q				
29+53	1.7063	0.07	Q				
29+54	1.6964	0.07	Q				
29+55	1.6866	0.07	Q				
29+56	1.6768	0.07	Q				
29+57	1.6671	0.07	Q				
29+58	1.6575	0.07	Q				
29+59	1.6479	0.07	Q				
30+ 0	1.6384	0.07	Q				
30+ 1	1.6289	0.07	Q				
30+ 2	1.6195	0.07	Q				
30+ 3	1.6101	0.07	Q				
30+ 4	1.6008	0.07	Q				
30+ 5	1.5915	0.07	Q				
30+ 6	1.5823	0.07	Q				
30+ 7	1.5732	0.07	Q				
30+ 8	1.5641	0.07	Q				
30+ 9	1.5550	0.07	Q				
30+10	1.5461	0.07	Q				
30+11	1.5371	0.07	Q				
30+12	1.5282	0.07	Q				
30+13	1.5194	0.07	Q				
30+14	1.5106	0.07	Q				
30+15	1.5019	0.06	Q				
30+16	1.4932	0.06	Q				
30+17	1.4845	0.06	Q				
30+18	1.4760	0.06	Q				
30+19	1.4674	0.06	Q				
30+20	1.4589	0.06	Q				
30+21	1.4505	0.06	Q				
30+22	1.4421	0.06	Q				
30+23	1.4338	0.06	Q				

30+24	1.4255	0.06	IQ				
30+25	1.4172	0.06	IQ				
30+26	1.4090	0.06	IQ				
30+27	1.4009	0.06	IQ				
30+28	1.3928	0.06	IQ				
30+29	1.3847	0.06	IQ				
30+30	1.3767	0.06	IQ				
30+31	1.3688	0.06	IQ				
30+32	1.3609	0.06	IQ				
30+33	1.3530	0.06	IQ				
30+34	1.3452	0.06	IQ				
30+35	1.3374	0.06	IQ				
30+36	1.3297	0.06	IQ				
30+37	1.3220	0.06	IQ				
30+38	1.3143	0.06	IQ				
30+39	1.3067	0.06	IQ				
30+40	1.2992	0.06	IQ				
30+41	1.2916	0.06	IQ				
30+42	1.2842	0.06	IQ				
30+43	1.2768	0.06	IQ				
30+44	1.2694	0.05	IQ				
30+45	1.2620	0.05	IQ				
30+46	1.2547	0.05	IQ				
30+47	1.2475	0.05	IQ				
30+48	1.2403	0.05	IQ				
30+49	1.2331	0.05	IQ				
30+50	1.2260	0.05	IQ				
30+51	1.2189	0.05	IQ				
30+52	1.2118	0.05	IQ				
30+53	1.2048	0.05	IQ				
30+54	1.1978	0.05	IQ				
30+55	1.1909	0.05	IQ				
30+56	1.1840	0.05	IQ				
30+57	1.1772	0.05	IQ				
30+58	1.1704	0.05	IQ				
30+59	1.1636	0.05	IQ				
31+ 0	1.1569	0.05	IQ				
31+ 1	1.1502	0.05	IQ				
31+ 2	1.1435	0.05	IQ				
31+ 3	1.1369	0.05	IQ				
31+ 4	1.1303	0.05	IQ				
31+ 5	1.1238	0.05	IQ				
31+ 6	1.1173	0.05	IQ				
31+ 7	1.1109	0.05	IQ				
31+ 8	1.1044	0.05	IQ				
31+ 9	1.0980	0.05	IQ				
31+10	1.0917	0.05	IQ				
31+11	1.0854	0.05	IQ				
31+12	1.0791	0.05	IQ				
31+13	1.0729	0.05	IQ				
31+14	1.0667	0.05	IQ				
31+15	1.0605	0.05	IQ				
31+16	1.0544	0.05	IQ				
31+17	1.0483	0.05	IQ				
31+18	1.0422	0.05	IQ				
31+19	1.0362	0.04	IQ				
31+20	1.0302	0.04	IQ				
31+21	1.0242	0.04	IQ				
31+22	1.0183	0.04	IQ				
31+23	1.0124	0.04	IQ				
31+24	1.0066	0.04	IQ				
31+25	1.0007	0.04	IQ				
31+26	0.9949	0.04	Q				
31+27	0.9892	0.04	Q				
31+28	0.9835	0.04	Q				
31+29	0.9778	0.04	Q				
31+30	0.9721	0.04	Q				
31+31	0.9665	0.04	Q				
31+32	0.9609	0.04	Q				
31+33	0.9554	0.04	Q				
31+34	0.9498	0.04	Q				

31+35	0.9443	0.04	Q				
31+36	0.9389	0.04	Q				
31+37	0.9335	0.04	Q				
31+38	0.9281	0.04	Q				
31+39	0.9227	0.04	Q				
31+40	0.9174	0.04	Q				
31+41	0.9120	0.04	Q				
31+42	0.9068	0.04	Q				
31+43	0.9015	0.04	Q				
31+44	0.8963	0.04	Q				
31+45	0.8911	0.04	Q				
31+46	0.8860	0.04	Q				
31+47	0.8809	0.04	Q				
31+48	0.8758	0.04	Q				
31+49	0.8707	0.04	Q				
31+50	0.8657	0.04	Q				
31+51	0.8607	0.04	Q				
31+52	0.8557	0.04	Q				
31+53	0.8507	0.04	Q				
31+54	0.8458	0.04	Q				
31+55	0.8409	0.04	Q				
31+56	0.8361	0.04	Q				
31+57	0.8312	0.04	Q				
31+58	0.8264	0.04	Q				
31+59	0.8216	0.04	Q				
32+ 0	0.8169	0.04	Q				
32+ 1	0.8122	0.04	Q				
32+ 2	0.8075	0.03	Q				
32+ 3	0.8028	0.03	Q				
32+ 4	0.7982	0.03	Q				
32+ 5	0.7935	0.03	Q				
32+ 6	0.7890	0.03	Q				
32+ 7	0.7844	0.03	Q				
32+ 8	0.7799	0.03	Q				
32+ 9	0.7753	0.03	Q				
32+10	0.7709	0.03	Q				
32+11	0.7664	0.03	Q				
32+12	0.7620	0.03	Q				
32+13	0.7576	0.03	Q				
32+14	0.7532	0.03	Q				
32+15	0.7488	0.03	Q				
32+16	0.7445	0.03	Q				
32+17	0.7402	0.03	Q				
32+18	0.7359	0.03	Q				
32+19	0.7317	0.03	Q				
32+20	0.7274	0.03	Q				
32+21	0.7232	0.03	Q				
32+22	0.7190	0.03	Q				
32+23	0.7149	0.03	Q				
32+24	0.7107	0.03	Q				
32+25	0.7066	0.03	Q				
32+26	0.7025	0.03	Q				
32+27	0.6985	0.03	Q				
32+28	0.6944	0.03	Q				
32+29	0.6904	0.03	Q				
32+30	0.6864	0.03	Q				
32+31	0.6825	0.03	Q				
32+32	0.6785	0.03	Q				
32+33	0.6746	0.03	Q				
32+34	0.6707	0.03	Q				
32+35	0.6668	0.03	Q				
32+36	0.6630	0.03	Q				
32+37	0.6591	0.03	Q				
32+38	0.6553	0.03	Q				
32+39	0.6515	0.03	Q				
32+40	0.6478	0.03	Q				
32+41	0.6440	0.03	Q				
32+42	0.6403	0.03	Q				
32+43	0.6366	0.03	Q				
32+44	0.6329	0.03	Q				
32+45	0.6292	0.03	Q				

32+46	0.6256	0.03	Q				
32+47	0.6220	0.03	Q				
32+48	0.6184	0.03	Q				
32+49	0.6148	0.03	Q				
32+50	0.6113	0.03	Q				
32+51	0.6077	0.03	Q				
32+52	0.6042	0.03	Q				
32+53	0.6007	0.03	Q				
32+54	0.5972	0.03	Q				
32+55	0.5938	0.03	Q				
32+56	0.5904	0.03	Q				
32+57	0.5869	0.03	Q				
32+58	0.5835	0.03	Q				
32+59	0.5802	0.03	Q				
33+ 0	0.5768	0.02	Q				
33+ 1	0.5735	0.02	Q				
33+ 2	0.5702	0.02	Q				
33+ 3	0.5669	0.02	Q				
33+ 4	0.5636	0.02	Q				
33+ 5	0.5603	0.02	Q				
33+ 6	0.5571	0.02	Q				
33+ 7	0.5539	0.02	Q				
33+ 8	0.5507	0.02	Q				
33+ 9	0.5475	0.02	Q				
33+10	0.5443	0.02	Q				
33+11	0.5412	0.02	Q				
33+12	0.5380	0.02	Q				
33+13	0.5349	0.02	Q				
33+14	0.5318	0.02	Q				
33+15	0.5288	0.02	Q				
33+16	0.5257	0.02	Q				
33+17	0.5227	0.02	Q				
33+18	0.5196	0.02	Q				
33+19	0.5166	0.02	Q				
33+20	0.5136	0.02	Q				
33+21	0.5107	0.02	Q				
33+22	0.5077	0.02	Q				
33+23	0.5048	0.02	Q				
33+24	0.5019	0.02	Q				
33+25	0.4990	0.02	Q				
33+26	0.4961	0.02	Q				
33+27	0.4932	0.02	Q				
33+28	0.4904	0.02	Q				
33+29	0.4875	0.02	Q				
33+30	0.4847	0.02	Q				
33+31	0.4819	0.02	Q				
33+32	0.4791	0.02	Q				
33+33	0.4763	0.02	Q				
33+34	0.4736	0.02	Q				
33+35	0.4708	0.02	Q				
33+36	0.4681	0.02	Q				
33+37	0.4654	0.02	Q				
33+38	0.4627	0.02	Q				
33+39	0.4601	0.02	Q				
33+40	0.4574	0.02	Q				
33+41	0.4547	0.02	Q				
33+42	0.4521	0.02	Q				
33+43	0.4495	0.02	Q				
33+44	0.4469	0.02	Q				
33+45	0.4443	0.02	Q				
33+46	0.4417	0.02	Q				
33+47	0.4392	0.02	Q				
33+48	0.4367	0.02	Q				
33+49	0.4341	0.02	Q				
33+50	0.4316	0.02	Q				
33+51	0.4291	0.02	Q				
33+52	0.4266	0.02	Q				
33+53	0.4242	0.02	Q				
33+54	0.4217	0.02	Q				
33+55	0.4193	0.02	Q				
33+56	0.4169	0.02	Q				

33+57	0.4144	0.02	Q				
33+58	0.4120	0.02	Q				
33+59	0.4097	0.02	Q				
34+ 0	0.4073	0.02	Q				
34+ 1	0.4049	0.02	Q				
34+ 2	0.4026	0.02	Q				
34+ 3	0.4003	0.02	Q				
34+ 4	0.3980	0.02	Q				
34+ 5	0.3957	0.02	Q				
34+ 6	0.3934	0.02	Q				
34+ 7	0.3911	0.02	Q				
34+ 8	0.3888	0.02	Q				
34+ 9	0.3866	0.02	Q				
34+10	0.3843	0.02	Q				
34+11	0.3821	0.02	Q				
34+12	0.3799	0.02	Q				
34+13	0.3777	0.02	Q				
34+14	0.3755	0.02	Q				
34+15	0.3734	0.02	Q				
34+16	0.3712	0.02	Q				
34+17	0.3691	0.02	Q				
34+18	0.3669	0.02	Q				
34+19	0.3648	0.02	Q				
34+20	0.3627	0.02	Q				
34+21	0.3606	0.02	Q				
34+22	0.3585	0.02	Q				
34+23	0.3564	0.02	Q				
34+24	0.3544	0.02	Q				
34+25	0.3523	0.02	Q				
34+26	0.3503	0.02	Q				
34+27	0.3483	0.02	Q				
34+28	0.3462	0.01	Q				
34+29	0.3442	0.01	Q				
34+30	0.3423	0.01	Q				
34+31	0.3403	0.01	Q				
34+32	0.3383	0.01	Q				
34+33	0.3364	0.01	Q				
34+34	0.3344	0.01	Q				
34+35	0.3325	0.01	Q				
34+36	0.3305	0.01	Q				
34+37	0.3286	0.01	Q				
34+38	0.3267	0.01	Q				
34+39	0.3248	0.01	Q				
34+40	0.3230	0.01	Q				
34+41	0.3211	0.01	Q				
34+42	0.3192	0.01	Q				
34+43	0.3174	0.01	Q				
34+44	0.3156	0.01	Q				
34+45	0.3137	0.01	Q				
34+46	0.3119	0.01	Q				
34+47	0.3101	0.01	Q				
34+48	0.3083	0.01	Q				
34+49	0.3065	0.01	Q				
34+50	0.3048	0.01	Q				
34+51	0.3030	0.01	Q				
34+52	0.3013	0.01	Q				
34+53	0.2995	0.01	Q				
34+54	0.2978	0.01	Q				
34+55	0.2961	0.01	Q				
34+56	0.2943	0.01	Q				
34+57	0.2926	0.01	Q				
34+58	0.2910	0.01	Q				
34+59	0.2893	0.01	Q				
35+ 0	0.2876	0.01	Q				
35+ 1	0.2859	0.01	Q				
35+ 2	0.2843	0.01	Q				
35+ 3	0.2826	0.01	Q				
35+ 4	0.2810	0.01	Q				
35+ 5	0.2794	0.01	Q				
35+ 6	0.2778	0.01	Q				
35+ 7	0.2762	0.01	Q				

35+ 8	0.2746	0.01	Q				
35+ 9	0.2730	0.01	Q				
35+10	0.2714	0.01	Q				
35+11	0.2698	0.01	Q				
35+12	0.2683	0.01	Q				
35+13	0.2667	0.01	Q				
35+14	0.2652	0.01	Q				
35+15	0.2636	0.01	Q				
35+16	0.2621	0.01	Q				
35+17	0.2606	0.01	Q				
35+18	0.2591	0.01	Q				
35+19	0.2576	0.01	Q				
35+20	0.2561	0.01	Q				
35+21	0.2546	0.01	Q				
35+22	0.2531	0.01	Q				
35+23	0.2517	0.01	Q				
35+24	0.2502	0.01	Q				
35+25	0.2488	0.01	Q				
35+26	0.2473	0.01	Q				
35+27	0.2459	0.01	Q				
35+28	0.2445	0.01	Q				
35+29	0.2431	0.01	Q				
35+30	0.2417	0.01	Q				
35+31	0.2403	0.01	Q				
35+32	0.2389	0.01	Q				
35+33	0.2375	0.01	Q				
35+34	0.2361	0.01	Q				
35+35	0.2348	0.01	Q				
35+36	0.2334	0.01	Q				
35+37	0.2321	0.01	Q				
35+38	0.2307	0.01	Q				
35+39	0.2294	0.01	Q				
35+40	0.2281	0.01	Q				
35+41	0.2267	0.01	Q				
35+42	0.2254	0.01	Q				
35+43	0.2241	0.01	Q				
35+44	0.2228	0.01	Q				
35+45	0.2215	0.01	Q				
35+46	0.2203	0.01	Q				
35+47	0.2190	0.01	Q				
35+48	0.2177	0.01	Q				
35+49	0.2165	0.01	Q				
35+50	0.2152	0.01	Q				
35+51	0.2140	0.01	Q				
35+52	0.2127	0.01	Q				
35+53	0.2115	0.01	Q				
35+54	0.2103	0.01	Q				
35+55	0.2091	0.01	Q				
35+56	0.2078	0.01	Q				
35+57	0.2066	0.01	Q				
35+58	0.2054	0.01	Q				
35+59	0.2043	0.01	Q				
36+ 0	0.2031	0.01	Q				
36+ 1	0.2019	0.01	Q				
36+ 2	0.2007	0.01	Q				
36+ 3	0.1996	0.01	Q				
36+ 4	0.1984	0.01	Q				
36+ 5	0.1973	0.01	Q				
36+ 6	0.1961	0.01	Q				
36+ 7	0.1950	0.01	Q				
36+ 8	0.1939	0.01	Q				
36+ 9	0.1927	0.01	Q				
36+10	0.1916	0.01	Q				
36+11	0.1905	0.01	Q				
36+12	0.1894	0.01	Q				
36+13	0.1883	0.01	Q				
36+14	0.1872	0.01	Q				
36+15	0.1862	0.01	Q				
36+16	0.1851	0.01	Q				
36+17	0.1840	0.01	Q				
36+18	0.1829	0.01	Q				

36+19	0.1819	0.01	Q				
36+20	0.1808	0.01	Q				
36+21	0.1798	0.01	Q				
36+22	0.1788	0.01	Q				
36+23	0.1777	0.01	Q				
36+24	0.1767	0.01	Q				
36+25	0.1757	0.01	Q				
36+26	0.1747	0.01	Q				
36+27	0.1736	0.01	Q				
36+28	0.1726	0.01	Q				
36+29	0.1716	0.01	Q				
36+30	0.1706	0.01	Q				
36+31	0.1697	0.01	Q				
36+32	0.1687	0.01	Q				
36+33	0.1677	0.01	Q				
36+34	0.1667	0.01	Q				
36+35	0.1658	0.01	Q				
36+36	0.1648	0.01	Q				
36+37	0.1639	0.01	Q				
36+38	0.1629	0.01	Q				
36+39	0.1620	0.01	Q				
36+40	0.1610	0.01	Q				
36+41	0.1601	0.01	Q				
36+42	0.1592	0.01	Q				
36+43	0.1583	0.01	Q				
36+44	0.1573	0.01	Q				
36+45	0.1564	0.01	Q				
36+46	0.1555	0.01	Q				
36+47	0.1546	0.01	Q				
36+48	0.1537	0.01	Q				
36+49	0.1528	0.01	Q				
36+50	0.1520	0.01	Q				
36+51	0.1511	0.01	Q				
36+52	0.1502	0.01	Q				
36+53	0.1493	0.01	Q				
36+54	0.1485	0.01	Q				
36+55	0.1476	0.01	Q				
36+56	0.1468	0.01	Q				
36+57	0.1459	0.01	Q				
36+58	0.1451	0.01	Q				
36+59	0.1442	0.01	Q				
37+ 0	0.1434	0.01	Q				
37+ 1	0.1426	0.01	Q				
37+ 2	0.1417	0.01	Q				
37+ 3	0.1409	0.01	Q				
37+ 4	0.1401	0.01	Q				
37+ 5	0.1393	0.01	Q				
37+ 6	0.1385	0.01	Q				
37+ 7	0.1377	0.01	Q				
37+ 8	0.1369	0.01	Q				
37+ 9	0.1361	0.01	Q				
37+10	0.1353	0.01	Q				
37+11	0.1345	0.01	Q				
37+12	0.1338	0.01	Q				
37+13	0.1330	0.01	Q				
37+14	0.1322	0.01	Q				
37+15	0.1314	0.01	Q				
37+16	0.1307	0.01	Q				
37+17	0.1299	0.01	Q				
37+18	0.1292	0.01	Q				
37+19	0.1284	0.01	Q				
37+20	0.1277	0.01	Q				
37+21	0.1270	0.01	Q				
37+22	0.1262	0.01	Q				
37+23	0.1255	0.01	Q				
37+24	0.1248	0.01	Q				
37+25	0.1240	0.01	Q				
37+26	0.1233	0.01	Q				
37+27	0.1226	0.01	Q				
37+28	0.1219	0.01	Q				
37+29	0.1212	0.01	Q				

37+30	0.1205	0.01	Q				
37+31	0.1198	0.01	Q				
37+32	0.1191	0.01	Q				
37+33	0.1184	0.01	Q				
37+34	0.1177	0.01	Q				
37+35	0.1171	0.01	Q				
37+36	0.1164	0.01	Q				
37+37	0.1157	0.01	Q				
37+38	0.1150	0.00	Q				
37+39	0.1144	0.00	Q				
37+40	0.1137	0.00	Q				
37+41	0.1130	0.00	Q				
37+42	0.1124	0.00	Q				
37+43	0.1117	0.00	Q				
37+44	0.1111	0.00	Q				
37+45	0.1105	0.00	Q				
37+46	0.1098	0.00	Q				
37+47	0.1092	0.00	Q				
37+48	0.1086	0.00	Q				
37+49	0.1079	0.00	Q				
37+50	0.1073	0.00	Q				
37+51	0.1067	0.00	Q				
37+52	0.1061	0.00	Q				
37+53	0.1054	0.00	Q				
37+54	0.1048	0.00	Q				
37+55	0.1042	0.00	Q				
37+56	0.1036	0.00	Q				
37+57	0.1030	0.00	Q				
37+58	0.1024	0.00	Q				
37+59	0.1018	0.00	Q				
38+ 0	0.1013	0.00	Q				
38+ 1	0.1007	0.00	Q				
38+ 2	0.1001	0.00	Q				
38+ 3	0.0995	0.00	Q				
38+ 4	0.0989	0.00	Q				
38+ 5	0.0984	0.00	Q				
38+ 6	0.0978	0.00	Q				
38+ 7	0.0972	0.00	Q				
38+ 8	0.0967	0.00	Q				
38+ 9	0.0961	0.00	Q				
38+10	0.0955	0.00	Q				
38+11	0.0950	0.00	Q				
38+12	0.0944	0.00	Q				
38+13	0.0939	0.00	Q				
38+14	0.0934	0.00	Q				
38+15	0.0928	0.00	Q				
38+16	0.0923	0.00	Q				
38+17	0.0917	0.00	Q				
38+18	0.0912	0.00	Q				
38+19	0.0907	0.00	Q				
38+20	0.0902	0.00	Q				
38+21	0.0896	0.00	Q				
38+22	0.0891	0.00	Q				
38+23	0.0886	0.00	Q				
38+24	0.0881	0.00	Q				
38+25	0.0876	0.00	Q				
38+26	0.0871	0.00	Q				
38+27	0.0866	0.00	Q				
38+28	0.0861	0.00	Q				
38+29	0.0856	0.00	Q				
38+30	0.0851	0.00	Q				
38+31	0.0846	0.00	Q				
38+32	0.0841	0.00	Q				
38+33	0.0836	0.00	Q				
38+34	0.0831	0.00	Q				
38+35	0.0827	0.00	Q				
38+36	0.0822	0.00	Q				
38+37	0.0817	0.00	Q				
38+38	0.0812	0.00	Q				
38+39	0.0808	0.00	Q				
38+40	0.0803	0.00	Q				

38+41	0.0798	0.00	Q				
38+42	0.0794	0.00	Q				
38+43	0.0789	0.00	Q				
38+44	0.0784	0.00	Q				
38+45	0.0780	0.00	Q				
38+46	0.0775	0.00	Q				
38+47	0.0771	0.00	Q				
38+48	0.0766	0.00	Q				
38+49	0.0762	0.00	Q				
38+50	0.0758	0.00	Q				
38+51	0.0753	0.00	Q				
38+52	0.0749	0.00	Q				
38+53	0.0745	0.00	Q				
38+54	0.0740	0.00	Q				
38+55	0.0736	0.00	Q				
38+56	0.0732	0.00	Q				
38+57	0.0728	0.00	Q				
38+58	0.0723	0.00	Q				
38+59	0.0719	0.00	Q				
39+ 0	0.0715	0.00	Q				
39+ 1	0.0711	0.00	Q				
39+ 2	0.0707	0.00	Q				
39+ 3	0.0703	0.00	Q				
39+ 4	0.0699	0.00	Q				
39+ 5	0.0695	0.00	Q				
39+ 6	0.0691	0.00	Q				
39+ 7	0.0687	0.00	Q				
39+ 8	0.0683	0.00	Q				
39+ 9	0.0679	0.00	Q				
39+10	0.0675	0.00	Q				
39+11	0.0671	0.00	Q				
39+12	0.0667	0.00	Q				
39+13	0.0663	0.00	Q				
39+14	0.0659	0.00	Q				
39+15	0.0655	0.00	Q				
39+16	0.0652	0.00	Q				
39+17	0.0648	0.00	Q				
39+18	0.0644	0.00	Q				
39+19	0.0640	0.00	Q				
39+20	0.0637	0.00	Q				
39+21	0.0633	0.00	Q				
39+22	0.0629	0.00	Q				
39+23	0.0626	0.00	Q				
39+24	0.0622	0.00	Q				
39+25	0.0618	0.00	Q				
39+26	0.0615	0.00	Q				
39+27	0.0611	0.00	Q				
39+28	0.0608	0.00	Q				
39+29	0.0604	0.00	Q				
39+30	0.0601	0.00	Q				
39+31	0.0597	0.00	Q				
39+32	0.0594	0.00	Q				
39+33	0.0590	0.00	Q				
39+34	0.0587	0.00	Q				
39+35	0.0584	0.00	Q				
39+36	0.0580	0.00	Q				
39+37	0.0577	0.00	Q				
39+38	0.0574	0.00	Q				
39+39	0.0570	0.00	Q				
39+40	0.0567	0.00	Q				
39+41	0.0564	0.00	Q				
39+42	0.0560	0.00	Q				
39+43	0.0557	0.00	Q				
39+44	0.0554	0.00	Q				
39+45	0.0551	0.00	Q				
39+46	0.0548	0.00	Q				
39+47	0.0544	0.00	Q				
39+48	0.0541	0.00	Q				
39+49	0.0538	0.00	Q				
39+50	0.0535	0.00	Q				
39+51	0.0532	0.00	Q				

39+52	0.0529	0.00	Q				
39+53	0.0526	0.00	Q				
39+54	0.0523	0.00	Q				
39+55	0.0520	0.00	Q				
39+56	0.0517	0.00	Q				
39+57	0.0514	0.00	Q				
39+58	0.0511	0.00	Q				
39+59	0.0508	0.00	Q				
40+ 0	0.0505	0.00	Q				
40+ 1	0.0502	0.00	Q				
40+ 2	0.0499	0.00	Q				
40+ 3	0.0496	0.00	Q				
40+ 4	0.0493	0.00	Q				
40+ 5	0.0490	0.00	Q				
40+ 6	0.0488	0.00	Q				
40+ 7	0.0485	0.00	Q				
40+ 8	0.0482	0.00	Q				
40+ 9	0.0479	0.00	Q				
40+10	0.0476	0.00	Q				
40+11	0.0474	0.00	Q				
40+12	0.0471	0.00	Q				
40+13	0.0468	0.00	Q				
40+14	0.0465	0.00	Q				
40+15	0.0463	0.00	Q				
40+16	0.0460	0.00	Q				
40+17	0.0457	0.00	Q				
40+18	0.0455	0.00	Q				
40+19	0.0452	0.00	Q				
40+20	0.0450	0.00	Q				
40+21	0.0447	0.00	Q				
40+22	0.0444	0.00	Q				
40+23	0.0442	0.00	Q				
40+24	0.0439	0.00	Q				
40+25	0.0437	0.00	Q				
40+26	0.0434	0.00	Q				
40+27	0.0432	0.00	Q				
40+28	0.0429	0.00	Q				
40+29	0.0427	0.00	Q				
40+30	0.0424	0.00	Q				
40+31	0.0422	0.00	Q				
40+32	0.0419	0.00	Q				
40+33	0.0417	0.00	Q				
40+34	0.0414	0.00	Q				
40+35	0.0412	0.00	Q				
40+36	0.0410	0.00	Q				
40+37	0.0407	0.00	Q				
40+38	0.0405	0.00	Q				
40+39	0.0403	0.00	Q				
40+40	0.0400	0.00	Q				
40+41	0.0398	0.00	Q				
40+42	0.0396	0.00	Q				
40+43	0.0393	0.00	Q				
40+44	0.0391	0.00	Q				
40+45	0.0389	0.00	Q				
40+46	0.0387	0.00	Q				
40+47	0.0384	0.00	Q				
40+48	0.0382	0.00	Q				
40+49	0.0380	0.00	Q				
40+50	0.0378	0.00	Q				
40+51	0.0376	0.00	Q				
40+52	0.0373	0.00	Q				
40+53	0.0371	0.00	Q				
40+54	0.0369	0.00	Q				
40+55	0.0367	0.00	Q				
40+56	0.0365	0.00	Q				
40+57	0.0363	0.00	Q				
40+58	0.0361	0.00	Q				
40+59	0.0359	0.00	Q				
41+ 0	0.0356	0.00	Q				
41+ 1	0.0354	0.00	Q				
41+ 2	0.0352	0.00	Q				

41+ 3	0.0350	0.00	Q				
41+ 4	0.0348	0.00	Q				
41+ 5	0.0346	0.00	Q				
41+ 6	0.0344	0.00	Q				
41+ 7	0.0342	0.00	Q				
41+ 8	0.0340	0.00	Q				
41+ 9	0.0338	0.00	Q				
41+10	0.0336	0.00	Q				
41+11	0.0334	0.00	Q				
41+12	0.0333	0.00	Q				
41+13	0.0331	0.00	Q				
41+14	0.0329	0.00	Q				
41+15	0.0327	0.00	Q				
41+16	0.0325	0.00	Q				
41+17	0.0323	0.00	Q				
41+18	0.0321	0.00	Q				
41+19	0.0319	0.00	Q				
41+20	0.0317	0.00	Q				
41+21	0.0316	0.00	Q				
41+22	0.0314	0.00	Q				
41+23	0.0312	0.00	Q				
41+24	0.0310	0.00	Q				
41+25	0.0308	0.00	Q				
41+26	0.0307	0.00	Q				
41+27	0.0305	0.00	Q				
41+28	0.0303	0.00	Q				
41+29	0.0301	0.00	Q				
41+30	0.0300	0.00	Q				
41+31	0.0298	0.00	Q				
41+32	0.0296	0.00	Q				
41+33	0.0294	0.00	Q				
41+34	0.0293	0.00	Q				
41+35	0.0291	0.00	Q				
41+36	0.0289	0.00	Q				
41+37	0.0288	0.00	Q				
41+38	0.0286	0.00	Q				
41+39	0.0284	0.00	Q				
41+40	0.0283	0.00	Q				
41+41	0.0281	0.00	Q				
41+42	0.0279	0.00	Q				
41+43	0.0278	0.00	Q				
41+44	0.0276	0.00	Q				
41+45	0.0275	0.00	Q				
41+46	0.0273	0.00	Q				
41+47	0.0271	0.00	Q				
41+48	0.0270	0.00	Q				
41+49	0.0268	0.00	Q				
41+50	0.0267	0.00	Q				
41+51	0.0265	0.00	Q				
41+52	0.0264	0.00	Q				
41+53	0.0262	0.00	Q				
41+54	0.0261	0.00	Q				
41+55	0.0259	0.00	Q				
41+56	0.0258	0.00	Q				
41+57	0.0256	0.00	Q				
41+58	0.0255	0.00	Q				
41+59	0.0253	0.00	Q				
42+ 0	0.0252	0.00	Q				
42+ 1	0.0250	0.00	Q				
42+ 2	0.0249	0.00	Q				
42+ 3	0.0247	0.00	Q				
42+ 4	0.0246	0.00	Q				
42+ 5	0.0245	0.00	Q				
42+ 6	0.0243	0.00	Q				
42+ 7	0.0242	0.00	Q				
42+ 8	0.0240	0.00	Q				
42+ 9	0.0239	0.00	Q				
42+10	0.0238	0.00	Q				
42+11	0.0236	0.00	Q				
42+12	0.0235	0.00	Q				

```

*****HYDROGRAPH DATA*****
Number of intervals = 2532
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 1.730 (CFS)
Total volume = 2.916 (Ac.Ft)
Status of hydrographs being held in storage
Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
Peak (CFS) 7.041 0.000 0.000 0.000 0.000
Vol (Ac.Ft) 6.352 0.000 0.000 0.000 0.000
*****

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+++++++
Process from Point/Station 704.000 to Point/Station 1.000
**** ADD/COMBINE/RECOVER HYDROGRAPHS ****

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From stored stream number 1 the total
volume of 6.35 (Ac.Ft) is being added to the
current hydrograph at its original rate from user
with a delay time to start of addition of 0.00 hours.
+++++++

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P R I N T O F S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals (CFS)

Time(h+m)	Add q(CFS)	Tot. Q	0	2.2	4.3	6.5	8.6
0+ 1	0.0784	0.02	Q				
0+ 2	0.4186	0.09	Q				
0+ 3	6.0243	1.30		Q			
0+ 4	7.3544	2.09		q Q			
0+ 5	7.7157	2.76		q Q			
0+ 6	7.8579	3.03		q Q			
0+ 7	7.9509	3.15		q Q			
0+ 8	8.0333	3.20		q Q			
0+ 9	8.1138	3.24		q Q			
0+10	8.1943	3.26		q Q			
0+11	8.2750	3.28		q Q			
0+12	8.3548	3.30		q Q			
0+13	8.4344	3.32		q Q			
0+14	8.4375	3.32		q Q			
0+15	8.4407	3.32		q Q			
0+16	8.4438	3.32		q Q			
0+17	8.4470	3.32		q Q			
0+18	8.4501	3.32		q Q			
0+19	8.4533	3.32		q Q			
0+20	8.4565	3.32		q Q			
0+21	8.4597	3.32		q Q			
0+22	8.4629	3.32		q Q			
0+23	8.4661	3.32		q Q			
0+24	8.4693	3.32		q Q			
0+25	8.4725	3.32		q Q			
0+26	8.4757	3.32		q Q			
0+27	8.4813	3.32		q Q			
0+28	8.4869	3.33		q Q			
0+29	8.4926	3.33		q Q			
0+30	8.4982	3.33		q Q			
0+31	8.5038	3.33		q Q			
0+32	8.5095	3.33		q Q			
0+33	8.5151	3.33		q Q			
0+34	8.5208	3.33		q Q			
0+35	8.5264	3.33		q Q			
0+36	8.5321	3.34		q Q			
0+37	8.5378	3.34		q Q			
0+38	8.5435	3.34		q Q			
0+39	8.5492	3.34		q Q			
0+40	8.5529	3.34		q Q			

0+41	8.5567	3.34	α	Q			
0+42	8.5605	3.34	α	Q			
0+43	8.5643	3.34	α	Q			
0+44	8.5681	3.34	α	Q			
0+45	8.5719	3.34	α	Q			
0+46	8.5757	3.34	α	Q			
0+47	8.5796	3.34	α	Q			
0+48	8.5834	3.35	α	Q			
0+49	8.5872	3.35	α	Q			
0+50	8.5911	3.35	α	Q			
0+51	8.5949	3.35	α	Q			
0+52	8.5988	3.35	α	Q			
0+53	8.6056	3.35	α	Q			
0+54	8.6125	3.35	α	Q			
0+55	8.6194	3.35	α	Q			
0+56	8.6262	3.35	α	Q			
0+57	8.6331	3.36	α	Q			
0+58	8.6401	3.36	α	Q			
0+59	8.6470	3.36	α	Q			
1+ 0	8.6539	3.36	α	Q			
1+ 1	8.6608	3.36	α	Q			
1+ 2	8.6678	3.36	α	Q			
1+ 3	8.6747	3.36	α	Q			
1+ 4	8.6817	3.37	α	Q			
1+ 5	8.6886	3.37	α	Q			
1+ 6	8.6933	3.37	α	Q			
1+ 7	8.6979	3.37	α	Q			
1+ 8	8.7025	3.37	α	Q			
1+ 9	8.7071	3.37	α	Q			
1+10	8.7118	3.37	α	Q			
1+11	8.7165	3.37	α	Q			
1+12	8.7212	3.37	α	Q			
1+13	8.7259	3.38	α	Q			
1+14	8.7306	3.38	α	Q			
1+15	8.7353	3.38	α	Q			
1+16	8.7400	3.38	α	Q			
1+17	8.7448	3.38	α	Q			
1+18	8.7495	3.38	α	Q			
1+19	8.7581	3.38	α	Q			
1+20	8.7668	3.38	α	Q			
1+21	8.7754	3.39	α	Q			
1+22	8.7841	3.39	α	Q			
1+23	8.7927	3.39	α	Q			
1+24	8.8014	3.39	α	Q			
1+25	8.8101	3.39	α	Q			
1+26	8.8188	3.40	α	Q			
1+27	8.8275	3.40	α	Q			
1+28	8.8363	3.40	α	Q			
1+29	8.8450	3.40	α	Q			
1+30	8.8538	3.40	α	Q			
1+31	8.8626	3.41	α	Q			
1+32	8.8685	3.41	α	Q			
1+33	8.8743	3.41	α	Q			
1+34	8.8802	3.41	α	Q			
1+35	8.8861	3.41	α	Q			
1+36	8.8920	3.41	α	Q			
1+37	8.8978	3.41	α	Q			
1+38	8.9038	3.42	α	Q			
1+39	8.9097	3.42	α	Q			
1+40	8.9156	3.42	α	Q			
1+41	8.9216	3.42	α	Q			
1+42	8.9275	3.42	α	Q			
1+43	8.9335	3.42	α	Q			
1+44	8.9395	3.42	α	Q			
1+45	8.9509	3.43	α	Q			
1+46	8.9622	3.43	α	Q			
1+47	8.9735	3.43	α	Q			
1+48	8.9849	3.43	α	Q			
1+49	8.9963	3.44	α	Q			
1+50	9.0077	3.44	α	Q			
1+51	9.0191	3.44	α	Q			

1+52	9.0305	3.45	q	Q			
1+53	9.0419	3.45	q	Q			
1+54	9.0533	3.45	q	Q			
1+55	9.0648	3.45	q	Q			
1+56	9.0762	3.46	q	Q			
1+57	9.0877	3.46	q	Q			
1+58	9.0954	3.46	q	Q			
1+59	9.1032	3.46	q	Q			
2+ 0	9.1109	3.46	q	Q			
2+ 1	9.1187	3.47	q	Q			
2+ 2	9.1265	3.47	q	Q			
2+ 3	9.1344	3.47	q	Q			
2+ 4	9.1422	3.47	q	Q			
2+ 5	9.1501	3.47	q	Q			
2+ 6	9.1579	3.48	q	Q			
2+ 7	9.1658	3.48	q	Q			
2+ 8	9.1737	3.48	q	Q			
2+ 9	9.1816	3.48	q	Q			
2+10	9.1895	3.48	q	Q			
2+11	9.2052	3.49	q	Q			
2+12	9.2209	3.49	q	Q			
2+13	9.2367	3.49	q	Q			
2+14	9.2524	3.50	q	Q			
2+15	9.2682	3.50	q	Q			
2+16	9.2841	3.50	q	Q			
2+17	9.2999	3.51	q	Q			
2+18	9.3158	3.51	q	Q			
2+19	9.3317	3.52	q	Q			
2+20	9.3476	3.52	q	Q			
2+21	9.3636	3.52	q	Q			
2+22	9.3795	3.53	q	Q			
2+23	9.3955	3.53	q	Q			
2+24	9.4064	3.53	q	Q			
2+25	9.4174	3.53	q	Q			
2+26	9.4283	3.54	q	Q			
2+27	9.4393	3.54	q	Q			
2+28	9.4503	3.54	q	Q			
2+29	9.4613	3.54	q	Q			
2+30	9.4724	3.55	q	Q			
2+31	9.4835	3.55	q	Q			
2+32	9.4946	3.55	q	Q			
2+33	9.5058	3.56	q	Q			
2+34	9.5170	3.56	q	Q			
2+35	9.5283	3.56	q	Q			
2+36	9.5396	3.56	q	Q			
2+37	9.5636	3.57	q	Q			
2+38	9.5876	3.57	q	Q			
2+39	9.6116	3.58	q	Q			
2+40	9.6357	3.58	q	Q			
2+41	9.6598	3.59	q	Q			
2+42	9.6839	3.60	q	Q			
2+43	9.7081	3.60	q	Q			
2+44	9.7322	3.61	q	Q			
2+45	9.7565	3.61	q	Q			
2+46	9.7808	3.62	q	Q			
2+47	9.8051	3.62	q	Q			
2+48	9.8295	3.63	q	Q			
2+49	9.8539	3.63	q	Q			
2+50	9.8713	3.64	q	Q			
2+51	9.8888	3.64	q	Q			
2+52	9.9063	3.65	q	Q			
2+53	9.9238	3.65	q	Q			
2+54	9.9413	3.65	q	Q			
2+55	9.9589	3.66	q	Q			
2+56	9.9765	3.66	q	Q			
2+57	9.9941	3.67	q	Q			
2+58	10.0118	3.67	q	Q			
2+59	10.0295	3.67	q	Q			
3+ 0	10.0472	3.68	q	Q			
3+ 1	10.0651	3.68	q	Q			
3+ 2	10.0830	3.69	q	Q			

3+ 3	10.1266	3.70		q	Q				
3+ 4	10.1702	3.71		q	Q				
3+ 5	10.2139	3.72		q	Q				
3+ 6	10.2577	3.73		q	Q				
3+ 7	10.3016	3.74		q	Q				
3+ 8	10.3455	3.75		q	Q				
3+ 9	10.3894	3.76		q	Q				
3+10	10.4334	3.77		q	Q				
3+11	10.4774	3.78		q	Q				
3+12	10.5215	3.79		q	Q				
3+13	10.5656	3.80		q	Q				
3+14	10.6098	3.81		q	Q				
3+15	10.6540	3.82		q	Q				
3+16	10.6890	3.82		q	Q				
3+17	10.7242	3.83		q	Q				
3+18	10.7595	3.84		q	Q				
3+19	10.7949	3.85		q	Q				
3+20	10.8304	3.86		q	Q				
3+21	10.8660	3.86		q	Q				
3+22	10.9016	3.87		q	Q				
3+23	10.9372	3.88		q	Q				
3+24	10.9728	3.89		q	Q				
3+25	11.0085	3.90		q	Q				
3+26	11.0443	3.91		q	Q				
3+27	11.0801	3.91		q	Q				
3+28	11.1161	3.92		q	Q				
3+29	11.2374	3.95		q	Q				
3+30	11.3588	3.98		q	Q				
3+31	11.4803	4.00		q	Q				
3+32	11.6020	4.03		q	Q				
3+33	11.7239	4.06		q	Q				
3+34	11.8460	4.08		q	Q				
3+35	11.9683	4.11		q	Q				
3+36	12.0909	4.14		q	Q				
3+37	12.2136	4.16		q	Q				
3+38	12.3365	4.19		q	Q				
3+39	12.4596	4.22		q	Q				
3+40	12.5829	4.25		q	Q				
3+41	12.7063	4.27		q	Q				
3+42	12.8624	4.31		q	Q				
3+43	13.0187	4.34		q	Q				
3+44	13.1752	4.38		q	Q				
3+45	13.3318	4.41		q	Q				
3+46	13.4886	4.45		q	Q				
3+47	13.6457	4.48		q	Q				
3+48	13.8033	4.52		q	Q				
3+49	13.9616	4.55		q	Q				
3+50	14.1204	4.59		q	Q				
3+51	14.2798	4.62		q	Q				
3+52	14.4398	4.66		q	Q				
3+53	14.6004	4.70		q	Q				
3+54	14.7616	4.73		q	Q				
3+55	16.1183	5.03		q	Q				
3+56	17.4758	5.32		q	Q				
3+57	18.8340	5.62		q	Q				
3+58	20.1930	5.91		q	Q				
3+59	21.5527	6.21		q	Q				
4+ 0	22.9132	6.51		q	Q				
4+ 1	24.2745	6.80		q	Q				
4+ 2	25.6366	7.10		q	Q				
4+ 3	27.0020	7.40		q	Q				
4+ 4	28.3743	7.70		q	Q				
4+ 5	29.7672	8.00		q	Q				
4+ 6	31.1865	8.32		q	Q				
4+ 7	32.6221	8.63		q	Q				
4+ 8	31.1661	8.33		q	Q				
4+ 9	29.7236	8.03		q	Q				
4+10	28.2938	7.74		q	Q				
4+11	26.8655	7.45		q	Q				
4+12	25.4253	7.15		q	Q				
4+13	23.9611	6.84		q	Q				

4+14	22.4536	6.53				α			
4+15	20.9305	6.21				α			
4+16	19.3982	5.88				α			
4+17	17.8582	5.55				α			
4+18	16.3107	5.22				α			
4+19	14.7587	4.89				α			
4+20	13.2054	4.55				α			
4+21	13.1178	4.53				α			
4+22	13.0297	4.52				α			
4+23	12.9412	4.50				α			
4+24	12.8522	4.48				α			
4+25	12.7628	4.46				α			
4+26	12.6729	4.45				α			
4+27	12.5827	4.43				α			
4+28	12.4922	4.41				α			
4+29	12.4015	4.39				α			
4+30	12.3107	4.37				α			
4+31	12.2196	4.35				α			
4+32	12.1284	4.33				α			
4+33	12.0369	4.31				α			
4+34	11.9991	4.31				α			
4+35	11.9611	4.30				α			
4+36	11.9229	4.29				α			
4+37	11.8847	4.28				α			
4+38	11.8463	4.28				α			
4+39	11.8078	4.27				α			
4+40	11.7692	4.26				α			
4+41	11.7305	4.25				α			
4+42	11.6917	4.25				α			
4+43	11.6528	4.24				α			
4+44	11.6137	4.23				α			
4+45	11.5747	4.22				α			
4+46	11.5355	4.21				α			
4+47	11.5138	4.21				α			
4+48	11.4921	4.21				α			
4+49	11.4702	4.20				α			
4+50	11.4483	4.20				α			
4+51	11.4264	4.19				α			
4+52	11.4043	4.19				α			
4+53	11.3822	4.18				α			
4+54	11.3601	4.18				α			
4+55	11.3379	4.17				α			
4+56	11.3156	4.17				α			
4+57	11.2933	4.17				α			
4+58	11.2710	4.16				α			
4+59	11.2485	4.16				α			
5+ 0	11.2342	4.15				α			
5+ 1	11.2199	4.15				α			
5+ 2	11.2055	4.15				α			
5+ 3	11.1911	4.14				α			
5+ 4	11.1767	4.14				α			
5+ 5	11.1622	4.14				α			
5+ 6	11.1476	4.14				α			
5+ 7	11.1330	4.13				α			
5+ 8	11.1184	4.13				α			
5+ 9	11.1038	4.13				α			
5+10	11.0891	4.12				α			
5+11	11.0744	4.12				α			
5+12	11.0596	4.12				α			
5+13	11.0494	4.11				α			
5+14	11.0391	4.11				α			
5+15	11.0288	4.11				α			
5+16	11.0184	4.11				α			
5+17	11.0081	4.11				α			
5+18	10.9977	4.10				α			
5+19	10.9873	4.10				α			
5+20	10.9768	4.10				α			
5+21	10.9663	4.10				α			
5+22	10.9558	4.09				α			
5+23	10.9453	4.09				α			
5+24	10.9348	4.09				α			

5+25	10.9242	4.09	q	Q		
5+26	10.9164	4.09	q	Q		
5+27	10.9086	4.08	q	Q		
5+28	10.9008	4.08	q	Q		
5+29	10.8929	4.08	q	Q		
5+30	10.8851	4.08	q	Q		
5+31	10.8772	4.08	q	Q		
5+32	10.8692	4.08	q	Q		
5+33	10.8613	4.07	q	Q		
5+34	10.8534	4.07	q	Q		
5+35	10.8454	4.07	q	Q		
5+36	10.8374	4.07	q	Q		
5+37	10.8294	4.07	q	Q		
5+38	10.8213	4.06	q	Q		
5+39	10.8152	4.06	q	Q		
5+40	10.8090	4.06	q	Q		
5+41	10.8028	4.06	q	Q		
5+42	10.7966	4.06	q	Q		
5+43	10.7903	4.06	q	Q		
5+44	10.7841	4.06	q	Q		
5+45	10.7778	4.05	q	Q		
5+46	10.7715	4.05	q	Q		
5+47	10.7652	4.05	q	Q		
5+48	10.7589	4.05	q	Q		
5+49	10.7526	4.05	q	Q		
5+50	10.7462	4.05	q	Q		
5+51	10.7398	4.05	q	Q		
5+52	10.7348	4.04	q	Q		
5+53	10.7297	4.04	q	Q		
5+54	10.7246	4.04	q	Q		
5+55	10.7195	4.04	q	Q		
5+56	10.7144	4.04	q	Q		
5+57	10.7093	4.04	q	Q		
5+58	10.7042	4.04	q	Q		
5+59	10.6990	4.04	q	Q		
6+ 0	10.6939	4.03	q	Q		
6+ 1	10.6887	4.03	q	Q		
6+ 2	10.6835	4.03	q	Q		
6+ 3	10.6783	4.03	q	Q		
6+ 4	10.6731	4.03	q	Q		
6+ 5	9.6789	3.81	q	Q		
6+ 6	9.6796	3.81	q	Q		
6+ 7	9.6803	3.81	q	Q		
6+ 8	9.6810	3.81	q	Q		
6+ 9	9.6816	3.81	q	Q		
6+10	9.6822	3.81	q	Q		
6+11	9.6820	3.81	q	Q		
6+12	9.6808	3.81	q	Q		
6+13	9.6795	3.81	q	Q		
6+14	9.6781	3.81	q	Q		
6+15	9.6766	3.81	q	Q		
6+16	9.6752	3.81	q	Q		
6+17	9.6738	3.81	q	Q		
6+18	9.6723	3.80	q	Q		
6+19	9.6709	3.80	q	Q		
6+20	9.6695	3.80	q	Q		
6+21	9.6680	3.80	q	Q		
6+22	9.6666	3.80	q	Q		
6+23	9.6652	3.80	q	Q		
6+24	9.6637	3.80	q	Q		
6+25	9.6623	3.80	q	Q		
6+26	9.6609	3.80	q	Q		
6+27	9.6594	3.80	q	Q		
6+28	9.6580	3.79	q	Q		
6+29	9.6566	3.79	q	Q		
6+30	9.6552	3.79	q	Q		
6+31	9.6537	3.79	q	Q		
6+32	9.6523	3.79	q	Q		
6+33	9.6509	3.79	q	Q		
6+34	9.6494	3.79	q	Q		
6+35	9.6480	3.79	q	Q		

6+36	9.6466	3.79		q	Q				
6+37	9.6451	3.78		q	Q				
6+38	9.6437	3.78		q	Q				
6+39	9.6423	3.78		q	Q				
6+40	9.6409	3.78		q	Q				
6+41	9.6394	3.78		q	Q				
6+42	9.6380	3.78		q	Q				
6+43	9.6366	3.78		q	Q				
6+44	9.6352	3.78		q	Q				
6+45	9.6337	3.78		q	Q				
6+46	9.6323	3.77		q	Q				
6+47	9.6309	3.77		q	Q				
6+48	9.6294	3.77		q	Q				
6+49	9.6280	3.77		q	Q				
6+50	9.6266	3.77		q	Q				
6+51	9.6252	3.77		q	Q				
6+52	9.6237	3.77		q	Q				
6+53	9.6223	3.77		q	Q				
6+54	9.6209	3.77		q	Q				
6+55	9.6195	3.77		q	Q				
6+56	9.6180	3.76		q	Q				
6+57	9.6166	3.76		q	Q				
6+58	9.6152	3.76		q	Q				
6+59	9.6138	3.76		q	Q				
7+ 0	9.6123	3.76		q	Q				
7+ 1	9.6109	3.76		q	Q				
7+ 2	9.6095	3.76		q	Q				
7+ 3	9.6081	3.76		q	Q				
7+ 4	9.6067	3.76		q	Q				
7+ 5	9.6052	3.75		q	Q				
7+ 6	9.6038	3.75		q	Q				
7+ 7	9.6024	3.75		q	Q				
7+ 8	9.6010	3.75		q	Q				
7+ 9	9.5995	3.75		q	Q				
7+10	9.5981	3.75		q	Q				
7+11	9.5967	3.75		q	Q				
7+12	9.5953	3.75		q	Q				
7+13	9.5939	3.75		q	Q				
7+14	9.5924	3.75		q	Q				
7+15	9.5910	3.74		q	Q				
7+16	9.5896	3.74		q	Q				
7+17	9.5882	3.74		q	Q				
7+18	9.5868	3.74		q	Q				
7+19	9.5853	3.74		q	Q				
7+20	9.5839	3.74		q	Q				
7+21	9.5825	3.74		q	Q				
7+22	9.5811	3.74		q	Q				
7+23	9.5797	3.74		q	Q				
7+24	9.5782	3.73		q	Q				
7+25	9.5768	3.73		q	Q				
7+26	9.5754	3.73		q	Q				
7+27	9.5740	3.73		q	Q				
7+28	9.5726	3.73		q	Q				
7+29	9.5711	3.73		q	Q				
7+30	9.5697	3.73		q	Q				
7+31	9.5683	3.73		q	Q				
7+32	9.5669	3.73		q	Q				
7+33	9.5655	3.73		q	Q				
7+34	9.5641	3.72		q	Q				
7+35	9.5626	3.72		q	Q				
7+36	9.5612	3.72		q	Q				
7+37	9.5598	3.72		q	Q				
7+38	9.5584	3.72		q	Q				
7+39	9.5570	3.72		q	Q				
7+40	9.5556	3.72		q	Q				
7+41	9.5542	3.72		q	Q				
7+42	9.5527	3.72		q	Q				
7+43	9.5513	3.71		q	Q				
7+44	9.5499	3.71		q	Q				
7+45	9.5485	3.71		q	Q				
7+46	9.5471	3.71		q	Q				

7+47	9.5457	3.71	q	Q			
7+48	9.5443	3.71	q	Q			
7+49	9.5428	3.71	q	Q			
7+50	9.5414	3.71	q	Q			
7+51	9.5400	3.71	q	Q			
7+52	9.5386	3.71	q	Q			
7+53	9.5372	3.70	q	Q			
7+54	9.5358	3.70	q	Q			
7+55	9.5344	3.70	q	Q			
7+56	9.5330	3.70	q	Q			
7+57	9.5315	3.70	q	Q			
7+58	9.5301	3.70	q	Q			
7+59	9.5287	3.70	q	Q			
8+ 0	9.5273	3.70	q	Q			
8+ 1	9.5259	3.70	q	Q			
8+ 2	9.5245	3.70	q	Q			
8+ 3	9.5231	3.69	q	Q			
8+ 4	9.5217	3.69	q	Q			
8+ 5	9.5203	3.69	q	Q			
8+ 6	9.5188	3.69	q	Q			
8+ 7	9.5174	3.69	q	Q			
8+ 8	9.5160	3.69	q	Q			
8+ 9	9.5146	3.69	q	Q			
8+10	9.5132	3.69	q	Q			
8+11	9.5118	3.69	q	Q			
8+12	9.5104	3.68	q	Q			
8+13	9.5090	3.68	q	Q			
8+14	9.5076	3.68	q	Q			
8+15	9.5062	3.68	q	Q			
8+16	9.5048	3.68	q	Q			
8+17	9.5033	3.68	q	Q			
8+18	9.5019	3.68	q	Q			
8+19	9.5005	3.68	q	Q			
8+20	9.4991	3.68	q	Q			
8+21	9.4977	3.68	q	Q			
8+22	9.4963	3.67	q	Q			
8+23	9.4949	3.67	q	Q			
8+24	9.4935	3.67	q	Q			
8+25	9.4921	3.67	q	Q			
8+26	9.4907	3.67	q	Q			
8+27	9.4893	3.67	q	Q			
8+28	9.4879	3.67	q	Q			
8+29	9.4865	3.67	q	Q			
8+30	9.4851	3.67	q	Q			
8+31	9.4837	3.67	q	Q			
8+32	9.4823	3.66	q	Q			
8+33	9.4809	3.66	q	Q			
8+34	9.4794	3.66	q	Q			
8+35	9.4780	3.66	q	Q			
8+36	9.4766	3.66	q	Q			
8+37	9.4752	3.66	q	Q			
8+38	9.4738	3.66	q	Q			
8+39	9.4724	3.66	q	Q			
8+40	9.4710	3.66	q	Q			
8+41	9.4696	3.66	q	Q			
8+42	9.4682	3.65	q	Q			
8+43	9.4668	3.65	q	Q			
8+44	9.4654	3.65	q	Q			
8+45	9.4640	3.65	q	Q			
8+46	9.4626	3.65	q	Q			
8+47	9.4612	3.65	q	Q			
8+48	9.4598	3.65	q	Q			
8+49	9.4584	3.65	q	Q			
8+50	9.4570	3.65	q	Q			
8+51	9.4556	3.65	q	Q			
8+52	9.4542	3.64	q	Q			
8+53	9.4528	3.64	q	Q			
8+54	9.4514	3.64	q	Q			
8+55	9.4500	3.64	q	Q			
8+56	9.4486	3.64	q	Q			
8+57	9.4472	3.64	q	Q			

8+58	9.4458	3.64		q	Q				
8+59	9.4444	3.64		q	Q				
9+ 0	9.4430	3.64		q	Q				
9+ 1	9.4416	3.64		q	Q				
9+ 2	9.4402	3.64		q	Q				
9+ 3	9.4388	3.63		q	Q				
9+ 4	9.4374	3.63		q	Q				
9+ 5	9.4360	3.63		q	Q				
9+ 6	9.4346	3.63		q	Q				
9+ 7	9.4332	3.63		q	Q				
9+ 8	9.4318	3.63		q	Q				
9+ 9	9.4304	3.63		q	Q				
9+10	9.4290	3.63		q	Q				
9+11	9.4276	3.63		q	Q				
9+12	9.4262	3.63		q	Q				
9+13	9.4249	3.63		q	Q				
9+14	9.4235	3.63		q	Q				
9+15	9.4221	3.63		q	Q				
9+16	9.4207	3.63		q	Q				
9+17	9.4193	3.63		q	Q				
9+18	9.4179	3.62		q	Q				
9+19	9.4165	3.62		q	Q				
9+20	9.4151	3.62		q	Q				
9+21	9.4137	3.62		q	Q				
9+22	9.4123	3.62		q	Q				
9+23	9.4109	3.62		q	Q				
9+24	9.4095	3.62		q	Q				
9+25	9.4081	3.62		q	Q				
9+26	9.4067	3.62		q	Q				
9+27	9.4053	3.62		q	Q				
9+28	9.4039	3.62		q	Q				
9+29	9.4025	3.62		q	Q				
9+30	9.4012	3.62		q	Q				
9+31	9.3998	3.62		q	Q				
9+32	9.3984	3.61		q	Q				
9+33	9.3970	3.61		q	Q				
9+34	9.3956	3.61		q	Q				
9+35	9.3942	3.61		q	Q				
9+36	9.3928	3.61		q	Q				
9+37	9.3914	3.61		q	Q				
9+38	9.3900	3.61		q	Q				
9+39	9.3886	3.61		q	Q				
9+40	9.3872	3.61		q	Q				
9+41	9.3858	3.61		q	Q				
9+42	9.3845	3.61		q	Q				
9+43	9.3831	3.61		q	Q				
9+44	9.3817	3.61		q	Q				
9+45	9.3803	3.61		q	Q				
9+46	9.3789	3.61		q	Q				
9+47	9.3775	3.60		q	Q				
9+48	9.3761	3.60		q	Q				
9+49	9.3747	3.60		q	Q				
9+50	9.3733	3.60		q	Q				
9+51	9.3720	3.60		q	Q				
9+52	9.3706	3.60		q	Q				
9+53	9.3692	3.60		q	Q				
9+54	9.3678	3.60		q	Q				
9+55	9.3664	3.60		q	Q				
9+56	9.3650	3.60		q	Q				
9+57	9.3636	3.60		q	Q				
9+58	9.3622	3.60		q	Q				
9+59	9.3609	3.60		q	Q				
10+ 0	9.3595	3.60		q	Q				
10+ 1	9.3581	3.59		q	Q				
10+ 2	9.3567	3.59		q	Q				
10+ 3	9.3553	3.59		q	Q				
10+ 4	9.3539	3.59		q	Q				
10+ 5	9.3525	3.59		q	Q				
10+ 6	9.3512	3.59		q	Q				
10+ 7	9.3498	3.59		q	Q				
10+ 8	9.3484	3.59		q	Q				

10+ 9	9.3470	3.59	q	Q				
10+10	9.3456	3.59	q	Q				
10+11	9.3442	3.59	q	Q				
10+12	9.3429	3.59	q	Q				
10+13	9.3415	3.59	q	Q				
10+14	9.3401	3.59	q	Q				
10+15	9.3387	3.59	q	Q				
10+16	9.3373	3.58	q	Q				
10+17	9.3359	3.58	q	Q				
10+18	9.3346	3.58	q	Q				
10+19	9.3332	3.58	q	Q				
10+20	9.3318	3.58	q	Q				
10+21	9.3304	3.58	q	Q				
10+22	9.3290	3.58	q	Q				
10+23	9.3276	3.58	q	Q				
10+24	9.3263	3.58	q	Q				
10+25	9.3249	3.58	q	Q				
10+26	9.3235	3.58	q	Q				
10+27	9.3221	3.58	q	Q				
10+28	9.3207	3.58	q	Q				
10+29	9.3194	3.58	q	Q				
10+30	9.3180	3.57	q	Q				
10+31	9.3166	3.57	q	Q				
10+32	9.3152	3.57	q	Q				
10+33	9.3138	3.57	q	Q				
10+34	9.3125	3.57	q	Q				
10+35	9.3111	3.57	q	Q				
10+36	9.3097	3.57	q	Q				
10+37	9.3083	3.57	q	Q				
10+38	9.3069	3.57	q	Q				
10+39	9.3056	3.57	q	Q				
10+40	9.3042	3.57	q	Q				
10+41	9.3028	3.57	q	Q				
10+42	9.3014	3.57	q	Q				
10+43	9.3001	3.57	q	Q				
10+44	9.2987	3.57	q	Q				
10+45	9.2973	3.56	q	Q				
10+46	9.2959	3.56	q	Q				
10+47	9.2945	3.56	q	Q				
10+48	9.2932	3.56	q	Q				
10+49	9.2918	3.56	q	Q				
10+50	9.2904	3.56	q	Q				
10+51	9.2890	3.56	q	Q				
10+52	9.2877	3.56	q	Q				
10+53	9.2863	3.56	q	Q				
10+54	9.2849	3.56	q	Q				
10+55	9.2835	3.56	q	Q				
10+56	9.2822	3.56	q	Q				
10+57	9.2808	3.56	q	Q				
10+58	9.2794	3.56	q	Q				
10+59	9.2780	3.56	q	Q				
11+ 0	9.2767	3.55	q	Q				
11+ 1	9.2753	3.55	q	Q				
11+ 2	9.2739	3.55	q	Q				
11+ 3	9.2725	3.55	q	Q				
11+ 4	9.2712	3.55	q	Q				
11+ 5	9.2698	3.55	q	Q				
11+ 6	9.2684	3.55	q	Q				
11+ 7	9.2670	3.55	q	Q				
11+ 8	9.2645	3.55	q	Q				
11+ 9	9.2617	3.55	q	Q				
11+10	9.2588	3.55	q	Q				
11+11	9.2560	3.55	q	Q				
11+12	9.2531	3.54	q	Q				
11+13	9.2502	3.54	q	Q				
11+14	9.2474	3.54	q	Q				
11+15	9.2445	3.54	q	Q				
11+16	9.2417	3.54	q	Q				
11+17	9.2388	3.54	q	Q				
11+18	9.2359	3.54	q	Q				
11+19	9.2331	3.54	q	Q				

11+20	9.2302	3.54	q	Q				
11+21	9.2274	3.54	q	Q				
11+22	9.2245	3.53	q	Q				
11+23	9.2217	3.53	q	Q				
11+24	9.2188	3.53	q	Q				
11+25	9.2159	3.53	q	Q				
11+26	9.2131	3.53	q	Q				
11+27	9.2102	3.53	q	Q				
11+28	9.2074	3.53	q	Q				
11+29	9.2045	3.53	q	Q				
11+30	9.2017	3.53	q	Q				
11+31	9.1988	3.53	q	Q				
11+32	9.1960	3.52	q	Q				
11+33	9.1932	3.52	q	Q				
11+34	9.1903	3.52	q	Q				
11+35	9.1875	3.52	q	Q				
11+36	9.1846	3.52	q	Q				
11+37	9.1818	3.52	q	Q				
11+38	9.1789	3.52	q	Q				
11+39	9.1761	3.52	q	Q				
11+40	9.1733	3.52	q	Q				
11+41	9.1704	3.52	q	Q				
11+42	9.1676	3.51	q	Q				
11+43	9.1647	3.51	q	Q				
11+44	9.1619	3.51	q	Q				
11+45	9.1591	3.51	q	Q				
11+46	9.1562	3.51	q	Q				
11+47	9.1534	3.51	q	Q				
11+48	9.1506	3.51	q	Q				
11+49	9.1477	3.51	q	Q				
11+50	9.1449	3.51	q	Q				
11+51	9.1421	3.51	q	Q				
11+52	9.1392	3.51	q	Q				
11+53	9.1364	3.50	q	Q				
11+54	9.1336	3.50	q	Q				
11+55	9.1308	3.50	q	Q				
11+56	9.1279	3.50	q	Q				
11+57	9.1251	3.50	q	Q				
11+58	9.1223	3.50	q	Q				
11+59	9.1195	3.50	q	Q				
12+ 0	9.1166	3.50	q	Q				
12+ 1	9.1138	3.50	q	Q				
12+ 2	9.1110	3.50	q	Q				
12+ 3	9.1082	3.49	q	Q				
12+ 4	9.1054	3.49	q	Q				
12+ 5	9.1025	3.49	q	Q				
12+ 6	9.0997	3.49	q	Q				
12+ 7	9.0969	3.49	q	Q				
12+ 8	9.0941	3.49	q	Q				
12+ 9	9.0913	3.49	q	Q				
12+10	9.0885	3.49	q	Q				
12+11	9.0857	3.49	q	Q				
12+12	9.0828	3.49	q	Q				
12+13	9.0800	3.48	q	Q				
12+14	9.0772	3.48	q	Q				
12+15	9.0744	3.48	q	Q				
12+16	9.0716	3.48	q	Q				
12+17	9.0688	3.48	q	Q				
12+18	9.0660	3.48	q	Q				
12+19	9.0632	3.48	q	Q				
12+20	9.0604	3.48	q	Q				
12+21	9.0576	3.48	q	Q				
12+22	9.0548	3.48	q	Q				
12+23	9.0520	3.47	q	Q				
12+24	9.0492	3.47	q	Q				
12+25	9.0464	3.47	q	Q				
12+26	9.0436	3.47	q	Q				
12+27	9.0408	3.47	q	Q				
12+28	9.0380	3.47	q	Q				
12+29	9.0352	3.47	q	Q				
12+30	9.0324	3.47	q	Q				

12+31	9.0296	3.47	q	Q			
12+32	9.0268	3.47	q	Q			
12+33	9.0240	3.46	q	Q			
12+34	9.0212	3.46	q	Q			
12+35	9.0184	3.46	q	Q			
12+36	9.0156	3.46	q	Q			
12+37	9.0128	3.46	q	Q			
12+38	9.0100	3.46	q	Q			
12+39	9.0073	3.46	q	Q			
12+40	9.0045	3.46	q	Q			
12+41	9.0017	3.46	q	Q			
12+42	8.9989	3.46	q	Q			
12+43	8.9961	3.46	q	Q			
12+44	8.9933	3.45	q	Q			
12+45	8.9905	3.45	q	Q			
12+46	8.9878	3.45	q	Q			
12+47	8.9850	3.45	q	Q			
12+48	8.9822	3.45	q	Q			
12+49	8.9794	3.45	q	Q			
12+50	8.9766	3.45	q	Q			
12+51	8.9739	3.45	q	Q			
12+52	8.9711	3.45	q	Q			
12+53	8.9683	3.45	q	Q			
12+54	8.9655	3.44	q	Q			
12+55	8.9628	3.44	q	Q			
12+56	8.9600	3.44	q	Q			
12+57	8.9572	3.44	q	Q			
12+58	8.9544	3.44	q	Q			
12+59	8.9517	3.44	q	Q			
13+ 0	8.9489	3.44	q	Q			
13+ 1	8.9461	3.44	q	Q			
13+ 2	8.9434	3.44	q	Q			
13+ 3	8.9406	3.44	q	Q			
13+ 4	8.9378	3.43	q	Q			
13+ 5	8.9351	3.43	q	Q			
13+ 6	8.9323	3.43	q	Q			
13+ 7	8.9295	3.43	q	Q			
13+ 8	8.9268	3.43	q	Q			
13+ 9	8.9240	3.43	q	Q			
13+10	8.9212	3.43	q	Q			
13+11	8.9185	3.43	q	Q			
13+12	8.9157	3.43	q	Q			
13+13	8.9130	3.43	q	Q			
13+14	8.9102	3.43	q	Q			
13+15	8.9074	3.42	q	Q			
13+16	8.9047	3.42	q	Q			
13+17	8.9019	3.42	q	Q			
13+18	8.8992	3.42	q	Q			
13+19	8.8964	3.42	q	Q			
13+20	8.8937	3.42	q	Q			
13+21	8.8909	3.42	q	Q			
13+22	8.8882	3.42	q	Q			
13+23	8.8854	3.41	q	Q			
13+24	8.8827	3.41	q	Q			
13+25	8.8799	3.41	q	Q			
13+26	8.8772	3.41	q	Q			
13+27	8.8744	3.41	q	Q			
13+28	8.8717	3.41	q	Q			
13+29	8.8689	3.41	q	Q			
13+30	8.8662	3.40	q	Q			
13+31	8.8634	3.40	q	Q			
13+32	8.8607	3.40	q	Q			
13+33	8.8580	3.40	q	Q			
13+34	8.8552	3.40	q	Q			
13+35	8.8525	3.40	q	Q			
13+36	8.8497	3.40	q	Q			
13+37	8.8470	3.39	q	Q			
13+38	8.8443	3.39	q	Q			
13+39	8.8415	3.39	q	Q			
13+40	8.8388	3.39	q	Q			
13+41	8.8360	3.39	q	Q			

13+42	8.8333	3.39	Q	Q
13+43	8.8306	3.39	Q	Q
13+44	8.8278	3.39	Q	Q
13+45	8.8251	3.38	Q	Q
13+46	8.8224	3.38	Q	Q
13+47	8.8196	3.38	Q	Q
13+48	8.8169	3.38	Q	Q
13+49	8.8142	3.38	Q	Q
13+50	8.8115	3.38	Q	Q
13+51	8.8087	3.38	Q	Q
13+52	8.8060	3.37	Q	Q
13+53	8.8033	3.37	Q	Q
13+54	8.8006	3.37	Q	Q
13+55	8.7978	3.37	Q	Q
13+56	8.7951	3.37	Q	Q
13+57	8.7924	3.37	Q	Q
13+58	8.7897	3.37	Q	Q
13+59	8.7869	3.36	Q	Q
14+ 0	8.7842	3.36	Q	Q
14+ 1	8.7815	3.36	Q	Q
14+ 2	8.7788	3.36	Q	Q
14+ 3	8.7761	3.36	Q	Q
14+ 4	8.7734	3.36	Q	Q
14+ 5	8.7706	3.36	Q	Q
14+ 6	8.7679	3.35	Q	Q
14+ 7	8.7652	3.35	Q	Q
14+ 8	8.7625	3.35	Q	Q
14+ 9	8.7598	3.35	Q	Q
14+10	8.7571	3.35	Q	Q
14+11	8.7544	3.35	Q	Q
14+12	8.7517	3.35	Q	Q
14+13	8.7490	3.34	Q	Q
14+14	8.7462	3.34	Q	Q
14+15	8.7435	3.34	Q	Q
14+16	8.7408	3.34	Q	Q
14+17	8.7381	3.34	Q	Q
14+18	8.7354	3.34	Q	Q
14+19	8.7327	3.34	Q	Q
14+20	8.7300	3.33	Q	Q
14+21	8.7273	3.33	Q	Q
14+22	8.7246	3.33	Q	Q
14+23	8.7219	3.33	Q	Q
14+24	8.7192	3.33	Q	Q
14+25	8.7165	3.33	Q	Q
14+26	8.7138	3.33	Q	Q
14+27	8.7111	3.33	Q	Q
14+28	8.7084	3.32	Q	Q
14+29	8.7057	3.32	Q	Q
14+30	8.7030	3.32	Q	Q
14+31	8.7003	3.32	Q	Q
14+32	8.6977	3.32	Q	Q
14+33	8.6950	3.32	Q	Q
14+34	8.6923	3.32	Q	Q
14+35	8.6896	3.31	Q	Q
14+36	8.6869	3.31	Q	Q
14+37	8.6842	3.31	Q	Q
14+38	8.6815	3.31	Q	Q
14+39	8.6788	3.31	Q	Q
14+40	8.6761	3.31	Q	Q
14+41	8.6735	3.31	Q	Q
14+42	8.6708	3.30	Q	Q
14+43	8.6681	3.30	Q	Q
14+44	8.6654	3.30	Q	Q
14+45	8.6627	3.30	Q	Q
14+46	8.6600	3.30	Q	Q
14+47	8.6574	3.30	Q	Q
14+48	8.6547	3.30	Q	Q
14+49	8.6520	3.30	Q	Q
14+50	8.6493	3.29	Q	Q
14+51	8.6467	3.29	Q	Q
14+52	8.6440	3.29	Q	Q

14+53	8.6413	3.29	Q	Q
14+54	8.6386	3.29	Q	Q
14+55	8.6360	3.29	Q	Q
14+56	8.6333	3.29	Q	Q
14+57	8.6306	3.28	Q	Q
14+58	8.6279	3.28	Q	Q
14+59	8.6253	3.28	Q	Q
15+ 0	8.6226	3.28	Q	Q
15+ 1	8.6199	3.28	Q	Q
15+ 2	8.6173	3.28	Q	Q
15+ 3	8.6146	3.28	Q	Q
15+ 4	8.6119	3.27	Q	Q
15+ 5	8.6093	3.27	Q	Q
15+ 6	8.6066	3.27	Q	Q
15+ 7	8.6039	3.27	Q	Q
15+ 8	8.6013	3.27	Q	Q
15+ 9	8.5986	3.27	Q	Q
15+10	8.5959	3.27	Q	Q
15+11	8.5933	3.27	Q	Q
15+12	8.5906	3.26	Q	Q
15+13	8.5880	3.26	Q	Q
15+14	8.5853	3.26	Q	Q
15+15	8.5827	3.26	Q	Q
15+16	8.5800	3.26	Q	Q
15+17	8.5773	3.26	Q	Q
15+18	8.5747	3.26	Q	Q
15+19	8.5720	3.25	Q	Q
15+20	8.5694	3.25	Q	Q
15+21	8.5667	3.25	Q	Q
15+22	8.5641	3.25	Q	Q
15+23	8.5614	3.25	Q	Q
15+24	8.5588	3.25	Q	Q
15+25	8.5561	3.25	Q	Q
15+26	8.5535	3.24	Q	Q
15+27	8.5508	3.24	Q	Q
15+28	8.5482	3.24	Q	Q
15+29	8.5455	3.24	Q	Q
15+30	8.5429	3.24	Q	Q
15+31	8.5403	3.24	Q	Q
15+32	8.5376	3.24	Q	Q
15+33	8.5350	3.24	Q	Q
15+34	8.5323	3.23	Q	Q
15+35	8.5297	3.23	Q	Q
15+36	8.5270	3.23	Q	Q
15+37	8.5244	3.23	Q	Q
15+38	8.5218	3.23	Q	Q
15+39	8.5191	3.23	Q	Q
15+40	8.5165	3.23	Q	Q
15+41	8.5139	3.22	Q	Q
15+42	8.5112	3.22	Q	Q
15+43	8.5086	3.22	Q	Q
15+44	8.5060	3.22	Q	Q
15+45	8.5033	3.22	Q	Q
15+46	8.5007	3.22	Q	Q
15+47	8.4981	3.22	Q	Q
15+48	8.4954	3.22	Q	Q
15+49	8.4928	3.21	Q	Q
15+50	8.4902	3.21	Q	Q
15+51	8.4875	3.21	Q	Q
15+52	8.4849	3.21	Q	Q
15+53	8.4823	3.21	Q	Q
15+54	8.4797	3.21	Q	Q
15+55	8.4770	3.21	Q	Q
15+56	8.4744	3.20	Q	Q
15+57	8.4718	3.20	Q	Q
15+58	8.4692	3.20	Q	Q
15+59	8.4666	3.20	Q	Q
16+ 0	8.4639	3.20	Q	Q
16+ 1	8.4613	3.20	Q	Q
16+ 2	8.4587	3.20	Q	Q
16+ 3	8.4561	3.20	Q	Q

16+ 4	8.4535	3.19	Q	Q
16+ 5	8.4508	3.19	Q	Q
16+ 6	8.4482	3.19	Q	Q
16+ 7	8.4456	3.19	Q	Q
16+ 8	8.4430	3.19	Q	Q
16+ 9	8.4404	3.19	Q	Q
16+10	8.4378	3.19	Q	Q
16+11	8.4352	3.19	Q	Q
16+12	8.4326	3.18	Q	Q
16+13	8.4299	3.18	Q	Q
16+14	8.4273	3.18	Q	Q
16+15	8.4247	3.18	Q	Q
16+16	8.4221	3.18	Q	Q
16+17	8.4195	3.18	Q	Q
16+18	8.4169	3.18	Q	Q
16+19	8.4143	3.17	Q	Q
16+20	8.4117	3.17	Q	Q
16+21	8.4091	3.17	Q	Q
16+22	8.4065	3.17	Q	Q
16+23	8.4039	3.17	Q	Q
16+24	8.4013	3.17	Q	Q
16+25	8.3987	3.17	Q	Q
16+26	8.3961	3.17	Q	Q
16+27	8.3935	3.16	Q	Q
16+28	8.3909	3.16	Q	Q
16+29	8.3883	3.16	Q	Q
16+30	8.3857	3.16	Q	Q
16+31	8.3831	3.16	Q	Q
16+32	8.3805	3.16	Q	Q
16+33	8.3779	3.16	Q	Q
16+34	8.3753	3.16	Q	Q
16+35	8.3727	3.15	Q	Q
16+36	8.3701	3.15	Q	Q
16+37	8.3676	3.15	Q	Q
16+38	8.3650	3.15	Q	Q
16+39	8.3624	3.15	Q	Q
16+40	8.3598	3.15	Q	Q
16+41	8.3572	3.15	Q	Q
16+42	8.3546	3.14	Q	Q
16+43	8.3520	3.14	Q	Q
16+44	8.3494	3.14	Q	Q
16+45	8.3469	3.14	Q	Q
16+46	8.3443	3.14	Q	Q
16+47	8.3417	3.14	Q	Q
16+48	8.3397	3.14	Q	Q
16+49	8.3382	3.14	Q	Q
16+50	8.3368	3.13	Q	Q
16+51	8.3354	3.13	Q	Q
16+52	8.3341	3.13	Q	Q
16+53	8.3327	3.13	Q	Q
16+54	8.3313	3.13	Q	Q
16+55	8.3300	3.13	Q	Q
16+56	8.3286	3.13	Q	Q
16+57	8.3272	3.13	Q	Q
16+58	8.3259	3.13	Q	Q
16+59	8.3245	3.13	Q	Q
17+ 0	8.3232	3.12	Q	Q
17+ 1	8.3218	3.12	Q	Q
17+ 2	8.3204	3.12	Q	Q
17+ 3	8.3191	3.12	Q	Q
17+ 4	8.3177	3.12	Q	Q
17+ 5	8.3163	3.12	Q	Q
17+ 6	8.3150	3.12	Q	Q
17+ 7	8.3136	3.12	Q	Q
17+ 8	8.3122	3.12	Q	Q
17+ 9	8.3109	3.12	Q	Q
17+10	8.3095	3.11	Q	Q
17+11	8.3082	3.11	Q	Q
17+12	8.3068	3.11	Q	Q
17+13	8.3054	3.11	Q	Q
17+14	8.3041	3.11	Q	Q

17+15	8.3027	3.11	Q	Q
17+16	8.3013	3.11	Q	Q
17+17	8.3000	3.11	Q	Q
17+18	8.2986	3.11	Q	Q
17+19	8.2973	3.11	Q	Q
17+20	8.2959	3.10	Q	Q
17+21	8.2945	3.10	Q	Q
17+22	8.2932	3.10	Q	Q
17+23	8.2918	3.10	Q	Q
17+24	8.2905	3.10	Q	Q
17+25	8.2891	3.10	Q	Q
17+26	8.2877	3.10	Q	Q
17+27	8.2864	3.10	Q	Q
17+28	8.2850	3.10	Q	Q
17+29	8.2837	3.10	Q	Q
17+30	8.2823	3.09	Q	Q
17+31	8.2810	3.09	Q	Q
17+32	8.2796	3.09	Q	Q
17+33	8.2782	3.09	Q	Q
17+34	8.2769	3.09	Q	Q
17+35	8.2755	3.09	Q	Q
17+36	8.2742	3.09	Q	Q
17+37	8.2728	3.09	Q	Q
17+38	8.2715	3.09	Q	Q
17+39	8.2701	3.08	Q	Q
17+40	8.2687	3.08	Q	Q
17+41	8.2674	3.08	Q	Q
17+42	8.2660	3.08	Q	Q
17+43	8.2647	3.08	Q	Q
17+44	8.2633	3.08	Q	Q
17+45	8.2620	3.08	Q	Q
17+46	8.2606	3.08	Q	Q
17+47	8.2593	3.08	Q	Q
17+48	8.2579	3.07	Q	Q
17+49	8.2565	3.07	Q	Q
17+50	8.2552	3.07	Q	Q
17+51	8.2538	3.07	Q	Q
17+52	8.2525	3.07	Q	Q
17+53	8.2511	3.07	Q	Q
17+54	8.2498	3.07	Q	Q
17+55	8.2484	3.07	Q	Q
17+56	8.2471	3.06	Q	Q
17+57	8.2457	3.06	Q	Q
17+58	8.2444	3.06	Q	Q
17+59	8.2430	3.06	Q	Q
18+ 0	8.2417	3.06	Q	Q
18+ 1	8.2403	3.06	Q	Q
18+ 2	8.2390	3.06	Q	Q
18+ 3	8.2376	3.06	Q	Q
18+ 4	8.2363	3.06	Q	Q
18+ 5	8.2349	3.05	Q	Q
18+ 6	8.2336	3.05	Q	Q
18+ 7	8.2322	3.05	Q	Q
18+ 8	8.2309	3.05	Q	Q
18+ 9	8.2295	3.05	Q	Q
18+10	8.2282	3.05	Q	Q
18+11	8.2268	3.05	Q	Q
18+12	8.2255	3.05	Q	Q
18+13	8.2241	3.04	Q	Q
18+14	8.2228	3.04	Q	Q
18+15	8.2214	3.04	Q	Q
18+16	8.2201	3.04	Q	Q
18+17	8.2187	3.04	Q	Q
18+18	8.2174	3.04	Q	Q
18+19	8.2160	3.04	Q	Q
18+20	8.2147	3.04	Q	Q
18+21	8.2133	3.04	Q	Q
18+22	8.2120	3.03	Q	Q
18+23	8.2106	3.03	Q	Q
18+24	8.2093	3.03	Q	Q
18+25	8.2079	3.03	Q	Q

18+26	8.2066	3.03	α	Q
18+27	8.2053	3.03	α	Q
18+28	8.2039	3.03	α	Q
18+29	8.2026	3.03	α	Q
18+30	8.2012	3.03	α	Q
18+31	8.1999	3.02	α	Q
18+32	8.1985	3.02	α	Q
18+33	8.1972	3.02	α	Q
18+34	8.1958	3.02	α	Q
18+35	8.1945	3.02	α	Q
18+36	8.1932	3.02	α	Q
18+37	8.1918	3.02	α	Q
18+38	8.1905	3.02	α	Q
18+39	8.1891	3.01	α	Q
18+40	8.1878	3.01	α	Q
18+41	8.1864	3.01	α	Q
18+42	8.1851	3.01	α	Q
18+43	8.1838	3.01	α	Q
18+44	8.1824	3.01	α	Q
18+45	8.1811	3.01	α	Q
18+46	8.1797	3.01	α	Q
18+47	8.1784	3.01	α	Q
18+48	8.1771	3.00	α	Q
18+49	8.1757	3.00	α	Q
18+50	8.1744	3.00	α	Q
18+51	8.1730	3.00	α	Q
18+52	8.1717	3.00	α	Q
18+53	8.1703	3.00	α	Q
18+54	8.1690	3.00	α	Q
18+55	8.1677	3.00	α	Q
18+56	8.1663	3.00	α	Q
18+57	8.1650	2.99	α	Q
18+58	8.1637	2.99	α	Q
18+59	8.1623	2.99	α	Q
19+ 0	8.1610	2.99	α	Q
19+ 1	8.1596	2.99	α	Q
19+ 2	8.1583	2.99	α	Q
19+ 3	8.1570	2.99	α	Q
19+ 4	8.1556	2.99	α	Q
19+ 5	8.1543	2.99	α	Q
19+ 6	8.1530	2.98	α	Q
19+ 7	8.1516	2.98	α	Q
19+ 8	8.1503	2.98	α	Q
19+ 9	8.1489	2.98	α	Q
19+10	8.1476	2.98	α	Q
19+11	8.1463	2.98	α	Q
19+12	8.1449	2.98	α	Q
19+13	8.1436	2.98	α	Q
19+14	8.1423	2.98	α	Q
19+15	8.1409	2.97	α	Q
19+16	8.1396	2.97	α	Q
19+17	8.1383	2.97	α	Q
19+18	8.1369	2.97	α	Q
19+19	8.1356	2.97	α	Q
19+20	8.1343	2.97	α	Q
19+21	8.1329	2.97	α	Q
19+22	8.1316	2.97	α	Q
19+23	8.1303	2.96	α	Q
19+24	8.1289	2.96	α	Q
19+25	8.1276	2.96	α	Q
19+26	8.1263	2.96	α	Q
19+27	8.1249	2.96	α	Q
19+28	8.1236	2.96	α	Q
19+29	8.1223	2.96	α	Q
19+30	8.1209	2.96	α	Q
19+31	8.1196	2.96	α	Q
19+32	8.1183	2.95	α	Q
19+33	8.1169	2.95	α	Q
19+34	8.1156	2.95	α	Q
19+35	8.1143	2.95	α	Q
19+36	8.1129	2.95	α	Q

19+37	8.1116	2.95	Q	Q
19+38	8.1103	2.95	Q	Q
19+39	8.1090	2.94	Q	Q
19+40	8.1076	2.94	Q	Q
19+41	8.1063	2.94	Q	Q
19+42	8.1050	2.94	Q	Q
19+43	8.1036	2.94	Q	Q
19+44	8.1023	2.93	Q	Q
19+45	8.1010	2.93	Q	Q
19+46	8.0996	2.93	Q	Q
19+47	8.0983	2.93	Q	Q
19+48	8.0970	2.93	Q	Q
19+49	8.0957	2.92	Q	Q
19+50	8.0943	2.92	Q	Q
19+51	8.0930	2.92	Q	Q
19+52	8.0917	2.92	Q	Q
19+53	8.0904	2.92	Q	Q
19+54	8.0890	2.91	Q	Q
19+55	8.0877	2.91	Q	Q
19+56	8.0864	2.91	Q	Q
19+57	8.0851	2.91	Q	Q
19+58	8.0837	2.91	Q	Q
19+59	8.0824	2.90	Q	Q
20+ 0	8.0811	2.90	Q	Q
20+ 1	8.0798	2.90	Q	Q
20+ 2	8.0784	2.90	Q	Q
20+ 3	8.0771	2.90	Q	Q
20+ 4	8.0758	2.89	Q	Q
20+ 5	8.0745	2.89	Q	Q
20+ 6	8.0731	2.89	Q	Q
20+ 7	8.0718	2.89	Q	Q
20+ 8	8.0705	2.89	Q	Q
20+ 9	8.0692	2.88	Q	Q
20+10	8.0678	2.88	Q	Q
20+11	8.0665	2.88	Q	Q
20+12	8.0652	2.88	Q	Q
20+13	8.0639	2.88	Q	Q
20+14	8.0625	2.87	Q	Q
20+15	8.0612	2.87	Q	Q
20+16	8.0599	2.87	Q	Q
20+17	8.0586	2.87	Q	Q
20+18	8.0573	2.87	Q	Q
20+19	8.0559	2.87	Q	Q
20+20	8.0546	2.86	Q	Q
20+21	8.0533	2.86	Q	Q
20+22	8.0520	2.86	Q	Q
20+23	8.0507	2.86	Q	Q
20+24	8.0493	2.86	Q	Q
20+25	8.0480	2.85	Q	Q
20+26	8.0467	2.85	Q	Q
20+27	8.0454	2.85	Q	Q
20+28	8.0441	2.85	Q	Q
20+29	8.0427	2.85	Q	Q
20+30	8.0414	2.84	Q	Q
20+31	8.0401	2.84	Q	Q
20+32	8.0388	2.84	Q	Q
20+33	8.0375	2.84	Q	Q
20+34	8.0361	2.84	Q	Q
20+35	8.0348	2.83	Q	Q
20+36	8.0335	2.83	Q	Q
20+37	8.0322	2.83	Q	Q
20+38	8.0309	2.83	Q	Q
20+39	8.0296	2.83	Q	Q
20+40	8.0282	2.83	Q	Q
20+41	8.0269	2.82	Q	Q
20+42	8.0256	2.82	Q	Q
20+43	8.0243	2.82	Q	Q
20+44	8.0230	2.82	Q	Q
20+45	8.0217	2.82	Q	Q
20+46	8.0204	2.81	Q	Q
20+47	8.0190	2.81	Q	Q

20+48	8.0177	2.81	α	Q
20+49	8.0164	2.81	α	Q
20+50	8.0151	2.81	α	Q
20+51	8.0138	2.80	α	Q
20+52	8.0125	2.80	α	Q
20+53	8.0111	2.80	α	Q
20+54	8.0098	2.80	α	Q
20+55	8.0085	2.80	α	Q
20+56	8.0072	2.80	α	Q
20+57	8.0059	2.79	α	Q
20+58	8.0046	2.79	α	Q
20+59	8.0033	2.79	α	Q
21+ 0	8.0020	2.79	α	Q
21+ 1	8.0006	2.79	α	Q
21+ 2	7.9993	2.78	α	Q
21+ 3	7.9980	2.78	α	Q
21+ 4	7.9967	2.78	α	Q
21+ 5	7.9954	2.78	α	Q
21+ 6	7.9941	2.78	α	Q
21+ 7	7.9928	2.78	α	Q
21+ 8	7.9915	2.77	α	Q
21+ 9	7.9902	2.77	α	Q
21+10	7.9888	2.77	α	Q
21+11	7.9875	2.77	α	Q
21+12	7.9862	2.77	α	Q
21+13	7.9849	2.76	α	Q
21+14	7.9836	2.76	α	Q
21+15	7.9823	2.76	α	Q
21+16	7.9810	2.76	α	Q
21+17	7.9797	2.76	α	Q
21+18	7.9784	2.76	α	Q
21+19	7.9771	2.75	α	Q
21+20	7.9758	2.75	α	Q
21+21	7.9745	2.75	α	Q
21+22	7.9731	2.75	α	Q
21+23	7.9718	2.75	α	Q
21+24	7.9705	2.75	α	Q
21+25	7.9692	2.74	α	Q
21+26	7.9679	2.74	α	Q
21+27	7.9666	2.74	α	Q
21+28	7.9653	2.74	α	Q
21+29	7.9640	2.74	α	Q
21+30	7.9627	2.73	α	Q
21+31	7.9614	2.73	α	Q
21+32	7.9601	2.73	α	Q
21+33	7.9588	2.73	α	Q
21+34	7.9575	2.73	α	Q
21+35	7.9562	2.73	α	Q
21+36	7.9549	2.72	α	Q
21+37	7.9536	2.72	α	Q
21+38	7.9523	2.72	α	Q
21+39	7.9509	2.72	α	Q
21+40	7.9496	2.72	α	Q
21+41	7.9483	2.72	α	Q
21+42	7.9470	2.71	α	Q
21+43	7.9457	2.71	α	Q
21+44	7.9444	2.71	α	Q
21+45	7.9431	2.70	α	Q
21+46	7.9418	2.70	α	Q
21+47	7.9405	2.70	α	Q
21+48	7.9392	2.69	α	Q
21+49	7.9379	2.69	α	Q
21+50	7.9366	2.69	α	Q
21+51	7.9353	2.69	α	Q
21+52	7.9340	2.68	α	Q
21+53	7.9327	2.68	α	Q
21+54	7.9314	2.68	α	Q
21+55	7.9301	2.67	α	Q
21+56	7.9288	2.67	α	Q
21+57	7.9275	2.67	α	Q
21+58	7.9262	2.67	α	Q

21+59	7.9249	2.66	α	Q				
22+ 0	7.9236	2.66	α	Q				
22+ 1	7.9223	2.66	α	Q				
22+ 2	7.9210	2.65	α	Q				
22+ 3	7.9197	2.65	α	Q				
22+ 4	7.9184	2.65	α	Q				
22+ 5	7.9171	2.64	α	Q				
22+ 6	7.9158	2.64	α	Q				
22+ 7	7.9145	2.64	α	Q				
22+ 8	7.9132	2.64	α	Q				
22+ 9	7.9119	2.63	α	Q				
22+10	7.9106	2.63	α	Q				
22+11	7.9093	2.63	α	Q				
22+12	7.9080	2.63	α	Q				
22+13	7.9067	2.62	α	Q				
22+14	7.9054	2.62	α	Q				
22+15	7.9042	2.62	α	Q				
22+16	7.9029	2.61	α	Q				
22+17	7.9016	2.61	α	Q				
22+18	7.9003	2.61	α	Q				
22+19	7.8990	2.61	α	Q				
22+20	7.8977	2.60	α	Q				
22+21	7.8964	2.60	α	Q				
22+22	7.8951	2.60	α	Q				
22+23	7.8938	2.59	α	Q				
22+24	7.8925	2.59	α	Q				
22+25	7.8912	2.59	α	Q				
22+26	7.8899	2.59	α	Q				
22+27	7.8886	2.58	α	Q				
22+28	7.8873	2.58	α	Q				
22+29	7.8860	2.58	α	Q				
22+30	7.8847	2.58	α	Q				
22+31	7.8834	2.57	α	Q				
22+32	7.8821	2.57	α	Q				
22+33	7.8809	2.57	α	Q				
22+34	7.8796	2.56	α	Q				
22+35	7.8783	2.56	α	Q				
22+36	7.8770	2.56	α	Q				
22+37	7.8756	2.56	α	Q				
22+38	7.8743	2.55	α	Q				
22+39	7.8729	2.55	α	Q				
22+40	7.8716	2.55	α	Q				
22+41	7.8702	2.55	α	Q				
22+42	7.8689	2.54	α	Q				
22+43	7.8675	2.54	α	Q				
22+44	7.8662	2.54	α	Q				
22+45	7.8648	2.54	α	Q				
22+46	7.8634	2.53	α	Q				
22+47	7.8621	2.53	α	Q				
22+48	7.8607	2.53	α	Q				
22+49	7.8594	2.53	α	Q				
22+50	7.8580	2.52	α	Q				
22+51	7.8567	2.52	α	Q				
22+52	7.8553	2.52	α	Q				
22+53	7.8540	2.52	α	Q				
22+54	7.8526	2.51	α	Q				
22+55	7.8513	2.51	α	Q				
22+56	7.8499	2.51	α	Q				
22+57	7.8486	2.51	α	Q				
22+58	7.8472	2.50	α	Q				
22+59	7.8459	2.50	α	Q				
23+ 0	7.8445	2.50	α	Q				
23+ 1	7.8432	2.50	α	Q				
23+ 2	7.8418	2.49	α	Q				
23+ 3	7.8405	2.49	α	Q				
23+ 4	7.8391	2.48	α	Q				
23+ 5	7.8378	2.48	α	Q				
23+ 6	7.8364	2.47	α	Q				
23+ 7	7.8351	2.47	α	Q				
23+ 8	7.8337	2.46	α	Q				
23+ 9	7.8324	2.46	α	Q				

23+10	7.8310	2.45	α	IQ				
23+11	7.8297	2.45	α	IQ				
23+12	7.8283	2.44	α	IQ				
23+13	7.8270	2.44	α	IQ				
23+14	7.8256	2.44	α	IQ				
23+15	7.8243	2.43	α	IQ				
23+16	7.8229	2.43	α	IQ				
23+17	7.8216	2.42	α	IQ				
23+18	7.8202	2.42	α	IQ				
23+19	7.8189	2.41	α	IQ				
23+20	7.8175	2.41	α	IQ				
23+21	7.8162	2.40	α	IQ				
23+22	7.8149	2.40	α	IQ				
23+23	7.8135	2.39	α	IQ				
23+24	7.8122	2.39	α	IQ				
23+25	7.8108	2.39	α	IQ				
23+26	7.8095	2.38	α	IQ				
23+27	7.8081	2.38	α	IQ				
23+28	7.8068	2.37	α	Q				
23+29	7.8054	2.37	α	Q				
23+30	7.8041	2.36	α	Q				
23+31	7.8028	2.36	α	Q				
23+32	7.8014	2.36	α	Q				
23+33	7.8001	2.35	α	Q				
23+34	7.7987	2.35	α	Q				
23+35	7.7974	2.34	α	Q				
23+36	7.7960	2.34	α	Q				
23+37	7.7947	2.34	α	Q				
23+38	7.7934	2.33	α	Q				
23+39	7.7920	2.33	α	Q				
23+40	7.7907	2.32	α	Q				
23+41	7.7893	2.32	α	Q				
23+42	7.7880	2.32	α	Q				
23+43	7.7866	2.31	α	Q				
23+44	7.7853	2.31	α	Q				
23+45	7.7840	2.30	α	Q				
23+46	7.7826	2.30	α	Q				
23+47	7.7813	2.30	α	Q				
23+48	7.7799	2.29	α	Q				
23+49	7.7786	2.29	α	Q				
23+50	7.7773	2.28	α	Q				
23+51	7.7759	2.28	α	Q				
23+52	7.7746	2.28	α	Q				
23+53	7.7733	2.27	α	Q				
23+54	7.7719	2.27	α	Q				
23+55	7.7706	2.27	α	Q				
23+56	7.7692	2.26	α	Q				
23+57	7.7679	2.26	α	Q				
23+58	7.7666	2.25	α	Q				
23+59	7.7652	2.25	α	Q				
24+ 0	7.7639	2.25	α	Q				
24+ 1	7.7626	2.24	α	Q				
24+ 2	7.7612	2.24	α	Q				
24+ 3	7.7599	2.24	α	Q				
24+ 4	7.7585	2.23	α	Q				
24+ 5	7.7572	2.23	α	Q				
24+ 6	7.7559	2.23	α	Q				
24+ 7	7.7545	2.22	α	Q				
24+ 8	7.7532	2.22	α	Q				
24+ 9	7.7519	2.22	α	Q				
24+10	7.7505	2.21	α	Q				
24+11	7.7492	2.21	α	Q				
24+12	7.7479	2.21	α	Q				
24+13	7.7465	2.20	α	Q				
24+14	7.7452	2.20	α	Q				
24+15	7.7439	2.20	α	Q				
24+16	7.7425	2.19	α	Q				
24+17	7.7412	2.19	α	Q				
24+18	7.7399	2.19	α	Q				
24+19	7.7385	2.18	α	Q				
24+20	7.7372	2.18	α	Q				

24+21	7.7359	2.18	q	Q				
24+22	7.7345	2.17	q	Q				
24+23	7.7332	2.17	q	Q				
24+24	7.7319	2.17	q	Q				
24+25	7.7305	2.16	q	Q				
24+26	7.7292	2.16	q	Q				
24+27	7.7279	2.16	q	Q				
24+28	7.7266	2.15	q	Q				
24+29	7.7252	2.15	q	Q				
24+30	7.7239	2.15	q	Q				
24+31	7.7226	2.14	q	Q				
24+32	7.7212	2.14	q	Q				
24+33	7.7199	2.14	q	Q				
24+34	7.7186	2.14	q	Q				
24+35	7.7172	2.13	q	Q				
24+36	7.7159	2.13	q	Q				
24+37	7.7146	2.13	q	Q				
24+38	7.7133	2.12	q	Q				
24+39	7.7119	2.12	q	Q				
24+40	7.7106	2.12	q	Q				
24+41	7.7093	2.11	q	Q				
24+42	7.7079	2.11	q	Q				
24+43	7.7066	2.11	q	Q				
24+44	7.7053	2.11	q	Q				
24+45	7.7040	2.10	q	Q				
24+46	7.7026	2.10	q	Q				
24+47	7.7013	2.10	q	Q				
24+48	7.7000	2.09	q	Q				
24+49	7.6987	2.09	q	Q				
24+50	7.6973	2.09	q	Q				
24+51	7.6960	2.09	q	Q				
24+52	7.6947	2.08	q	Q				
24+53	7.6934	2.08	q	Q				
24+54	7.6920	2.08	q	Q				
24+55	7.6907	2.08	q	Q				
24+56	7.6894	2.07	q	Q				
24+57	7.6881	2.07	q	Q				
24+58	7.6867	2.07	q	Q				
24+59	7.6854	2.06	q	Q				
25+ 0	7.6841	2.06	q	Q				
25+ 1	7.6828	2.06	q	Q				
25+ 2	7.6815	2.06	q	Q				
25+ 3	7.6801	2.05	q	Q				
25+ 4	7.6788	2.05	q	Q				
25+ 5	7.6775	2.05	q	Q				
25+ 6	7.6762	2.05	q	Q				
25+ 7	7.6748	2.04	q	Q				
25+ 8	7.6735	2.04	q	Q				
25+ 9	7.6722	2.04	q	Q				
25+10	7.6709	2.04	q	Q				
25+11	7.6696	2.03	q	Q				
25+12	7.6682	2.03	q	Q				
25+13	7.6669	2.03	q	Q				
25+14	7.6656	2.03	q	Q				
25+15	7.6643	2.02	q	Q				
25+16	7.6630	2.02	q	Q				
25+17	7.6616	2.02	q	Q				
25+18	7.6603	2.02	q	Q				
25+19	7.6590	2.01	q	Q				
25+20	7.6577	2.01	q	Q				
25+21	7.6564	2.01	q	Q				
25+22	7.6550	2.01	q	Q				
25+23	7.6537	2.01	q	Q				
25+24	7.6524	2.00	q	Q				
25+25	7.6511	2.00	q	Q				
25+26	7.6498	2.00	q	Q				
25+27	7.6485	2.00	q	Q				
25+28	7.6471	1.99	q	Q				
25+29	7.6458	1.99	q	Q				
25+30	7.6445	1.99	q	Q				
25+31	7.6432	1.99	q	Q				

25+32	7.6419	1.98	q Q						
25+33	7.6406	1.98	q Q						
25+34	7.6392	1.98	q Q						
25+35	7.6379	1.98	q Q						
25+36	7.6366	1.98	q Q						
25+37	7.6353	1.97	q Q						
25+38	7.6340	1.97	q Q						
25+39	7.6327	1.97	q Q						
25+40	7.6314	1.97	q Q						
25+41	7.6300	1.97	q Q						
25+42	7.6287	1.96	q Q						
25+43	7.6274	1.96	q Q						
25+44	7.6261	1.96	q Q						
25+45	7.6248	1.96	q Q						
25+46	7.6235	1.95	q Q						
25+47	7.6222	1.95	q Q						
25+48	7.6209	1.95	q Q						
25+49	7.6195	1.95	q Q						
25+50	7.6182	1.95	q Q						
25+51	7.6169	1.94	q Q						
25+52	7.6156	1.94	qQ						
25+53	7.6143	1.94	qQ						
25+54	7.6130	1.94	qQ						
25+55	7.6117	1.94	qQ						
25+56	7.6104	1.93	qQ						
25+57	7.6091	1.93	qQ						
25+58	7.6077	1.93	qQ						
25+59	7.6064	1.93	qQ						
26+ 0	7.6051	1.93	qQ						
26+ 1	7.6038	1.92	qQ						
26+ 2	7.6025	1.92	qQ						
26+ 3	7.6012	1.92	qQ						
26+ 4	7.5999	1.92	qQ						
26+ 5	7.5986	1.92	qQ						
26+ 6	7.5973	1.92	qQ						
26+ 7	7.5960	1.91	qQ						
26+ 8	7.5947	1.91	qQ						
26+ 9	7.5933	1.91	qQ						
26+10	7.5920	1.91	qQ						
26+11	7.5907	1.91	qQ						
26+12	7.5894	1.90	qQ						
26+13	7.5881	1.90	qQ						
26+14	7.5868	1.90	qQ						
26+15	7.5855	1.90	qQ						
26+16	7.5842	1.90	qQ						
26+17	7.5829	1.89	qQ						
26+18	7.5816	1.89	qQ						
26+19	7.5803	1.89	qQ						
26+20	7.5790	1.89	qQ						
26+21	7.5777	1.89	qQ						
26+22	7.5764	1.89	qQ						
26+23	7.5751	1.88	qQ						
26+24	7.5738	1.88	qQ						
26+25	7.5725	1.88	qQ						
26+26	7.5712	1.88	qQ						
26+27	7.5699	1.88	qQ						
26+28	7.5686	1.88	qQ						
26+29	7.5672	1.87	qQ						
26+30	7.5659	1.87	qQ						
26+31	7.5646	1.87	qQ						
26+32	7.5633	1.87	qQ						
26+33	7.5620	1.87	qQ						
26+34	7.5607	1.87	qQ						
26+35	7.5594	1.86	qQ						
26+36	7.5581	1.86	qQ						
26+37	7.5568	1.86	qQ						
26+38	7.5555	1.86	qQ						
26+39	7.5542	1.86	qQ						
26+40	7.5529	1.86	qQ						
26+41	7.5516	1.85	qQ						
26+42	7.5503	1.85	qQ						

26+43	7.5490	1.85	qQ				
26+44	7.5477	1.85	qQ				
26+45	7.5464	1.85	qQ				
26+46	7.5451	1.85	qQ				
26+47	7.5438	1.85	qQ				
26+48	7.5425	1.84	qQ				
26+49	7.5412	1.84	qQ				
26+50	7.5399	1.84	qQ				
26+51	7.5386	1.84	qQ				
26+52	7.5373	1.84	qQ				
26+53	7.5360	1.84	qQ				
26+54	7.5347	1.83	qQ				
26+55	7.5334	1.83	qQ				
26+56	7.5322	1.83	qQ				
26+57	7.5309	1.83	qQ				
26+58	7.5296	1.83	qQ				
26+59	7.5283	1.83	qQ				
27+ 0	7.5270	1.83	qQ				
27+ 1	7.5257	1.82	qQ				
27+ 2	7.5244	1.82	qQ				
27+ 3	7.5231	1.82	qQ				
27+ 4	7.5218	1.82	qQ				
27+ 5	7.5205	1.82	qQ				
27+ 6	7.5192	1.82	qQ				
27+ 7	7.5179	1.82	qQ				
27+ 8	7.5166	1.81	qQ				
27+ 9	7.5153	1.81	qQ				
27+10	7.5140	1.81	qQ				
27+11	7.5127	1.81	qQ				
27+12	7.5114	1.81	qQ				
27+13	7.5101	1.81	qQ				
27+14	7.5088	1.81	qQ				
27+15	7.5076	1.80	qQ				
27+16	7.5063	1.80	qQ				
27+17	7.5050	1.80	qQ				
27+18	7.5037	1.80	qQ				
27+19	7.5024	1.80	qQ				
27+20	7.5011	1.80	qQ				
27+21	7.4998	1.80	qQ				
27+22	7.4985	1.80	qQ				
27+23	7.4972	1.79	qQ				
27+24	7.4959	1.79	qQ				
27+25	7.4946	1.79	qQ				
27+26	7.4933	1.79	qQ				
27+27	7.4921	1.79	qQ				
27+28	7.4908	1.79	qQ				
27+29	7.4895	1.79	qQ				
27+30	7.4882	1.79	qQ				
27+31	7.4869	1.78	qQ				
27+32	7.4856	1.78	qQ				
27+33	7.4843	1.78	qQ				
27+34	7.4830	1.78	qQ				
27+35	7.4817	1.78	qQ				
27+36	7.4805	1.78	qQ				
27+37	7.4792	1.78	qQ				
27+38	7.4779	1.78	qQ				
27+39	7.4766	1.77	qQ				
27+40	7.4753	1.77	qQ				
27+41	7.4740	1.77	qQ				
27+42	7.4727	1.77	qQ				
27+43	7.4714	1.77	qQ				
27+44	7.4702	1.77	qQ				
27+45	7.4689	1.77	qQ				
27+46	7.4676	1.77	qQ				
27+47	7.4663	1.76	qQ				
27+48	7.4650	1.76	qQ				
27+49	7.4637	1.76	qQ				
27+50	7.4624	1.76	qQ				
27+51	7.4612	1.76	qQ				
27+52	7.4599	1.76	qQ				
27+53	7.4586	1.76	qQ				

27+54	7.4573	1.76	qQ				
27+55	7.4560	1.76	qQ				
27+56	7.4547	1.75	qQ				
27+57	7.4535	1.75	qQ				
27+58	7.4522	1.75	qQ				
27+59	7.4509	1.75	qQ				
28+ 0	7.4496	1.75	qQ				
28+ 1	7.4483	1.75	qQ				
28+ 2	7.4470	1.75	qQ				
28+ 3	7.4458	1.75	qQ				
28+ 4	7.4445	1.75	qQ				
28+ 5	7.4432	1.74	qQ				
28+ 6	7.4419	1.74	qQ				
28+ 7	7.4406	1.74	qQ				
28+ 8	7.4394	1.74	qQ				
28+ 9	7.4381	1.74	qQ				
28+10	7.4368	1.74	qQ				
28+11	7.4355	1.74	qQ				
28+12	7.4342	1.74	qQ				
28+13	7.4330	1.74	qQ				
28+14	7.4317	1.73	qQ				
28+15	7.4304	1.73	qQ				
28+16	7.4291	1.73	qQ				
28+17	7.4278	1.73	qQ				
28+18	7.4266	1.73	qQ				
28+19	7.4253	1.73	qQ				
28+20	7.4240	1.73	qQ				
28+21	7.4227	1.73	qQ				
28+22	7.4214	1.73	qQ				
28+23	7.4202	1.73	Q				
28+24	7.4189	1.72	Q				
28+25	7.4176	1.72	Q				
28+26	7.4163	1.72	Q				
28+27	7.4151	1.72	Q				
28+28	7.4137	1.72	Q				
28+29	7.4114	1.72	Q				
28+30	7.4088	1.72	Q				
28+31	7.4061	1.72	Q				
28+32	7.4034	1.72	Q				
28+33	7.4006	1.71	Q				
28+34	7.3979	1.71	Q				
28+35	7.3952	1.71	Q				
28+36	7.3925	1.71	Q				
28+37	7.3898	1.71	Q				
28+38	7.3871	1.71	Q				
28+39	7.3844	1.71	Q				
28+40	7.3816	1.71	Q				
28+41	7.3789	1.70	Q				
28+42	7.3762	1.70	Q				
28+43	7.3735	1.70	Q				
28+44	7.3708	1.70	Q				
28+45	7.3681	1.70	Q				
28+46	7.3654	1.70	Q				
28+47	7.3627	1.70	Q				
28+48	7.3600	1.70	Q				
28+49	7.3573	1.69	Q				
28+50	7.3546	1.69	Q				
28+51	7.3519	1.69	Q				
28+52	7.3492	1.69	Q				
28+53	7.3465	1.69	Q				
28+54	7.3438	1.69	Q				
28+55	7.3411	1.69	Q				
28+56	7.3384	1.69	Q				
28+57	7.3357	1.69	Q				
28+58	7.3330	1.68	Q				
28+59	7.3303	1.68	Q				
29+ 0	7.3276	1.68	Q				
29+ 1	7.3249	1.68	Q				
29+ 2	7.3222	1.68	Q				
29+ 3	7.3195	1.68	Q				
29+ 4	7.3169	1.68	Q				

29+ 5	7.3142	1.68		Q					
29+ 6	7.3115	1.67		Q					
29+ 7	7.3088	1.67		Q					
29+ 8	7.3061	1.67		Q					
29+ 9	7.3034	1.67		Q					
29+10	7.3008	1.67		Q					
29+11	7.2981	1.67		Q					
29+12	7.2954	1.67		Q					
29+13	7.2927	1.67		Q					
29+14	7.2900	1.67		Q					
29+15	7.2874	1.66		Q					
29+16	7.2847	1.66		Q					
29+17	7.2820	1.66		Q					
29+18	7.2793	1.66		Q					
29+19	7.2767	1.66		Q					
29+20	7.2740	1.66		Q					
29+21	7.2713	1.66		Q					
29+22	7.2686	1.66		Q					
29+23	7.2660	1.66		Q					
29+24	7.2633	1.65		Q					
29+25	7.2606	1.65		Q					
29+26	7.2580	1.65		Q					
29+27	7.2553	1.65		Q					
29+28	7.2526	1.65		Q					
29+29	7.2500	1.65		Q					
29+30	7.2473	1.65		Q					
29+31	7.2447	1.65		Q					
29+32	7.2420	1.65		Q					
29+33	7.2393	1.65		Q					
29+34	7.2367	1.64		Q					
29+35	7.2340	1.64		Q					
29+36	7.2314	1.64		Q					
29+37	7.2287	1.64		Q					
29+38	7.2260	1.64		Q					
29+39	7.2234	1.64		Q					
29+40	7.2207	1.64		Q					
29+41	7.2181	1.64		Q					
29+42	7.2154	1.64		Q					
29+43	7.2128	1.63		Q					
29+44	7.2101	1.63		Q					
29+45	7.2075	1.63		Q					
29+46	7.2048	1.63		Q					
29+47	7.2022	1.63		Q					
29+48	7.1996	1.63		Q					
29+49	7.1969	1.63		Q					
29+50	7.1943	1.63		Q					
29+51	7.1916	1.63		Q					
29+52	7.1890	1.63		Q					
29+53	7.1863	1.62		Q					
29+54	7.1837	1.62		Q					
29+55	7.1811	1.62		Q					
29+56	7.1784	1.62		Q					
29+57	7.1758	1.62		Q					
29+58	7.1732	1.62		Q					
29+59	7.1705	1.62		Q					
30+ 0	7.1679	1.62		Q					
30+ 1	7.1653	1.62		Q					
30+ 2	7.1626	1.62		Q					
30+ 3	7.1600	1.61		Q					
30+ 4	7.1574	1.61		Q					
30+ 5	7.1547	1.61		Q					
30+ 6	7.1521	1.61		Q					
30+ 7	7.1495	1.61		Q					
30+ 8	7.1469	1.61		Q					
30+ 9	7.1442	1.61		Q					
30+10	7.1416	1.61		Q					
30+11	7.1390	1.61		Q					
30+12	7.1364	1.61		Q					
30+13	7.1337	1.61		Q					
30+14	7.1311	1.60		Q					
30+15	7.1285	1.60		Q					

30+16	7.1259	1.60	Q				
30+17	7.1233	1.60	Q				
30+18	7.1207	1.60	Q				
30+19	7.1180	1.60	Q				
30+20	7.1154	1.60	Q				
30+21	7.1128	1.60	Q				
30+22	7.1102	1.60	Q				
30+23	7.1076	1.60	Q				
30+24	7.1050	1.60	Q				
30+25	7.1024	1.59	Q				
30+26	7.0998	1.59	Q				
30+27	7.0972	1.59	Q				
30+28	7.0946	1.59	Q				
30+29	7.0919	1.59	Q				
30+30	7.0893	1.59	Q				
30+31	7.0867	1.59	Q				
30+32	7.0841	1.59	Q				
30+33	7.0815	1.59	Q				
30+34	7.0789	1.59	Q				
30+35	7.0763	1.59	Q				
30+36	7.0737	1.58	Q				
30+37	7.0711	1.58	Q				
30+38	7.0685	1.58	Q				
30+39	7.0659	1.58	Q				
30+40	7.0633	1.58	Q				
30+41	7.0608	1.58	Q				
30+42	7.0582	1.58	Q				
30+43	7.0556	1.58	Q				
30+44	7.0530	1.58	Q				
30+45	7.0504	1.58	Q				
30+46	7.0478	1.58	Q				
30+47	7.0452	1.57	Q				
30+48	7.0426	1.57	Q				
30+49	7.0400	1.57	Q				
30+50	7.0375	1.57	Q				
30+51	7.0349	1.57	Q				
30+52	7.0323	1.57	Q				
30+53	7.0297	1.57	Q				
30+54	7.0271	1.57	Q				
30+55	7.0245	1.57	Q				
30+56	7.0220	1.57	Q				
30+57	7.0194	1.57	Q				
30+58	7.0168	1.57	Q				
30+59	7.0142	1.56	Q				
31+ 0	7.0117	1.56	Q				
31+ 1	7.0091	1.56	Q				
31+ 2	7.0065	1.56	Q				
31+ 3	7.0039	1.56	Q				
31+ 4	7.0014	1.56	Q				
31+ 5	6.9988	1.56	qQ				
31+ 6	6.9962	1.56	qQ				
31+ 7	6.9936	1.56	qQ				
31+ 8	6.9911	1.56	qQ				
31+ 9	6.9885	1.56	qQ				
31+10	6.9859	1.55	qQ				
31+11	6.9834	1.55	qQ				
31+12	6.9808	1.55	qQ				
31+13	6.9782	1.55	qQ				
31+14	6.9757	1.55	qQ				
31+15	6.9731	1.55	qQ				
31+16	6.9706	1.55	qQ				
31+17	6.9680	1.55	qQ				
31+18	6.9654	1.55	qQ				
31+19	6.9629	1.55	qQ				
31+20	6.9603	1.55	qQ				
31+21	6.9578	1.55	qQ				
31+22	6.9552	1.55	qQ				
31+23	6.9527	1.54	qQ				
31+24	6.9501	1.54	qQ				
31+25	6.9476	1.54	qQ				
31+26	6.9450	1.54	qQ				

31+27	6.9425	1.54	qQ				
31+28	6.9399	1.54	qQ				
31+29	6.9374	1.54	qQ				
31+30	6.9348	1.54	qQ				
31+31	6.9323	1.54	qQ				
31+32	6.9297	1.54	qQ				
31+33	6.9272	1.54	qQ				
31+34	6.9246	1.54	qQ				
31+35	6.9221	1.53	qQ				
31+36	6.9195	1.53	qQ				
31+37	6.9170	1.53	qQ				
31+38	6.9145	1.53	qQ				
31+39	6.9119	1.53	qQ				
31+40	6.9094	1.53	qQ				
31+41	6.9068	1.53	qQ				
31+42	6.9043	1.53	qQ				
31+43	6.9018	1.53	qQ				
31+44	6.8992	1.53	qQ				
31+45	6.8967	1.53	qQ				
31+46	6.8942	1.53	qQ				
31+47	6.8916	1.53	qQ				
31+48	6.8891	1.52	qQ				
31+49	6.8866	1.52	qQ				
31+50	6.8841	1.52	qQ				
31+51	6.8815	1.52	qQ				
31+52	6.8790	1.52	qQ				
31+53	6.8765	1.52	qQ				
31+54	6.8739	1.52	qQ				
31+55	6.8714	1.52	qQ				
31+56	6.8689	1.52	qQ				
31+57	6.8664	1.52	qQ				
31+58	6.8639	1.52	qQ				
31+59	6.8613	1.52	qQ				
32+ 0	6.8588	1.52	qQ				
32+ 1	6.8563	1.51	qQ				
32+ 2	6.8538	1.51	qQ				
32+ 3	6.8513	1.51	qQ				
32+ 4	6.8487	1.51	qQ				
32+ 5	6.8462	1.51	qQ				
32+ 6	6.8437	1.51	qQ				
32+ 7	6.8412	1.51	Q				
32+ 8	6.8387	1.51	Q				
32+ 9	6.8362	1.51	Q				
32+10	6.8337	1.51	Q				
32+11	6.8312	1.51	Q				
32+12	6.8286	1.51	Q				
32+13	6.8261	1.51	Q				
32+14	6.8236	1.51	Q				
32+15	6.8211	1.50	Q				
32+16	6.8186	1.50	Q				
32+17	6.8161	1.50	Q				
32+18	6.8136	1.50	Q				
32+19	6.8111	1.50	Q				
32+20	6.8086	1.50	Q				
32+21	6.8061	1.50	Q				
32+22	6.8036	1.50	Q				
32+23	6.8011	1.50	Q				
32+24	6.7986	1.50	Q				
32+25	6.7961	1.50	Q				
32+26	6.7936	1.50	Q				
32+27	6.7911	1.50	Q				
32+28	6.7886	1.50	Q				
32+29	6.7861	1.49	Q				
32+30	6.7836	1.49	Q				
32+31	6.7812	1.49	Q				
32+32	6.7787	1.49	Q				
32+33	6.7762	1.49	Q				
32+34	6.7737	1.49	Q				
32+35	6.7712	1.49	Q				
32+36	6.7687	1.49	Q				
32+37	6.7662	1.49	Q				

32+38	6.7637	1.49	Q						
32+39	6.7613	1.49	Q						
32+40	6.7588	1.49	Q						
32+41	6.7563	1.49	Q						
32+42	6.7538	1.49	Q						
32+43	6.7513	1.48	Q						
32+44	6.7489	1.48	Q						
32+45	6.7464	1.48	Q						
32+46	6.7439	1.48	Q						
32+47	6.7414	1.48	Q						
32+48	6.7389	1.48	Q						
32+49	6.7365	1.48	Q						
32+50	6.7340	1.48	Q						
32+51	6.7315	1.48	Q						
32+52	6.7291	1.48	Q						
32+53	6.7266	1.48	Q						
32+54	6.7241	1.48	Q						
32+55	6.7216	1.48	Q						
32+56	6.7192	1.48	Q						
32+57	6.7167	1.48	Q						
32+58	6.7142	1.47	Q						
32+59	6.7118	1.47	Q						
33+ 0	6.7093	1.47	Q						
33+ 1	6.7068	1.47	Q						
33+ 2	6.7044	1.47	Q						
33+ 3	6.7019	1.47	Q						
33+ 4	6.6995	1.47	Q						
33+ 5	6.6970	1.47	Q						
33+ 6	6.6945	1.47	Q						
33+ 7	6.6921	1.47	Q						
33+ 8	6.6896	1.47	Q						
33+ 9	6.6872	1.47	Q						
33+10	6.6847	1.47	Q						
33+11	6.6823	1.47	Q						
33+12	6.6798	1.46	Q						
33+13	6.6773	1.46	Q						
33+14	6.6749	1.46	Q						
33+15	6.6724	1.46	Q						
33+16	6.6700	1.46	Q						
33+17	6.6675	1.46	Q						
33+18	6.6651	1.46	Q						
33+19	6.6626	1.46	Q						
33+20	6.6602	1.46	Q						
33+21	6.6578	1.46	Q						
33+22	6.6553	1.46	Q						
33+23	6.6529	1.46	Q						
33+24	6.6504	1.46	Q						
33+25	6.6480	1.46	Q						
33+26	6.6455	1.46	Q						
33+27	6.6431	1.46	Q						
33+28	6.6407	1.45	Q						
33+29	6.6382	1.45	Q						
33+30	6.6358	1.45	Q						
33+31	6.6333	1.45	Q						
33+32	6.6309	1.45	Q						
33+33	6.6285	1.45	Q						
33+34	6.6260	1.45	Q						
33+35	6.6236	1.45	Q						
33+36	6.6212	1.45	Q						
33+37	6.6187	1.45	Q						
33+38	6.6163	1.45	Q						
33+39	6.6139	1.45	Q						
33+40	6.6115	1.45	Q						
33+41	6.6090	1.45	Q						
33+42	6.6066	1.45	Q						
33+43	6.6042	1.44	Q						
33+44	6.6017	1.44	Q						
33+45	6.5993	1.44	Q						
33+46	6.5969	1.44	Q						
33+47	6.5945	1.44	Q						
33+48	6.5921	1.44	Q						

33+49	6.5896	1.44	Q						
33+50	6.5872	1.44	Q						
33+51	6.5848	1.44	Q						
33+52	6.5824	1.44	Q						
33+53	6.5800	1.44	Q						
33+54	6.5775	1.44	Q						
33+55	6.5751	1.44	Q						
33+56	6.5727	1.44	Q						
33+57	6.5703	1.44	Q						
33+58	6.5679	1.44	Q						
33+59	6.5655	1.43	Q						
34+ 0	6.5631	1.43	Q						
34+ 1	6.5607	1.43	Q						
34+ 2	6.5582	1.43	Q						
34+ 3	6.5558	1.43	Q						
34+ 4	6.5534	1.43	Q						
34+ 5	6.5510	1.43	Q						
34+ 6	6.5486	1.43	Q						
34+ 7	6.5462	1.43	Q						
34+ 8	6.5438	1.43	Q						
34+ 9	6.5414	1.43	Q						
34+10	6.5390	1.43	Q						
34+11	6.5366	1.43	Q						
34+12	6.5342	1.43	Q						
34+13	6.5318	1.43	Q						
34+14	6.5294	1.43	Q						
34+15	6.5270	1.42	Q						
34+16	6.5246	1.42	Q						
34+17	6.5222	1.42	Q						
34+18	6.5198	1.42	Q						
34+19	6.5174	1.42	Q						
34+20	6.5150	1.42	Q						
34+21	6.5126	1.42	Q						
34+22	6.5102	1.42	Q						
34+23	6.5079	1.42	Q						
34+24	6.5055	1.42	Q						
34+25	6.5031	1.42	Q						
34+26	6.5007	1.42	Q						
34+27	6.4983	1.42	Q						
34+28	6.4959	1.42	Q						
34+29	6.4935	1.42	Q						
34+30	6.4911	1.42	Q						
34+31	6.4887	1.42	Q						
34+32	6.4862	1.41	Q						
34+33	6.4833	1.41	Q						
34+34	6.4803	1.41	Q						
34+35	6.4774	1.41	Q						
34+36	6.4744	1.41	Q						
34+37	6.4714	1.41	Q						
34+38	6.4684	1.41	Q						
34+39	6.4655	1.41	Q						
34+40	6.4625	1.41	Q						
34+41	6.4595	1.41	Q						
34+42	6.4566	1.41	Q						
34+43	6.4536	1.41	Q						
34+44	6.4507	1.41	Q						
34+45	6.4477	1.41	Q						
34+46	6.4447	1.40	Q						
34+47	6.4418	1.40	Q						
34+48	6.4388	1.40	Q						
34+49	6.4359	1.40	Q						
34+50	6.4329	1.40	Q						
34+51	6.4300	1.40	Q						
34+52	6.4270	1.40	Q						
34+53	6.4241	1.40	Q						
34+54	6.4211	1.40	Q						
34+55	6.4182	1.40	Q						
34+56	6.4152	1.40	Q						
34+57	6.4123	1.40	Q						
34+58	6.4093	1.40	Q						
34+59	6.4064	1.40	Q						

35+ 0	6.4034	1.39	Q						
35+ 1	6.4005	1.39	Q						
35+ 2	6.3976	1.39	Q						
35+ 3	6.3946	1.39	Q						
35+ 4	6.3917	1.39	Q						
35+ 5	6.3888	1.39	Q						
35+ 6	6.3858	1.39	Q						
35+ 7	6.3829	1.39	Q						
35+ 8	6.3800	1.39	Q						
35+ 9	6.3770	1.39	Q						
35+10	6.3741	1.39	Q						
35+11	6.3712	1.39	Q						
35+12	6.3683	1.39	Q						
35+13	6.3653	1.39	Q						
35+14	6.3624	1.38	Q						
35+15	6.3595	1.38	Q						
35+16	6.3566	1.38	Q						
35+17	6.3537	1.38	Q						
35+18	6.3507	1.38	Q						
35+19	6.3478	1.38	Q						
35+20	6.3449	1.38	Q						
35+21	6.3420	1.38	Q						
35+22	6.3391	1.38	Q						
35+23	6.3362	1.38	Q						
35+24	6.3333	1.38	Q						
35+25	6.3304	1.38	Q						
35+26	6.3275	1.38	Q						
35+27	6.3245	1.38	Q						
35+28	6.3216	1.37	Q						
35+29	6.3187	1.37	Q						
35+30	6.3158	1.37	Q						
35+31	6.3129	1.37	Q						
35+32	6.3100	1.37	Q						
35+33	6.3071	1.37	Q						
35+34	6.3043	1.37	Q						
35+35	6.3014	1.37	Q						
35+36	6.2985	1.37	Q						
35+37	6.2956	1.37	Q						
35+38	6.2927	1.37	Q						
35+39	6.2898	1.37	Q						
35+40	6.2869	1.37	Q						
35+41	6.2840	1.37	Q						
35+42	6.2811	1.37	Q						
35+43	6.2783	1.36	Q						
35+44	6.2754	1.36	Q						
35+45	6.2725	1.36	Q						
35+46	6.2696	1.36	Q						
35+47	6.2667	1.36	Q						
35+48	6.2639	1.36	Q						
35+49	6.2610	1.36	Q						
35+50	6.2581	1.36	Q						
35+51	6.2552	1.36	Q						
35+52	6.2524	1.36	Q						
35+53	6.2495	1.36	Q						
35+54	6.2466	1.36	Q						
35+55	6.2438	1.36	Q						
35+56	6.2409	1.36	Q						
35+57	6.2380	1.36	Q						
35+58	6.2352	1.35	Q						
35+59	6.2323	1.35	Q						
36+ 0	6.2294	1.35	Q						
36+ 1	6.2266	1.35	Q						
36+ 2	6.2237	1.35	Q						
36+ 3	6.2209	1.35	Q						
36+ 4	6.2180	1.35	Q						
36+ 5	6.2152	1.35	Q						
36+ 6	6.2123	1.35	Q						
36+ 7	6.2095	1.35	Q						
36+ 8	6.2066	1.35	Q						
36+ 9	6.2038	1.35	Q						
36+10	6.2009	1.35	Q						

36+11	6.1981	1.35	Q				
36+12	6.1952	1.35	Q				
36+13	6.1924	1.34	Q				
36+14	6.1895	1.34	Q				
36+15	6.1867	1.34	Q				
36+16	6.1838	1.34	Q				
36+17	6.1810	1.34	Q				
36+18	6.1782	1.34	Q				
36+19	6.1753	1.34	Q				
36+20	6.1725	1.34	Q				
36+21	6.1697	1.34	Q				
36+22	6.1668	1.34	Q				
36+23	6.1640	1.34	Q				
36+24	6.1612	1.34	Q				
36+25	6.1583	1.34	Q				
36+26	6.1555	1.34	Q				
36+27	6.1527	1.34	Q				
36+28	6.1499	1.33	Q				
36+29	6.1470	1.33	Q				
36+30	6.1442	1.33	Q				
36+31	6.1414	1.33	Q				
36+32	6.1386	1.33	Q				
36+33	6.1358	1.33	Q				
36+34	6.1330	1.33	Q				
36+35	6.1301	1.33	Q				
36+36	6.1273	1.33	Q				
36+37	6.1245	1.33	Q				
36+38	6.1217	1.33	Q				
36+39	6.1189	1.33	Q				
36+40	6.1161	1.33	Q				
36+41	6.1133	1.33	Q				
36+42	6.1105	1.33	Q				
36+43	6.1077	1.33	Q				
36+44	6.1049	1.32	Q				
36+45	6.1021	1.32	Q				
36+46	6.0993	1.32	Q				
36+47	6.0965	1.32	Q				
36+48	6.0937	1.32	Q				
36+49	6.0909	1.32	Q				
36+50	6.0881	1.32	Q				
36+51	6.0853	1.32	Q				
36+52	6.0825	1.32	Q				
36+53	6.0797	1.32	Q				
36+54	6.0769	1.32	Q				
36+55	6.0741	1.32	Q				
36+56	6.0713	1.32	Q				
36+57	6.0685	1.32	Q				
36+58	6.0657	1.32	Q				
36+59	6.0630	1.31	Q				
37+ 0	6.0602	1.31	Q				
37+ 1	6.0574	1.31	Q				
37+ 2	6.0546	1.31	Q				
37+ 3	6.0518	1.31	Q				
37+ 4	6.0491	1.31	Q				
37+ 5	6.0463	1.31	Q				
37+ 6	6.0435	1.31	Q				
37+ 7	6.0407	1.31	Q				
37+ 8	6.0380	1.31	Q				
37+ 9	6.0352	1.31	Q				
37+10	6.0324	1.31	Q				
37+11	6.0296	1.31	Q				
37+12	6.0269	1.31	Q				
37+13	6.0240	1.31	Q				
37+14	6.0190	1.30	Q				
37+15	6.0134	1.30	Q				
37+16	6.0078	1.30	Q				
37+17	6.0021	1.30	Q				
37+18	5.9964	1.30	qQ				
37+19	5.9907	1.30	qQ				
37+20	5.9850	1.30	qQ				
37+21	5.9793	1.30	qQ				

37+22	5.9736	1.29	Q						
37+23	5.9680	1.29	Q						
37+24	5.9623	1.29	Q						
37+25	5.9566	1.29	Q						
37+26	5.9510	1.29	Q						
37+27	5.9453	1.29	Q						
37+28	5.9397	1.29	Q						
37+29	5.9340	1.29	Q						
37+30	5.9284	1.28	Q						
37+31	5.9228	1.28	Q						
37+32	5.9172	1.28	Q						
37+33	5.9115	1.28	Q						
37+34	5.9059	1.28	Q						
37+35	5.9003	1.28	Q						
37+36	5.8947	1.28	Q						
37+37	5.8891	1.28	Q						
37+38	5.8835	1.27	Q						
37+39	5.8779	1.27	Q						
37+40	5.8724	1.27	Q						
37+41	5.8668	1.27	Q						
37+42	5.8612	1.27	Q						
37+43	5.8556	1.27	Q						
37+44	5.8501	1.27	Q						
37+45	5.8445	1.27	Q						
37+46	5.8390	1.26	Q						
37+47	5.8334	1.26	Q						
37+48	5.8279	1.26	Q						
37+49	5.8224	1.26	Q						
37+50	5.8168	1.26	Q						
37+51	5.8113	1.26	Q						
37+52	5.8058	1.26	Q						
37+53	5.8003	1.26	Q						
37+54	5.7948	1.26	Q						
37+55	5.7893	1.25	Q						
37+56	5.7838	1.25	Q						
37+57	5.7783	1.25	Q						
37+58	5.7728	1.25	Q						
37+59	5.7673	1.25	Q						
38+ 0	5.7618	1.25	Q						
38+ 1	5.7564	1.25	Q						
38+ 2	5.7509	1.25	Q						
38+ 3	5.7454	1.24	Q						
38+ 4	5.7400	1.24	Q						
38+ 5	5.7345	1.24	Q						
38+ 6	5.7291	1.24	Q						
38+ 7	5.7237	1.24	Q						
38+ 8	5.7182	1.24	Q						
38+ 9	5.7128	1.24	Q						
38+10	5.7074	1.24	Q						
38+11	5.7019	1.23	Q						
38+12	5.6965	1.23	Q						
38+13	5.6911	1.23	Q						
38+14	5.6857	1.23	Q						
38+15	5.6803	1.23	Q						
38+16	5.6749	1.23	Q						
38+17	5.6695	1.23	Q						
38+18	5.6642	1.23	Q						
38+19	5.6588	1.23	Q						
38+20	5.6534	1.22	Q						
38+21	5.6480	1.22	Q						
38+22	5.6427	1.22	Q						
38+23	5.6373	1.22	Q						
38+24	5.6320	1.22	Q						
38+25	5.6266	1.22	Q						
38+26	5.6213	1.22	Q						
38+27	5.6159	1.22	Q						
38+28	5.6106	1.21	Q						
38+29	5.6053	1.21	Q						
38+30	5.6000	1.21	Q						
38+31	5.5946	1.21	Q						
38+32	5.5893	1.21	Q						

38+33	5.5840	1.21	Q						
38+34	5.5787	1.21	Q						
38+35	5.5734	1.21	Q						
38+36	5.5681	1.21	Q						
38+37	5.5628	1.20	Q						
38+38	5.5576	1.20	Q						
38+39	5.5523	1.20	Q						
38+40	5.5470	1.20	Q						
38+41	5.5417	1.20	Q						
38+42	5.5365	1.20	Q						
38+43	5.5312	1.20	Q						
38+44	5.5260	1.20	Q						
38+45	5.5207	1.19	Q						
38+46	5.5155	1.19	Q						
38+47	5.5103	1.19	Q						
38+48	5.5050	1.19	Q						
38+49	5.4998	1.19	Q						
38+50	5.4946	1.19	Q						
38+51	5.4894	1.19	Q						
38+52	5.4841	1.19	Q						
38+53	5.4789	1.19	Q						
38+54	5.4737	1.18	Q						
38+55	5.4685	1.18	Q						
38+56	5.4633	1.18	Q						
38+57	5.4582	1.18	Q						
38+58	5.4530	1.18	Q						
38+59	5.4478	1.18	Q						
39+ 0	5.4426	1.18	Q						
39+ 1	5.4375	1.18	Q						
39+ 2	5.4323	1.18	Q						
39+ 3	5.4271	1.17	Q						
39+ 4	5.4220	1.17	Q						
39+ 5	5.4168	1.17	Q						
39+ 6	5.4117	1.17	Q						
39+ 7	5.4066	1.17	Q						
39+ 8	5.4014	1.17	Q						
39+ 9	5.3963	1.17	Q						
39+10	5.3912	1.17	Q						
39+11	5.3860	1.17	Q						
39+12	5.3809	1.16	Q						
39+13	5.3758	1.16	Q						
39+14	5.3707	1.16	Q						
39+15	5.3656	1.16	Q						
39+16	5.3605	1.16	Q						
39+17	5.3554	1.16	Q						
39+18	5.3504	1.16	Q						
39+19	5.3453	1.16	Q						
39+20	5.3402	1.16	Q						
39+21	5.3351	1.15	Q						
39+22	5.3301	1.15	Q						
39+23	5.3250	1.15	Q						
39+24	5.3199	1.15	Q						
39+25	5.3149	1.15	Q						
39+26	5.3098	1.15	Q						
39+27	5.3048	1.15	Q						
39+28	5.2998	1.15	Q						
39+29	5.2947	1.15	Q						
39+30	5.2897	1.14	Q						
39+31	5.2847	1.14	Q						
39+32	5.2797	1.14	Q						
39+33	5.2747	1.14	Q						
39+34	5.2696	1.14	Q						
39+35	5.2646	1.14	Q						
39+36	5.2596	1.14	Q						
39+37	5.2547	1.14	Q						
39+38	5.2497	1.14	Q						
39+39	5.2447	1.13	Q						
39+40	5.2397	1.13	Q						
39+41	5.2347	1.13	Q						
39+42	5.2298	1.13	Q						
39+43	5.2248	1.13	Q						

39+44	5.2198	1.13	Q					
39+45	5.2149	1.13	Q					
39+46	5.2099	1.13	Q					
39+47	5.2050	1.13	Q					
39+48	5.2000	1.12	Q					
39+49	5.1951	1.12	Q					
39+50	5.1902	1.12	Q					
39+51	5.1852	1.12	Q					
39+52	5.1803	1.12	Q					
39+53	5.1754	1.12	Q					
39+54	5.1705	1.12	Q					
39+55	5.1656	1.12	Q					
39+56	5.1607	1.12	Q					
39+57	5.1558	1.11	Q					
39+58	5.1509	1.11	Q					
39+59	5.1460	1.11	Q					
40+ 0	5.1411	1.11	Q					
40+ 1	5.1362	1.11	Q					
40+ 2	5.1313	1.11	Q					
40+ 3	5.1265	1.11	Q					
40+ 4	5.1216	1.11	Q					
40+ 5	5.1167	1.11	Q					
40+ 6	5.1119	1.11	Q					
40+ 7	5.1070	1.10	Q					
40+ 8	5.1022	1.10	Q					
40+ 9	5.0973	1.10	Q					
40+10	5.0926	1.10	Q					
40+11	5.0880	1.10	Q					
40+12	5.0833	1.10	Q					
40+13	5.0786	1.10	Q					
40+14	5.0740	1.10	Q					
40+15	5.0693	1.10	Q					
40+16	5.0646	1.10	Q					
40+17	5.0600	1.09	Q					
40+18	5.0553	1.09	Q					
40+19	5.0507	1.09	Q					
40+20	5.0461	1.09	Q					
40+21	5.0414	1.09	Q					
40+22	5.0368	1.09	Q					
40+23	5.0322	1.09	Q					
40+24	5.0276	1.09	Q					
40+25	5.0230	1.09	Q					
40+26	5.0183	1.08	Q					
40+27	5.0137	1.08	Q					
40+28	5.0091	1.08	Q					
40+29	5.0045	1.08	Q					
40+30	4.9999	1.08	qQ					
40+31	4.9954	1.08	qQ					
40+32	4.9908	1.08	Q					
40+33	4.9862	1.08	Q					
40+34	4.9816	1.08	Q					
40+35	4.9770	1.08	Q					
40+36	4.9725	1.07	Q					
40+37	4.9679	1.07	Q					
40+38	4.9634	1.07	Q					
40+39	4.9588	1.07	Q					
40+40	4.9542	1.07	Q					
40+41	4.9497	1.07	Q					
40+42	4.9452	1.07	Q					
40+43	4.9406	1.07	Q					
40+44	4.9361	1.07	Q					
40+45	4.9316	1.07	Q					
40+46	4.9270	1.07	Q					
40+47	4.9225	1.06	Q					
40+48	4.9180	1.06	Q					
40+49	4.9135	1.06	Q					
40+50	4.9090	1.06	Q					
40+51	4.9045	1.06	Q					
40+52	4.9000	1.06	Q					
40+53	4.8955	1.06	Q					
40+54	4.8910	1.06	Q					

40+55	4.8865	1.06	Q					
40+56	4.8820	1.06	Q					
40+57	4.8775	1.05	Q					
40+58	4.8730	1.05	Q					
40+59	4.8686	1.05	Q					
41+ 0	4.8641	1.05	Q					
41+ 1	4.8596	1.05	Q					
41+ 2	4.8552	1.05	Q					
41+ 3	4.8507	1.05	Q					
41+ 4	4.8463	1.05	Q					
41+ 5	4.8418	1.05	Q					
41+ 6	4.8374	1.05	Q					
41+ 7	4.8329	1.04	Q					
41+ 8	4.8285	1.04	Q					
41+ 9	4.8241	1.04	Q					
41+10	4.8196	1.04	Q					
41+11	4.8152	1.04	Q					
41+12	4.8108	1.04	Q					
41+13	4.8064	1.04	Q					
41+14	4.8020	1.04	Q					
41+15	4.7975	1.04	Q					
41+16	4.7931	1.04	Q					
41+17	4.7887	1.03	Q					
41+18	4.7844	1.03	Q					
41+19	4.7800	1.03	Q					
41+20	4.7756	1.03	Q					
41+21	4.7712	1.03	Q					
41+22	4.7668	1.03	Q					
41+23	4.7624	1.03	Q					
41+24	4.7581	1.03	Q					
41+25	4.7537	1.03	Q					
41+26	4.7493	1.03	Q					
41+27	4.7450	1.03	Q					
41+28	4.7406	1.02	Q					
41+29	4.7363	1.02	Q					
41+30	4.7319	1.02	Q					
41+31	4.7276	1.02	Q					
41+32	4.7232	1.02	Q					
41+33	4.7189	1.02	Q					
41+34	4.7146	1.02	Q					
41+35	4.7102	1.02	Q					
41+36	4.7059	1.02	Q					
41+37	4.7016	1.02	Q					
41+38	4.6973	1.02	Q					
41+39	4.6930	1.01	Q					
41+40	4.6887	1.01	Q					
41+41	4.6844	1.01	Q					
41+42	4.6801	1.01	Q					
41+43	4.6758	1.01	Q					
41+44	4.6715	1.01	Q					
41+45	4.6672	1.01	Q					
41+46	4.6629	1.01	Q					
41+47	4.6586	1.01	Q					
41+48	4.6543	1.01	Q					
41+49	4.6501	1.00	Q					
41+50	4.6458	1.00	Q					
41+51	4.6415	1.00	Q					
41+52	4.6371	1.00	Q					
41+53	4.6279	1.00	Q					
41+54	4.6089	1.00	Q					
41+55	4.5877	0.99	Q					
41+56	4.5661	0.99	Q					
41+57	4.5445	0.98	Q					
41+58	4.5230	0.98	Q					
41+59	4.5016	0.97	Q					
42+ 0	4.4802	0.97	Q					
42+ 1	4.4590	0.96	Q					
42+ 2	4.4379	0.96	Q					
42+ 3	4.4169	0.95	Q					
42+ 4	4.3959	0.95	Q					
42+ 5	4.3751	0.95	Q					

42+ 6	4.3544	0.94	Q					
42+ 7	4.3337	0.94	Q					
42+ 8	4.3132	0.93	Q					
42+ 9	4.2928	0.93	Q					
42+10	4.2724	0.92	Q					
42+11	4.2522	0.92	Q					
42+12	4.2320	0.91	Q					
42+13	4.2120	0.91	Q					
42+14	4.1920	0.90	Q					
42+15	4.1722	0.90	Q					
42+16	4.1524	0.90	Q					
42+17	4.1327	0.89	Q					
42+18	4.1131	0.89	Q					
42+19	4.0936	0.88	Q					
42+20	4.0742	0.88	Q					
42+21	4.0549	0.88	Q					
42+22	4.0357	0.87	Q					
42+23	4.0166	0.87	Q					
42+24	3.9976	0.86	Q					
42+25	3.9786	0.86	Q					
42+26	3.9598	0.85	Q					
42+27	3.9410	0.85	Q					
42+28	3.9223	0.85	Q					
42+29	3.9037	0.84	Q					
42+30	3.8852	0.84	Q					
42+31	3.8668	0.83	Q					
42+32	3.8485	0.83	Q					
42+33	3.8303	0.83	Q					
42+34	3.8121	0.82	Q					
42+35	3.7941	0.82	Q					
42+36	3.7761	0.81	Q					
42+37	3.7582	0.81	Q					
42+38	3.7404	0.81	Q					
42+39	3.7227	0.80	Q					
42+40	3.7050	0.80	Q					
42+41	3.6875	0.80	Q					
42+42	3.6700	0.79	Q					
42+43	3.6526	0.79	Q					
42+44	3.6353	0.78	Q					
42+45	3.6181	0.78	Q					
42+46	3.6009	0.78	Q					
42+47	3.5839	0.77	Q					
42+48	3.5669	0.77	Q					
42+49	3.5500	0.77	Q					
42+50	3.5332	0.76	Q					
42+51	3.5164	0.76	Q					
42+52	3.4998	0.76	Q					
42+53	3.4832	0.75	Q					
42+54	3.4667	0.75	Q					
42+55	3.4502	0.74	Q					
42+56	3.4339	0.74	Q					
42+57	3.4176	0.74	Q					
42+58	3.4014	0.73	Q					
42+59	3.3853	0.73	Q					
43+ 0	3.3693	0.73	Q					
43+ 1	3.3533	0.72	Q					
43+ 2	3.3374	0.72	Q					
43+ 3	3.3216	0.72	Q					
43+ 4	3.3059	0.71	Q					
43+ 5	3.2902	0.71	Q					
43+ 6	3.2746	0.71	Q					
43+ 7	3.2591	0.70	Q					
43+ 8	3.2436	0.70	Q					
43+ 9	3.2283	0.70	Q					
43+10	3.2130	0.69	Q					
43+11	3.1978	0.69	Q					
43+12	3.1826	0.69	Q					
43+13	3.1675	0.68	Q					
43+14	3.1525	0.68	Q					
43+15	3.1376	0.68	Q					
43+16	3.1227	0.67	Q					

43+17	3.1079	0.67		Q						
43+18	3.0932	0.67		Q						
43+19	3.0785	0.66		Q						
43+20	3.0639	0.66		Q						
43+21	3.0494	0.66		Q						
43+22	3.0350	0.66		Q						
43+23	3.0206	0.65		Q						
43+24	3.0063	0.65		Q						
43+25	2.9920	0.65		Q						
43+26	2.9779	0.64		Q						
43+27	2.9637	0.64		Q						
43+28	2.9497	0.64		Q						
43+29	2.9357	0.63		Q						
43+30	2.9218	0.63		Q						
43+31	2.9080	0.63		Q						
43+32	2.8942	0.62		Q						
43+33	2.8805	0.62		Q						
43+34	2.8668	0.62		Q						
43+35	2.8532	0.62		Q						
43+36	2.8397	0.61		Q						
43+37	2.8263	0.61		Q						
43+38	2.8129	0.61		Q						
43+39	2.7995	0.60		Q						
43+40	2.7863	0.60		Q						
43+41	2.7731	0.60		Q						
43+42	2.7599	0.60		Q						
43+43	2.7469	0.59		Q						
43+44	2.7338	0.59		Q						
43+45	2.7209	0.59		Q						
43+46	2.7080	0.58		Q						
43+47	2.6952	0.58		Q						
43+48	2.6824	0.58		Q						
43+49	2.6697	0.58		Q						
43+50	2.6570	0.57		Q						
43+51	2.6444	0.57		Q						
43+52	2.6319	0.57		Q						
43+53	2.6194	0.57		Q						
43+54	2.6070	0.56		Q						
43+55	2.5947	0.56		Q						
43+56	2.5824	0.56		Q						
43+57	2.5701	0.55		Q						
43+58	2.5580	0.55		Q						
43+59	2.5458	0.55		Q						
44+ 0	2.5338	0.55		Q						
44+ 1	2.5218	0.54		Q						
44+ 2	2.5098	0.54		Q						
44+ 3	2.4979	0.54		Q						
44+ 4	2.4861	0.54		Q						
44+ 5	2.4743	0.53		Q						
44+ 6	2.4626	0.53		Q						
44+ 7	2.4509	0.53		Q						
44+ 8	2.4393	0.53		Q						
44+ 9	2.4278	0.52		Q						
44+10	2.4163	0.52		Q						
44+11	2.4048	0.52		Q						
44+12	2.3934	0.52		Q						
44+13	2.3821	0.51		Q						
44+14	2.3708	0.51		Q						
44+15	2.3595	0.51		Q						
44+16	2.3484	0.51		Q						
44+17	2.3372	0.50		Q						
44+18	2.3262	0.50		Q						
44+19	2.3151	0.50		Q						
44+20	2.3042	0.50		Q						
44+21	2.2933	0.49		Q						
44+22	2.2824	0.49		Q						
44+23	2.2716	0.49		Q						
44+24	2.2608	0.49		Q						
44+25	2.2501	0.49		Q						
44+26	2.2394	0.48		Q						
44+27	2.2288	0.48		Q						

44+28	2.2183	0.48	Q				
44+29	2.2077	0.48	Q				
44+30	2.1973	0.47	Q				
44+31	2.1869	0.47	Q				
44+32	2.1765	0.47	Q				
44+33	2.1662	0.47	Q				
44+34	2.1559	0.47	Q				
44+35	2.1457	0.46	Q				
44+36	2.1356	0.46	Q				
44+37	2.1254	0.46	Q				
44+38	2.1154	0.46	Q				
44+39	2.1053	0.45	Q				
44+40	2.0954	0.45	Q				
44+41	2.0854	0.45	Q				
44+42	2.0756	0.45	Q				
44+43	2.0657	0.45	Q				
44+44	2.0559	0.44	Q				
44+45	2.0462	0.44	Q				
44+46	2.0365	0.44	Q				
44+47	2.0268	0.44	Q				
44+48	2.0172	0.44	Q				
44+49	2.0077	0.43	Q				
44+50	1.9982	0.43	Q				
44+51	1.9887	0.43	Q				
44+52	1.9793	0.43	Q				
44+53	1.9699	0.43	Q				
44+54	1.9606	0.42	Q				
44+55	1.9513	0.42	Q				
44+56	1.9420	0.42	Q				
44+57	1.9328	0.42	Q				
44+58	1.9237	0.42	Q				
44+59	1.9145	0.41	Q				
45+ 0	1.9055	0.41	Q				
45+ 1	1.8964	0.41	Q				
45+ 2	1.8875	0.41	Q				
45+ 3	1.8785	0.41	Q				
45+ 4	1.8696	0.40	Q				
45+ 5	1.8608	0.40	Q				
45+ 6	1.8519	0.40	Q				
45+ 7	1.8432	0.40	Q				
45+ 8	1.8344	0.40	Q				
45+ 9	1.8257	0.39	Q				
45+10	1.8171	0.39	Q				
45+11	1.8085	0.39	Q				
45+12	1.7999	0.39	Q				
45+13	1.7914	0.39	Q				
45+14	1.7829	0.38	Q				
45+15	1.7744	0.38	Q				
45+16	1.7660	0.38	Q				
45+17	1.7577	0.38	Q				
45+18	1.7493	0.38	Q				
45+19	1.7410	0.38	Q				
45+20	1.7328	0.37	Q				
45+21	1.7246	0.37	Q				
45+22	1.7164	0.37	Q				
45+23	1.7083	0.37	Q				
45+24	1.7002	0.37	Q				
45+25	1.6921	0.37	Q				
45+26	1.6841	0.36	Q				
45+27	1.6761	0.36	Q				
45+28	1.6682	0.36	Q				
45+29	1.6603	0.36	Q				
45+30	1.6524	0.36	Q				
45+31	1.6446	0.35	Q				
45+32	1.6368	0.35	Q				
45+33	1.6290	0.35	Q				
45+34	1.6213	0.35	Q				
45+35	1.6136	0.35	Q				
45+36	1.6060	0.35	Q				
45+37	1.5984	0.34	Q				
45+38	1.5908	0.34	Q				

45+39	1.5833	0.34	Q					
45+40	1.5758	0.34	Q					
45+41	1.5683	0.34	Q					
45+42	1.5609	0.34	Q					
45+43	1.5535	0.34	Q					
45+44	1.5461	0.33	Q					
45+45	1.5388	0.33	Q					
45+46	1.5315	0.33	Q					
45+47	1.5242	0.33	Q					
45+48	1.5170	0.33	Q					
45+49	1.5098	0.33	Q					
45+50	1.5027	0.32	Q					
45+51	1.4956	0.32	Q					
45+52	1.4885	0.32	Q					
45+53	1.4814	0.32	Q					
45+54	1.4744	0.32	Q					
45+55	1.4674	0.32	Q					
45+56	1.4605	0.32	Q					
45+57	1.4535	0.31	Q					
45+58	1.4466	0.31	Q					
45+59	1.4398	0.31	Q					
46+ 0	1.4330	0.31	Q					
46+ 1	1.4262	0.31	Q					
46+ 2	1.4194	0.31	Q					
46+ 3	1.4127	0.30	Q					
46+ 4	1.4060	0.30	Q					
46+ 5	1.3993	0.30	Q					
46+ 6	1.3927	0.30	Q					
46+ 7	1.3861	0.30	Q					
46+ 8	1.3795	0.30	Q					
46+ 9	1.3730	0.30	Q					
46+10	1.3665	0.29	Q					
46+11	1.3600	0.29	Q					
46+12	1.3536	0.29	Q					
46+13	1.3472	0.29	Q					
46+14	1.3408	0.29	Q					
46+15	1.3344	0.29	Q					
46+16	1.3281	0.29	Q					
46+17	1.3218	0.29	Q					
46+18	1.3156	0.28	Q					
46+19	1.3093	0.28	Q					
46+20	1.3031	0.28	Q					
46+21	1.2969	0.28	Q					
46+22	1.2908	0.28	Q					
46+23	1.2847	0.28	Q					
46+24	1.2786	0.28	Q					
46+25	1.2725	0.27	Q					
46+26	1.2665	0.27	Q					
46+27	1.2605	0.27	Q					
46+28	1.2545	0.27	Q					
46+29	1.2486	0.27	Q					
46+30	1.2427	0.27	Q					
46+31	1.2368	0.27	Q					
46+32	1.2309	0.27	Q					
46+33	1.2251	0.26	Q					
46+34	1.2193	0.26	Q					
46+35	1.2135	0.26	Q					
46+36	1.2078	0.26	Q					
46+37	1.2020	0.26	Q					
46+38	1.1963	0.26	Q					
46+39	1.1907	0.26	Q					
46+40	1.1850	0.26	Q					
46+41	1.1794	0.25	Q					
46+42	1.1738	0.25	Q					
46+43	1.1683	0.25	Q					
46+44	1.1627	0.25	Q					
46+45	1.1572	0.25	Q					
46+46	1.1517	0.25	Q					
46+47	1.1463	0.25	Q					
46+48	1.1408	0.25	Q					
46+49	1.1354	0.25	Q					

46+50	1.1301	0.24	IQ				
46+51	1.1247	0.24	IQ				
46+52	1.1194	0.24	IQ				
46+53	1.1141	0.24	IQ				
46+54	1.1088	0.24	IQ				
46+55	1.1035	0.24	IQ				
46+56	1.0983	0.24	IQ				
46+57	1.0931	0.24	IQ				
46+58	1.0879	0.23	IQ				
46+59	1.0828	0.23	IQ				
47+ 0	1.0776	0.23	IQ				
47+ 1	1.0725	0.23	IQ				
47+ 2	1.0674	0.23	IQ				
47+ 3	1.0624	0.23	IQ				
47+ 4	1.0574	0.23	IQ				
47+ 5	1.0523	0.23	IQ				
47+ 6	1.0474	0.23	IQ				
47+ 7	1.0424	0.22	IQ				
47+ 8	1.0375	0.22	IQ				
47+ 9	1.0325	0.22	IQ				
47+10	1.0276	0.22	IQ				
47+11	1.0228	0.22	IQ				
47+12	1.0179	0.22	IQ				
47+13	1.0131	0.22	IQ				
47+14	1.0083	0.22	IQ				
47+15	1.0035	0.22	IQ				
47+16	0.9988	0.22	Q				
47+17	0.9940	0.21	Q				
47+18	0.9893	0.21	Q				
47+19	0.9846	0.21	Q				
47+20	0.9800	0.21	Q				
47+21	0.9753	0.21	Q				
47+22	0.9707	0.21	Q				
47+23	0.9661	0.21	Q				
47+24	0.9615	0.21	Q				
47+25	0.9570	0.21	Q				
47+26	0.9524	0.21	Q				
47+27	0.9479	0.20	Q				
47+28	0.9434	0.20	Q				
47+29	0.9390	0.20	Q				
47+30	0.9345	0.20	Q				
47+31	0.9301	0.20	Q				
47+32	0.9257	0.20	Q				
47+33	0.9213	0.20	Q				
47+34	0.9169	0.20	Q				
47+35	0.9126	0.20	Q				
47+36	0.9083	0.20	Q				
47+37	0.9040	0.20	Q				
47+38	0.8997	0.19	Q				
47+39	0.8954	0.19	Q				
47+40	0.8912	0.19	Q				
47+41	0.8869	0.19	Q				
47+42	0.8827	0.19	Q				
47+43	0.8786	0.19	Q				
47+44	0.8744	0.19	Q				
47+45	0.8703	0.19	Q				
47+46	0.8661	0.19	Q				
47+47	0.8620	0.19	Q				
47+48	0.8579	0.19	Q				
47+49	0.8539	0.18	Q				
47+50	0.8498	0.18	Q				
47+51	0.8458	0.18	Q				
47+52	0.8418	0.18	Q				
47+53	0.8378	0.18	Q				
47+54	0.8338	0.18	Q				
47+55	0.8299	0.18	Q				
47+56	0.8260	0.18	Q				
47+57	0.8220	0.18	Q				
47+58	0.8181	0.18	Q				
47+59	0.8143	0.18	Q				
48+ 0	0.8104	0.17	Q				

48+ 1	0.8066	0.17	Q				
48+ 2	0.8027	0.17	Q				
48+ 3	0.7989	0.17	Q				
48+ 4	0.7952	0.17	Q				
48+ 5	0.7914	0.17	Q				
48+ 6	0.7876	0.17	Q				
48+ 7	0.7839	0.17	Q				
48+ 8	0.7802	0.17	Q				
48+ 9	0.7765	0.17	Q				
48+10	0.7728	0.17	Q				
48+11	0.7692	0.17	Q				
48+12	0.7655	0.17	Q				
48+13	0.7619	0.16	Q				
48+14	0.7583	0.16	Q				
48+15	0.7547	0.16	Q				
48+16	0.7511	0.16	Q				
48+17	0.7475	0.16	Q				
48+18	0.7440	0.16	Q				
48+19	0.7405	0.16	Q				
48+20	0.7370	0.16	Q				
48+21	0.7335	0.16	Q				
48+22	0.7300	0.16	Q				
48+23	0.7265	0.16	Q				
48+24	0.7231	0.16	Q				
48+25	0.7197	0.16	Q				
48+26	0.7163	0.15	Q				
48+27	0.7129	0.15	Q				
48+28	0.7095	0.15	Q				
48+29	0.7061	0.15	Q				
48+30	0.7028	0.15	Q				
48+31	0.6995	0.15	Q				
48+32	0.6961	0.15	Q				
48+33	0.6928	0.15	Q				
48+34	0.6896	0.15	Q				
48+35	0.6863	0.15	Q				
48+36	0.6830	0.15	Q				
48+37	0.6798	0.15	Q				
48+38	0.6766	0.15	Q				
48+39	0.6734	0.15	Q				
48+40	0.6702	0.14	Q				
48+41	0.6670	0.14	Q				
48+42	0.6638	0.14	Q				
48+43	0.6607	0.14	Q				
48+44	0.6576	0.14	Q				
48+45	0.6545	0.14	Q				
48+46	0.6514	0.14	Q				
48+47	0.6483	0.14	Q				
48+48	0.6452	0.14	Q				
48+49	0.6421	0.14	Q				
48+50	0.6391	0.14	Q				
48+51	0.6361	0.14	Q				
48+52	0.6331	0.14	Q				
48+53	0.6301	0.14	Q				
48+54	0.6271	0.14	Q				
48+55	0.6241	0.13	Q				
48+56	0.6211	0.13	Q				
48+57	0.6182	0.13	Q				
48+58	0.6153	0.13	Q				
48+59	0.6124	0.13	Q				
49+ 0	0.6095	0.13	Q				
49+ 1	0.6066	0.13	Q				
49+ 2	0.6037	0.13	Q				
49+ 3	0.6008	0.13	Q				
49+ 4	0.5980	0.13	Q				
49+ 5	0.5951	0.13	Q				
49+ 6	0.5923	0.13	Q				
49+ 7	0.5895	0.13	Q				
49+ 8	0.5867	0.13	Q				
49+ 9	0.5839	0.13	Q				
49+10	0.5812	0.13	Q				
49+11	0.5784	0.12	Q				

49+12	0.5757	0.12	Q				
49+13	0.5730	0.12	Q				
49+14	0.5702	0.12	Q				
49+15	0.5675	0.12	Q				
49+16	0.5649	0.12	Q				
49+17	0.5622	0.12	Q				
49+18	0.5595	0.12	Q				
49+19	0.5569	0.12	Q				
49+20	0.5542	0.12	Q				
49+21	0.5516	0.12	Q				
49+22	0.5490	0.12	Q				
49+23	0.5464	0.12	Q				
49+24	0.5438	0.12	Q				
49+25	0.5412	0.12	Q				
49+26	0.5387	0.12	Q				
49+27	0.5361	0.12	Q				
49+28	0.5336	0.12	Q				
49+29	0.5310	0.11	Q				
49+30	0.5285	0.11	Q				
49+31	0.5260	0.11	Q				
49+32	0.5235	0.11	Q				
49+33	0.5210	0.11	Q				
49+34	0.5186	0.11	Q				
49+35	0.5161	0.11	Q				
49+36	0.5137	0.11	Q				
49+37	0.5112	0.11	Q				
49+38	0.5088	0.11	Q				
49+39	0.5064	0.11	Q				
49+40	0.5040	0.11	Q				
49+41	0.5016	0.11	Q				
49+42	0.4992	0.11	Q				
49+43	0.4969	0.11	Q				
49+44	0.4945	0.11	Q				
49+45	0.4922	0.11	Q				
49+46	0.4898	0.11	Q				
49+47	0.4875	0.11	Q				
49+48	0.4852	0.10	Q				
49+49	0.4829	0.10	Q				
49+50	0.4806	0.10	Q				
49+51	0.4783	0.10	Q				
49+52	0.4761	0.10	Q				
49+53	0.4738	0.10	Q				
49+54	0.4716	0.10	Q				
49+55	0.4693	0.10	Q				
49+56	0.4671	0.10	Q				
49+57	0.4649	0.10	Q				
49+58	0.4627	0.10	Q				
49+59	0.4605	0.10	Q				
50+ 0	0.4583	0.10	Q				
50+ 1	0.4562	0.10	Q				
50+ 2	0.4540	0.10	Q				
50+ 3	0.4518	0.10	Q				
50+ 4	0.4497	0.10	Q				
50+ 5	0.4476	0.10	Q				
50+ 6	0.4454	0.10	Q				
50+ 7	0.4433	0.10	Q				
50+ 8	0.4412	0.10	Q				
50+ 9	0.4391	0.09	Q				
50+10	0.4371	0.09	Q				
50+11	0.4350	0.09	Q				
50+12	0.4329	0.09	Q				
50+13	0.4309	0.09	Q				
50+14	0.4288	0.09	Q				
50+15	0.4268	0.09	Q				
50+16	0.4248	0.09	Q				
50+17	0.4228	0.09	Q				
50+18	0.4208	0.09	Q				
50+19	0.4188	0.09	Q				
50+20	0.4168	0.09	Q				
50+21	0.4148	0.09	Q				
50+22	0.4128	0.09	Q				

50+23	0.4109	0.09	Q				
50+24	0.4089	0.09	Q				
50+25	0.4070	0.09	Q				
50+26	0.4051	0.09	Q				
50+27	0.4032	0.09	Q				
50+28	0.4013	0.09	Q				
50+29	0.3993	0.09	Q				
50+30	0.3975	0.09	Q				
50+31	0.3956	0.09	Q				
50+32	0.3937	0.08	Q				
50+33	0.3918	0.08	Q				
50+34	0.3900	0.08	Q				
50+35	0.3881	0.08	Q				
50+36	0.3863	0.08	Q				
50+37	0.3845	0.08	Q				
50+38	0.3826	0.08	Q				
50+39	0.3808	0.08	Q				
50+40	0.3790	0.08	Q				
50+41	0.3772	0.08	Q				
50+42	0.3754	0.08	Q				
50+43	0.3737	0.08	Q				
50+44	0.3719	0.08	Q				
50+45	0.3701	0.08	Q				
50+46	0.3684	0.08	Q				
50+47	0.3666	0.08	Q				
50+48	0.3649	0.08	Q				
50+49	0.3632	0.08	Q				
50+50	0.3614	0.08	Q				
50+51	0.3597	0.08	Q				
50+52	0.3580	0.08	Q				
50+53	0.3563	0.08	Q				
50+54	0.3546	0.08	Q				
50+55	0.3530	0.08	Q				
50+56	0.3513	0.08	Q				
50+57	0.3496	0.08	Q				
50+58	0.3480	0.08	Q				
50+59	0.3463	0.07	Q				
51+ 0	0.3447	0.07	Q				
51+ 1	0.3430	0.07	Q				
51+ 2	0.3414	0.07	Q				
51+ 3	0.3398	0.07	Q				
51+ 4	0.3382	0.07	Q				
51+ 5	0.3366	0.07	Q				
51+ 6	0.3350	0.07	Q				
51+ 7	0.3334	0.07	Q				
51+ 8	0.3318	0.07	Q				
51+ 9	0.3302	0.07	Q				
51+10	0.3287	0.07	Q				
51+11	0.3271	0.07	Q				
51+12	0.3256	0.07	Q				
51+13	0.3240	0.07	Q				
51+14	0.3225	0.07	Q				
51+15	0.3210	0.07	Q				
51+16	0.3194	0.07	Q				
51+17	0.3179	0.07	Q				
51+18	0.3164	0.07	Q				
51+19	0.3149	0.07	Q				
51+20	0.3134	0.07	Q				
51+21	0.3120	0.07	Q				
51+22	0.3105	0.07	Q				
51+23	0.3090	0.07	Q				
51+24	0.3075	0.07	Q				
51+25	0.3061	0.07	Q				
51+26	0.3046	0.07	Q				
51+27	0.3032	0.07	Q				
51+28	0.3018	0.07	Q				
51+29	0.3003	0.06	Q				
51+30	0.2989	0.06	Q				
51+31	0.2975	0.06	Q				
51+32	0.2961	0.06	Q				
51+33	0.2947	0.06	Q				

51+34	0.2933	0.06	Q				
51+35	0.2919	0.06	Q				
51+36	0.2905	0.06	Q				
51+37	0.2891	0.06	Q				
51+38	0.2878	0.06	Q				
51+39	0.2864	0.06	Q				
51+40	0.2850	0.06	Q				
51+41	0.2837	0.06	Q				
51+42	0.2823	0.06	Q				
51+43	0.2810	0.06	Q				
51+44	0.2797	0.06	Q				
51+45	0.2783	0.06	Q				
51+46	0.2770	0.06	Q				
51+47	0.2757	0.06	Q				
51+48	0.2744	0.06	Q				
51+49	0.2731	0.06	Q				
51+50	0.2718	0.06	Q				
51+51	0.2705	0.06	Q				
51+52	0.2692	0.06	Q				
51+53	0.2680	0.06	Q				
51+54	0.2667	0.06	Q				
51+55	0.2654	0.06	Q				
51+56	0.2642	0.06	Q				
51+57	0.2629	0.06	Q				
51+58	0.2617	0.06	Q				
51+59	0.2604	0.06	Q				
52+ 0	0.2592	0.06	Q				
52+ 1	0.2580	0.06	Q				
52+ 2	0.2568	0.06	Q				
52+ 3	0.2555	0.06	Q				
52+ 4	0.2543	0.05	Q				
52+ 5	0.2531	0.05	Q				
52+ 6	0.2519	0.05	Q				
52+ 7	0.2507	0.05	Q				
52+ 8	0.2495	0.05	Q				
52+ 9	0.2484	0.05	Q				
52+10	0.2472	0.05	Q				
52+11	0.2460	0.05	Q				
52+12	0.2448	0.05	Q				
52+13	0.2437	0.05	Q				
52+14	0.2425	0.05	Q				
52+15	0.2414	0.05	Q				
52+16	0.2402	0.05	Q				
52+17	0.2391	0.05	Q				
52+18	0.2380	0.05	Q				
52+19	0.2368	0.05	Q				
52+20	0.2357	0.05	Q				
52+21	0.2346	0.05	Q				
52+22	0.2335	0.05	Q				
52+23	0.2324	0.05	Q				
52+24	0.2313	0.05	Q				
52+25	0.2302	0.05	Q				
52+26	0.2291	0.05	Q				
52+27	0.2280	0.05	Q				
52+28	0.2269	0.05	Q				
52+29	0.2259	0.05	Q				
52+30	0.2248	0.05	Q				
52+31	0.2237	0.05	Q				
52+32	0.2227	0.05	Q				
52+33	0.2216	0.05	Q				
52+34	0.2205	0.05	Q				
52+35	0.2195	0.05	Q				
52+36	0.2185	0.05	Q				
52+37	0.2174	0.05	Q				
52+38	0.2164	0.05	Q				
52+39	0.2154	0.05	Q				
52+40	0.2144	0.05	Q				
52+41	0.2133	0.05	Q				
52+42	0.2123	0.05	Q				
52+43	0.2113	0.05	Q				
52+44	0.2103	0.05	Q				

52+45	0.2093	0.05	Q				
52+46	0.2083	0.04	Q				
52+47	0.2073	0.04	Q				
52+48	0.2064	0.04	Q				
52+49	0.2054	0.04	Q				
52+50	0.2044	0.04	Q				
52+51	0.2034	0.04	Q				
52+52	0.2025	0.04	Q				
52+53	0.2015	0.04	Q				
52+54	0.2006	0.04	Q				
52+55	0.1996	0.04	Q				
52+56	0.1987	0.04	Q				
52+57	0.1977	0.04	Q				
52+58	0.1968	0.04	Q				
52+59	0.1959	0.04	Q				
53+ 0	0.1949	0.04	Q				
53+ 1	0.1940	0.04	Q				
53+ 2	0.1931	0.04	Q				
53+ 3	0.1922	0.04	Q				
53+ 4	0.1913	0.04	Q				
53+ 5	0.1904	0.04	Q				
53+ 6	0.1895	0.04	Q				
53+ 7	0.1886	0.04	Q				
53+ 8	0.1877	0.04	Q				
53+ 9	0.1868	0.04	Q				
53+10	0.1859	0.04	Q				
53+11	0.1850	0.04	Q				
53+12	0.1841	0.04	Q				
53+13	0.1833	0.04	Q				
53+14	0.1824	0.04	Q				
53+15	0.1815	0.04	Q				
53+16	0.1807	0.04	Q				
53+17	0.1798	0.04	Q				
53+18	0.1790	0.04	Q				
53+19	0.1781	0.04	Q				
53+20	0.1773	0.04	Q				
53+21	0.1764	0.04	Q				
53+22	0.1756	0.04	Q				
53+23	0.1748	0.04	Q				
53+24	0.1739	0.04	Q				
53+25	0.1731	0.04	Q				
53+26	0.1723	0.04	Q				
53+27	0.1715	0.04	Q				
53+28	0.1707	0.04	Q				
53+29	0.1698	0.04	Q				
53+30	0.1690	0.04	Q				
53+31	0.1682	0.04	Q				
53+32	0.1674	0.04	Q				
53+33	0.1666	0.04	Q				
53+34	0.1659	0.04	Q				
53+35	0.1651	0.04	Q				
53+36	0.1643	0.04	Q				
53+37	0.1635	0.04	Q				
53+38	0.1627	0.04	Q				
53+39	0.1620	0.03	Q				
53+40	0.1612	0.03	Q				
53+41	0.1604	0.03	Q				
53+42	0.1597	0.03	Q				
53+43	0.1589	0.03	Q				
53+44	0.1582	0.03	Q				
53+45	0.1574	0.03	Q				
53+46	0.1567	0.03	Q				
53+47	0.1559	0.03	Q				
53+48	0.1552	0.03	Q				
53+49	0.1545	0.03	Q				
53+50	0.1537	0.03	Q				
53+51	0.1530	0.03	Q				
53+52	0.1523	0.03	Q				
53+53	0.1515	0.03	Q				
53+54	0.1508	0.03	Q				
53+55	0.1501	0.03	Q				

53+56	0.1494	0.03	Q				
53+57	0.1487	0.03	Q				
53+58	0.1480	0.03	Q				
53+59	0.1473	0.03	Q				
54+ 0	0.1466	0.03	Q				
54+ 1	0.1459	0.03	Q				
54+ 2	0.1452	0.03	Q				
54+ 3	0.1445	0.03	Q				
54+ 4	0.1438	0.03	Q				
54+ 5	0.1432	0.03	Q				
54+ 6	0.1425	0.03	Q				
54+ 7	0.1418	0.03	Q				
54+ 8	0.1411	0.03	Q				
54+ 9	0.1405	0.03	Q				
54+10	0.1398	0.03	Q				
54+11	0.1391	0.03	Q				
54+12	0.1385	0.03	Q				
54+13	0.1378	0.03	Q				
54+14	0.1372	0.03	Q				
54+15	0.1365	0.03	Q				
54+16	0.1359	0.03	Q				
54+17	0.1352	0.03	Q				
54+18	0.1346	0.03	Q				
54+19	0.1339	0.03	Q				
54+20	0.1333	0.03	Q				
54+21	0.1327	0.03	Q				
54+22	0.1320	0.03	Q				
54+23	0.1314	0.03	Q				
54+24	0.1308	0.03	Q				
54+25	0.1302	0.03	Q				
54+26	0.1296	0.03	Q				
54+27	0.1289	0.03	Q				
54+28	0.1283	0.03	Q				
54+29	0.1277	0.03	Q				
54+30	0.1271	0.03	Q				
54+31	0.1265	0.03	Q				
54+32	0.1259	0.03	Q				
54+33	0.1253	0.03	Q				
54+34	0.1247	0.03	Q				
54+35	0.1241	0.03	Q				
54+36	0.1236	0.03	Q				
54+37	0.1230	0.03	Q				
54+38	0.1224	0.03	Q				
54+39	0.1218	0.03	Q				
54+40	0.1212	0.03	Q				
54+41	0.1207	0.03	Q				
54+42	0.1201	0.03	Q				
54+43	0.1195	0.03	Q				
54+44	0.1189	0.03	Q				
54+45	0.1184	0.03	Q				
54+46	0.1178	0.03	Q				
54+47	0.1173	0.03	Q				
54+48	0.1167	0.03	Q				
54+49	0.1162	0.03	Q				
54+50	0.1156	0.02	Q				
54+51	0.1151	0.02	Q				
54+52	0.1145	0.02	Q				
54+53	0.1140	0.02	Q				
54+54	0.1134	0.02	Q				
54+55	0.1129	0.02	Q				
54+56	0.1124	0.02	Q				
54+57	0.1118	0.02	Q				
54+58	0.1113	0.02	Q				
54+59	0.1108	0.02	Q				
55+ 0	0.1102	0.02	Q				
55+ 1	0.1097	0.02	Q				
55+ 2	0.1092	0.02	Q				
55+ 3	0.1087	0.02	Q				
55+ 4	0.1082	0.02	Q				
55+ 5	0.1077	0.02	Q				
55+ 6	0.1071	0.02	Q				

55+ 7	0.1066	0.02	Q				
55+ 8	0.1061	0.02	Q				
55+ 9	0.1056	0.02	Q				
55+10	0.1051	0.02	Q				
55+11	0.1046	0.02	Q				
55+12	0.1041	0.02	Q				
55+13	0.1036	0.02	Q				
55+14	0.1031	0.02	Q				
55+15	0.1027	0.02	Q				
55+16	0.1022	0.02	Q				
55+17	0.1017	0.02	Q				
55+18	0.1012	0.02	Q				
55+19	0.1007	0.02	Q				
55+20	0.1003	0.02	Q				
55+21	0.0998	0.02	Q				
55+22	0.0993	0.02	Q				
55+23	0.0988	0.02	Q				
55+24	0.0984	0.02	Q				
55+25	0.0979	0.02	Q				
55+26	0.0974	0.02	Q				
55+27	0.0970	0.02	Q				
55+28	0.0965	0.02	Q				
55+29	0.0961	0.02	Q				
55+30	0.0956	0.02	Q				
55+31	0.0951	0.02	Q				
55+32	0.0947	0.02	Q				
55+33	0.0942	0.02	Q				
55+34	0.0938	0.02	Q				
55+35	0.0934	0.02	Q				
55+36	0.0929	0.02	Q				
55+37	0.0925	0.02	Q				
55+38	0.0920	0.02	Q				
55+39	0.0916	0.02	Q				
55+40	0.0912	0.02	Q				
55+41	0.0907	0.02	Q				
55+42	0.0903	0.02	Q				
55+43	0.0899	0.02	Q				
55+44	0.0895	0.02	Q				
55+45	0.0890	0.02	Q				
55+46	0.0886	0.02	Q				
55+47	0.0882	0.02	Q				
55+48	0.0878	0.02	Q				
55+49	0.0874	0.02	Q				
55+50	0.0869	0.02	Q				
55+51	0.0865	0.02	Q				
55+52	0.0861	0.02	Q				
55+53	0.0857	0.02	Q				
55+54	0.0853	0.02	Q				
55+55	0.0849	0.02	Q				
55+56	0.0845	0.02	Q				
55+57	0.0841	0.02	Q				
55+58	0.0837	0.02	Q				
55+59	0.0833	0.02	Q				
56+ 0	0.0829	0.02	Q				
56+ 1	0.0825	0.02	Q				
56+ 2	0.0821	0.02	Q				
56+ 3	0.0817	0.02	Q				
56+ 4	0.0813	0.02	Q				
56+ 5	0.0810	0.02	Q				
56+ 6	0.0806	0.02	Q				
56+ 7	0.0802	0.02	Q				
56+ 8	0.0798	0.02	Q				
56+ 9	0.0794	0.02	Q				
56+10	0.0791	0.02	Q				
56+11	0.0787	0.02	Q				
56+12	0.0783	0.02	Q				
56+13	0.0779	0.02	Q				
56+14	0.0776	0.02	Q				
56+15	0.0772	0.02	Q				
56+16	0.0768	0.02	Q				
56+17	0.0765	0.02	Q				

56+18	0.0761	0.02	Q				
56+19	0.0758	0.02	Q				
56+20	0.0754	0.02	Q				
56+21	0.0750	0.02	Q				
56+22	0.0747	0.02	Q				
56+23	0.0743	0.02	Q				
56+24	0.0740	0.02	Q				
56+25	0.0736	0.02	Q				
56+26	0.0733	0.02	Q				
56+27	0.0729	0.02	Q				
56+28	0.0726	0.02	Q				
56+29	0.0722	0.02	Q				
56+30	0.0719	0.02	Q				
56+31	0.0716	0.02	Q				
56+32	0.0712	0.02	Q				
56+33	0.0709	0.02	Q				
56+34	0.0705	0.02	Q				
56+35	0.0702	0.02	Q				
56+36	0.0699	0.02	Q				
56+37	0.0695	0.02	Q				
56+38	0.0692	0.01	Q				
56+39	0.0689	0.01	Q				
56+40	0.0686	0.01	Q				
56+41	0.0682	0.01	Q				
56+42	0.0679	0.01	Q				
56+43	0.0676	0.01	Q				
56+44	0.0673	0.01	Q				
56+45	0.0670	0.01	Q				
56+46	0.0666	0.01	Q				
56+47	0.0663	0.01	Q				
56+48	0.0660	0.01	Q				
56+49	0.0657	0.01	Q				
56+50	0.0654	0.01	Q				
56+51	0.0651	0.01	Q				
56+52	0.0648	0.01	Q				
56+53	0.0645	0.01	Q				
56+54	0.0641	0.01	Q				
56+55	0.0638	0.01	Q				
56+56	0.0635	0.01	Q				
56+57	0.0632	0.01	Q				
56+58	0.0629	0.01	Q				
56+59	0.0626	0.01	Q				
57+ 0	0.0623	0.01	Q				
57+ 1	0.0621	0.01	Q				
57+ 2	0.0618	0.01	Q				
57+ 3	0.0615	0.01	Q				
57+ 4	0.0612	0.01	Q				
57+ 5	0.0609	0.01	Q				
57+ 6	0.0606	0.01	Q				
57+ 7	0.0603	0.01	Q				
57+ 8	0.0600	0.01	Q				
57+ 9	0.0597	0.01	Q				
57+10	0.0595	0.01	Q				
57+11	0.0592	0.01	Q				
57+12	0.0589	0.01	Q				
57+13	0.0586	0.01	Q				
57+14	0.0583	0.01	Q				
57+15	0.0581	0.01	Q				
57+16	0.0578	0.01	Q				
57+17	0.0575	0.01	Q				
57+18	0.0572	0.01	Q				
57+19	0.0570	0.01	Q				
57+20	0.0567	0.01	Q				
57+21	0.0564	0.01	Q				
57+22	0.0562	0.01	Q				
57+23	0.0559	0.01	Q				
57+24	0.0556	0.01	Q				
57+25	0.0554	0.01	Q				
57+26	0.0551	0.01	Q				
57+27	0.0548	0.01	Q				
57+28	0.0546	0.01	Q				

57+29	0.0543	0.01	Q				
57+30	0.0541	0.01	Q				
57+31	0.0538	0.01	Q				
57+32	0.0536	0.01	Q				
57+33	0.0533	0.01	Q				
57+34	0.0530	0.01	Q				
57+35	0.0528	0.01	Q				
57+36	0.0525	0.01	Q				
57+37	0.0523	0.01	Q				
57+38	0.0521	0.01	Q				
57+39	0.0518	0.01	Q				
57+40	0.0516	0.01	Q				
57+41	0.0513	0.01	Q				
57+42	0.0511	0.01	Q				
57+43	0.0508	0.01	Q				
57+44	0.0506	0.01	Q				
57+45	0.0503	0.01	Q				
57+46	0.0501	0.01	Q				
57+47	0.0499	0.01	Q				
57+48	0.0496	0.01	Q				
57+49	0.0494	0.01	Q				
57+50	0.0492	0.01	Q				
57+51	0.0489	0.01	Q				
57+52	0.0487	0.01	Q				
57+53	0.0485	0.01	Q				
57+54	0.0482	0.01	Q				
57+55	0.0480	0.01	Q				
57+56	0.0478	0.01	Q				
57+57	0.0476	0.01	Q				
57+58	0.0473	0.01	Q				
57+59	0.0471	0.01	Q				
58+ 0	0.0469	0.01	Q				
58+ 1	0.0467	0.01	Q				
58+ 2	0.0464	0.01	Q				
58+ 3	0.0462	0.01	Q				
58+ 4	0.0460	0.01	Q				
58+ 5	0.0458	0.01	Q				
58+ 6	0.0456	0.01	Q				
58+ 7	0.0454	0.01	Q				
58+ 8	0.0451	0.01	Q				
58+ 9	0.0449	0.01	Q				
58+10	0.0447	0.01	Q				
58+11	0.0445	0.01	Q				
58+12	0.0443	0.01	Q				
58+13	0.0441	0.01	Q				
58+14	0.0439	0.01	Q				
58+15	0.0437	0.01	Q				
58+16	0.0435	0.01	Q				
58+17	0.0432	0.01	Q				
58+18	0.0430	0.01	Q				
58+19	0.0428	0.01	Q				
58+20	0.0426	0.01	Q				
58+21	0.0424	0.01	Q				
58+22	0.0422	0.01	Q				
58+23	0.0420	0.01	Q				
58+24	0.0418	0.01	Q				
58+25	0.0416	0.01	Q				
58+26	0.0414	0.01	Q				
58+27	0.0412	0.01	Q				
58+28	0.0410	0.01	Q				
58+29	0.0409	0.01	Q				
58+30	0.0407	0.01	Q				
58+31	0.0405	0.01	Q				
58+32	0.0403	0.01	Q				
58+33	0.0401	0.01	Q				
58+34	0.0399	0.01	Q				
58+35	0.0397	0.01	Q				
58+36	0.0395	0.01	Q				
58+37	0.0393	0.01	Q				
58+38	0.0391	0.01	Q				
58+39	0.0390	0.01	Q				

58+40	0.0388	0.01	Q				
58+41	0.0386	0.01	Q				
58+42	0.0384	0.01	Q				
58+43	0.0382	0.01	Q				
58+44	0.0380	0.01	Q				
58+45	0.0379	0.01	Q				
58+46	0.0377	0.01	Q				
58+47	0.0375	0.01	Q				
58+48	0.0373	0.01	Q				
58+49	0.0372	0.01	Q				
58+50	0.0370	0.01	Q				
58+51	0.0368	0.01	Q				
58+52	0.0366	0.01	Q				
58+53	0.0365	0.01	Q				
58+54	0.0363	0.01	Q				
58+55	0.0361	0.01	Q				
58+56	0.0359	0.01	Q				
58+57	0.0358	0.01	Q				
58+58	0.0356	0.01	Q				
58+59	0.0354	0.01	Q				
59+ 0	0.0353	0.01	Q				
59+ 1	0.0351	0.01	Q				
59+ 2	0.0349	0.01	Q				
59+ 3	0.0348	0.01	Q				
59+ 4	0.0346	0.01	Q				
59+ 5	0.0344	0.01	Q				
59+ 6	0.0343	0.01	Q				
59+ 7	0.0341	0.01	Q				
59+ 8	0.0339	0.01	Q				
59+ 9	0.0338	0.01	Q				
59+10	0.0336	0.01	Q				
59+11	0.0335	0.01	Q				
59+12	0.0333	0.01	Q				
59+13	0.0331	0.01	Q				
59+14	0.0330	0.01	Q				
59+15	0.0328	0.01	Q				
59+16	0.0327	0.01	Q				
59+17	0.0325	0.01	Q				
59+18	0.0324	0.01	Q				
59+19	0.0322	0.01	Q				
59+20	0.0321	0.01	Q				
59+21	0.0319	0.01	Q				
59+22	0.0318	0.01	Q				
59+23	0.0316	0.01	Q				
59+24	0.0315	0.01	Q				
59+25	0.0313	0.01	Q				
59+26	0.0312	0.01	Q				
59+27	0.0310	0.01	Q				
59+28	0.0309	0.01	Q				
59+29	0.0307	0.01	Q				
59+30	0.0306	0.01	Q				
59+31	0.0304	0.01	Q				
59+32	0.0303	0.01	Q				
59+33	0.0301	0.01	Q				
59+34	0.0300	0.01	Q				
59+35	0.0299	0.01	Q				
59+36	0.0297	0.01	Q				
59+37	0.0296	0.01	Q				
59+38	0.0294	0.01	Q				
59+39	0.0293	0.01	Q				
59+40	0.0292	0.01	Q				
59+41	0.0290	0.01	Q				
59+42	0.0289	0.01	Q				
59+43	0.0287	0.01	Q				
59+44	0.0286	0.01	Q				
59+45	0.0285	0.01	Q				
59+46	0.0283	0.01	Q				
59+47	0.0282	0.01	Q				
59+48	0.0281	0.01	Q				
59+49	0.0279	0.01	Q				
59+50	0.0278	0.01	Q				

59+51	0.0277	0.01	Q				
59+52	0.0275	0.01	Q				
59+53	0.0274	0.01	Q				
59+54	0.0273	0.01	Q				
59+55	0.0272	0.01	Q				
59+56	0.0270	0.01	Q				
59+57	0.0269	0.01	Q				
59+58	0.0268	0.01	Q				
59+59	0.0266	0.01	Q				
60+ 0	0.0265	0.01	Q				
60+ 1	0.0264	0.01	Q				
60+ 2	0.0263	0.01	Q				
60+ 3	0.0261	0.01	Q				
60+ 4	0.0260	0.01	Q				
60+ 5	0.0259	0.01	Q				
60+ 6	0.0258	0.01	Q				
60+ 7	0.0256	0.01	Q				
60+ 8	0.0255	0.01	Q				
60+ 9	0.0254	0.01	Q				
60+10	0.0253	0.01	Q				
60+11	0.0252	0.01	Q				
60+12	0.0250	0.01	Q				
60+13	0.0249	0.01	Q				
60+14	0.0248	0.01	Q				
60+15	0.0247	0.01	Q				
60+16	0.0246	0.01	Q				
60+17	0.0245	0.01	Q				
60+18	0.0243	0.01	Q				
60+19	0.0242	0.01	Q				
60+20	0.0241	0.01	Q				
60+21	0.0240	0.01	Q				
60+22	0.0239	0.01	Q				
60+23	0.0238	0.01	Q				
60+24	0.0237	0.01	Q				
60+25	0.0235	0.01	Q				
60+26	0.0234	0.01	Q				
60+27	0.0233	0.01	Q				
60+28	0.0232	0.01	Q				
60+29	0.0231	0.00	Q				
60+30	0.0230	0.00	Q				
60+31	0.0229	0.00	Q				
60+32	0.0228	0.00	Q				
60+33	0.0227	0.00	Q				
60+34	0.0226	0.00	Q				
60+35	0.0225	0.00	Q				
60+36	0.0223	0.00	Q				
60+37	0.0222	0.00	Q				
60+38	0.0221	0.00	Q				
60+39	0.0220	0.00	Q				
60+40	0.0219	0.00	Q				
60+41	0.0218	0.00	Q				
60+42	0.0217	0.00	Q				
60+43	0.0216	0.00	Q				
60+44	0.0215	0.00	Q				
60+45	0.0214	0.00	Q				
60+46	0.0213	0.00	Q				
60+47	0.0212	0.00	Q				
60+48	0.0211	0.00	Q				
60+49	0.0210	0.00	Q				
60+50	0.0209	0.00	Q				
60+51	0.0208	0.00	Q				
60+52	0.0207	0.00	Q				
60+53	0.0206	0.00	Q				
60+54	0.0205	0.00	Q				
60+55	0.0204	0.00	Q				
60+56	0.0203	0.00	Q				
60+57	0.0202	0.00	Q				
60+58	0.0201	0.00	Q				
60+59	0.0200	0.00	Q				
61+ 0	0.0199	0.00	Q				
61+ 1	0.0198	0.00	Q				

61+ 2	0.0198	0.00	Q				
61+ 3	0.0197	0.00	Q				
61+ 4	0.0196	0.00	Q				
61+ 5	0.0195	0.00	Q				
61+ 6	0.0194	0.00	Q				
61+ 7	0.0193	0.00	Q				
61+ 8	0.0192	0.00	Q				
61+ 9	0.0191	0.00	Q				
61+10	0.0190	0.00	Q				
61+11	0.0189	0.00	Q				
61+12	0.0188	0.00	Q				
61+13	0.0187	0.00	Q				
61+14	0.0187	0.00	Q				
61+15	0.0186	0.00	Q				
61+16	0.0185	0.00	Q				
61+17	0.0184	0.00	Q				
61+18	0.0183	0.00	Q				
61+19	0.0182	0.00	Q				
61+20	0.0181	0.00	Q				
61+21	0.0180	0.00	Q				
61+22	0.0180	0.00	Q				
61+23	0.0179	0.00	Q				
61+24	0.0178	0.00	Q				
61+25	0.0177	0.00	Q				
61+26	0.0176	0.00	Q				
61+27	0.0175	0.00	Q				
61+28	0.0175	0.00	Q				
61+29	0.0174	0.00	Q				
61+30	0.0173	0.00	Q				
61+31	0.0172	0.00	Q				
61+32	0.0171	0.00	Q				
61+33	0.0170	0.00	Q				
61+34	0.0170	0.00	Q				
61+35	0.0169	0.00	Q				
61+36	0.0168	0.00	Q				
61+37	0.0167	0.00	Q				
61+38	0.0166	0.00	Q				
61+39	0.0166	0.00	Q				
61+40	0.0165	0.00	Q				
61+41	0.0164	0.00	Q				
61+42	0.0163	0.00	Q				
61+43	0.0163	0.00	Q				
61+44	0.0162	0.00	Q				
61+45	0.0161	0.00	Q				
61+46	0.0160	0.00	Q				
61+47	0.0160	0.00	Q				
61+48	0.0159	0.00	Q				
61+49	0.0158	0.00	Q				
61+50	0.0157	0.00	Q				
61+51	0.0157	0.00	Q				
61+52	0.0156	0.00	Q				
61+53	0.0155	0.00	Q				
61+54	0.0154	0.00	Q				
61+55	0.0154	0.00	Q				
61+56	0.0153	0.00	Q				
61+57	0.0152	0.00	Q				
61+58	0.0151	0.00	Q				
61+59	0.0151	0.00	Q				
62+ 0	0.0150	0.00	Q				
62+ 1	0.0149	0.00	Q				
62+ 2	0.0149	0.00	Q				
62+ 3	0.0148	0.00	Q				
62+ 4	0.0147	0.00	Q				
62+ 5	0.0146	0.00	Q				
62+ 6	0.0146	0.00	Q				
62+ 7	0.0145	0.00	Q				
62+ 8	0.0144	0.00	Q				
62+ 9	0.0144	0.00	Q				
62+10	0.0143	0.00	Q				
62+11	0.0142	0.00	Q				
62+12	0.0142	0.00	Q				

62+13	0.0141	0.00	Q				
62+14	0.0140	0.00	Q				
62+15	0.0140	0.00	Q				
62+16	0.0139	0.00	Q				
62+17	0.0138	0.00	Q				
62+18	0.0138	0.00	Q				
62+19	0.0137	0.00	Q				
62+20	0.0136	0.00	Q				
62+21	0.0136	0.00	Q				
62+22	0.0135	0.00	Q				
62+23	0.0134	0.00	Q				
62+24	0.0134	0.00	Q				
62+25	0.0133	0.00	Q				
62+26	0.0133	0.00	Q				
62+27	0.0132	0.00	Q				
62+28	0.0131	0.00	Q				
62+29	0.0131	0.00	Q				
62+30	0.0130	0.00	Q				
62+31	0.0129	0.00	Q				
62+32	0.0129	0.00	Q				
62+33	0.0128	0.00	Q				
62+34	0.0128	0.00	Q				
62+35	0.0127	0.00	Q				
62+36	0.0126	0.00	Q				
62+37	0.0126	0.00	Q				
62+38	0.0125	0.00	Q				
62+39	0.0125	0.00	Q				
62+40	0.0124	0.00	Q				
62+41	0.0123	0.00	Q				
62+42	0.0123	0.00	Q				
62+43	0.0122	0.00	Q				
62+44	0.0122	0.00	Q				
62+45	0.0121	0.00	Q				
62+46	0.0121	0.00	Q				
62+47	0.0120	0.00	Q				
62+48	0.0119	0.00	Q				
62+49	0.0119	0.00	Q				
62+50	0.0118	0.00	Q				
62+51	0.0118	0.00	Q				
62+52	0.0117	0.00	Q				
62+53	0.0117	0.00	Q				
62+54	0.0116	0.00	Q				
62+55	0.0115	0.00	Q				
62+56	0.0115	0.00	Q				
62+57	0.0114	0.00	Q				
62+58	0.0114	0.00	Q				
62+59	0.0113	0.00	Q				
63+ 0	0.0113	0.00	Q				
63+ 1	0.0112	0.00	Q				
63+ 2	0.0112	0.00	Q				
63+ 3	0.0111	0.00	Q				
63+ 4	0.0111	0.00	Q				
63+ 5	0.0110	0.00	Q				
63+ 6	0.0110	0.00	Q				
63+ 7	0.0109	0.00	Q				
63+ 8	0.0109	0.00	Q				
63+ 9	0.0108	0.00	Q				
63+10	0.0108	0.00	Q				
63+11	0.0107	0.00	Q				
63+12	0.0107	0.00	Q				
63+13	0.0106	0.00	Q				
63+14	0.0106	0.00	Q				
63+15	0.0105	0.00	Q				
63+16	0.0105	0.00	Q				
63+17	0.0104	0.00	Q				
63+18	0.0104	0.00	Q				
63+19	0.0103	0.00	Q				
63+20	0.0103	0.00	Q				
63+21	0.0102	0.00	Q				
63+22	0.0102	0.00	Q				
63+23	0.0101	0.00	Q				

63+24	0.0101	0.00	Q				
63+25	0.0100	0.00	Q				
63+26	0.0100	0.00	Q				
63+27	0.0099	0.00	Q				
63+28	0.0099	0.00	Q				
63+29	0.0098	0.00	Q				
63+30	0.0098	0.00	Q				
63+31	0.0097	0.00	Q				
63+32	0.0097	0.00	Q				
63+33	0.0096	0.00	Q				
63+34	0.0096	0.00	Q				
63+35	0.0096	0.00	Q				
63+36	0.0095	0.00	Q				
63+37	0.0095	0.00	Q				
63+38	0.0094	0.00	Q				
63+39	0.0094	0.00	Q				
63+40	0.0093	0.00	Q				
63+41	0.0093	0.00	Q				
63+42	0.0092	0.00	Q				
63+43	0.0092	0.00	Q				
63+44	0.0092	0.00	Q				
63+45	0.0091	0.00	Q				
63+46	0.0091	0.00	Q				
63+47	0.0090	0.00	Q				
63+48	0.0090	0.00	Q				
63+49	0.0089	0.00	Q				
63+50	0.0089	0.00	Q				
63+51	0.0089	0.00	Q				
63+52	0.0088	0.00	Q				
63+53	0.0088	0.00	Q				
63+54	0.0087	0.00	Q				
63+55	0.0087	0.00	Q				
63+56	0.0086	0.00	Q				
63+57	0.0086	0.00	Q				
63+58	0.0086	0.00	Q				
63+59	0.0085	0.00	Q				
64+ 0	0.0085	0.00	Q				
64+ 1	0.0084	0.00	Q				
64+ 2	0.0084	0.00	Q				
64+ 3	0.0084	0.00	Q				
64+ 4	0.0083	0.00	Q				
64+ 5	0.0083	0.00	Q				
64+ 6	0.0082	0.00	Q				
64+ 7	0.0082	0.00	Q				
64+ 8	0.0082	0.00	Q				
64+ 9	0.0081	0.00	Q				
64+10	0.0081	0.00	Q				
64+11	0.0080	0.00	Q				
64+12	0.0080	0.00	Q				
64+13	0.0080	0.00	Q				
64+14	0.0079	0.00	Q				
64+15	0.0079	0.00	Q				
64+16	0.0079	0.00	Q				
64+17	0.0078	0.00	Q				
64+18	0.0078	0.00	Q				
64+19	0.0077	0.00	Q				
64+20	0.0077	0.00	Q				
64+21	0.0077	0.00	Q				
64+22	0.0076	0.00	Q				
64+23	0.0076	0.00	Q				
64+24	0.0076	0.00	Q				
64+25	0.0075	0.00	Q				
64+26	0.0075	0.00	Q				
64+27	0.0075	0.00	Q				
64+28	0.0074	0.00	Q				
64+29	0.0074	0.00	Q				
64+30	0.0074	0.00	Q				
64+31	0.0073	0.00	Q				
64+32	0.0073	0.00	Q				
64+33	0.0073	0.00	Q				
64+34	0.0072	0.00	Q				

64+35	0.0072	0.00	Q				
64+36	0.0071	0.00	Q				
64+37	0.0071	0.00	Q				
64+38	0.0071	0.00	Q				
64+39	0.0070	0.00	Q				
64+40	0.0070	0.00	Q				
64+41	0.0070	0.00	Q				
64+42	0.0069	0.00	Q				
64+43	0.0069	0.00	Q				
64+44	0.0069	0.00	Q				
64+45	0.0068	0.00	Q				
64+46	0.0068	0.00	Q				
64+47	0.0068	0.00	Q				
64+48	0.0068	0.00	Q				
64+49	0.0067	0.00	Q				
64+50	0.0067	0.00	Q				
64+51	0.0067	0.00	Q				
64+52	0.0066	0.00	Q				
64+53	0.0066	0.00	Q				
64+54	0.0066	0.00	Q				
64+55	0.0065	0.00	Q				
64+56	0.0065	0.00	Q				
64+57	0.0065	0.00	Q				
64+58	0.0064	0.00	Q				
64+59	0.0064	0.00	Q				
65+ 0	0.0064	0.00	Q				
65+ 1	0.0063	0.00	Q				
65+ 2	0.0063	0.00	Q				
65+ 3	0.0063	0.00	Q				
65+ 4	0.0063	0.00	Q				
65+ 5	0.0062	0.00	Q				
65+ 6	0.0062	0.00	Q				
65+ 7	0.0062	0.00	Q				
65+ 8	0.0061	0.00	Q				
65+ 9	0.0061	0.00	Q				
65+10	0.0061	0.00	Q				
65+11	0.0061	0.00	Q				
65+12	0.0060	0.00	Q				
65+13	0.0060	0.00	Q				
65+14	0.0060	0.00	Q				
65+15	0.0059	0.00	Q				
65+16	0.0059	0.00	Q				
65+17	0.0059	0.00	Q				
65+18	0.0059	0.00	Q				
65+19	0.0058	0.00	Q				
65+20	0.0058	0.00	Q				
65+21	0.0058	0.00	Q				
65+22	0.0057	0.00	Q				
65+23	0.0057	0.00	Q				
65+24	0.0057	0.00	Q				
65+25	0.0057	0.00	Q				
65+26	0.0056	0.00	Q				
65+27	0.0056	0.00	Q				
65+28	0.0056	0.00	Q				
65+29	0.0056	0.00	Q				
65+30	0.0055	0.00	Q				
65+31	0.0055	0.00	Q				
65+32	0.0055	0.00	Q				
65+33	0.0055	0.00	Q				
65+34	0.0054	0.00	Q				
65+35	0.0054	0.00	Q				
65+36	0.0054	0.00	Q				
65+37	0.0054	0.00	Q				
65+38	0.0053	0.00	Q				
65+39	0.0053	0.00	Q				
65+40	0.0053	0.00	Q				
65+41	0.0052	0.00	Q				
65+42	0.0052	0.00	Q				
65+43	0.0052	0.00	Q				
65+44	0.0052	0.00	Q				
65+45	0.0052	0.00	Q				

65+46	0.0051	0.00	Q				
65+47	0.0051	0.00	Q				
65+48	0.0051	0.00	Q				
65+49	0.0051	0.00	Q				
65+50	0.0050	0.00	Q				
65+51	0.0050	0.00	Q				
65+52	0.0050	0.00	Q				
65+53	0.0050	0.00	Q				
65+54	0.0049	0.00	Q				
65+55	0.0049	0.00	Q				
65+56	0.0049	0.00	Q				
65+57	0.0049	0.00	Q				
65+58	0.0048	0.00	Q				
65+59	0.0048	0.00	Q				
66+ 0	0.0048	0.00	Q				
66+ 1	0.0000	0.00	Q				
66+ 2	0.0000	0.00	Q				
66+ 3	0.0000	0.00	Q				
66+ 4	0.0000	0.00	Q				
66+ 5	0.0000	0.00	Q				
66+ 6	0.0000	0.00	Q				
66+ 7	0.0000	0.00	Q				
66+ 8	0.0000	0.00	Q				

```

*****HYDROGRAPH DATA*****
      Number of intervals = 3968
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 8.633 (CFS)
      Total volume = 9.268 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000 0.000
*****

```

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+++++
Process from Point/Station 704.000 to Point/Station 1.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

```

```

Current stream hydrograph of 1.0 minute
intervals has been stored as stream number 1 with
a starting time of 0.00 hours and ending time of 66.00 hours
With a total volume of 9.27(Ac.Ft)
*****HYDROGRAPH DATA*****
      Number of intervals = 0
      Time interval = 0.0 (Min.)
      Maximum/Peak flow rate = 0.000 (CFS)
      Total volume = 0.000 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 8.633 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 9.268 0.000 0.000 0.000 0.000 0.000
*****

```

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+++++
Process from Point/Station 709.000 to Point/Station 1.000
**** ADD/COMBINE/RECOVER HYDROGRAPHS ****

```

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***** HYDROGRAPH INFORMATION *****

```

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      From study/file name: 100160rtebas3POC1.rte
+++++
      P R I N T   O F   S T O R M
      R u n o f f       H y d r o g r a p h

```

Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	11.0	21.9	32.9	43.9
0+ 1	0.0000	0.00	Q				
0+ 2	0.0000	0.00	Q				
0+ 3	0.6287	0.69	Q				
0+ 4	1.4687	1.61	IQ				
0+ 5	1.6693	1.83	IQ				
0+ 6	1.7172	1.88	IQ				
0+ 7	1.7286	1.90	IQ				
0+ 8	1.7314	1.90	IQ				
0+ 9	1.7320	1.90	IQ				
0+10	1.7322	1.90	IQ				
0+11	1.7322	1.90	IQ				
0+12	1.7373	1.91	IQ				
0+13	1.7492	1.92	IQ				
0+14	1.7627	1.93	IQ				
0+15	1.7764	1.95	IQ				
0+16	1.7902	1.96	IQ				
0+17	1.8038	1.98	IQ				
0+18	1.8175	1.99	IQ				
0+19	1.8311	2.01	IQ				
0+20	1.8447	2.02	IQ				
0+21	1.8583	2.04	IQ				
0+22	1.8718	2.05	IQ				
0+23	1.8854	2.07	IQ				
0+24	1.8989	2.08	IQ				
0+25	1.9123	2.10	IQ				
0+26	1.9257	2.11	IQ				
0+27	1.9390	2.13	IQ				
0+28	1.9522	2.14	IQ				
0+29	1.9653	2.16	IQ				
0+30	1.9783	2.17	IQ				
0+31	1.9913	2.18	IQ				
0+32	2.0043	2.20	IQ				
0+33	2.0173	2.21	IQ				
0+34	2.0302	2.23	IQ				
0+35	2.0432	2.24	IQ				
0+36	2.0561	2.26	IQ				
0+37	2.0691	2.27	IQ				
0+38	2.0820	2.28	IQ				
0+39	2.0949	2.30	IQ				
0+40	2.1077	2.31	IQ				
0+41	2.1205	2.33	IQ				
0+42	2.1332	2.34	IQ				
0+43	2.1459	2.35	IQ				
0+44	2.1584	2.37	IQ				
0+45	2.1710	2.38	IQ				
0+46	2.1835	2.39	IQ				
0+47	2.1960	2.41	IQ				
0+48	2.2086	2.42	IQ				
0+49	2.2212	2.44	IQ				
0+50	2.2338	2.45	IQ				
0+51	2.2464	2.46	IQ				
0+52	2.2590	2.48	IQ				
0+53	2.2716	2.49	IQ				
0+54	2.2841	2.51	IQ				
0+55	2.2966	2.52	IQ				
0+56	2.3091	2.53	IQ				
0+57	2.3215	2.55	IQ				
0+58	2.3338	2.56	IQ				
0+59	2.3461	2.57	IQ				
1+ 0	2.3585	2.59	IQ				
1+ 1	2.3708	2.60	IQ				
1+ 2	2.3832	2.61	IQ				
1+ 3	2.3956	2.63	IQ				
1+ 4	2.4081	2.64	IQ				
1+ 5	2.4206	2.66	IQ				
1+ 6	2.4332	2.67	IQ				

1+ 7	2.4457	2.68	Q					
1+ 8	2.4582	2.70	Q					
1+ 9	2.4707	2.71	Q					
1+10	2.4831	2.72	Q					
1+11	2.4955	2.74	Q					
1+12	2.5078	2.75	Q					
1+13	2.5202	2.76	Q					
1+14	2.5325	2.78	Q					
1+15	2.5449	2.79	Q					
1+16	2.5574	2.81	Q					
1+17	2.5699	2.82	Q					
1+18	2.5826	2.83	Q					
1+19	2.5952	2.85	Q					
1+20	2.6080	2.86	Q					
1+21	2.6207	2.87	Q					
1+22	2.6334	2.89	Q					
1+23	2.6461	2.90	Q					
1+24	2.6587	2.92	Q					
1+25	2.6714	2.93	Q					
1+26	2.6839	2.94	Q					
1+27	2.6965	2.96	Q					
1+28	2.7092	2.97	Q					
1+29	2.7219	2.99	Q					
1+30	2.7347	3.00	Q					
1+31	2.7476	3.01	Q					
1+32	2.7606	3.03	Q					
1+33	2.7737	3.04	Q					
1+34	2.7869	3.06	Q					
1+35	2.8001	3.07	Q					
1+36	2.8133	3.09	Q					
1+37	2.8264	3.10	Q					
1+38	2.8396	3.11	Q					
1+39	2.8527	3.13	Q					
1+40	2.8659	3.14	Q					
1+41	2.8790	3.16	Q					
1+42	2.8922	3.17	Q					
1+43	2.9055	3.19	Q					
1+44	2.9190	3.20	Q					
1+45	2.9325	3.22	Q					
1+46	2.9462	3.23	Q					
1+47	2.9601	3.25	Q					
1+48	2.9740	3.26	Q					
1+49	2.9880	3.28	Q					
1+50	3.0019	3.29	Q					
1+51	3.0159	3.31	Q					
1+52	3.0299	3.32	Q					
1+53	3.0439	3.34	Q					
1+54	3.0578	3.35	Q					
1+55	3.0718	3.37	Q					
1+56	3.0859	3.38	Q					
1+57	3.1002	3.40	Q					
1+58	3.1146	3.42	Q					
1+59	3.1292	3.43	Q					
2+ 0	3.1439	3.45	Q					
2+ 1	3.1589	3.46	Q					
2+ 2	3.1739	3.48	Q					
2+ 3	3.1890	3.50	Q					
2+ 4	3.2042	3.51	Q					
2+ 5	3.2194	3.53	Q					
2+ 6	3.2346	3.55	Q					
2+ 7	3.2498	3.56	Q					
2+ 8	3.2650	3.58	Q					
2+ 9	3.2802	3.60	Q					
2+10	3.2956	3.61	Q					
2+11	3.3112	3.63	Q					
2+12	3.3271	3.65	Q					
2+13	3.3431	3.67	Q					
2+14	3.3594	3.68	Q					
2+15	3.3759	3.70	Q					
2+16	3.3925	3.72	Q					
2+17	3.4093	3.74	Q					

2+18	3.4261	3.76	Q						
2+19	3.4430	3.78	Q						
2+20	3.4599	3.80	Q						
2+21	3.4768	3.81	Q						
2+22	3.4938	3.83	Q						
2+23	3.5108	3.85	Q						
2+24	3.5281	3.87	Q						
2+25	3.5456	3.89	Q						
2+26	3.5634	3.91	Q						
2+27	3.5815	3.93	Q						
2+28	3.5999	3.95	Q						
2+29	3.6186	3.97	Q						
2+30	3.6376	3.99	Q						
2+31	3.6566	4.01	Q						
2+32	3.6758	4.03	Q						
2+33	3.6951	4.05	Q						
2+34	3.7144	4.07	Q						
2+35	3.7337	4.10	Q						
2+36	3.7532	4.12	Q						
2+37	3.7727	4.14	Q						
2+38	3.7926	4.16	Q						
2+39	3.8128	4.18	Q						
2+40	3.8334	4.20	Q						
2+41	3.8544	4.23	Q						
2+42	3.8759	4.25	Q						
2+43	3.8977	4.28	Q						
2+44	3.9198	4.30	Q						
2+45	3.9422	4.32	Q						
2+46	3.9647	4.35	Q						
2+47	3.9873	4.37	Q						
2+48	4.0101	4.40	Q						
2+49	4.0329	4.42	Q						
2+50	4.0559	4.45	Q						
2+51	4.0791	4.47	Q						
2+52	4.1026	4.50	Q						
2+53	4.1268	4.53	Q						
2+54	4.1514	4.55	Q						
2+55	4.1767	4.58	Q						
2+56	4.2025	4.61	Q						
2+57	4.2288	4.64	Q						
2+58	4.2557	4.67	Q						
2+59	4.2829	4.70	Q						
3+ 0	4.3103	4.73	Q						
3+ 1	4.3380	4.76	Q						
3+ 2	4.3658	4.79	Q						
3+ 3	4.3938	4.82	Q						
3+ 4	4.4220	4.85	Q						
3+ 5	4.4505	4.88	Q						
3+ 6	4.4797	4.91	Q						
3+ 7	4.5096	4.95	Q						
3+ 8	4.5404	4.98	Q						
3+ 9	4.5721	5.01	Q						
3+10	4.6046	5.05	Q						
3+11	4.6380	5.09	Q						
3+12	4.6721	5.12	Q						
3+13	4.7068	5.16	Q						
3+14	4.7419	5.20	Q						
3+15	4.7773	5.24	Q						
3+16	4.8132	5.28	Q						
3+17	4.8493	5.32	Q						
3+18	4.8858	5.36	Q						
3+19	4.9228	5.40	Q						
3+20	4.9609	5.44	Q						
3+21	5.0004	5.48	Q						
3+22	5.0413	5.53	Q						
3+23	5.0836	5.58	Q						
3+24	5.1274	5.62	Q						
3+25	5.1726	5.67	Q						
3+26	5.2190	5.72	Q						
3+27	5.2665	5.78	Q						
3+28	5.3148	5.83	Q						

3+29	5.3638	5.88	Q						
3+30	5.4135	5.94	Q						
3+31	5.4640	5.99	Q						
3+32	5.5151	6.05	Q						
3+33	5.5717	6.11	Q						
3+34	5.6366	6.18	Q						
3+35	5.7065	6.26	Q						
3+36	5.7802	6.34	Q						
3+37	5.8575	6.42	Q						
3+38	5.9381	6.51	Q						
3+39	6.0221	6.61	Q						
3+40	6.1092	6.70	Q						
3+41	6.1990	6.80	Q						
3+42	6.2910	6.90	Q						
3+43	6.3851	7.00	Q						
3+44	6.4814	7.11	Q						
3+45	6.5798	7.22	Q						
3+46	6.6802	7.33	Q						
3+47	6.7844	7.44	Q						
3+48	6.8964	7.56	Q						
3+49	7.0191	7.70	Q						
3+50	7.1528	7.85	Q						
3+51	7.2978	8.00	Q						
3+52	7.4537	8.18	Q						
3+53	7.6206	8.36	Q						
3+54	7.7990	8.55	Q						
3+55	7.9901	8.76	Q						
3+56	8.1950	8.99	Q						
3+57	8.4138	9.23	Q						
3+58	8.6462	9.48	Q						
3+59	8.8923	9.75	Q						
4+ 0	9.1516	10.04	Q						
4+ 1	9.4496	10.36	Q						
4+ 2	9.8452	10.80	Q						
4+ 3	10.3791	11.38	Q						
4+ 4	11.0595	12.13	Q						
4+ 5	11.8868	13.04	Q						
4+ 6	13.4561	14.76	Q						
4+ 7	17.5217	19.22	Q						
4+ 8	23.7105	26.01	Q						
4+ 9	29.5658	32.43	Q						
4+10	34.1705	37.48	Q						
4+11	37.4002	41.02	Q						
4+12	39.3122	43.12	Q						
4+13	40.0000	43.87	Q						
4+14	39.5595	43.39	Q						
4+15	38.2643	41.97	Q						
4+16	36.6113	40.16	Q						
4+17	34.9327	38.32	Q						
4+18	33.3028	36.53	Q						
4+19	31.7351	34.81	Q						
4+20	30.2286	33.16	Q						
4+21	28.7794	31.57	Q						
4+22	27.3897	30.04	Q						
4+23	26.0698	28.59	Q						
4+24	24.8250	27.23	Q						
4+25	23.6517	25.94	Q						
4+26	22.5449	24.73	Q						
4+27	21.4992	23.58	Q						
4+28	20.5099	22.50	Q						
4+29	19.5743	21.47	Q						
4+30	18.6933	20.50	Q						
4+31	17.8659	19.60	Q						
4+32	17.0886	18.74	Q						
4+33	16.3575	17.94	Q						
4+34	15.6691	17.19	Q						
4+35	15.0198	16.47	Q						
4+36	14.4074	15.80	Q						
4+37	13.8425	15.18	Q						
4+38	13.4708	14.78	Q						
4+39	13.3153	14.61	Q						

4+40	13.2111	14.49		Q			
4+41	13.1185	14.39		Q			
4+42	13.0283	14.29		Q			
4+43	12.9382	14.19		Q			
4+44	12.8480	14.09		Q			
4+45	12.7576	13.99		Q			
4+46	12.6671	13.89		Q			
4+47	12.5765	13.79		Q			
4+48	12.4858	13.70		Q			
4+49	12.3950	13.60		Q			
4+50	12.3041	13.50		Q			
4+51	12.2133	13.40		Q			
4+52	12.1227	13.30		Q			
4+53	12.0323	13.20		Q			
4+54	11.9421	13.10		Q			
4+55	11.8521	13.00		Q			
4+56	11.7623	12.90		Q			
4+57	11.6728	12.80		Q			
4+58	11.5835	12.71		Q			
4+59	11.4946	12.61		Q			
5+ 0	11.4062	12.51		Q			
5+ 1	11.3181	12.41		Q			
5+ 2	11.2304	12.32		Q			
5+ 3	11.1431	12.22		Q			
5+ 4	11.0562	12.13		Q			
5+ 5	10.9697	12.03		Q			
5+ 6	10.8838	11.94		Q			
5+ 7	10.7983	11.84		Q			
5+ 8	10.7134	11.75		Q			
5+ 9	10.6289	11.66		Q			
5+10	10.5449	11.57		Q			
5+11	10.4615	11.47		Q			
5+12	10.3785	11.38		Q			
5+13	10.2962	11.29		Q			
5+14	10.2144	11.20		Q			
5+15	10.1331	11.11		Q			
5+16	10.0524	11.03		Q			
5+17	9.9723	10.94		Q			
5+18	9.8927	10.85		Q			
5+19	9.8137	10.76		Q			
5+20	9.7353	10.68		Q			
5+21	9.6575	10.59		Q			
5+22	9.5802	10.51		Q			
5+23	9.5036	10.42		Q			
5+24	9.4275	10.34		Q			
5+25	9.3520	10.26		Q			
5+26	9.2771	10.18		Q			
5+27	9.2028	10.09		Q			
5+28	9.1291	10.01		Q			
5+29	9.0561	9.93		Q			
5+30	8.9836	9.85		Q			
5+31	8.9116	9.77		Q			
5+32	8.8403	9.70		Q			
5+33	8.7696	9.62		Q			
5+34	8.6995	9.54		Q			
5+35	8.6299	9.47		Q			
5+36	8.5610	9.39		Q			
5+37	8.4926	9.32		Q			
5+38	8.4249	9.24		Q			
5+39	8.3577	9.17		Q			
5+40	8.2911	9.09		Q			
5+41	8.2250	9.02		Q			
5+42	8.1596	8.95		Q			
5+43	8.0948	8.88		Q			
5+44	8.0305	8.81		Q			
5+45	7.9668	8.74		Q			
5+46	7.9036	8.67		Q			
5+47	7.8410	8.60		Q			
5+48	7.7790	8.53		Q			
5+49	7.7175	8.47		Q			
5+50	7.6567	8.40		Q			

5+51	7.5963	8.33		Q					
5+52	7.5365	8.27		Q					
5+53	7.4773	8.20		Q					
5+54	7.4186	8.14		Q					
5+55	7.3604	8.07		Q					
5+56	7.3028	8.01		Q					
5+57	7.2457	7.95		Q					
5+58	7.1892	7.89		Q					
5+59	7.1331	7.82		Q					
6+ 0	7.0776	7.76		Q					
6+ 1	7.0226	7.70		Q					
6+ 2	6.9682	7.64		Q					
6+ 3	6.9142	7.58		Q					
6+ 4	6.8608	7.53		Q					
6+ 5	6.8079	7.47		Q					
6+ 6	6.7554	7.41		Q					
6+ 7	6.6962	7.34		Q					
6+ 8	6.6206	7.26		Q					
6+ 9	6.5338	7.17		Q					
6+10	6.4453	7.07		Q					
6+11	6.3574	6.97		Q					
6+12	6.2705	6.88		Q					
6+13	6.1847	6.78		Q					
6+14	6.1001	6.69		Q					
6+15	6.0166	6.60		Q					
6+16	5.9343	6.51		Q					
6+17	5.8532	6.42		Q					
6+18	5.7731	6.33		Q					
6+19	5.6941	6.25		Q					
6+20	5.6169	6.16		Q					
6+21	5.5462	6.08		Q					
6+22	5.4829	6.01		Q					
6+23	5.4217	5.95		Q					
6+24	5.3616	5.88		Q					
6+25	5.3023	5.82		Q					
6+26	5.2436	5.75		Q					
6+27	5.1856	5.69		Q					
6+28	5.1282	5.62		Q					
6+29	5.0715	5.56		Q					
6+30	5.0154	5.50		Q					
6+31	4.9599	5.44		Q					
6+32	4.9050	5.38		Q					
6+33	4.8507	5.32		Q					
6+34	4.7971	5.26		Q					
6+35	4.7440	5.20		Q					
6+36	4.6915	5.15		Q					
6+37	4.6396	5.09		Q					
6+38	4.5883	5.03		Q					
6+39	4.5375	4.98		Q					
6+40	4.4873	4.92		Q					
6+41	4.4377	4.87		Q					
6+42	4.3886	4.81		Q					
6+43	4.3400	4.76		Q					
6+44	4.2920	4.71		Q					
6+45	4.2445	4.66		Q					
6+46	4.1975	4.60		Q					
6+47	4.1511	4.55		Q					
6+48	4.1052	4.50		Q					
6+49	4.0598	4.45		Q					
6+50	4.0148	4.40		Q					
6+51	3.9704	4.35		Q					
6+52	3.9265	4.31		Q					
6+53	3.8831	4.26		Q					
6+54	3.8401	4.21		Q					
6+55	3.7976	4.17		Q					
6+56	3.7556	4.12		Q					
6+57	3.7140	4.07		Q					
6+58	3.6729	4.03		Q					
6+59	3.6323	3.98		Q					
7+ 0	3.5921	3.94		Q					
7+ 1	3.5524	3.90		Q					

7+ 2	3.5131	3.85	Q					
7+ 3	3.4742	3.81	Q					
7+ 4	3.4358	3.77	Q					
7+ 5	3.3978	3.73	Q					
7+ 6	3.3602	3.69	Q					
7+ 7	3.3230	3.64	Q					
7+ 8	3.2862	3.60	Q					
7+ 9	3.2499	3.56	Q					
7+10	3.2139	3.53	Q					
7+11	3.1784	3.49	Q					
7+12	3.1432	3.45	Q					
7+13	3.1084	3.41	Q					
7+14	3.0740	3.37	Q					
7+15	3.0400	3.33	Q					
7+16	3.0064	3.30	Q					
7+17	2.9731	3.26	Q					
7+18	2.9402	3.23	Q					
7+19	2.9077	3.19	Q					
7+20	2.8755	3.15	Q					
7+21	2.8437	3.12	Q					
7+22	2.8123	3.08	Q					
7+23	2.7811	3.05	Q					
7+24	2.7504	3.02	Q					
7+25	2.7199	2.98	Q					
7+26	2.6898	2.95	Q					
7+27	2.6601	2.92	Q					
7+28	2.6307	2.89	Q					
7+29	2.6016	2.85	Q					
7+30	2.5728	2.82	Q					
7+31	2.5443	2.79	Q					
7+32	2.5162	2.76	Q					
7+33	2.4883	2.73	Q					
7+34	2.4608	2.70	Q					
7+35	2.4336	2.67	Q					
7+36	2.4066	2.64	Q					
7+37	2.3800	2.61	Q					
7+38	2.3537	2.58	Q					
7+39	2.3276	2.55	Q					
7+40	2.3019	2.52	Q					
7+41	2.2764	2.50	Q					
7+42	2.2512	2.47	Q					
7+43	2.2263	2.44	Q					
7+44	2.2017	2.41	Q					
7+45	2.1773	2.39	Q					
7+46	2.1532	2.36	Q					
7+47	2.1294	2.34	Q					
7+48	2.1059	2.31	Q					
7+49	2.0826	2.28	Q					
7+50	2.0595	2.26	Q					
7+51	2.0367	2.23	Q					
7+52	2.0142	2.21	Q					
7+53	1.9919	2.18	Q					
7+54	1.9699	2.16	Q					
7+55	1.9481	2.14	Q					
7+56	1.9265	2.11	Q					
7+57	1.9052	2.09	Q					
7+58	1.8841	2.07	Q					
7+59	1.8633	2.04	Q					
8+ 0	1.8427	2.02	Q					
8+ 1	1.8223	2.00	Q					
8+ 2	1.8021	1.98	Q					
8+ 3	1.7822	1.95	Q					
8+ 4	1.7625	1.93	Q					
8+ 5	1.7450	1.91	Q					
8+ 6	1.7353	1.90	Q					
8+ 7	1.7330	1.90	Q					
8+ 8	1.7324	1.90	Q					
8+ 9	1.7323	1.90	Q					
8+10	1.7322	1.90	Q					
8+11	1.7322	1.90	Q					
8+12	1.7322	1.90	Q					

9+24	1.7322	1.90	Q				
9+25	1.7322	1.90	Q				
9+26	1.7322	1.90	Q				
9+27	1.7322	1.90	Q				
9+28	1.7322	1.90	Q				
9+29	1.7322	1.90	Q				
9+30	1.7322	1.90	Q				
9+31	1.7322	1.90	Q				
9+32	1.7322	1.90	Q				
9+33	1.7322	1.90	Q				
9+34	1.7322	1.90	Q				
9+35	1.7322	1.90	Q				
9+36	1.7322	1.90	Q				
9+37	1.7322	1.90	Q				
9+38	1.7322	1.90	Q				
9+39	1.7322	1.90	Q				
9+40	1.7322	1.90	Q				
9+41	1.7322	1.90	Q				
9+42	1.7322	1.90	Q				
9+43	1.7322	1.90	Q				
9+44	1.7322	1.90	Q				
9+45	1.7322	1.90	Q				
9+46	1.7322	1.90	Q				
9+47	1.7322	1.90	Q				
9+48	1.7322	1.90	Q				
9+49	1.7322	1.90	Q				
9+50	1.7322	1.90	Q				
9+51	1.7322	1.90	Q				
9+52	1.7322	1.90	Q				
9+53	1.7322	1.90	Q				
9+54	1.7322	1.90	Q				
9+55	1.7322	1.90	Q				
9+56	1.7322	1.90	Q				
9+57	1.7322	1.90	Q				
9+58	1.7322	1.90	Q				
9+59	1.7322	1.90	Q				
10+ 0	1.7322	1.90	Q				
10+ 1	1.7322	1.90	Q				
10+ 2	1.7322	1.90	Q				
10+ 3	1.7322	1.90	Q				
10+ 4	1.7322	1.90	Q				
10+ 5	1.7322	1.90	Q				
10+ 6	1.7322	1.90	Q				
10+ 7	1.7322	1.90	Q				
10+ 8	1.7322	1.90	Q				
10+ 9	1.7322	1.90	Q				
10+10	1.7322	1.90	Q				
10+11	1.7322	1.90	Q				
10+12	1.7322	1.90	Q				
10+13	1.7322	1.90	Q				
10+14	1.7322	1.90	Q				
10+15	1.7322	1.90	Q				
10+16	1.7322	1.90	Q				
10+17	1.7322	1.90	Q				
10+18	1.7322	1.90	Q				
10+19	1.7322	1.90	Q				
10+20	1.7322	1.90	Q				
10+21	1.7322	1.90	Q				
10+22	1.7322	1.90	Q				
10+23	1.7322	1.90	Q				
10+24	1.7322	1.90	Q				
10+25	1.7322	1.90	Q				
10+26	1.7322	1.90	Q				
10+27	1.7322	1.90	Q				
10+28	1.7322	1.90	Q				
10+29	1.7322	1.90	Q				
10+30	1.7322	1.90	Q				
10+31	1.7322	1.90	Q				
10+32	1.7322	1.90	Q				
10+33	1.7322	1.90	Q				
10+34	1.7322	1.90	Q				

10+35	1.7322	1.90	Q				
10+36	1.7322	1.90	Q				
10+37	1.7322	1.90	Q				
10+38	1.7322	1.90	Q				
10+39	1.7322	1.90	Q				
10+40	1.7322	1.90	Q				
10+41	1.7322	1.90	Q				
10+42	1.7322	1.90	Q				
10+43	1.7322	1.90	Q				
10+44	1.7322	1.90	Q				
10+45	1.7322	1.90	Q				
10+46	1.7322	1.90	Q				
10+47	1.7322	1.90	Q				
10+48	1.7322	1.90	Q				
10+49	1.7322	1.90	Q				
10+50	1.7322	1.90	Q				
10+51	1.7322	1.90	Q				
10+52	1.7322	1.90	Q				
10+53	1.7322	1.90	Q				
10+54	1.7322	1.90	Q				
10+55	1.7322	1.90	Q				
10+56	1.7322	1.90	Q				
10+57	1.7322	1.90	Q				
10+58	1.7322	1.90	Q				
10+59	1.7322	1.90	Q				
11+ 0	1.7322	1.90	Q				
11+ 1	1.7322	1.90	Q				
11+ 2	1.7322	1.90	Q				
11+ 3	1.7322	1.90	Q				
11+ 4	1.7322	1.90	Q				
11+ 5	1.7322	1.90	Q				
11+ 6	1.7322	1.90	Q				
11+ 7	1.7322	1.90	Q				
11+ 8	1.7322	1.90	Q				
11+ 9	1.7322	1.90	Q				
11+10	1.7322	1.90	Q				
11+11	1.7322	1.90	Q				
11+12	1.7322	1.90	Q				
11+13	1.7322	1.90	Q				
11+14	1.7322	1.90	Q				
11+15	1.7322	1.90	Q				
11+16	1.7322	1.90	Q				
11+17	1.7322	1.90	Q				
11+18	1.7322	1.90	Q				
11+19	1.7322	1.90	Q				
11+20	1.7322	1.90	Q				
11+21	1.7322	1.90	Q				
11+22	1.7322	1.90	Q				
11+23	1.7322	1.90	Q				
11+24	1.7322	1.90	Q				
11+25	1.7322	1.90	Q				
11+26	1.7322	1.90	Q				
11+27	1.7322	1.90	Q				
11+28	1.7322	1.90	Q				
11+29	1.7322	1.90	Q				
11+30	1.7322	1.90	Q				
11+31	1.7322	1.90	Q				
11+32	1.7322	1.90	Q				
11+33	1.7322	1.90	Q				
11+34	1.7322	1.90	Q				
11+35	1.7322	1.90	Q				
11+36	1.7322	1.90	Q				
11+37	1.7322	1.90	Q				
11+38	1.7322	1.90	Q				
11+39	1.7322	1.90	Q				
11+40	1.7322	1.90	Q				
11+41	1.7322	1.90	Q				
11+42	1.7322	1.90	Q				
11+43	1.7322	1.90	Q				
11+44	1.7322	1.90	Q				
11+45	1.7322	1.90	Q				

11+46	1.7322	1.90	Q				
11+47	1.7322	1.90	Q				
11+48	1.7322	1.90	Q				
11+49	1.7322	1.90	Q				
11+50	1.7322	1.90	Q				
11+51	1.7322	1.90	Q				
11+52	1.7322	1.90	Q				
11+53	1.7322	1.90	Q				
11+54	1.7322	1.90	Q				
11+55	1.7322	1.90	Q				
11+56	1.7322	1.90	Q				
11+57	1.7322	1.90	Q				
11+58	1.7322	1.90	Q				
11+59	1.7322	1.90	Q				
12+ 0	1.7322	1.90	Q				
12+ 1	1.7322	1.90	Q				
12+ 2	1.7322	1.90	Q				
12+ 3	1.7322	1.90	Q				
12+ 4	1.7322	1.90	Q				
12+ 5	1.7322	1.90	Q				
12+ 6	1.7322	1.90	Q				
12+ 7	1.7322	1.90	Q				
12+ 8	1.7322	1.90	Q				
12+ 9	1.7322	1.90	Q				
12+10	1.7322	1.90	Q				
12+11	1.7322	1.90	Q				
12+12	1.7322	1.90	Q				
12+13	1.7322	1.90	Q				
12+14	1.7322	1.90	Q				
12+15	1.7322	1.90	Q				
12+16	1.7322	1.90	Q				
12+17	1.7322	1.90	Q				
12+18	1.7322	1.90	Q				
12+19	1.7322	1.90	Q				
12+20	1.7322	1.90	Q				
12+21	1.7322	1.90	Q				
12+22	1.7322	1.90	Q				
12+23	1.7322	1.90	Q				
12+24	1.7322	1.90	Q				
12+25	1.7322	1.90	Q				
12+26	1.7322	1.90	Q				
12+27	1.7322	1.90	Q				
12+28	1.7322	1.90	Q				
12+29	1.7322	1.90	Q				
12+30	1.7322	1.90	Q				
12+31	1.7322	1.90	Q				
12+32	1.7322	1.90	Q				
12+33	1.7322	1.90	Q				
12+34	1.7322	1.90	Q				
12+35	1.7322	1.90	Q				
12+36	1.7322	1.90	Q				
12+37	1.7322	1.90	Q				
12+38	1.7322	1.90	Q				
12+39	1.7322	1.90	Q				
12+40	1.7322	1.90	Q				
12+41	1.7322	1.90	Q				
12+42	1.7322	1.90	Q				
12+43	1.7322	1.90	Q				
12+44	1.7322	1.90	Q				
12+45	1.7322	1.90	Q				
12+46	1.7322	1.90	Q				
12+47	1.7322	1.90	Q				
12+48	1.7322	1.90	Q				
12+49	1.7322	1.90	Q				
12+50	1.7322	1.90	Q				
12+51	1.7322	1.90	Q				
12+52	1.7322	1.90	Q				
12+53	1.7322	1.90	Q				
12+54	1.7322	1.90	Q				
12+55	1.7322	1.90	Q				
12+56	1.7322	1.90	Q				

14+ 8	1.7298	1.90	IQ				
14+ 9	1.7179	1.88	IQ				
14+10	1.6972	1.86	IQ				
14+11	1.6747	1.84	IQ				
14+12	1.6520	1.81	IQ				
14+13	1.6294	1.79	IQ				
14+14	1.6071	1.76	IQ				
14+15	1.5851	1.74	IQ				
14+16	1.5634	1.71	IQ				
14+17	1.5421	1.69	IQ				
14+18	1.5210	1.67	IQ				
14+19	1.5002	1.65	IQ				
14+20	1.4796	1.62	IQ				
14+21	1.4594	1.60	IQ				
14+22	1.4394	1.58	IQ				
14+23	1.4197	1.56	IQ				
14+24	1.4003	1.54	IQ				
14+25	1.3812	1.51	IQ				
14+26	1.3623	1.49	IQ				
14+27	1.3436	1.47	IQ				
14+28	1.3252	1.45	IQ				
14+29	1.3071	1.43	IQ				
14+30	1.2892	1.41	IQ				
14+31	1.2716	1.39	IQ				
14+32	1.2542	1.38	IQ				
14+33	1.2370	1.36	IQ				
14+34	1.2201	1.34	IQ				
14+35	1.2034	1.32	IQ				
14+36	1.1870	1.30	IQ				
14+37	1.1707	1.28	IQ				
14+38	1.1547	1.27	IQ				
14+39	1.1389	1.25	IQ				
14+40	1.1233	1.23	IQ				
14+41	1.1080	1.22	IQ				
14+42	1.0928	1.20	IQ				
14+43	1.0779	1.18	IQ				
14+44	1.0631	1.17	IQ				
14+45	1.0486	1.15	IQ				
14+46	1.0342	1.13	IQ				
14+47	1.0201	1.12	IQ				
14+48	1.0061	1.10	IQ				
14+49	0.9924	1.09	Q				
14+50	0.9788	1.07	Q				
14+51	0.9654	1.06	Q				
14+52	0.9522	1.04	Q				
14+53	0.9392	1.03	Q				
14+54	0.9263	1.02	Q				
14+55	0.9137	1.00	Q				
14+56	0.9012	0.99	Q				
14+57	0.8888	0.97	Q				
14+58	0.8767	0.96	Q				
14+59	0.8647	0.95	Q				
15+ 0	0.8528	0.94	Q				
15+ 1	0.8412	0.92	Q				
15+ 2	0.8297	0.91	Q				
15+ 3	0.8183	0.90	Q				
15+ 4	0.8071	0.89	Q				
15+ 5	0.7961	0.87	Q				
15+ 6	0.7852	0.86	Q				
15+ 7	0.7745	0.85	Q				
15+ 8	0.7639	0.84	Q				
15+ 9	0.7534	0.83	Q				
15+10	0.7431	0.82	Q				
15+11	0.7329	0.80	Q				
15+12	0.7229	0.79	Q				
15+13	0.7130	0.78	Q				
15+14	0.7033	0.77	Q				
15+15	0.6936	0.76	Q				
15+16	0.6842	0.75	Q				
15+17	0.6748	0.74	Q				
15+18	0.6656	0.73	Q				

15+19	0.6565	0.72	Q				
15+20	0.6475	0.71	Q				
15+21	0.6386	0.70	Q				
15+22	0.6299	0.69	Q				
15+23	0.6213	0.68	Q				
15+24	0.6128	0.67	Q				
15+25	0.6044	0.66	Q				
15+26	0.5961	0.65	Q				
15+27	0.5880	0.64	Q				
15+28	0.5799	0.64	Q				
15+29	0.5720	0.63	Q				
15+30	0.5642	0.62	Q				
15+31	0.5564	0.61	Q				
15+32	0.5488	0.60	Q				
15+33	0.5413	0.59	Q				
15+34	0.5339	0.59	Q				
15+35	0.5266	0.58	Q				
15+36	0.5194	0.57	Q				
15+37	0.5123	0.56	Q				
15+38	0.5053	0.55	Q				
15+39	0.4984	0.55	Q				
15+40	0.4916	0.54	Q				
15+41	0.4848	0.53	Q				
15+42	0.4782	0.52	Q				
15+43	0.4717	0.52	Q				
15+44	0.4652	0.51	Q				
15+45	0.4589	0.50	Q				
15+46	0.4526	0.50	Q				
15+47	0.4464	0.49	Q				
15+48	0.4403	0.48	Q				
15+49	0.4343	0.48	Q				
15+50	0.4283	0.47	Q				
15+51	0.4225	0.46	Q				
15+52	0.4167	0.46	Q				
15+53	0.4110	0.45	Q				
15+54	0.4054	0.44	Q				
15+55	0.3998	0.44	Q				
15+56	0.3943	0.43	Q				
15+57	0.3889	0.43	Q				
15+58	0.3836	0.42	Q				
15+59	0.3784	0.42	Q				
16+ 0	0.3732	0.41	Q				
16+ 1	0.3681	0.40	Q				
16+ 2	0.3631	0.40	Q				
16+ 3	0.3581	0.39	Q				
16+ 4	0.3532	0.39	Q				
16+ 5	0.3484	0.38	Q				
16+ 6	0.3436	0.38	Q				
16+ 7	0.3389	0.37	Q				
16+ 8	0.3343	0.37	Q				
16+ 9	0.3297	0.36	Q				
16+10	0.3252	0.36	Q				
16+11	0.3207	0.35	Q				
16+12	0.3163	0.35	Q				
16+13	0.3120	0.34	Q				
16+14	0.3077	0.34	Q				
16+15	0.3035	0.33	Q				
16+16	0.2994	0.33	Q				
16+17	0.2953	0.32	Q				
16+18	0.2912	0.32	Q				
16+19	0.2873	0.32	Q				
16+20	0.2833	0.31	Q				
16+21	0.2795	0.31	Q				
16+22	0.2756	0.30	Q				
16+23	0.2719	0.30	Q				
16+24	0.2681	0.29	Q				
16+25	0.2645	0.29	Q				
16+26	0.2609	0.29	Q				
16+27	0.2573	0.28	Q				
16+28	0.2538	0.28	Q				
16+29	0.2503	0.27	Q				

16+30	0.2469	0.27	Q				
16+31	0.2435	0.27	Q				
16+32	0.2402	0.26	Q				
16+33	0.2369	0.26	Q				
16+34	0.2336	0.26	Q				
16+35	0.2304	0.25	Q				
16+36	0.2273	0.25	Q				
16+37	0.2242	0.25	Q				
16+38	0.2211	0.24	Q				
16+39	0.2181	0.24	Q				
16+40	0.2151	0.24	Q				
16+41	0.2122	0.23	Q				
16+42	0.2093	0.23	Q				
16+43	0.2064	0.23	Q				
16+44	0.2036	0.22	Q				
16+45	0.2008	0.22	Q				
16+46	0.1980	0.22	Q				
16+47	0.1953	0.21	Q				
16+48	0.1927	0.21	Q				
16+49	0.1900	0.21	Q				
16+50	0.1874	0.21	Q				
16+51	0.1849	0.20	Q				
16+52	0.1823	0.20	Q				
16+53	0.1798	0.20	Q				
16+54	0.1774	0.19	Q				
16+55	0.1750	0.19	Q				
16+56	0.1726	0.19	Q				
16+57	0.1702	0.19	Q				
16+58	0.1679	0.18	Q				
16+59	0.1656	0.18	Q				
17+ 0	0.1633	0.18	Q				
17+ 1	0.1611	0.18	Q				
17+ 2	0.1589	0.17	Q				
17+ 3	0.1567	0.17	Q				
17+ 4	0.1546	0.17	Q				
17+ 5	0.1524	0.17	Q				
17+ 6	0.1504	0.16	Q				
17+ 7	0.1483	0.16	Q				
17+ 8	0.1463	0.16	Q				
17+ 9	0.1443	0.16	Q				
17+10	0.1423	0.16	Q				
17+11	0.1404	0.15	Q				
17+12	0.1384	0.15	Q				
17+13	0.1365	0.15	Q				
17+14	0.1347	0.15	Q				
17+15	0.1328	0.15	Q				
17+16	0.1310	0.14	Q				
17+17	0.1292	0.14	Q				
17+18	0.1274	0.14	Q				
17+19	0.1257	0.14	Q				
17+20	0.1240	0.14	Q				
17+21	0.1223	0.13	Q				
17+22	0.1206	0.13	Q				
17+23	0.1190	0.13	Q				
17+24	0.1173	0.13	Q				
17+25	0.1157	0.13	Q				
17+26	0.1142	0.13	Q				
17+27	0.1126	0.12	Q				
17+28	0.1110	0.12	Q				
17+29	0.1095	0.12	Q				
17+30	0.1080	0.12	Q				
17+31	0.1066	0.12	Q				
17+32	0.1051	0.12	Q				
17+33	0.1037	0.11	Q				
17+34	0.1022	0.11	Q				
17+35	0.1008	0.11	Q				
17+36	0.0995	0.11	Q				
17+37	0.0981	0.11	Q				
17+38	0.0968	0.11	Q				
17+39	0.0954	0.10	Q				
17+40	0.0941	0.10	Q				

17+41	0.0928	0.10	Q				
17+42	0.0916	0.10	Q				
17+43	0.0903	0.10	Q				
17+44	0.0891	0.10	Q				
17+45	0.0879	0.10	Q				
17+46	0.0867	0.10	Q				
17+47	0.0855	0.09	Q				
17+48	0.0843	0.09	Q				
17+49	0.0832	0.09	Q				
17+50	0.0820	0.09	Q				
17+51	0.0809	0.09	Q				
17+52	0.0798	0.09	Q				
17+53	0.0787	0.09	Q				
17+54	0.0776	0.09	Q				
17+55	0.0766	0.08	Q				
17+56	0.0755	0.08	Q				
17+57	0.0745	0.08	Q				
17+58	0.0735	0.08	Q				
17+59	0.0725	0.08	Q				
18+ 0	0.0715	0.08	Q				
18+ 1	0.0705	0.08	Q				
18+ 2	0.0695	0.08	Q				
18+ 3	0.0686	0.08	Q				
18+ 4	0.0676	0.07	Q				
18+ 5	0.0667	0.07	Q				
18+ 6	0.0658	0.07	Q				
18+ 7	0.0649	0.07	Q				
18+ 8	0.0640	0.07	Q				
18+ 9	0.0631	0.07	Q				
18+10	0.0623	0.07	Q				
18+11	0.0614	0.07	Q				
18+12	0.0606	0.07	Q				
18+13	0.0597	0.07	Q				
18+14	0.0589	0.06	Q				
18+15	0.0581	0.06	Q				
18+16	0.0573	0.06	Q				
18+17	0.0565	0.06	Q				
18+18	0.0558	0.06	Q				
18+19	0.0550	0.06	Q				
18+20	0.0543	0.06	Q				
18+21	0.0535	0.06	Q				
18+22	0.0528	0.06	Q				
18+23	0.0521	0.06	Q				
18+24	0.0513	0.06	Q				
18+25	0.0506	0.06	Q				
18+26	0.0500	0.05	Q				
18+27	0.0493	0.05	Q				
18+28	0.0486	0.05	Q				
18+29	0.0479	0.05	Q				
18+30	0.0473	0.05	Q				
18+31	0.0466	0.05	Q				
18+32	0.0460	0.05	Q				
18+33	0.0454	0.05	Q				
18+34	0.0447	0.05	Q				
18+35	0.0441	0.05	Q				
18+36	0.0435	0.05	Q				
18+37	0.0429	0.05	Q				
18+38	0.0423	0.05	Q				
18+39	0.0418	0.05	Q				
18+40	0.0412	0.05	Q				
18+41	0.0406	0.04	Q				
18+42	0.0401	0.04	Q				
18+43	0.0395	0.04	Q				
18+44	0.0390	0.04	Q				
18+45	0.0384	0.04	Q				
18+46	0.0379	0.04	Q				
18+47	0.0374	0.04	Q				
18+48	0.0369	0.04	Q				
18+49	0.0364	0.04	Q				
18+50	0.0359	0.04	Q				
18+51	0.0354	0.04	Q				

18+52	0.0349	0.04	Q				
18+53	0.0344	0.04	Q				
18+54	0.0340	0.04	Q				
18+55	0.0335	0.04	Q				
18+56	0.0330	0.04	Q				
18+57	0.0326	0.04	Q				
18+58	0.0321	0.04	Q				
18+59	0.0317	0.03	Q				
19+ 0	0.0313	0.03	Q				
19+ 1	0.0308	0.03	Q				
19+ 2	0.0304	0.03	Q				
19+ 3	0.0300	0.03	Q				
19+ 4	0.0296	0.03	Q				
19+ 5	0.0292	0.03	Q				
19+ 6	0.0288	0.03	Q				
19+ 7	0.0284	0.03	Q				
19+ 8	0.0280	0.03	Q				
19+ 9	0.0276	0.03	Q				
19+10	0.0272	0.03	Q				
19+11	0.0269	0.03	Q				
19+12	0.0265	0.03	Q				
19+13	0.0261	0.03	Q				
19+14	0.0258	0.03	Q				
19+15	0.0254	0.03	Q				
19+16	0.0251	0.03	Q				
19+17	0.0247	0.03	Q				
19+18	0.0244	0.03	Q				
19+19	0.0241	0.03	Q				
19+20	0.0237	0.03	Q				
19+21	0.0234	0.03	Q				
19+22	0.0231	0.03	Q				
19+23	0.0228	0.02	Q				
19+24	0.0225	0.02	Q				
19+25	0.0222	0.02	Q				
19+26	0.0219	0.02	Q				
19+27	0.0216	0.02	Q				
19+28	0.0213	0.02	Q				
19+29	0.0210	0.02	Q				
19+30	0.0207	0.02	Q				
19+31	0.0204	0.02	Q				
19+32	0.0201	0.02	Q				
19+33	0.0198	0.02	Q				
19+34	0.0196	0.02	Q				
19+35	0.0193	0.02	Q				
19+36	0.0190	0.02	Q				
19+37	0.0188	0.02	Q				
19+38	0.0185	0.02	Q				
19+39	0.0183	0.02	Q				
19+40	0.0180	0.02	Q				
19+41	0.0178	0.02	Q				
19+42	0.0175	0.02	Q				
19+43	0.0173	0.02	Q				
19+44	0.0171	0.02	Q				
19+45	0.0168	0.02	Q				
19+46	0.0166	0.02	Q				
19+47	0.0164	0.02	Q				
19+48	0.0161	0.02	Q				
19+49	0.0159	0.02	Q				
19+50	0.0157	0.02	Q				
19+51	0.0155	0.02	Q				
19+52	0.0153	0.02	Q				
19+53	0.0151	0.02	Q				
19+54	0.0149	0.02	Q				
19+55	0.0147	0.02	Q				
19+56	0.0145	0.02	Q				
19+57	0.0143	0.02	Q				
19+58	0.0141	0.02	Q				
19+59	0.0139	0.02	Q				
20+ 0	0.0137	0.02	Q				
20+ 1	0.0135	0.01	Q				
20+ 2	0.0133	0.01	Q				

20+ 3	0.0131	0.01	Q				
20+ 4	0.0130	0.01	Q				
20+ 5	0.0128	0.01	Q				
20+ 6	0.0126	0.01	Q				
20+ 7	0.0124	0.01	Q				
20+ 8	0.0123	0.01	Q				
20+ 9	0.0121	0.01	Q				
20+10	0.0119	0.01	Q				
20+11	0.0118	0.01	Q				
20+12	0.0116	0.01	Q				
20+13	0.0114	0.01	Q				
20+14	0.0113	0.01	Q				
20+15	0.0111	0.01	Q				
20+16	0.0110	0.01	Q				
20+17	0.0108	0.01	Q				
20+18	0.0107	0.01	Q				
20+19	0.0105	0.01	Q				
20+20	0.0104	0.01	Q				
20+21	0.0102	0.01	Q				
20+22	0.0101	0.01	Q				
20+23	0.0100	0.01	Q				
20+24	0.0098	0.01	Q				
20+25	0.0097	0.01	Q				
20+26	0.0096	0.01	Q				
20+27	0.0094	0.01	Q				
20+28	0.0093	0.01	Q				
20+29	0.0092	0.01	Q				
20+30	0.0091	0.01	Q				
20+31	0.0089	0.01	Q				
20+32	0.0088	0.01	Q				
20+33	0.0087	0.01	Q				
20+34	0.0086	0.01	Q				
20+35	0.0085	0.01	Q				
20+36	0.0083	0.01	Q				
20+37	0.0082	0.01	Q				
20+38	0.0081	0.01	Q				
20+39	0.0080	0.01	Q				
20+40	0.0079	0.01	Q				
20+41	0.0078	0.01	Q				
20+42	0.0077	0.01	Q				
20+43	0.0076	0.01	Q				
20+44	0.0075	0.01	Q				
20+45	0.0074	0.01	Q				
20+46	0.0073	0.01	Q				
20+47	0.0072	0.01	Q				
20+48	0.0071	0.01	Q				
20+49	0.0070	0.01	Q				
20+50	0.0069	0.01	Q				
20+51	0.0068	0.01	Q				
20+52	0.0067	0.01	Q				
20+53	0.0066	0.01	Q				
20+54	0.0065	0.01	Q				
20+55	0.0064	0.01	Q				
20+56	0.0063	0.01	Q				
20+57	0.0062	0.01	Q				
20+58	0.0062	0.01	Q				
20+59	0.0061	0.01	Q				
21+ 0	0.0060	0.01	Q				
21+ 1	0.0059	0.01	Q				
21+ 2	0.0058	0.01	Q				
21+ 3	0.0057	0.01	Q				
21+ 4	0.0057	0.01	Q				
21+ 5	0.0056	0.01	Q				
21+ 6	0.0055	0.01	Q				
21+ 7	0.0054	0.01	Q				
21+ 8	0.0054	0.01	Q				
21+ 9	0.0053	0.01	Q				
21+10	0.0052	0.01	Q				
21+11	0.0051	0.01	Q				
21+12	0.0051	0.01	Q				
21+13	0.0050	0.01	Q				

21+14	0.0049	0.01	Q				
21+15	0.0049	0.01	Q				
21+16	0.0048	0.01	Q				
21+17	0.0047	0.01	Q				
21+18	0.0047	0.01	Q				
21+19	0.0046	0.01	Q				
21+20	0.0045	0.00	Q				
21+21	0.0045	0.00	Q				
21+22	0.0044	0.00	Q				
21+23	0.0044	0.00	Q				
21+24	0.0043	0.00	Q				
21+25	0.0042	0.00	Q				
21+26	0.0042	0.00	Q				
21+27	0.0041	0.00	Q				
21+28	0.0041	0.00	Q				
21+29	0.0040	0.00	Q				
21+30	0.0040	0.00	Q				
21+31	0.0039	0.00	Q				
21+32	0.0039	0.00	Q				
21+33	0.0038	0.00	Q				
21+34	0.0037	0.00	Q				
21+35	0.0037	0.00	Q				
21+36	0.0036	0.00	Q				
21+37	0.0036	0.00	Q				
21+38	0.0035	0.00	Q				
21+39	0.0035	0.00	Q				
21+40	0.0035	0.00	Q				
21+41	0.0034	0.00	Q				
21+42	0.0034	0.00	Q				
21+43	0.0033	0.00	Q				
21+44	0.0033	0.00	Q				
21+45	0.0032	0.00	Q				
21+46	0.0032	0.00	Q				
21+47	0.0031	0.00	Q				
21+48	0.0031	0.00	Q				
21+49	0.0030	0.00	Q				
21+50	0.0030	0.00	Q				
21+51	0.0030	0.00	Q				
21+52	0.0029	0.00	Q				
21+53	0.0029	0.00	Q				
21+54	0.0028	0.00	Q				
21+55	0.0028	0.00	Q				
21+56	0.0028	0.00	Q				
21+57	0.0027	0.00	Q				
21+58	0.0027	0.00	Q				
21+59	0.0027	0.00	Q				
22+ 0	0.0026	0.00	Q				
22+ 1	0.0026	0.00	Q				
22+ 2	0.0025	0.00	Q				
22+ 3	0.0025	0.00	Q				
22+ 4	0.0025	0.00	Q				
22+ 5	0.0024	0.00	Q				
22+ 6	0.0024	0.00	Q				
22+ 7	0.0024	0.00	Q				
22+ 8	0.0023	0.00	Q				
22+ 9	0.0023	0.00	Q				
22+10	0.0023	0.00	Q				
22+11	0.0023	0.00	Q				
22+12	0.0022	0.00	Q				
22+13	0.0022	0.00	Q				
22+14	0.0022	0.00	Q				
22+15	0.0021	0.00	Q				
22+16	0.0021	0.00	Q				
22+17	0.0021	0.00	Q				
22+18	0.0020	0.00	Q				
22+19	0.0020	0.00	Q				
22+20	0.0020	0.00	Q				
22+21	0.0020	0.00	Q				
22+22	0.0019	0.00	Q				
22+23	0.0019	0.00	Q				
22+24	0.0019	0.00	Q				

22+25	0.0019	0.00	Q				
22+26	0.0018	0.00	Q				
22+27	0.0018	0.00	Q				
22+28	0.0018	0.00	Q				
22+29	0.0018	0.00	Q				
22+30	0.0017	0.00	Q				

*****HYDROGRAPH DATA*****
 Number of intervals = 1350
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 43.874 (CFS)
 Total volume = 5.712 (Ac.Ft)
 Status of hydrographs being held in storage
 Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
 Peak (CFS) 8.633 0.000 0.000 0.000 0.000
 Vol (Ac.Ft) 9.268 0.000 0.000 0.000 0.000

+++++
 Process from Point/Station 709.000 to Point/Station 1.000
 **** ADD/COMBINE/RECOVER HYDROGRAPHS ****

From stored stream number 1 the total
 volume of 9.27 (Ac.Ft) is being added to the
 current hydrograph at its original rate from user
 with a delay time to start of addition of 0.00 hours.

+++++
 P R I N T O F S T O R M
 R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	12.7	25.4	38.0	50.7
0+ 1	0.0133	0.02	Q				
0+ 2	0.0713	0.09	Q				
0+ 3	1.0254	1.99	Q				
0+ 4	1.6504	3.70	qQ				
0+ 5	2.1739	4.59	qQ				
0+ 6	2.3873	4.91	qQ				
0+ 7	2.4805	5.04	qQ				
0+ 8	2.5260	5.10	q Q				
0+ 9	2.5525	5.14	q Q				
0+10	2.5713	5.16	q Q				
0+11	2.5871	5.18	q Q				
0+12	2.6014	5.20	q Q				
0+13	2.6152	5.23	q Q				
0+14	2.6158	5.25	q Q				
0+15	2.6163	5.27	q Q				
0+16	2.6168	5.28	q Q				
0+17	2.6172	5.30	q Q				
0+18	2.6177	5.31	q Q				
0+19	2.6181	5.33	q Q				
0+20	2.6186	5.34	q Q				
0+21	2.6190	5.36	q Q				
0+22	2.6195	5.37	q Q				
0+23	2.6200	5.39	q Q				
0+24	2.6204	5.41	q Q				
0+25	2.6209	5.42	q Q				
0+26	2.6214	5.44	q Q				
0+27	2.6222	5.45	q Q				
0+28	2.6231	5.47	q Q				
0+29	2.6240	5.48	q Q				
0+30	2.6249	5.50	q Q				
0+31	2.6258	5.51	q Q				
0+32	2.6267	5.53	q Q				
0+33	2.6276	5.54	q Q				

0+34	2.6284	5.56	q	Q					
0+35	2.6293	5.57	q	Q					
0+36	2.6303	5.59	q	Q					
0+37	2.6312	5.61	q	Q					
0+38	2.6321	5.62	q	Q					
0+39	2.6330	5.64	q	Q					
0+40	2.6336	5.65	q	Q					
0+41	2.6342	5.67	q	Q					
0+42	2.6348	5.68	q	Q					
0+43	2.6354	5.70	q	Q					
0+44	2.6360	5.71	q	Q					
0+45	2.6366	5.72	q	Q					
0+46	2.6372	5.74	q	Q					
0+47	2.6378	5.75	q	Q					
0+48	2.6384	5.77	q	Q					
0+49	2.6390	5.78	q	Q					
0+50	2.6396	5.80	q	Q					
0+51	2.6402	5.81	q	Q					
0+52	2.6409	5.83	q	Q					
0+53	2.6420	5.84	q	Q					
0+54	2.6431	5.86	q	Q					
0+55	2.6443	5.87	q	Q					
0+56	2.6454	5.89	q	Q					
0+57	2.6466	5.90	q	Q					
0+58	2.6478	5.92	q	Q					
0+59	2.6489	5.93	q	Q					
1+ 0	2.6501	5.95	q	Q					
1+ 1	2.6512	5.96	q	Q					
1+ 2	2.6524	5.98	q	Q					
1+ 3	2.6536	5.99	q	Q					
1+ 4	2.6548	6.01	q	Q					
1+ 5	2.6559	6.02	q	Q					
1+ 6	2.6567	6.04	q	Q					
1+ 7	2.6575	6.05	q	Q					
1+ 8	2.6583	6.07	q	Q					
1+ 9	2.6591	6.08	q	Q					
1+10	2.6599	6.10	q	Q					
1+11	2.6607	6.11	q	Q					
1+12	2.6615	6.13	q	Q					
1+13	2.6623	6.14	q	Q					
1+14	2.6632	6.15	q	Q					
1+15	2.6640	6.17	q	Q					
1+16	2.6648	6.18	q	Q					
1+17	2.6656	6.20	q	Q					
1+18	2.6665	6.21	q	Q					
1+19	2.6680	6.23	q	Q					
1+20	2.6695	6.25	q	Q					
1+21	2.6710	6.26	q	Q					
1+22	2.6725	6.28	q	Q					
1+23	2.6740	6.29	q	Q					
1+24	2.6755	6.31	q	Q					
1+25	2.6771	6.32	q	Q					
1+26	2.6786	6.34	q	Q					
1+27	2.6801	6.36	q	Q					
1+28	2.6817	6.37	q	Q					
1+29	2.6832	6.39	q	Q					
1+30	2.6848	6.40	q	Q					
1+31	2.6863	6.42	q	Q					
1+32	2.6874	6.44	q	Q					
1+33	2.6885	6.45	q	Q					
1+34	2.6895	6.47	q	Q					
1+35	2.6906	6.48	q	Q					
1+36	2.6917	6.50	q	Q					
1+37	2.6928	6.51	q	Q					
1+38	2.6939	6.53	q	Q					
1+39	2.6950	6.55	q	Q					
1+40	2.6961	6.56	q	Q					
1+41	2.6972	6.58	q	Q					
1+42	2.6983	6.59	q	Q					
1+43	2.6994	6.61	q	Q					
1+44	2.7005	6.63	q	Q					

2+56	2.8881	8.27		q	Q						
2+57	2.8914	8.30		q	Q						
2+58	2.8946	8.34		q	Q						
2+59	2.8979	8.37		q	Q						
3+ 0	2.9012	8.41		q	Q						
3+ 1	2.9045	8.44		q	Q						
3+ 2	2.9078	8.48		q	Q						
3+ 3	2.9155	8.52		q	Q						
3+ 4	2.9232	8.56		q	Q						
3+ 5	2.9309	8.60		q	Q						
3+ 6	2.9386	8.64		q	Q						
3+ 7	2.9464	8.68		q	Q						
3+ 8	2.9541	8.73		q	Q						
3+ 9	2.9619	8.77		q	Q						
3+10	2.9697	8.82		q	Q						
3+11	2.9775	8.86		q	Q						
3+12	2.9854	8.91		q	Q						
3+13	2.9932	8.96		q	Q						
3+14	3.0011	9.01		q	Q						
3+15	3.0089	9.06		q	Q						
3+16	3.0153	9.10		q	Q						
3+17	3.0216	9.15		q	Q						
3+18	3.0280	9.20		q	Q						
3+19	3.0344	9.25		q	Q						
3+20	3.0408	9.30		q	Q						
3+21	3.0472	9.35		q	Q						
3+22	3.0537	9.40		q	Q						
3+23	3.0602	9.46		q	Q						
3+24	3.0667	9.51		q	Q						
3+25	3.0732	9.57		q	Q						
3+26	3.0797	9.63		q	Q						
3+27	3.0863	9.69		q	Q						
3+28	3.0929	9.75		q	Q						
3+29	3.1140	9.83		q	Q						
3+30	3.1352	9.91		q	Q						
3+31	3.1564	10.00		q	Q						
3+32	3.1776	10.08		q	Q						
3+33	3.1989	10.17		q	Q						
3+34	3.2202	10.27		q	Q						
3+35	3.2416	10.37		q	Q						
3+36	3.2631	10.48		q	Q						
3+37	3.2846	10.59		q	Q						
3+38	3.3061	10.71		q	Q						
3+39	3.3277	10.82		q	Q						
3+40	3.3494	10.95		q	Q						
3+41	3.3711	11.07		q	Q						
3+42	3.3984	11.21		q	Q						
3+43	3.4258	11.35		q	Q						
3+44	3.4532	11.49		q	Q						
3+45	3.4806	11.63		q	Q						
3+46	3.5081	11.78		q	Q						
3+47	3.5357	11.92		q	Q						
3+48	3.5634	12.08		q	Q						
3+49	3.5913	12.25		q	Q						
3+50	3.6193	12.43		q	Q						
3+51	3.6475	12.63		q	Q						
3+52	3.6758	12.84		q	Q						
3+53	3.7044	13.06		q	Q						
3+54	3.7331	13.29		q	Q						
3+55	3.9654	13.79		q	Q						
3+56	4.1979	14.31		q	q		Q				
3+57	4.4307	14.85		q	q		Q				
3+58	4.6637	15.40		q	q		Q				
3+59	4.8969	15.96		q	q		Q				
4+ 0	5.1303	16.54		q	q		Q	Q			
4+ 1	5.3639	17.17		q	q		Q	Q	Q		
4+ 2	5.5980	17.90		q	q		Q	Q	Q	Q	
4+ 3	5.8331	18.78		q	q		Q	Q	Q	Q	
4+ 4	6.0701	19.83		q	q		Q	Q	Q	Q	
4+ 5	6.3114	21.04		q	q		Q	Q	Q	Q	
4+ 6	6.5580	23.07		q	q		Q	Q	Q	Q	

4+ 7	6.8085	27.85		q		Q			
4+ 8	6.5699	34.34						Q	
4+ 9	6.3363	40.46							
4+10	6.1055	45.22		q					
4+11	5.8739	48.47							
4+12	5.6389	50.27							
4+13	5.3982	50.72		q					
4+14	5.1483	49.92							
4+15	4.8939	48.18		q					
4+16	4.6364	46.04							
4+17	4.3767	43.87		q					
4+18	4.1152	41.75							
4+19	3.8528	39.69		q					
4+20	3.5899	37.71							
4+21	3.5764	36.10		q					
4+22	3.5626	34.56							
4+23	3.5487	33.09		q					
4+24	3.5346	31.71							
4+25	3.5204	30.41		q					
4+26	3.5061	29.17							
4+27	3.4916	28.01		q					
4+28	3.4770	26.91							
4+29	3.4624	25.86		q					
4+30	3.4477	24.88							
4+31	3.4329	23.95		q					
4+32	3.4180	23.08							
4+33	3.4031	22.26		q					
4+34	3.3972	21.49							
4+35	3.3913	20.77		q					
4+36	3.3854	20.10							
4+37	3.3794	19.47		q					
4+38	3.3733	19.05							
4+39	3.3672	18.87		q					
4+40	3.3611	18.75							
4+41	3.3549	18.64		q					
4+42	3.3487	18.54							
4+43	3.3425	18.43		q					
4+44	3.3362	18.32							
4+45	3.3299	18.22		q					
4+46	3.3235	18.11							
4+47	3.3201	18.00		q					
4+48	3.3167	17.90							
4+49	3.3133	17.80		q					
4+50	3.3098	17.69							
4+51	3.3063	17.59		q					
4+52	3.3028	17.48							
4+53	3.2993	17.38		q					
4+54	3.2957	17.28							
4+55	3.2922	17.17		q					
4+56	3.2886	17.07							
4+57	3.2850	16.97		q					
4+58	3.2813	16.87							
4+59	3.2777	16.76		q					
5+ 0	3.2754	16.66							
5+ 1	3.2731	16.56		q					
5+ 2	3.2708	16.47							
5+ 3	3.2684	16.37		q					
5+ 4	3.2661	16.27							
5+ 5	3.2637	16.17		q					
5+ 6	3.2613	16.07							
5+ 7	3.2590	15.98		q					
5+ 8	3.2565	15.88							
5+ 9	3.2541	15.78		q					
5+10	3.2517	15.69							
5+11	3.2493	15.59		q					
5+12	3.2468	15.50							
5+13	3.2451	15.41		q					
5+14	3.2434	15.32							
5+15	3.2417	15.22		q					
5+16	3.2399	15.13							
5+17	3.2382	15.04		q					

5+18	3.2364	14.95	α	IQ					
5+19	3.2347	14.87	α	IQ					
5+20	3.2329	14.78	α	IQ					
5+21	3.2311	14.69	α	IQ					
5+22	3.2293	14.60	α	IQ					
5+23	3.2275	14.52	α	IQ					
5+24	3.2257	14.43	α	IQ					
5+25	3.2239	14.35	α	IQ					
5+26	3.2225	14.26	α	IQ					
5+27	3.2212	14.18	α	IQ					
5+28	3.2198	14.10	α	IQ					
5+29	3.2184	14.01	α	IQ					
5+30	3.2171	13.93	α	Q					
5+31	3.2157	13.85	α	Q					
5+32	3.2143	13.77	α	Q					
5+33	3.2129	13.69	α	Q					
5+34	3.2114	13.61	α	Q					
5+35	3.2100	13.54	α	Q					
5+36	3.2086	13.46	α	Q					
5+37	3.2072	13.38	α	Q					
5+38	3.2057	13.31	α	Q					
5+39	3.2046	13.23	α	Q					
5+40	3.2034	13.16	α	Q					
5+41	3.2023	13.08	α	Q					
5+42	3.2011	13.01	α	Q					
5+43	3.2000	12.94	α	Q					
5+44	3.1988	12.86	α	Q					
5+45	3.1977	12.79	α	Q					
5+46	3.1965	12.72	α	Q					
5+47	3.1953	12.65	α	Q					
5+48	3.1941	12.58	α	Q					
5+49	3.1929	12.51	α	Q					
5+50	3.1917	12.45	α	Q					
5+51	3.1905	12.38	α	Q					
5+52	3.1895	12.31	α	Q					
5+53	3.1885	12.24	α	Q					
5+54	3.1875	12.18	α	Q					
5+55	3.1865	12.11	α	Q					
5+56	3.1855	12.05	α	Q					
5+57	3.1845	11.99	α	Q					
5+58	3.1835	11.92	α	Q					
5+59	3.1825	11.86	α	Q					
6+ 0	3.1815	11.80	α	Q					
6+ 1	3.1804	11.74	α	Q					
6+ 2	3.1794	11.67	α	Q					
6+ 3	3.1784	11.61	α	Q					
6+ 4	3.1773	11.55	α	Q					
6+ 5	3.0079	11.28	α	Q					
6+ 6	3.0079	11.22	α	Q					
6+ 7	3.0079	11.16	α	Q					
6+ 8	3.0077	11.08	α	Q					
6+ 9	3.0074	10.98	α	Q					
6+10	3.0070	10.88	α	Q					
6+11	3.0064	10.79	α	Q					
6+12	3.0056	10.69	α	Q					
6+13	3.0048	10.59	α	Q					
6+14	3.0040	10.50	α	Q					
6+15	3.0031	10.41	α	Q					
6+16	3.0023	10.32	α	Q					
6+17	3.0014	10.23	α	Q					
6+18	3.0006	10.14	α	Q					
6+19	2.9997	10.05	α	Q					
6+20	2.9989	9.96	α	Q					
6+21	2.9980	9.88	α	Q					
6+22	2.9972	9.81	α	Q					
6+23	2.9964	9.75	α	Q					
6+24	2.9955	9.68	α	Q					
6+25	2.9947	9.61	α	Q					
6+26	2.9938	9.55	α	Q					
6+27	2.9930	9.48	α	Q					
6+28	2.9921	9.42	α	Q					

6+29	2.9913	9.36		q	Q						
6+30	2.9905	9.29		q	Q						
6+31	2.9896	9.23		q	Q						
6+32	2.9888	9.17		q	Q						
6+33	2.9879	9.11		q	Q						
6+34	2.9871	9.05		q	Q						
6+35	2.9862	8.99		q	Q						
6+36	2.9854	8.93		q	Q						
6+37	2.9846	8.87		q	Q						
6+38	2.9837	8.82		q	Q						
6+39	2.9829	8.76		q	Q						
6+40	2.9820	8.70		q	Q						
6+41	2.9812	8.65		q	Q						
6+42	2.9804	8.59		q	Q						
6+43	2.9795	8.54		q	Q						
6+44	2.9787	8.48		q	Q						
6+45	2.9779	8.43		q	Q						
6+46	2.9770	8.38		q	Q						
6+47	2.9762	8.33		q	Q						
6+48	2.9753	8.28		q	Q						
6+49	2.9745	8.22		q	Q						
6+50	2.9737	8.17		q	Q						
6+51	2.9728	8.12		q	Q						
6+52	2.9720	8.08		q	Q						
6+53	2.9712	8.03		q	Q						
6+54	2.9703	7.98		q	Q						
6+55	2.9695	7.93		q	Q						
6+56	2.9687	7.88		q	Q						
6+57	2.9678	7.84		q	Q						
6+58	2.9670	7.79		q	Q						
6+59	2.9662	7.75		q	Q						
7+ 0	2.9653	7.70		q	Q						
7+ 1	2.9645	7.66		q	Q						
7+ 2	2.9637	7.61		q	Q						
7+ 3	2.9628	7.57		q	Q						
7+ 4	2.9620	7.52		q	Q						
7+ 5	2.9612	7.48		q	Q						
7+ 6	2.9603	7.44		q	Q						
7+ 7	2.9595	7.40		q	Q						
7+ 8	2.9587	7.36		q	Q						
7+ 9	2.9578	7.32		q	Q						
7+10	2.9570	7.27		q	Q						
7+11	2.9562	7.23		q	Q						
7+12	2.9554	7.19		q	Q						
7+13	2.9545	7.16		q	Q						
7+14	2.9537	7.12		q	Q						
7+15	2.9529	7.08		q	Q						
7+16	2.9520	7.04		q	Q						
7+17	2.9512	7.00		q	Q						
7+18	2.9504	6.97		q	Q						
7+19	2.9496	6.93		q	Q						
7+20	2.9487	6.89		q	Q						
7+21	2.9479	6.86		q	Q						
7+22	2.9471	6.82		q	Q						
7+23	2.9463	6.79		q	Q						
7+24	2.9454	6.75		q	Q						
7+25	2.9446	6.72		q	Q						
7+26	2.9438	6.68		q	Q						
7+27	2.9430	6.65		q	Q						
7+28	2.9421	6.62		q	Q						
7+29	2.9413	6.58		q	Q						
7+30	2.9405	6.55		q	Q						
7+31	2.9397	6.52		q	Q						
7+32	2.9388	6.49		q	Q						
7+33	2.9380	6.45		q	Q						
7+34	2.9372	6.42		q	Q						
7+35	2.9364	6.39		q	Q						
7+36	2.9355	6.36		q	Q						
7+37	2.9347	6.33		q	Q						
7+38	2.9339	6.30		q	Q						
7+39	2.9331	6.27		q	Q						

7+40	2.9323	6.24	q Q				
7+41	2.9314	6.21	q Q				
7+42	2.9306	6.19	q Q				
7+43	2.9298	6.16	q Q				
7+44	2.9290	6.13	q Q				
7+45	2.9282	6.10	q Q				
7+46	2.9273	6.07	q Q				
7+47	2.9265	6.05	q Q				
7+48	2.9257	6.02	q Q				
7+49	2.9249	5.99	q Q				
7+50	2.9241	5.97	q Q				
7+51	2.9232	5.94	q Q				
7+52	2.9224	5.91	q Q				
7+53	2.9216	5.89	q Q				
7+54	2.9208	5.86	q Q				
7+55	2.9200	5.84	q Q				
7+56	2.9192	5.81	q Q				
7+57	2.9183	5.79	q Q				
7+58	2.9175	5.77	q Q				
7+59	2.9167	5.74	q Q				
8+ 0	2.9159	5.72	q Q				
8+ 1	2.9151	5.70	q Q				
8+ 2	2.9143	5.67	q Q				
8+ 3	2.9134	5.65	q Q				
8+ 4	2.9126	5.63	q Q				
8+ 5	2.9118	5.61	q Q				
8+ 6	2.9110	5.59	q Q				
8+ 7	2.9102	5.59	q Q				
8+ 8	2.9094	5.59	q Q				
8+ 9	2.9086	5.59	q Q				
8+10	2.9078	5.59	q Q				
8+11	2.9069	5.59	q Q				
8+12	2.9061	5.58	q Q				
8+13	2.9053	5.58	q Q				
8+14	2.9045	5.58	q Q				
8+15	2.9037	5.58	q Q				
8+16	2.9029	5.58	q Q				
8+17	2.9021	5.58	q Q				
8+18	2.9013	5.58	q Q				
8+19	2.9005	5.58	q Q				
8+20	2.8996	5.58	q Q				
8+21	2.8988	5.58	q Q				
8+22	2.8980	5.57	q Q				
8+23	2.8972	5.57	q Q				
8+24	2.8964	5.57	q Q				
8+25	2.8956	5.57	q Q				
8+26	2.8948	5.57	q Q				
8+27	2.8940	5.57	q Q				
8+28	2.8932	5.57	q Q				
8+29	2.8924	5.57	q Q				
8+30	2.8916	5.57	q Q				
8+31	2.8908	5.57	q Q				
8+32	2.8900	5.56	q Q				
8+33	2.8891	5.56	q Q				
8+34	2.8883	5.56	q Q				
8+35	2.8875	5.56	q Q				
8+36	2.8867	5.56	q Q				
8+37	2.8859	5.56	q Q				
8+38	2.8851	5.56	q Q				
8+39	2.8843	5.56	q Q				
8+40	2.8835	5.56	q Q				
8+41	2.8827	5.56	q Q				
8+42	2.8819	5.55	q Q				
8+43	2.8811	5.55	q Q				
8+44	2.8803	5.55	q Q				
8+45	2.8795	5.55	q Q				
8+46	2.8787	5.55	q Q				
8+47	2.8779	5.55	q Q				
8+48	2.8771	5.55	q Q				
8+49	2.8763	5.55	q Q				
8+50	2.8755	5.55	q Q				

8+51	2.8747	5.55	q	Q						
8+52	2.8739	5.54	q	Q						
8+53	2.8731	5.54	q	Q						
8+54	2.8723	5.54	q	Q						
8+55	2.8715	5.54	q	Q						
8+56	2.8707	5.54	q	Q						
8+57	2.8700	5.54	q	Q						
8+58	2.8694	5.54	q	Q						
8+59	2.8688	5.54	q	Q						
9+ 0	2.8683	5.54	q	Q						
9+ 1	2.8677	5.54	q	Q						
9+ 2	2.8672	5.54	q	Q						
9+ 3	2.8666	5.53	q	Q						
9+ 4	2.8661	5.53	q	Q						
9+ 5	2.8655	5.53	q	Q						
9+ 6	2.8650	5.53	q	Q						
9+ 7	2.8644	5.53	q	Q						
9+ 8	2.8639	5.53	q	Q						
9+ 9	2.8633	5.53	q	Q						
9+10	2.8628	5.53	q	Q						
9+11	2.8622	5.53	q	Q						
9+12	2.8617	5.53	q	Q						
9+13	2.8611	5.53	q	Q						
9+14	2.8606	5.53	q	Q						
9+15	2.8600	5.53	q	Q						
9+16	2.8595	5.53	q	Q						
9+17	2.8589	5.53	q	Q						
9+18	2.8584	5.52	q	Q						
9+19	2.8579	5.52	q	Q						
9+20	2.8573	5.52	q	Q						
9+21	2.8568	5.52	q	Q						
9+22	2.8562	5.52	q	Q						
9+23	2.8557	5.52	q	Q						
9+24	2.8551	5.52	q	Q						
9+25	2.8546	5.52	q	Q						
9+26	2.8540	5.52	q	Q						
9+27	2.8535	5.52	q	Q						
9+28	2.8529	5.52	q	Q						
9+29	2.8524	5.52	q	Q						
9+30	2.8519	5.52	q	Q						
9+31	2.8513	5.52	q	Q						
9+32	2.8508	5.51	q	Q						
9+33	2.8502	5.51	q	Q						
9+34	2.8497	5.51	q	Q						
9+35	2.8491	5.51	q	Q						
9+36	2.8486	5.51	q	Q						
9+37	2.8480	5.51	q	Q						
9+38	2.8475	5.51	q	Q						
9+39	2.8470	5.51	q	Q						
9+40	2.8464	5.51	q	Q						
9+41	2.8459	5.51	q	Q						
9+42	2.8453	5.51	q	Q						
9+43	2.8448	5.51	q	Q						
9+44	2.8442	5.51	q	Q						
9+45	2.8437	5.51	q	Q						
9+46	2.8431	5.51	q	Q						
9+47	2.8426	5.50	q	Q						
9+48	2.8421	5.50	q	Q						
9+49	2.8415	5.50	q	Q						
9+50	2.8410	5.50	q	Q						
9+51	2.8404	5.50	q	Q						
9+52	2.8399	5.50	q	Q						
9+53	2.8394	5.50	q	Q						
9+54	2.8388	5.50	q	Q						
9+55	2.8383	5.50	q	Q						
9+56	2.8377	5.50	q	Q						
9+57	2.8372	5.50	q	Q						
9+58	2.8366	5.50	q	Q						
9+59	2.8361	5.50	q	Q						
10+ 0	2.8356	5.50	q	Q						
10+ 1	2.8350	5.49	q	Q						

10+ 2	2.8345	5.49	q Q				
10+ 3	2.8339	5.49	q Q				
10+ 4	2.8334	5.49	q Q				
10+ 5	2.8329	5.49	q Q				
10+ 6	2.8323	5.49	q Q				
10+ 7	2.8318	5.49	q Q				
10+ 8	2.8312	5.49	q Q				
10+ 9	2.8307	5.49	q Q				
10+10	2.8301	5.49	q Q				
10+11	2.8296	5.49	q Q				
10+12	2.8291	5.49	q Q				
10+13	2.8285	5.49	q Q				
10+14	2.8280	5.49	q Q				
10+15	2.8274	5.49	q Q				
10+16	2.8269	5.48	q Q				
10+17	2.8264	5.48	q Q				
10+18	2.8258	5.48	q Q				
10+19	2.8253	5.48	q Q				
10+20	2.8247	5.48	q Q				
10+21	2.8242	5.48	q Q				
10+22	2.8237	5.48	q Q				
10+23	2.8231	5.48	q Q				
10+24	2.8226	5.48	q Q				
10+25	2.8221	5.48	q Q				
10+26	2.8215	5.48	q Q				
10+27	2.8210	5.48	q Q				
10+28	2.8204	5.48	q Q				
10+29	2.8199	5.48	q Q				
10+30	2.8194	5.47	q Q				
10+31	2.8188	5.47	q Q				
10+32	2.8183	5.47	q Q				
10+33	2.8177	5.47	q Q				
10+34	2.8172	5.47	q Q				
10+35	2.8167	5.47	q Q				
10+36	2.8161	5.47	q Q				
10+37	2.8156	5.47	q Q				
10+38	2.8151	5.47	q Q				
10+39	2.8145	5.47	q Q				
10+40	2.8140	5.47	q Q				
10+41	2.8134	5.47	q Q				
10+42	2.8129	5.47	q Q				
10+43	2.8124	5.47	q Q				
10+44	2.8118	5.47	q Q				
10+45	2.8113	5.46	q Q				
10+46	2.8108	5.46	q Q				
10+47	2.8102	5.46	q Q				
10+48	2.8097	5.46	q Q				
10+49	2.8092	5.46	q Q				
10+50	2.8086	5.46	q Q				
10+51	2.8081	5.46	q Q				
10+52	2.8075	5.46	q Q				
10+53	2.8070	5.46	q Q				
10+54	2.8065	5.46	q Q				
10+55	2.8059	5.46	q Q				
10+56	2.8054	5.46	q Q				
10+57	2.8049	5.46	q Q				
10+58	2.8043	5.46	q Q				
10+59	2.8038	5.46	q Q				
11+ 0	2.8033	5.45	q Q				
11+ 1	2.8027	5.45	q Q				
11+ 2	2.8022	5.45	q Q				
11+ 3	2.8017	5.45	q Q				
11+ 4	2.8011	5.45	q Q				
11+ 5	2.8006	5.45	q Q				
11+ 6	2.8001	5.45	q Q				
11+ 7	2.7995	5.45	q Q				
11+ 8	2.7988	5.45	q Q				
11+ 9	2.7980	5.45	q Q				
11+10	2.7972	5.45	q Q				
11+11	2.7964	5.45	q Q				
11+12	2.7956	5.44	q Q				

11+13	2.7949	5.44	q Q					
11+14	2.7941	5.44	q Q					
11+15	2.7933	5.44	q Q					
11+16	2.7925	5.44	q Q					
11+17	2.7917	5.44	q Q					
11+18	2.7909	5.44	q Q					
11+19	2.7901	5.44	q Q					
11+20	2.7893	5.44	q Q					
11+21	2.7886	5.44	q Q					
11+22	2.7878	5.43	q Q					
11+23	2.7870	5.43	q Q					
11+24	2.7862	5.43	q Q					
11+25	2.7854	5.43	q Q					
11+26	2.7846	5.43	q Q					
11+27	2.7839	5.43	q Q					
11+28	2.7831	5.43	q Q					
11+29	2.7823	5.43	q Q					
11+30	2.7815	5.43	q Q					
11+31	2.7807	5.43	q Q					
11+32	2.7799	5.42	q Q					
11+33	2.7791	5.42	q Q					
11+34	2.7784	5.42	q Q					
11+35	2.7776	5.42	q Q					
11+36	2.7768	5.42	q Q					
11+37	2.7760	5.42	q Q					
11+38	2.7752	5.42	q Q					
11+39	2.7745	5.42	q Q					
11+40	2.7737	5.42	q Q					
11+41	2.7729	5.42	q Q					
11+42	2.7721	5.41	q Q					
11+43	2.7713	5.41	q Q					
11+44	2.7705	5.41	q Q					
11+45	2.7698	5.41	q Q					
11+46	2.7690	5.41	q Q					
11+47	2.7682	5.41	q Q					
11+48	2.7674	5.41	q Q					
11+49	2.7666	5.41	q Q					
11+50	2.7659	5.41	q Q					
11+51	2.7651	5.41	q Q					
11+52	2.7643	5.41	q Q					
11+53	2.7635	5.40	q Q					
11+54	2.7628	5.40	q Q					
11+55	2.7620	5.40	q Q					
11+56	2.7612	5.40	q Q					
11+57	2.7604	5.40	q Q					
11+58	2.7596	5.40	q Q					
11+59	2.7589	5.40	q Q					
12+ 0	2.7581	5.40	q Q					
12+ 1	2.7573	5.40	q Q					
12+ 2	2.7565	5.40	q Q					
12+ 3	2.7558	5.39	q Q					
12+ 4	2.7550	5.39	q Q					
12+ 5	2.7542	5.39	q Q					
12+ 6	2.7534	5.39	q Q					
12+ 7	2.7527	5.39	q Q					
12+ 8	2.7519	5.39	q Q					
12+ 9	2.7511	5.39	q Q					
12+10	2.7503	5.39	q Q					
12+11	2.7496	5.39	q Q					
12+12	2.7488	5.39	q Q					
12+13	2.7480	5.38	q Q					
12+14	2.7472	5.38	q Q					
12+15	2.7465	5.38	q Q					
12+16	2.7457	5.38	q Q					
12+17	2.7449	5.38	q Q					
12+18	2.7441	5.38	q Q					
12+19	2.7434	5.38	q Q					
12+20	2.7426	5.38	q Q					
12+21	2.7418	5.38	q Q					
12+22	2.7410	5.38	q Q					
12+23	2.7403	5.37	q Q					

12+24	2.7395	5.37	q Q				
12+25	2.7387	5.37	q Q				
12+26	2.7380	5.37	q Q				
12+27	2.7372	5.37	q Q				
12+28	2.7364	5.37	q Q				
12+29	2.7356	5.37	q Q				
12+30	2.7349	5.37	q Q				
12+31	2.7341	5.37	q Q				
12+32	2.7333	5.37	q Q				
12+33	2.7326	5.36	q Q				
12+34	2.7318	5.36	q Q				
12+35	2.7310	5.36	q Q				
12+36	2.7303	5.36	q Q				
12+37	2.7295	5.36	q Q				
12+38	2.7287	5.36	q Q				
12+39	2.7280	5.36	q Q				
12+40	2.7272	5.36	q Q				
12+41	2.7264	5.36	q Q				
12+42	2.7256	5.36	q Q				
12+43	2.7249	5.36	q Q				
12+44	2.7241	5.35	q Q				
12+45	2.7233	5.35	q Q				
12+46	2.7226	5.35	q Q				
12+47	2.7218	5.35	q Q				
12+48	2.7210	5.35	q Q				
12+49	2.7203	5.35	q Q				
12+50	2.7195	5.35	q Q				
12+51	2.7187	5.35	q Q				
12+52	2.7180	5.35	q Q				
12+53	2.7172	5.35	q Q				
12+54	2.7164	5.34	q Q				
12+55	2.7157	5.34	q Q				
12+56	2.7149	5.34	q Q				
12+57	2.7142	5.34	q Q				
12+58	2.7134	5.34	q Q				
12+59	2.7126	5.34	q Q				
13+ 0	2.7119	5.34	q Q				
13+ 1	2.7111	5.34	q Q				
13+ 2	2.7103	5.34	q Q				
13+ 3	2.7096	5.34	q Q				
13+ 4	2.7088	5.33	q Q				
13+ 5	2.7080	5.33	q Q				
13+ 6	2.7073	5.33	q Q				
13+ 7	2.7065	5.33	q Q				
13+ 8	2.7058	5.33	q Q				
13+ 9	2.7050	5.33	q Q				
13+10	2.7042	5.33	q Q				
13+11	2.7035	5.33	q Q				
13+12	2.7027	5.33	q Q				
13+13	2.7020	5.33	q Q				
13+14	2.7012	5.33	q Q				
13+15	2.7004	5.32	q Q				
13+16	2.6997	5.32	q Q				
13+17	2.6989	5.32	q Q				
13+18	2.6981	5.32	q Q				
13+19	2.6973	5.32	q Q				
13+20	2.6963	5.32	q Q				
13+21	2.6952	5.32	q Q				
13+22	2.6941	5.32	q Q				
13+23	2.6930	5.31	q Q				
13+24	2.6919	5.31	q Q				
13+25	2.6908	5.31	q Q				
13+26	2.6897	5.31	q Q				
13+27	2.6886	5.31	q Q				
13+28	2.6875	5.31	q Q				
13+29	2.6863	5.31	q Q				
13+30	2.6852	5.30	q Q				
13+31	2.6841	5.30	q Q				
13+32	2.6830	5.30	q Q				
13+33	2.6819	5.30	q Q				
13+34	2.6808	5.30	q Q				

13+35	2.6797	5.30	q Q					
13+36	2.6785	5.30	q Q					
13+37	2.6774	5.29	q Q					
13+38	2.6763	5.29	q Q					
13+39	2.6752	5.29	q Q					
13+40	2.6741	5.29	q Q					
13+41	2.6730	5.29	q Q					
13+42	2.6719	5.29	q Q					
13+43	2.6708	5.29	q Q					
13+44	2.6697	5.29	q Q					
13+45	2.6686	5.28	q Q					
13+46	2.6674	5.28	q Q					
13+47	2.6663	5.28	q Q					
13+48	2.6652	5.28	q Q					
13+49	2.6641	5.28	q Q					
13+50	2.6630	5.28	q Q					
13+51	2.6619	5.28	q Q					
13+52	2.6608	5.27	q Q					
13+53	2.6597	5.27	q Q					
13+54	2.6586	5.27	q Q					
13+55	2.6575	5.27	q Q					
13+56	2.6564	5.27	q Q					
13+57	2.6553	5.27	q Q					
13+58	2.6542	5.27	q Q					
13+59	2.6531	5.26	q Q					
14+ 0	2.6520	5.26	q Q					
14+ 1	2.6509	5.26	q Q					
14+ 2	2.6498	5.26	q Q					
14+ 3	2.6487	5.26	q Q					
14+ 4	2.6476	5.26	q Q					
14+ 5	2.6465	5.26	q Q					
14+ 6	2.6454	5.25	q Q					
14+ 7	2.6443	5.25	q Q					
14+ 8	2.6432	5.25	q Q					
14+ 9	2.6421	5.23	q Q					
14+10	2.6410	5.21	q Q					
14+11	2.6399	5.18	q Q					
14+12	2.6388	5.16	q Q					
14+13	2.6377	5.13	q Q					
14+14	2.6366	5.11	q Q					
14+15	2.6356	5.08	q Q					
14+16	2.6345	5.06	qQ					
14+17	2.6334	5.03	qQ					
14+18	2.6323	5.01	qQ					
14+19	2.6312	4.98	qQ					
14+20	2.6301	4.96	qQ					
14+21	2.6290	4.93	qQ					
14+22	2.6279	4.91	qQ					
14+23	2.6268	4.89	qQ					
14+24	2.6257	4.87	qQ					
14+25	2.6246	4.84	qQ					
14+26	2.6236	4.82	qQ					
14+27	2.6225	4.80	qQ					
14+28	2.6214	4.78	qQ					
14+29	2.6203	4.76	qQ					
14+30	2.6192	4.74	qQ					
14+31	2.6181	4.71	qQ					
14+32	2.6170	4.69	qQ					
14+33	2.6160	4.67	qQ					
14+34	2.6149	4.65	qQ					
14+35	2.6138	4.63	qQ					
14+36	2.6127	4.61	qQ					
14+37	2.6116	4.60	qQ					
14+38	2.6105	4.58	qQ					
14+39	2.6095	4.56	qQ					
14+40	2.6084	4.54	qQ					
14+41	2.6073	4.52	qQ					
14+42	2.6062	4.50	qQ					
14+43	2.6051	4.49	qQ					
14+44	2.6041	4.47	qQ					
14+45	2.6030	4.45	qQ					

14+46	2.6019	4.43	qQ					
14+47	2.6008	4.42	qQ					
14+48	2.5998	4.40	qQ					
14+49	2.5987	4.38	qQ					
14+50	2.5976	4.37	qQ					
14+51	2.5965	4.35	qQ					
14+52	2.5955	4.34	qQ					
14+53	2.5944	4.32	qQ					
14+54	2.5933	4.30	qQ					
14+55	2.5922	4.29	qQ					
14+56	2.5912	4.27	qQ					
14+57	2.5901	4.26	qQ					
14+58	2.5890	4.24	qQ					
14+59	2.5879	4.23	qQ					
15+ 0	2.5869	4.22	qQ					
15+ 1	2.5858	4.20	qQ					
15+ 2	2.5847	4.19	qQ					
15+ 3	2.5837	4.17	qQ					
15+ 4	2.5826	4.16	qQ					
15+ 5	2.5815	4.15	qQ					
15+ 6	2.5805	4.13	qQ					
15+ 7	2.5794	4.12	qQ					
15+ 8	2.5783	4.11	qQ					
15+ 9	2.5773	4.09	qQ					
15+10	2.5762	4.08	qQ					
15+11	2.5751	4.07	qQ					
15+12	2.5741	4.06	qQ					
15+13	2.5730	4.04	qQ					
15+14	2.5719	4.03	qQ					
15+15	2.5709	4.02	qQ					
15+16	2.5698	4.01	qQ					
15+17	2.5687	4.00	qQ					
15+18	2.5677	3.99	qQ					
15+19	2.5666	3.97	qQ					
15+20	2.5655	3.96	qQ					
15+21	2.5645	3.95	qQ					
15+22	2.5634	3.94	qQ					
15+23	2.5624	3.93	qQ					
15+24	2.5613	3.92	qQ					
15+25	2.5602	3.91	qQ					
15+26	2.5592	3.90	qQ					
15+27	2.5581	3.89	qQ					
15+28	2.5571	3.88	qQ					
15+29	2.5560	3.87	qQ					
15+30	2.5550	3.86	qQ					
15+31	2.5539	3.85	qQ					
15+32	2.5528	3.84	qQ					
15+33	2.5518	3.83	qQ					
15+34	2.5507	3.82	qQ					
15+35	2.5497	3.81	qQ					
15+36	2.5486	3.80	Q					
15+37	2.5476	3.79	Q					
15+38	2.5465	3.78	Q					
15+39	2.5455	3.77	Q					
15+40	2.5444	3.77	Q					
15+41	2.5434	3.76	Q					
15+42	2.5423	3.75	Q					
15+43	2.5413	3.74	Q					
15+44	2.5402	3.73	Q					
15+45	2.5392	3.72	Q					
15+46	2.5381	3.71	Q					
15+47	2.5371	3.71	Q					
15+48	2.5360	3.70	Q					
15+49	2.5350	3.69	Q					
15+50	2.5339	3.68	Q					
15+51	2.5329	3.67	Q					
15+52	2.5318	3.67	Q					
15+53	2.5308	3.66	Q					
15+54	2.5297	3.65	Q					
15+55	2.5287	3.64	Q					
15+56	2.5276	3.64	Q					

15+57	2.5266	3.63		Q					
15+58	2.5256	3.62		Q					
15+59	2.5245	3.62		Q					
16+ 0	2.5235	3.61		Q					
16+ 1	2.5224	3.60		Q					
16+ 2	2.5214	3.60		Q					
16+ 3	2.5203	3.59		Q					
16+ 4	2.5193	3.58		Q					
16+ 5	2.5183	3.58		Q					
16+ 6	2.5172	3.57		Q					
16+ 7	2.5162	3.56		Q					
16+ 8	2.5151	3.56		Q					
16+ 9	2.5141	3.55		Q					
16+10	2.5131	3.54		Q					
16+11	2.5120	3.54		Q					
16+12	2.5110	3.53		Q					
16+13	2.5100	3.52		Q					
16+14	2.5089	3.52		Q					
16+15	2.5079	3.51		Q					
16+16	2.5068	3.51		Q					
16+17	2.5058	3.50		Q					
16+18	2.5048	3.50		Q					
16+19	2.5037	3.49		Q					
16+20	2.5027	3.48		Q					
16+21	2.5017	3.48		Q					
16+22	2.5006	3.47		Q					
16+23	2.4996	3.47		Q					
16+24	2.4986	3.46		Q					
16+25	2.4976	3.46		Q					
16+26	2.4965	3.45		Q					
16+27	2.4955	3.45		Q					
16+28	2.4945	3.44		Q					
16+29	2.4934	3.44		Q					
16+30	2.4924	3.43		Q					
16+31	2.4914	3.43		Q					
16+32	2.4903	3.42		Q					
16+33	2.4893	3.42		Q					
16+34	2.4883	3.41		Q					
16+35	2.4873	3.41		Q					
16+36	2.4862	3.40		Q					
16+37	2.4852	3.40		Q					
16+38	2.4842	3.39		Q					
16+39	2.4832	3.39		Q					
16+40	2.4821	3.38		Q					
16+41	2.4811	3.38		Q					
16+42	2.4801	3.37		Q					
16+43	2.4791	3.37		Q					
16+44	2.4780	3.37		Q					
16+45	2.4770	3.36		Q					
16+46	2.4760	3.36		Q					
16+47	2.4750	3.35		Q					
16+48	2.4741	3.35		Q					
16+49	2.4732	3.34		Q					
16+50	2.4724	3.34		Q					
16+51	2.4716	3.34		Q					
16+52	2.4708	3.33		Q					
16+53	2.4700	3.33		Q					
16+54	2.4692	3.33		Q					
16+55	2.4683	3.32		Q					
16+56	2.4675	3.32		Q					
16+57	2.4667	3.31		Q					
16+58	2.4659	3.31		Q					
16+59	2.4651	3.31		Q					
17+ 0	2.4643	3.30		Q					
17+ 1	2.4635	3.30		Q					
17+ 2	2.4627	3.30		Q					
17+ 3	2.4619	3.29		Q					
17+ 4	2.4611	3.29		Q					
17+ 5	2.4603	3.29		Q					
17+ 6	2.4594	3.28		Q					
17+ 7	2.4586	3.28		Q					

17+ 8	2.4578	3.28	Q					
17+ 9	2.4570	3.27	Q					
17+10	2.4562	3.27	Q					
17+11	2.4554	3.27	Q					
17+12	2.4546	3.26	Q					
17+13	2.4538	3.26	Q					
17+14	2.4530	3.26	Q					
17+15	2.4522	3.26	Q					
17+16	2.4514	3.25	Q					
17+17	2.4506	3.25	Q					
17+18	2.4498	3.25	Q					
17+19	2.4490	3.24	Q					
17+20	2.4482	3.24	Q					
17+21	2.4474	3.24	Q					
17+22	2.4466	3.23	Q					
17+23	2.4458	3.23	Q					
17+24	2.4450	3.23	Q					
17+25	2.4442	3.23	Q					
17+26	2.4434	3.22	Q					
17+27	2.4426	3.22	Q					
17+28	2.4418	3.22	Q					
17+29	2.4410	3.22	Q					
17+30	2.4402	3.21	Q					
17+31	2.4394	3.21	Q					
17+32	2.4386	3.21	Q					
17+33	2.4378	3.20	Q					
17+34	2.4370	3.20	Q					
17+35	2.4362	3.20	Q					
17+36	2.4354	3.20	Q					
17+37	2.4346	3.19	Q					
17+38	2.4338	3.19	Q					
17+39	2.4329	3.19	Q					
17+40	2.4320	3.19	Q					
17+41	2.4311	3.18	Q					
17+42	2.4302	3.18	Q					
17+43	2.4293	3.18	Q					
17+44	2.4283	3.18	Q					
17+45	2.4274	3.17	Q					
17+46	2.4265	3.17	Q					
17+47	2.4255	3.17	Q					
17+48	2.4246	3.17	Q					
17+49	2.4237	3.16	Q					
17+50	2.4227	3.16	Q					
17+51	2.4218	3.16	Q					
17+52	2.4209	3.16	Q					
17+53	2.4199	3.15	Q					
17+54	2.4190	3.15	Q					
17+55	2.4181	3.15	Q					
17+56	2.4172	3.15	Q					
17+57	2.4162	3.15	Q					
17+58	2.4153	3.14	Q					
17+59	2.4144	3.14	Q					
18+ 0	2.4134	3.14	Q					
18+ 1	2.4125	3.14	Q					
18+ 2	2.4116	3.13	Q					
18+ 3	2.4107	3.13	Q					
18+ 4	2.4097	3.13	Q					
18+ 5	2.4088	3.13	Q					
18+ 6	2.4079	3.13	Q					
18+ 7	2.4070	3.12	Q					
18+ 8	2.4061	3.12	Q					
18+ 9	2.4051	3.12	Q					
18+10	2.4042	3.12	Q					
18+11	2.4033	3.11	Q					
18+12	2.4024	3.11	Q					
18+13	2.4015	3.11	Q					
18+14	2.4005	3.11	Q					
18+15	2.3996	3.11	Q					
18+16	2.3987	3.10	Q					
18+17	2.3978	3.10	Q					
18+18	2.3969	3.10	Q					

18+19	2.3959	3.10	Q				
18+20	2.3950	3.10	Q				
18+21	2.3941	3.09	Q				
18+22	2.3932	3.09	Q				
18+23	2.3923	3.09	Q				
18+24	2.3914	3.09	Q				
18+25	2.3905	3.09	Q				
18+26	2.3895	3.08	Q				
18+27	2.3886	3.08	Q				
18+28	2.3877	3.08	Q				
18+29	2.3868	3.08	Q				
18+30	2.3859	3.08	Q				
18+31	2.3850	3.08	Q				
18+32	2.3841	3.07	Q				
18+33	2.3832	3.07	Q				
18+34	2.3823	3.07	Q				
18+35	2.3814	3.07	Q				
18+36	2.3804	3.07	Q				
18+37	2.3795	3.06	Q				
18+38	2.3786	3.06	Q				
18+39	2.3777	3.06	Q				
18+40	2.3768	3.06	Q				
18+41	2.3759	3.06	Q				
18+42	2.3750	3.06	Q				
18+43	2.3741	3.05	Q				
18+44	2.3732	3.05	Q				
18+45	2.3723	3.05	Q				
18+46	2.3714	3.05	Q				
18+47	2.3705	3.05	Q				
18+48	2.3696	3.05	Q				
18+49	2.3687	3.04	Q				
18+50	2.3678	3.04	Q				
18+51	2.3669	3.04	Q				
18+52	2.3660	3.04	Q				
18+53	2.3651	3.04	Q				
18+54	2.3642	3.03	Q				
18+55	2.3633	3.03	Q				
18+56	2.3624	3.03	Q				
18+57	2.3615	3.03	Q				
18+58	2.3606	3.03	Q				
18+59	2.3597	3.03	Q				
19+ 0	2.3588	3.03	Q				
19+ 1	2.3579	3.02	Q				
19+ 2	2.3570	3.02	Q				
19+ 3	2.3561	3.02	Q				
19+ 4	2.3552	3.02	Q				
19+ 5	2.3543	3.02	Q				
19+ 6	2.3534	3.02	Q				
19+ 7	2.3525	3.01	Q				
19+ 8	2.3517	3.01	Q				
19+ 9	2.3508	3.01	Q				
19+10	2.3499	3.01	Q				
19+11	2.3490	3.01	Q				
19+12	2.3481	3.01	Q				
19+13	2.3472	3.00	Q				
19+14	2.3463	3.00	Q				
19+15	2.3454	3.00	Q				
19+16	2.3445	3.00	Q				
19+17	2.3437	3.00	Q				
19+18	2.3428	3.00	Q				
19+19	2.3419	3.00	Q				
19+20	2.3410	2.99	Q				
19+21	2.3401	2.99	Q				
19+22	2.3392	2.99	Q				
19+23	2.3383	2.99	Q				
19+24	2.3375	2.99	Q				
19+25	2.3366	2.99	Q				
19+26	2.3357	2.99	Q				
19+27	2.3348	2.98	Q				
19+28	2.3339	2.98	Q				
19+29	2.3330	2.98	Q				

19+30	2.3322	2.98	Q				
19+31	2.3313	2.98	Q				
19+32	2.3304	2.98	Q				
19+33	2.3295	2.98	Q				
19+34	2.3286	2.97	Q				
19+35	2.3276	2.97	Q				
19+36	2.3262	2.97	Q				
19+37	2.3247	2.97	Q				
19+38	2.3232	2.97	Q				
19+39	2.3216	2.96	Q				
19+40	2.3200	2.96	Q				
19+41	2.3184	2.96	Q				
19+42	2.3168	2.96	Q				
19+43	2.3153	2.95	Q				
19+44	2.3137	2.95	Q				
19+45	2.3121	2.95	Q				
19+46	2.3105	2.95	Q				
19+47	2.3089	2.95	Q				
19+48	2.3074	2.94	Q				
19+49	2.3058	2.94	Q				
19+50	2.3042	2.94	Q				
19+51	2.3027	2.94	Q				
19+52	2.3011	2.93	Q				
19+53	2.2995	2.93	Q				
19+54	2.2980	2.93	Q				
19+55	2.2964	2.93	Q				
19+56	2.2949	2.93	Q				
19+57	2.2933	2.92	Q				
19+58	2.2917	2.92	Q				
19+59	2.2902	2.92	Q				
20+ 0	2.2886	2.92	Q				
20+ 1	2.2871	2.91	Q				
20+ 2	2.2855	2.91	Q				
20+ 3	2.2840	2.91	Q				
20+ 4	2.2825	2.91	Q				
20+ 5	2.2809	2.91	Q				
20+ 6	2.2794	2.90	Q				
20+ 7	2.2778	2.90	Q				
20+ 8	2.2763	2.90	Q				
20+ 9	2.2748	2.90	Q				
20+10	2.2732	2.90	Q				
20+11	2.2717	2.89	Q				
20+12	2.2702	2.89	Q				
20+13	2.2687	2.89	Q				
20+14	2.2671	2.89	Q				
20+15	2.2656	2.88	Q				
20+16	2.2641	2.88	Q				
20+17	2.2626	2.88	Q				
20+18	2.2611	2.88	Q				
20+19	2.2595	2.88	Q				
20+20	2.2580	2.87	Q				
20+21	2.2565	2.87	Q				
20+22	2.2550	2.87	Q				
20+23	2.2535	2.87	Q				
20+24	2.2520	2.87	Q				
20+25	2.2505	2.86	Q				
20+26	2.2490	2.86	Q				
20+27	2.2475	2.86	Q				
20+28	2.2460	2.86	Q				
20+29	2.2445	2.86	Q				
20+30	2.2430	2.85	Q				
20+31	2.2415	2.85	Q				
20+32	2.2400	2.85	Q				
20+33	2.2386	2.85	Q				
20+34	2.2371	2.85	Q				
20+35	2.2356	2.84	Q				
20+36	2.2341	2.84	Q				
20+37	2.2326	2.84	Q				
20+38	2.2311	2.84	Q				
20+39	2.2297	2.84	Q				
20+40	2.2282	2.83	Q				

20+41	2.2267	2.83	Q					
20+42	2.2252	2.83	Q					
20+43	2.2238	2.83	Q					
20+44	2.2223	2.83	Q					
20+45	2.2208	2.82	Q					
20+46	2.2194	2.82	Q					
20+47	2.2179	2.82	Q					
20+48	2.2165	2.82	Q					
20+49	2.2150	2.82	Q					
20+50	2.2136	2.81	Q					
20+51	2.2121	2.81	Q					
20+52	2.2106	2.81	Q					
20+53	2.2092	2.81	Q					
20+54	2.2077	2.81	Q					
20+55	2.2063	2.80	Q					
20+56	2.2049	2.80	Q					
20+57	2.2034	2.80	Q					
20+58	2.2020	2.80	Q					
20+59	2.2005	2.80	Q					
21+ 0	2.1991	2.79	Q					
21+ 1	2.1977	2.79	Q					
21+ 2	2.1962	2.79	Q					
21+ 3	2.1948	2.79	Q					
21+ 4	2.1934	2.79	Q					
21+ 5	2.1919	2.79	Q					
21+ 6	2.1905	2.78	Q					
21+ 7	2.1891	2.78	Q					
21+ 8	2.1877	2.78	Q					
21+ 9	2.1862	2.78	Q					
21+10	2.1848	2.78	Q					
21+11	2.1834	2.77	Q					
21+12	2.1820	2.77	Q					
21+13	2.1806	2.77	Q					
21+14	2.1791	2.77	Q					
21+15	2.1777	2.77	Q					
21+16	2.1763	2.76	Q					
21+17	2.1749	2.76	Q					
21+18	2.1735	2.76	Q					
21+19	2.1721	2.76	Q					
21+20	2.1707	2.76	Q					
21+21	2.1693	2.76	Q					
21+22	2.1679	2.75	Q					
21+23	2.1665	2.75	Q					
21+24	2.1651	2.75	Q					
21+25	2.1637	2.75	Q					
21+26	2.1623	2.75	Q					
21+27	2.1609	2.74	Q					
21+28	2.1595	2.74	Q					
21+29	2.1582	2.74	Q					
21+30	2.1568	2.74	Q					
21+31	2.1554	2.74	Q					
21+32	2.1540	2.74	Q					
21+33	2.1526	2.73	Q					
21+34	2.1513	2.73	Q					
21+35	2.1499	2.73	Q					
21+36	2.1485	2.73	Q					
21+37	2.1471	2.73	Q					
21+38	2.1458	2.72	Q					
21+39	2.1444	2.72	Q					
21+40	2.1430	2.72	Q					
21+41	2.1413	2.72	Q					
21+42	2.1391	2.72	Q					
21+43	2.1369	2.71	Q					
21+44	2.1345	2.71	Q					
21+45	2.1322	2.71	Q					
21+46	2.1298	2.70	Q					
21+47	2.1275	2.70	Q					
21+48	2.1251	2.70	Q					
21+49	2.1228	2.69	Q					
21+50	2.1204	2.69	Q					
21+51	2.1181	2.69	Q					

21+52	2.1157	2.69	Q				
21+53	2.1134	2.68	Q				
21+54	2.1111	2.68	Q				
21+55	2.1088	2.68	Q				
21+56	2.1065	2.67	Q				
21+57	2.1042	2.67	Q				
21+58	2.1019	2.67	Q				
21+59	2.0996	2.67	Q				
22+ 0	2.0973	2.66	Q				
22+ 1	2.0950	2.66	Q				
22+ 2	2.0927	2.66	Q				
22+ 3	2.0905	2.65	Q				
22+ 4	2.0882	2.65	Q				
22+ 5	2.0859	2.65	Q				
22+ 6	2.0837	2.64	Q				
22+ 7	2.0814	2.64	Q				
22+ 8	2.0792	2.64	Q				
22+ 9	2.0770	2.64	Q				
22+10	2.0747	2.63	Q				
22+11	2.0725	2.63	Q				
22+12	2.0703	2.63	Q				
22+13	2.0681	2.62	Q				
22+14	2.0659	2.62	Q				
22+15	2.0637	2.62	Q				
22+16	2.0615	2.62	Q				
22+17	2.0593	2.61	Q				
22+18	2.0571	2.61	Q				
22+19	2.0549	2.61	Q				
22+20	2.0527	2.61	Q				
22+21	2.0506	2.60	Q				
22+22	2.0484	2.60	Q				
22+23	2.0463	2.60	Q				
22+24	2.0441	2.59	Q				
22+25	2.0420	2.59	Q				
22+26	2.0398	2.59	Q				
22+27	2.0377	2.59	Q				
22+28	2.0355	2.58	Q				
22+29	2.0334	2.58	Q				
22+30	2.0313	2.58	Q				
22+31	2.0292	2.57	Q				
22+32	2.0271	2.57	Q				
22+33	2.0250	2.57	Q				
22+34	2.0229	2.56	Q				
22+35	2.0208	2.56	Q				
22+36	2.0187	2.56	Q				
22+37	2.0166	2.56	Q				
22+38	2.0145	2.55	Q				
22+39	2.0124	2.55	Q				
22+40	2.0103	2.55	Q				
22+41	2.0083	2.55	Q				
22+42	2.0062	2.54	Q				
22+43	2.0041	2.54	Q				
22+44	2.0021	2.54	Q				
22+45	2.0000	2.54	Q				
22+46	1.9980	2.53	Q				
22+47	1.9959	2.53	Q				
22+48	1.9939	2.53	Q				
22+49	1.9918	2.53	Q				
22+50	1.9898	2.52	Q				
22+51	1.9878	2.52	Q				
22+52	1.9858	2.52	Q				
22+53	1.9837	2.52	Q				
22+54	1.9817	2.51	Q				
22+55	1.9797	2.51	Q				
22+56	1.9777	2.51	Q				
22+57	1.9757	2.51	Q				
22+58	1.9737	2.50	Q				
22+59	1.9718	2.50	Q				
23+ 0	1.9698	2.50	Q				
23+ 1	1.9678	2.50	Q				
23+ 2	1.9651	2.49	Q				

23+ 3	1.9617	2.49	Q				
23+ 4	1.9581	2.48	Q				
23+ 5	1.9543	2.48	Q				
23+ 6	1.9506	2.47	Q				
23+ 7	1.9468	2.47	Q				
23+ 8	1.9430	2.46	Q				
23+ 9	1.9393	2.46	Q				
23+10	1.9355	2.45	Q				
23+11	1.9318	2.45	Q				
23+12	1.9281	2.44	Q				
23+13	1.9244	2.44	Q				
23+14	1.9208	2.44	Q				
23+15	1.9172	2.43	Q				
23+16	1.9135	2.43	Q				
23+17	1.9099	2.42	Q				
23+18	1.9064	2.42	Q				
23+19	1.9028	2.41	Q				
23+20	1.8993	2.41	Q				
23+21	1.8958	2.40	Q				
23+22	1.8923	2.40	Q				
23+23	1.8888	2.39	Q				
23+24	1.8853	2.39	Q				
23+25	1.8819	2.39	Q				
23+26	1.8785	2.38	Q				
23+27	1.8751	2.38	Q				
23+28	1.8717	2.37	Q				
23+29	1.8683	2.37	Q				
23+30	1.8650	2.36	Q				
23+31	1.8616	2.36	Q				
23+32	1.8583	2.36	Q				
23+33	1.8550	2.35	Q				
23+34	1.8517	2.35	Q				
23+35	1.8485	2.34	Q				
23+36	1.8452	2.34	Q				
23+37	1.8420	2.34	Q				
23+38	1.8388	2.33	Q				
23+39	1.8356	2.33	Q				
23+40	1.8324	2.32	Q				
23+41	1.8293	2.32	Q				
23+42	1.8261	2.32	Q				
23+43	1.8230	2.31	Q				
23+44	1.8199	2.31	Q				
23+45	1.8168	2.30	Q				
23+46	1.8137	2.30	Q				
23+47	1.8107	2.30	Q				
23+48	1.8076	2.29	Q				
23+49	1.8046	2.29	Q				
23+50	1.8016	2.28	Q				
23+51	1.7986	2.28	Q				
23+52	1.7957	2.28	Q				
23+53	1.7927	2.27	Q				
23+54	1.7897	2.27	Q				
23+55	1.7868	2.27	Q				
23+56	1.7839	2.26	Q				
23+57	1.7810	2.26	Q				
23+58	1.7781	2.25	Q				
23+59	1.7753	2.25	Q				
24+ 0	1.7724	2.25	Q				
24+ 1	1.7696	2.24	Q				
24+ 2	1.7668	2.24	Q				
24+ 3	1.7640	2.24	Q				
24+ 4	1.7612	2.23	Q				
24+ 5	1.7584	2.23	Q				
24+ 6	1.7556	2.23	Q				
24+ 7	1.7529	2.22	Q				
24+ 8	1.7502	2.22	Q				
24+ 9	1.7474	2.22	Q				
24+10	1.7447	2.21	Q				
24+11	1.7420	2.21	Q				
24+12	1.7394	2.21	Q				
24+13	1.7367	2.20	Q				

24+14	1.7341	2.20	Q				
24+15	1.7314	2.20	Q				
24+16	1.7288	2.19	Q				
24+17	1.7262	2.19	Q				
24+18	1.7236	2.19	Q				
24+19	1.7211	2.18	Q				
24+20	1.7185	2.18	Q				
24+21	1.7159	2.18	Q				
24+22	1.7134	2.17	Q				
24+23	1.7109	2.17	Q				
24+24	1.7084	2.17	Q				
24+25	1.7059	2.16	Q				
24+26	1.7034	2.16	Q				
24+27	1.7009	2.16	Q				
24+28	1.6985	2.15	Q				
24+29	1.6960	2.15	Q				
24+30	1.6936	2.15	Q				
24+31	1.6912	2.14	Q				
24+32	1.6888	2.14	Q				
24+33	1.6864	2.14	Q				
24+34	1.6840	2.14	Q				
24+35	1.6816	2.13	Q				
24+36	1.6793	2.13	Q				
24+37	1.6769	2.13	Q				
24+38	1.6746	2.12	Q				
24+39	1.6723	2.12	Q				
24+40	1.6700	2.12	Q				
24+41	1.6677	2.11	Q				
24+42	1.6654	2.11	Q				
24+43	1.6631	2.11	Q				
24+44	1.6609	2.11	Q				
24+45	1.6586	2.10	Q				
24+46	1.6564	2.10	Q				
24+47	1.6542	2.10	Q				
24+48	1.6520	2.09	Q				
24+49	1.6498	2.09	Q				
24+50	1.6476	2.09	Q				
24+51	1.6454	2.09	Q				
24+52	1.6432	2.08	Q				
24+53	1.6411	2.08	Q				
24+54	1.6389	2.08	Q				
24+55	1.6368	2.08	Q				
24+56	1.6347	2.07	Q				
24+57	1.6326	2.07	Q				
24+58	1.6305	2.07	Q				
24+59	1.6284	2.06	Q				
25+ 0	1.6263	2.06	Q				
25+ 1	1.6243	2.06	Q				
25+ 2	1.6222	2.06	Q				
25+ 3	1.6202	2.05	Q				
25+ 4	1.6181	2.05	Q				
25+ 5	1.6161	2.05	Q				
25+ 6	1.6141	2.05	Q				
25+ 7	1.6121	2.04	Q				
25+ 8	1.6101	2.04	Q				
25+ 9	1.6081	2.04	Q				
25+10	1.6061	2.04	Q				
25+11	1.6042	2.03	Q				
25+12	1.6022	2.03	Q				
25+13	1.6003	2.03	Q				
25+14	1.5983	2.03	Q				
25+15	1.5964	2.02	Q				
25+16	1.5945	2.02	Q				
25+17	1.5926	2.02	Q				
25+18	1.5907	2.02	Q				
25+19	1.5888	2.01	Q				
25+20	1.5870	2.01	Q				
25+21	1.5851	2.01	Q				
25+22	1.5832	2.01	Q				
25+23	1.5814	2.01	Q				
25+24	1.5796	2.00	Q				

25+25	1.5777	2.00	Q				
25+26	1.5759	2.00	Q				
25+27	1.5741	2.00	Q				
25+28	1.5723	1.99	Q				
25+29	1.5705	1.99	Q				
25+30	1.5687	1.99	Q				
25+31	1.5670	1.99	Q				
25+32	1.5652	1.98	Q				
25+33	1.5635	1.98	Q				
25+34	1.5617	1.98	Q				
25+35	1.5600	1.98	Q				
25+36	1.5582	1.98	Q				
25+37	1.5565	1.97	Q				
25+38	1.5548	1.97	Q				
25+39	1.5531	1.97	Q				
25+40	1.5514	1.97	Q				
25+41	1.5497	1.97	Q				
25+42	1.5481	1.96	Q				
25+43	1.5464	1.96	Q				
25+44	1.5447	1.96	Q				
25+45	1.5431	1.96	Q				
25+46	1.5415	1.95	Q				
25+47	1.5398	1.95	Q				
25+48	1.5382	1.95	Q				
25+49	1.5366	1.95	Q				
25+50	1.5350	1.95	Q				
25+51	1.5334	1.94	Q				
25+52	1.5318	1.94	Q				
25+53	1.5302	1.94	Q				
25+54	1.5286	1.94	Q				
25+55	1.5270	1.94	Q				
25+56	1.5255	1.93	Q				
25+57	1.5239	1.93	Q				
25+58	1.5224	1.93	Q				
25+59	1.5208	1.93	Q				
26+ 0	1.5193	1.93	Q				
26+ 1	1.5178	1.92	Q				
26+ 2	1.5163	1.92	Q				
26+ 3	1.5148	1.92	Q				
26+ 4	1.5133	1.92	Q				
26+ 5	1.5118	1.92	Q				
26+ 6	1.5103	1.92	Q				
26+ 7	1.5088	1.91	Q				
26+ 8	1.5073	1.91	Q				
26+ 9	1.5059	1.91	Q				
26+10	1.5044	1.91	Q				
26+11	1.5030	1.91	Q				
26+12	1.5015	1.90	Q				
26+13	1.5001	1.90	Q				
26+14	1.4987	1.90	Q				
26+15	1.4972	1.90	Q				
26+16	1.4958	1.90	Q				
26+17	1.4944	1.89	Q				
26+18	1.4930	1.89	Q				
26+19	1.4916	1.89	Q				
26+20	1.4902	1.89	Q				
26+21	1.4889	1.89	Q				
26+22	1.4875	1.89	Q				
26+23	1.4861	1.88	Q				
26+24	1.4848	1.88	Q				
26+25	1.4834	1.88	Q				
26+26	1.4821	1.88	Q				
26+27	1.4807	1.88	Q				
26+28	1.4794	1.88	Q				
26+29	1.4781	1.87	Q				
26+30	1.4767	1.87	Q				
26+31	1.4754	1.87	Q				
26+32	1.4741	1.87	Q				
26+33	1.4728	1.87	Q				
26+34	1.4715	1.87	Q				
26+35	1.4702	1.86	Q				

26+36	1.4690	1.86	Q				
26+37	1.4677	1.86	Q				
26+38	1.4664	1.86	Q				
26+39	1.4651	1.86	Q				
26+40	1.4639	1.86	Q				
26+41	1.4626	1.85	Q				
26+42	1.4614	1.85	Q				
26+43	1.4601	1.85	Q				
26+44	1.4589	1.85	Q				
26+45	1.4577	1.85	Q				
26+46	1.4565	1.85	Q				
26+47	1.4552	1.85	Q				
26+48	1.4540	1.84	Q				
26+49	1.4528	1.84	Q				
26+50	1.4516	1.84	Q				
26+51	1.4504	1.84	Q				
26+52	1.4492	1.84	Q				
26+53	1.4481	1.84	Q				
26+54	1.4469	1.83	Q				
26+55	1.4457	1.83	Q				
26+56	1.4445	1.83	Q				
26+57	1.4434	1.83	Q				
26+58	1.4422	1.83	Q				
26+59	1.4411	1.83	Q				
27+ 0	1.4399	1.83	Q				
27+ 1	1.4388	1.82	Q				
27+ 2	1.4377	1.82	Q				
27+ 3	1.4365	1.82	Q				
27+ 4	1.4354	1.82	Q				
27+ 5	1.4343	1.82	Q				
27+ 6	1.4332	1.82	Q				
27+ 7	1.4321	1.82	Q				
27+ 8	1.4310	1.81	Q				
27+ 9	1.4299	1.81	Q				
27+10	1.4288	1.81	Q				
27+11	1.4277	1.81	Q				
27+12	1.4266	1.81	Q				
27+13	1.4255	1.81	Q				
27+14	1.4245	1.81	Q				
27+15	1.4234	1.80	Q				
27+16	1.4223	1.80	Q				
27+17	1.4213	1.80	Q				
27+18	1.4202	1.80	Q				
27+19	1.4192	1.80	Q				
27+20	1.4181	1.80	Q				
27+21	1.4171	1.80	Q				
27+22	1.4161	1.80	Q				
27+23	1.4151	1.79	Q				
27+24	1.4140	1.79	Q				
27+25	1.4130	1.79	Q				
27+26	1.4120	1.79	Q				
27+27	1.4110	1.79	Q				
27+28	1.4100	1.79	Q				
27+29	1.4090	1.79	Q				
27+30	1.4080	1.79	Q				
27+31	1.4070	1.78	Q				
27+32	1.4060	1.78	Q				
27+33	1.4050	1.78	Q				
27+34	1.4040	1.78	Q				
27+35	1.4031	1.78	Q				
27+36	1.4021	1.78	Q				
27+37	1.4011	1.78	Q				
27+38	1.4002	1.78	Q				
27+39	1.3992	1.77	Q				
27+40	1.3983	1.77	Q				
27+41	1.3973	1.77	Q				
27+42	1.3964	1.77	Q				
27+43	1.3954	1.77	Q				
27+44	1.3945	1.77	Q				
27+45	1.3936	1.77	Q				
27+46	1.3927	1.77	Q				

27+47	1.3917	1.76	IQ				
27+48	1.3908	1.76	IQ				
27+49	1.3899	1.76	IQ				
27+50	1.3890	1.76	IQ				
27+51	1.3881	1.76	IQ				
27+52	1.3872	1.76	IQ				
27+53	1.3863	1.76	IQ				
27+54	1.3854	1.76	IQ				
27+55	1.3845	1.76	IQ				
27+56	1.3836	1.75	IQ				
27+57	1.3827	1.75	IQ				
27+58	1.3819	1.75	IQ				
27+59	1.3810	1.75	IQ				
28+ 0	1.3801	1.75	IQ				
28+ 1	1.3793	1.75	IQ				
28+ 2	1.3784	1.75	IQ				
28+ 3	1.3775	1.75	IQ				
28+ 4	1.3767	1.75	IQ				
28+ 5	1.3758	1.74	IQ				
28+ 6	1.3750	1.74	IQ				
28+ 7	1.3741	1.74	IQ				
28+ 8	1.3733	1.74	IQ				
28+ 9	1.3725	1.74	IQ				
28+10	1.3716	1.74	IQ				
28+11	1.3708	1.74	IQ				
28+12	1.3700	1.74	IQ				
28+13	1.3691	1.74	IQ				
28+14	1.3683	1.73	IQ				
28+15	1.3675	1.73	IQ				
28+16	1.3667	1.73	IQ				
28+17	1.3659	1.73	IQ				
28+18	1.3651	1.73	IQ				
28+19	1.3643	1.73	IQ				
28+20	1.3635	1.73	IQ				
28+21	1.3627	1.73	IQ				
28+22	1.3619	1.73	IQ				
28+23	1.3611	1.73	IQ				
28+24	1.3603	1.72	IQ				
28+25	1.3595	1.72	IQ				
28+26	1.3588	1.72	IQ				
28+27	1.3580	1.72	IQ				
28+28	1.3572	1.72	IQ				
28+29	1.3563	1.72	IQ				
28+30	1.3553	1.72	IQ				
28+31	1.3543	1.72	IQ				
28+32	1.3533	1.72	IQ				
28+33	1.3523	1.71	IQ				
28+34	1.3513	1.71	IQ				
28+35	1.3503	1.71	IQ				
28+36	1.3493	1.71	IQ				
28+37	1.3483	1.71	IQ				
28+38	1.3473	1.71	IQ				
28+39	1.3463	1.71	IQ				
28+40	1.3453	1.71	IQ				
28+41	1.3444	1.70	IQ				
28+42	1.3434	1.70	IQ				
28+43	1.3424	1.70	IQ				
28+44	1.3415	1.70	IQ				
28+45	1.3405	1.70	IQ				
28+46	1.3395	1.70	IQ				
28+47	1.3386	1.70	IQ				
28+48	1.3376	1.70	IQ				
28+49	1.3367	1.69	IQ				
28+50	1.3357	1.69	IQ				
28+51	1.3348	1.69	IQ				
28+52	1.3338	1.69	IQ				
28+53	1.3329	1.69	IQ				
28+54	1.3320	1.69	IQ				
28+55	1.3310	1.69	IQ				
28+56	1.3301	1.69	IQ				
28+57	1.3292	1.69	IQ				

28+58	1.3283	1.68	IQ				
28+59	1.3273	1.68	IQ				
29+ 0	1.3264	1.68	IQ				
29+ 1	1.3255	1.68	IQ				
29+ 2	1.3246	1.68	IQ				
29+ 3	1.3237	1.68	IQ				
29+ 4	1.3228	1.68	IQ				
29+ 5	1.3219	1.68	IQ				
29+ 6	1.3210	1.67	IQ				
29+ 7	1.3201	1.67	IQ				
29+ 8	1.3192	1.67	IQ				
29+ 9	1.3183	1.67	IQ				
29+10	1.3174	1.67	IQ				
29+11	1.3165	1.67	IQ				
29+12	1.3156	1.67	IQ				
29+13	1.3147	1.67	IQ				
29+14	1.3138	1.67	IQ				
29+15	1.3130	1.66	IQ				
29+16	1.3121	1.66	IQ				
29+17	1.3112	1.66	IQ				
29+18	1.3103	1.66	IQ				
29+19	1.3095	1.66	IQ				
29+20	1.3086	1.66	IQ				
29+21	1.3078	1.66	IQ				
29+22	1.3069	1.66	IQ				
29+23	1.3060	1.66	IQ				
29+24	1.3052	1.65	IQ				
29+25	1.3043	1.65	IQ				
29+26	1.3035	1.65	IQ				
29+27	1.3026	1.65	IQ				
29+28	1.3018	1.65	IQ				
29+29	1.3009	1.65	IQ				
29+30	1.3001	1.65	IQ				
29+31	1.2993	1.65	IQ				
29+32	1.2984	1.65	IQ				
29+33	1.2976	1.65	IQ				
29+34	1.2968	1.64	IQ				
29+35	1.2959	1.64	IQ				
29+36	1.2951	1.64	IQ				
29+37	1.2943	1.64	IQ				
29+38	1.2935	1.64	IQ				
29+39	1.2926	1.64	IQ				
29+40	1.2918	1.64	IQ				
29+41	1.2910	1.64	IQ				
29+42	1.2902	1.64	IQ				
29+43	1.2894	1.63	IQ				
29+44	1.2886	1.63	IQ				
29+45	1.2878	1.63	IQ				
29+46	1.2870	1.63	IQ				
29+47	1.2862	1.63	IQ				
29+48	1.2854	1.63	IQ				
29+49	1.2846	1.63	IQ				
29+50	1.2838	1.63	IQ				
29+51	1.2830	1.63	IQ				
29+52	1.2822	1.63	IQ				
29+53	1.2814	1.62	IQ				
29+54	1.2806	1.62	IQ				
29+55	1.2798	1.62	IQ				
29+56	1.2791	1.62	IQ				
29+57	1.2783	1.62	IQ				
29+58	1.2775	1.62	IQ				
29+59	1.2767	1.62	IQ				
30+ 0	1.2760	1.62	IQ				
30+ 1	1.2752	1.62	IQ				
30+ 2	1.2744	1.62	IQ				
30+ 3	1.2737	1.61	IQ				
30+ 4	1.2729	1.61	IQ				
30+ 5	1.2721	1.61	IQ				
30+ 6	1.2714	1.61	IQ				
30+ 7	1.2706	1.61	IQ				
30+ 8	1.2698	1.61	IQ				

30+ 9	1.2691	1.61	Q				
30+10	1.2683	1.61	Q				
30+11	1.2676	1.61	Q				
30+12	1.2668	1.61	Q				
30+13	1.2661	1.61	Q				
30+14	1.2653	1.60	Q				
30+15	1.2646	1.60	Q				
30+16	1.2639	1.60	Q				
30+17	1.2631	1.60	Q				
30+18	1.2624	1.60	Q				
30+19	1.2616	1.60	Q				
30+20	1.2609	1.60	Q				
30+21	1.2602	1.60	Q				
30+22	1.2594	1.60	Q				
30+23	1.2587	1.60	Q				
30+24	1.2580	1.60	Q				
30+25	1.2573	1.59	Q				
30+26	1.2565	1.59	Q				
30+27	1.2558	1.59	Q				
30+28	1.2551	1.59	Q				
30+29	1.2544	1.59	Q				
30+30	1.2537	1.59	Q				
30+31	1.2530	1.59	Q				
30+32	1.2522	1.59	Q				
30+33	1.2515	1.59	Q				
30+34	1.2508	1.59	Q				
30+35	1.2501	1.59	Q				
30+36	1.2494	1.58	Q				
30+37	1.2487	1.58	Q				
30+38	1.2480	1.58	Q				
30+39	1.2473	1.58	Q				
30+40	1.2466	1.58	Q				
30+41	1.2459	1.58	Q				
30+42	1.2452	1.58	Q				
30+43	1.2445	1.58	Q				
30+44	1.2438	1.58	Q				
30+45	1.2431	1.58	Q				
30+46	1.2424	1.58	Q				
30+47	1.2417	1.57	Q				
30+48	1.2411	1.57	Q				
30+49	1.2404	1.57	Q				
30+50	1.2397	1.57	Q				
30+51	1.2390	1.57	Q				
30+52	1.2383	1.57	Q				
30+53	1.2377	1.57	Q				
30+54	1.2370	1.57	Q				
30+55	1.2363	1.57	Q				
30+56	1.2356	1.57	Q				
30+57	1.2350	1.57	Q				
30+58	1.2343	1.57	Q				
30+59	1.2336	1.56	Q				
31+ 0	1.2329	1.56	Q				
31+ 1	1.2323	1.56	Q				
31+ 2	1.2316	1.56	Q				
31+ 3	1.2309	1.56	Q				
31+ 4	1.2303	1.56	Q				
31+ 5	1.2296	1.56	Q				
31+ 6	1.2290	1.56	Q				
31+ 7	1.2283	1.56	Q				
31+ 8	1.2277	1.56	Q				
31+ 9	1.2270	1.56	Q				
31+10	1.2263	1.55	Q				
31+11	1.2257	1.55	Q				
31+12	1.2250	1.55	Q				
31+13	1.2244	1.55	Q				
31+14	1.2237	1.55	Q				
31+15	1.2231	1.55	Q				
31+16	1.2225	1.55	Q				
31+17	1.2218	1.55	Q				
31+18	1.2212	1.55	Q				
31+19	1.2205	1.55	Q				

31+20	1.2199	1.55	Q				
31+21	1.2192	1.55	Q				
31+22	1.2186	1.55	Q				
31+23	1.2180	1.54	Q				
31+24	1.2173	1.54	Q				
31+25	1.2167	1.54	Q				
31+26	1.2161	1.54	Q				
31+27	1.2154	1.54	Q				
31+28	1.2148	1.54	Q				
31+29	1.2142	1.54	Q				
31+30	1.2136	1.54	Q				
31+31	1.2129	1.54	Q				
31+32	1.2123	1.54	Q				
31+33	1.2117	1.54	Q				
31+34	1.2111	1.54	Q				
31+35	1.2104	1.53	Q				
31+36	1.2098	1.53	Q				
31+37	1.2092	1.53	Q				
31+38	1.2086	1.53	Q				
31+39	1.2080	1.53	Q				
31+40	1.2074	1.53	Q				
31+41	1.2068	1.53	Q				
31+42	1.2061	1.53	Q				
31+43	1.2055	1.53	Q				
31+44	1.2049	1.53	Q				
31+45	1.2043	1.53	Q				
31+46	1.2037	1.53	Q				
31+47	1.2031	1.53	Q				
31+48	1.2025	1.52	Q				
31+49	1.2019	1.52	Q				
31+50	1.2013	1.52	Q				
31+51	1.2007	1.52	Q				
31+52	1.2001	1.52	Q				
31+53	1.1995	1.52	Q				
31+54	1.1989	1.52	Q				
31+55	1.1983	1.52	Q				
31+56	1.1977	1.52	Q				
31+57	1.1971	1.52	Q				
31+58	1.1965	1.52	Q				
31+59	1.1959	1.52	Q				
32+ 0	1.1953	1.52	Q				
32+ 1	1.1947	1.51	Q				
32+ 2	1.1942	1.51	Q				
32+ 3	1.1936	1.51	Q				
32+ 4	1.1930	1.51	Q				
32+ 5	1.1924	1.51	Q				
32+ 6	1.1918	1.51	Q				
32+ 7	1.1912	1.51	Q				
32+ 8	1.1906	1.51	Q				
32+ 9	1.1901	1.51	Q				
32+10	1.1895	1.51	Q				
32+11	1.1889	1.51	Q				
32+12	1.1883	1.51	Q				
32+13	1.1877	1.51	Q				
32+14	1.1872	1.51	Q				
32+15	1.1866	1.50	Q				
32+16	1.1860	1.50	Q				
32+17	1.1854	1.50	Q				
32+18	1.1849	1.50	Q				
32+19	1.1843	1.50	Q				
32+20	1.1837	1.50	Q				
32+21	1.1832	1.50	Q				
32+22	1.1826	1.50	Q				
32+23	1.1820	1.50	Q				
32+24	1.1815	1.50	Q				
32+25	1.1809	1.50	Q				
32+26	1.1803	1.50	Q				
32+27	1.1798	1.50	Q				
32+28	1.1792	1.50	Q				
32+29	1.1786	1.49	Q				
32+30	1.1781	1.49	Q				

32+31	1.1775	1.49	Q				
32+32	1.1770	1.49	Q				
32+33	1.1764	1.49	Q				
32+34	1.1759	1.49	Q				
32+35	1.1753	1.49	Q				
32+36	1.1747	1.49	Q				
32+37	1.1742	1.49	Q				
32+38	1.1736	1.49	Q				
32+39	1.1731	1.49	Q				
32+40	1.1725	1.49	Q				
32+41	1.1720	1.49	Q				
32+42	1.1714	1.49	Q				
32+43	1.1709	1.48	Q				
32+44	1.1703	1.48	Q				
32+45	1.1698	1.48	Q				
32+46	1.1692	1.48	Q				
32+47	1.1687	1.48	Q				
32+48	1.1682	1.48	Q				
32+49	1.1676	1.48	Q				
32+50	1.1671	1.48	Q				
32+51	1.1665	1.48	Q				
32+52	1.1660	1.48	Q				
32+53	1.1654	1.48	Q				
32+54	1.1649	1.48	Q				
32+55	1.1644	1.48	Q				
32+56	1.1638	1.48	Q				
32+57	1.1633	1.48	Q				
32+58	1.1628	1.47	Q				
32+59	1.1622	1.47	Q				
33+ 0	1.1617	1.47	Q				
33+ 1	1.1612	1.47	Q				
33+ 2	1.1606	1.47	Q				
33+ 3	1.1601	1.47	Q				
33+ 4	1.1596	1.47	Q				
33+ 5	1.1590	1.47	Q				
33+ 6	1.1585	1.47	Q				
33+ 7	1.1580	1.47	Q				
33+ 8	1.1574	1.47	Q				
33+ 9	1.1569	1.47	Q				
33+10	1.1564	1.47	Q				
33+11	1.1559	1.47	Q				
33+12	1.1553	1.46	Q				
33+13	1.1548	1.46	Q				
33+14	1.1543	1.46	Q				
33+15	1.1538	1.46	Q				
33+16	1.1533	1.46	Q				
33+17	1.1527	1.46	Q				
33+18	1.1522	1.46	Q				
33+19	1.1517	1.46	Q				
33+20	1.1512	1.46	Q				
33+21	1.1507	1.46	Q				
33+22	1.1501	1.46	Q				
33+23	1.1496	1.46	Q				
33+24	1.1491	1.46	Q				
33+25	1.1486	1.46	Q				
33+26	1.1481	1.46	Q				
33+27	1.1476	1.46	Q				
33+28	1.1471	1.45	Q				
33+29	1.1465	1.45	Q				
33+30	1.1460	1.45	Q				
33+31	1.1455	1.45	Q				
33+32	1.1450	1.45	Q				
33+33	1.1445	1.45	Q				
33+34	1.1440	1.45	Q				
33+35	1.1435	1.45	Q				
33+36	1.1430	1.45	Q				
33+37	1.1425	1.45	Q				
33+38	1.1420	1.45	Q				
33+39	1.1415	1.45	Q				
33+40	1.1410	1.45	Q				
33+41	1.1405	1.45	Q				

33+42	1.1400	1.45	Q				
33+43	1.1395	1.44	Q				
33+44	1.1390	1.44	Q				
33+45	1.1385	1.44	Q				
33+46	1.1380	1.44	Q				
33+47	1.1375	1.44	Q				
33+48	1.1370	1.44	Q				
33+49	1.1365	1.44	Q				
33+50	1.1360	1.44	Q				
33+51	1.1355	1.44	Q				
33+52	1.1350	1.44	Q				
33+53	1.1345	1.44	Q				
33+54	1.1340	1.44	Q				
33+55	1.1335	1.44	Q				
33+56	1.1330	1.44	Q				
33+57	1.1325	1.44	Q				
33+58	1.1320	1.44	Q				
33+59	1.1315	1.43	Q				
34+ 0	1.1310	1.43	Q				
34+ 1	1.1305	1.43	Q				
34+ 2	1.1300	1.43	Q				
34+ 3	1.1295	1.43	Q				
34+ 4	1.1291	1.43	Q				
34+ 5	1.1286	1.43	Q				
34+ 6	1.1281	1.43	Q				
34+ 7	1.1276	1.43	Q				
34+ 8	1.1271	1.43	Q				
34+ 9	1.1266	1.43	Q				
34+10	1.1261	1.43	Q				
34+11	1.1257	1.43	Q				
34+12	1.1252	1.43	Q				
34+13	1.1247	1.43	Q				
34+14	1.1242	1.43	Q				
34+15	1.1237	1.42	Q				
34+16	1.1232	1.42	Q				
34+17	1.1228	1.42	Q				
34+18	1.1223	1.42	Q				
34+19	1.1218	1.42	Q				
34+20	1.1213	1.42	Q				
34+21	1.1208	1.42	Q				
34+22	1.1204	1.42	Q				
34+23	1.1199	1.42	Q				
34+24	1.1194	1.42	Q				
34+25	1.1189	1.42	Q				
34+26	1.1185	1.42	Q				
34+27	1.1180	1.42	Q				
34+28	1.1175	1.42	Q				
34+29	1.1170	1.42	Q				
34+30	1.1166	1.42	Q				
34+31	1.1161	1.42	Q				
34+32	1.1156	1.41	Q				
34+33	1.1150	1.41	Q				
34+34	1.1144	1.41	Q				
34+35	1.1139	1.41	Q				
34+36	1.1133	1.41	Q				
34+37	1.1127	1.41	Q				
34+38	1.1122	1.41	Q				
34+39	1.1116	1.41	Q				
34+40	1.1110	1.41	Q				
34+41	1.1105	1.41	Q				
34+42	1.1099	1.41	Q				
34+43	1.1093	1.41	Q				
34+44	1.1088	1.41	Q				
34+45	1.1082	1.41	Q				
34+46	1.1076	1.40	Q				
34+47	1.1071	1.40	Q				
34+48	1.1065	1.40	Q				
34+49	1.1059	1.40	Q				
34+50	1.1054	1.40	Q				
34+51	1.1048	1.40	Q				
34+52	1.1042	1.40	Q				

34+53	1.1037	1.40	Q				
34+54	1.1031	1.40	Q				
34+55	1.1026	1.40	Q				
34+56	1.1020	1.40	Q				
34+57	1.1014	1.40	Q				
34+58	1.1009	1.40	Q				
34+59	1.1003	1.40	Q				
35+ 0	1.0998	1.39	Q				
35+ 1	1.0992	1.39	Q				
35+ 2	1.0986	1.39	Q				
35+ 3	1.0981	1.39	Q				
35+ 4	1.0975	1.39	Q				
35+ 5	1.0970	1.39	Q				
35+ 6	1.0964	1.39	Q				
35+ 7	1.0959	1.39	Q				
35+ 8	1.0953	1.39	Q				
35+ 9	1.0948	1.39	Q				
35+10	1.0942	1.39	Q				
35+11	1.0937	1.39	Q				
35+12	1.0931	1.39	Q				
35+13	1.0926	1.39	Q				
35+14	1.0920	1.38	Q				
35+15	1.0915	1.38	Q				
35+16	1.0909	1.38	Q				
35+17	1.0904	1.38	Q				
35+18	1.0898	1.38	Q				
35+19	1.0893	1.38	Q				
35+20	1.0887	1.38	Q				
35+21	1.0882	1.38	Q				
35+22	1.0876	1.38	Q				
35+23	1.0871	1.38	Q				
35+24	1.0865	1.38	Q				
35+25	1.0860	1.38	Q				
35+26	1.0855	1.38	Q				
35+27	1.0849	1.38	Q				
35+28	1.0844	1.37	Q				
35+29	1.0838	1.37	Q				
35+30	1.0833	1.37	Q				
35+31	1.0827	1.37	Q				
35+32	1.0822	1.37	Q				
35+33	1.0817	1.37	Q				
35+34	1.0811	1.37	Q				
35+35	1.0806	1.37	Q				
35+36	1.0800	1.37	Q				
35+37	1.0795	1.37	Q				
35+38	1.0790	1.37	Q				
35+39	1.0784	1.37	Q				
35+40	1.0779	1.37	Q				
35+41	1.0774	1.37	Q				
35+42	1.0768	1.37	Q				
35+43	1.0763	1.36	Q				
35+44	1.0758	1.36	Q				
35+45	1.0752	1.36	Q				
35+46	1.0747	1.36	Q				
35+47	1.0742	1.36	Q				
35+48	1.0736	1.36	Q				
35+49	1.0731	1.36	Q				
35+50	1.0726	1.36	Q				
35+51	1.0720	1.36	Q				
35+52	1.0715	1.36	Q				
35+53	1.0710	1.36	Q				
35+54	1.0704	1.36	Q				
35+55	1.0699	1.36	Q				
35+56	1.0694	1.36	Q				
35+57	1.0688	1.36	Q				
35+58	1.0683	1.35	Q				
35+59	1.0678	1.35	Q				
36+ 0	1.0673	1.35	Q				
36+ 1	1.0667	1.35	Q				
36+ 2	1.0662	1.35	Q				
36+ 3	1.0657	1.35	Q				

36+ 4	1.0652	1.35	Q				
36+ 5	1.0646	1.35	Q				
36+ 6	1.0641	1.35	Q				
36+ 7	1.0636	1.35	Q				
36+ 8	1.0631	1.35	Q				
36+ 9	1.0625	1.35	Q				
36+10	1.0620	1.35	Q				
36+11	1.0615	1.35	Q				
36+12	1.0610	1.35	Q				
36+13	1.0605	1.34	Q				
36+14	1.0599	1.34	Q				
36+15	1.0594	1.34	Q				
36+16	1.0589	1.34	Q				
36+17	1.0584	1.34	Q				
36+18	1.0579	1.34	Q				
36+19	1.0573	1.34	Q				
36+20	1.0568	1.34	Q				
36+21	1.0563	1.34	Q				
36+22	1.0558	1.34	Q				
36+23	1.0553	1.34	Q				
36+24	1.0547	1.34	Q				
36+25	1.0542	1.34	Q				
36+26	1.0537	1.34	Q				
36+27	1.0532	1.34	Q				
36+28	1.0527	1.33	Q				
36+29	1.0522	1.33	Q				
36+30	1.0517	1.33	Q				
36+31	1.0511	1.33	Q				
36+32	1.0506	1.33	Q				
36+33	1.0501	1.33	Q				
36+34	1.0496	1.33	Q				
36+35	1.0491	1.33	Q				
36+36	1.0486	1.33	Q				
36+37	1.0481	1.33	Q				
36+38	1.0476	1.33	Q				
36+39	1.0470	1.33	Q				
36+40	1.0465	1.33	Q				
36+41	1.0460	1.33	Q				
36+42	1.0455	1.33	Q				
36+43	1.0450	1.33	Q				
36+44	1.0445	1.32	Q				
36+45	1.0440	1.32	Q				
36+46	1.0435	1.32	Q				
36+47	1.0430	1.32	Q				
36+48	1.0425	1.32	Q				
36+49	1.0420	1.32	Q				
36+50	1.0415	1.32	Q				
36+51	1.0409	1.32	Q				
36+52	1.0404	1.32	Q				
36+53	1.0399	1.32	Q				
36+54	1.0394	1.32	Q				
36+55	1.0389	1.32	Q				
36+56	1.0384	1.32	Q				
36+57	1.0379	1.32	Q				
36+58	1.0374	1.32	Q				
36+59	1.0369	1.31	Q				
37+ 0	1.0364	1.31	Q				
37+ 1	1.0359	1.31	Q				
37+ 2	1.0354	1.31	Q				
37+ 3	1.0349	1.31	Q				
37+ 4	1.0344	1.31	Q				
37+ 5	1.0339	1.31	Q				
37+ 6	1.0334	1.31	Q				
37+ 7	1.0329	1.31	Q				
37+ 8	1.0324	1.31	Q				
37+ 9	1.0319	1.31	Q				
37+10	1.0314	1.31	Q				
37+11	1.0309	1.31	Q				
37+12	1.0304	1.31	Q				
37+13	1.0299	1.31	Q				
37+14	1.0290	1.30	Q				

37+15	1.0281	1.30	IQ				
37+16	1.0271	1.30	IQ				
37+17	1.0261	1.30	IQ				
37+18	1.0251	1.30	IQ				
37+19	1.0241	1.30	IQ				
37+20	1.0231	1.30	IQ				
37+21	1.0221	1.30	IQ				
37+22	1.0211	1.29	IQ				
37+23	1.0201	1.29	IQ				
37+24	1.0191	1.29	IQ				
37+25	1.0181	1.29	IQ				
37+26	1.0171	1.29	IQ				
37+27	1.0162	1.29	IQ				
37+28	1.0152	1.29	IQ				
37+29	1.0142	1.29	IQ				
37+30	1.0132	1.28	IQ				
37+31	1.0122	1.28	IQ				
37+32	1.0112	1.28	IQ				
37+33	1.0103	1.28	IQ				
37+34	1.0093	1.28	IQ				
37+35	1.0083	1.28	IQ				
37+36	1.0073	1.28	IQ				
37+37	1.0064	1.28	IQ				
37+38	1.0054	1.27	IQ				
37+39	1.0044	1.27	IQ				
37+40	1.0034	1.27	IQ				
37+41	1.0025	1.27	IQ				
37+42	1.0015	1.27	IQ				
37+43	1.0005	1.27	IQ				
37+44	0.9996	1.27	Q				
37+45	0.9986	1.27	Q				
37+46	0.9976	1.26	Q				
37+47	0.9967	1.26	Q				
37+48	0.9957	1.26	Q				
37+49	0.9947	1.26	Q				
37+50	0.9938	1.26	Q				
37+51	0.9928	1.26	Q				
37+52	0.9918	1.26	Q				
37+53	0.9909	1.26	Q				
37+54	0.9899	1.26	Q				
37+55	0.9890	1.25	Q				
37+56	0.9880	1.25	Q				
37+57	0.9871	1.25	Q				
37+58	0.9861	1.25	Q				
37+59	0.9852	1.25	Q				
38+ 0	0.9842	1.25	Q				
38+ 1	0.9832	1.25	Q				
38+ 2	0.9823	1.25	Q				
38+ 3	0.9813	1.24	Q				
38+ 4	0.9804	1.24	Q				
38+ 5	0.9795	1.24	Q				
38+ 6	0.9785	1.24	Q				
38+ 7	0.9776	1.24	Q				
38+ 8	0.9766	1.24	Q				
38+ 9	0.9757	1.24	Q				
38+10	0.9747	1.24	Q				
38+11	0.9738	1.23	Q				
38+12	0.9728	1.23	Q				
38+13	0.9719	1.23	Q				
38+14	0.9710	1.23	Q				
38+15	0.9700	1.23	Q				
38+16	0.9691	1.23	Q				
38+17	0.9682	1.23	Q				
38+18	0.9672	1.23	Q				
38+19	0.9663	1.23	Q				
38+20	0.9654	1.22	Q				
38+21	0.9644	1.22	Q				
38+22	0.9635	1.22	Q				
38+23	0.9626	1.22	Q				
38+24	0.9616	1.22	Q				
38+25	0.9607	1.22	Q				

38+26	0.9598	1.22	Q				
38+27	0.9589	1.22	Q				
38+28	0.9579	1.21	Q				
38+29	0.9570	1.21	Q				
38+30	0.9561	1.21	Q				
38+31	0.9552	1.21	Q				
38+32	0.9542	1.21	Q				
38+33	0.9533	1.21	Q				
38+34	0.9524	1.21	Q				
38+35	0.9515	1.21	Q				
38+36	0.9506	1.21	Q				
38+37	0.9497	1.20	Q				
38+38	0.9487	1.20	Q				
38+39	0.9478	1.20	Q				
38+40	0.9469	1.20	Q				
38+41	0.9460	1.20	Q				
38+42	0.9451	1.20	Q				
38+43	0.9442	1.20	Q				
38+44	0.9433	1.20	Q				
38+45	0.9424	1.19	Q				
38+46	0.9415	1.19	Q				
38+47	0.9405	1.19	Q				
38+48	0.9396	1.19	Q				
38+49	0.9387	1.19	Q				
38+50	0.9378	1.19	Q				
38+51	0.9369	1.19	Q				
38+52	0.9360	1.19	Q				
38+53	0.9351	1.19	Q				
38+54	0.9342	1.18	Q				
38+55	0.9333	1.18	Q				
38+56	0.9324	1.18	Q				
38+57	0.9315	1.18	Q				
38+58	0.9306	1.18	Q				
38+59	0.9297	1.18	Q				
39+ 0	0.9288	1.18	Q				
39+ 1	0.9280	1.18	Q				
39+ 2	0.9271	1.18	Q				
39+ 3	0.9262	1.17	Q				
39+ 4	0.9253	1.17	Q				
39+ 5	0.9244	1.17	Q				
39+ 6	0.9235	1.17	Q				
39+ 7	0.9226	1.17	Q				
39+ 8	0.9217	1.17	Q				
39+ 9	0.9208	1.17	Q				
39+10	0.9200	1.17	Q				
39+11	0.9191	1.17	Q				
39+12	0.9182	1.16	Q				
39+13	0.9173	1.16	Q				
39+14	0.9164	1.16	Q				
39+15	0.9155	1.16	Q				
39+16	0.9147	1.16	Q				
39+17	0.9138	1.16	Q				
39+18	0.9129	1.16	Q				
39+19	0.9120	1.16	Q				
39+20	0.9111	1.16	Q				
39+21	0.9103	1.15	Q				
39+22	0.9094	1.15	Q				
39+23	0.9085	1.15	Q				
39+24	0.9076	1.15	Q				
39+25	0.9068	1.15	Q				
39+26	0.9059	1.15	Q				
39+27	0.9050	1.15	Q				
39+28	0.9042	1.15	Q				
39+29	0.9033	1.15	Q				
39+30	0.9024	1.14	Q				
39+31	0.9016	1.14	Q				
39+32	0.9007	1.14	Q				
39+33	0.8998	1.14	Q				
39+34	0.8990	1.14	Q				
39+35	0.8981	1.14	Q				
39+36	0.8972	1.14	Q				

39+37	0.8964	1.14	Q				
39+38	0.8955	1.14	Q				
39+39	0.8947	1.13	Q				
39+40	0.8938	1.13	Q				
39+41	0.8929	1.13	Q				
39+42	0.8921	1.13	Q				
39+43	0.8912	1.13	Q				
39+44	0.8904	1.13	Q				
39+45	0.8895	1.13	Q				
39+46	0.8887	1.13	Q				
39+47	0.8878	1.13	Q				
39+48	0.8870	1.12	Q				
39+49	0.8861	1.12	Q				
39+50	0.8853	1.12	Q				
39+51	0.8844	1.12	Q				
39+52	0.8836	1.12	Q				
39+53	0.8827	1.12	Q				
39+54	0.8819	1.12	Q				
39+55	0.8810	1.12	Q				
39+56	0.8802	1.12	Q				
39+57	0.8793	1.11	Q				
39+58	0.8785	1.11	Q				
39+59	0.8776	1.11	Q				
40+ 0	0.8768	1.11	Q				
40+ 1	0.8760	1.11	Q				
40+ 2	0.8751	1.11	Q				
40+ 3	0.8743	1.11	Q				
40+ 4	0.8734	1.11	Q				
40+ 5	0.8726	1.11	Q				
40+ 6	0.8718	1.11	Q				
40+ 7	0.8709	1.10	Q				
40+ 8	0.8701	1.10	Q				
40+ 9	0.8693	1.10	Q				
40+10	0.8685	1.10	Q				
40+11	0.8677	1.10	Q				
40+12	0.8668	1.10	Q				
40+13	0.8660	1.10	Q				
40+14	0.8652	1.10	Q				
40+15	0.8644	1.10	Q				
40+16	0.8636	1.10	Q				
40+17	0.8628	1.09	Q				
40+18	0.8620	1.09	Q				
40+19	0.8612	1.09	Q				
40+20	0.8604	1.09	Q				
40+21	0.8596	1.09	Q				
40+22	0.8589	1.09	Q				
40+23	0.8581	1.09	Q				
40+24	0.8573	1.09	Q				
40+25	0.8565	1.09	Q				
40+26	0.8557	1.08	Q				
40+27	0.8549	1.08	Q				
40+28	0.8541	1.08	Q				
40+29	0.8533	1.08	Q				
40+30	0.8525	1.08	Q				
40+31	0.8517	1.08	Q				
40+32	0.8509	1.08	Q				
40+33	0.8501	1.08	Q				
40+34	0.8494	1.08	Q				
40+35	0.8486	1.08	Q				
40+36	0.8478	1.07	Q				
40+37	0.8470	1.07	Q				
40+38	0.8462	1.07	Q				
40+39	0.8454	1.07	Q				
40+40	0.8446	1.07	Q				
40+41	0.8439	1.07	Q				
40+42	0.8431	1.07	Q				
40+43	0.8423	1.07	Q				
40+44	0.8415	1.07	Q				
40+45	0.8407	1.07	Q				
40+46	0.8400	1.07	Q				
40+47	0.8392	1.06	Q				

40+48	0.8384	1.06	Q				
40+49	0.8376	1.06	Q				
40+50	0.8369	1.06	Q				
40+51	0.8361	1.06	Q				
40+52	0.8353	1.06	Q				
40+53	0.8345	1.06	Q				
40+54	0.8338	1.06	Q				
40+55	0.8330	1.06	Q				
40+56	0.8322	1.06	Q				
40+57	0.8315	1.05	Q				
40+58	0.8307	1.05	Q				
40+59	0.8299	1.05	Q				
41+ 0	0.8292	1.05	Q				
41+ 1	0.8284	1.05	Q				
41+ 2	0.8276	1.05	Q				
41+ 3	0.8269	1.05	Q				
41+ 4	0.8261	1.05	Q				
41+ 5	0.8253	1.05	Q				
41+ 6	0.8246	1.05	Q				
41+ 7	0.8238	1.04	Q				
41+ 8	0.8230	1.04	Q				
41+ 9	0.8223	1.04	Q				
41+10	0.8215	1.04	Q				
41+11	0.8208	1.04	Q				
41+12	0.8200	1.04	Q				
41+13	0.8192	1.04	Q				
41+14	0.8185	1.04	Q				
41+15	0.8177	1.04	Q				
41+16	0.8170	1.04	Q				
41+17	0.8162	1.03	Q				
41+18	0.8155	1.03	Q				
41+19	0.8147	1.03	Q				
41+20	0.8140	1.03	Q				
41+21	0.8132	1.03	Q				
41+22	0.8124	1.03	Q				
41+23	0.8117	1.03	Q				
41+24	0.8109	1.03	Q				
41+25	0.8102	1.03	Q				
41+26	0.8094	1.03	Q				
41+27	0.8087	1.03	Q				
41+28	0.8080	1.02	Q				
41+29	0.8072	1.02	Q				
41+30	0.8065	1.02	Q				
41+31	0.8057	1.02	Q				
41+32	0.8050	1.02	Q				
41+33	0.8042	1.02	Q				
41+34	0.8035	1.02	Q				
41+35	0.8027	1.02	Q				
41+36	0.8020	1.02	Q				
41+37	0.8013	1.02	Q				
41+38	0.8005	1.02	Q				
41+39	0.7998	1.01	Q				
41+40	0.7990	1.01	Q				
41+41	0.7983	1.01	Q				
41+42	0.7976	1.01	Q				
41+43	0.7968	1.01	Q				
41+44	0.7961	1.01	Q				
41+45	0.7954	1.01	Q				
41+46	0.7946	1.01	Q				
41+47	0.7939	1.01	Q				
41+48	0.7932	1.01	Q				
41+49	0.7924	1.00	Q				
41+50	0.7917	1.00	Q				
41+51	0.7910	1.00	Q				
41+52	0.7902	1.00	Q				
41+53	0.7886	1.00	Q				
41+54	0.7854	1.00	Q				
41+55	0.7818	0.99	Q				
41+56	0.7781	0.99	Q				
41+57	0.7744	0.98	Q				
41+58	0.7707	0.98	Q				

41+59	0.7671	0.97	Q				
42+ 0	0.7635	0.97	Q				
42+ 1	0.7598	0.96	Q				
42+ 2	0.7562	0.96	Q				
42+ 3	0.7527	0.95	Q				
42+ 4	0.7491	0.95	Q				
42+ 5	0.7455	0.95	Q				
42+ 6	0.7420	0.94	Q				
42+ 7	0.7385	0.94	Q				
42+ 8	0.7350	0.93	Q				
42+ 9	0.7315	0.93	Q				
42+10	0.7280	0.92	Q				
42+11	0.7246	0.92	Q				
42+12	0.7211	0.91	Q				
42+13	0.7169	0.91	Q				
42+14	0.7135	0.90	Q				
42+15	0.7102	0.90	Q				
42+16	0.7068	0.90	Q				
42+17	0.7034	0.89	Q				
42+18	0.7001	0.89	Q				
42+19	0.6968	0.88	Q				
42+20	0.6935	0.88	Q				
42+21	0.6902	0.88	Q				
42+22	0.6869	0.87	Q				
42+23	0.6837	0.87	Q				
42+24	0.6804	0.86	Q				
42+25	0.6772	0.86	Q				
42+26	0.6740	0.85	Q				
42+27	0.6708	0.85	Q				
42+28	0.6676	0.85	Q				
42+29	0.6645	0.84	Q				
42+30	0.6613	0.84	Q				
42+31	0.6582	0.83	Q				
42+32	0.6551	0.83	Q				
42+33	0.6520	0.83	Q				
42+34	0.6489	0.82	Q				
42+35	0.6458	0.82	Q				
42+36	0.6427	0.81	Q				
42+37	0.6397	0.81	Q				
42+38	0.6367	0.81	Q				
42+39	0.6336	0.80	Q				
42+40	0.6306	0.80	Q				
42+41	0.6277	0.80	Q				
42+42	0.6247	0.79	Q				
42+43	0.6217	0.79	Q				
42+44	0.6188	0.78	Q				
42+45	0.6158	0.78	Q				
42+46	0.6129	0.78	Q				
42+47	0.6100	0.77	Q				
42+48	0.6071	0.77	Q				
42+49	0.6043	0.77	Q				
42+50	0.6014	0.76	Q				
42+51	0.5985	0.76	Q				
42+52	0.5957	0.76	Q				
42+53	0.5929	0.75	Q				
42+54	0.5901	0.75	Q				
42+55	0.5873	0.74	Q				
42+56	0.5845	0.74	Q				
42+57	0.5817	0.74	Q				
42+58	0.5790	0.73	Q				
42+59	0.5762	0.73	Q				
43+ 0	0.5735	0.73	Q				
43+ 1	0.5708	0.72	Q				
43+ 2	0.5681	0.72	Q				
43+ 3	0.5654	0.72	Q				
43+ 4	0.5627	0.71	Q				
43+ 5	0.5600	0.71	Q				
43+ 6	0.5574	0.71	Q				
43+ 7	0.5547	0.70	Q				
43+ 8	0.5521	0.70	Q				
43+ 9	0.5495	0.70	Q				

43+10	0.5469	0.69	Q				
43+11	0.5443	0.69	Q				
43+12	0.5417	0.69	Q				
43+13	0.5392	0.68	Q				
43+14	0.5366	0.68	Q				
43+15	0.5341	0.68	Q				
43+16	0.5315	0.67	Q				
43+17	0.5290	0.67	Q				
43+18	0.5265	0.67	Q				
43+19	0.5240	0.66	Q				
43+20	0.5215	0.66	Q				
43+21	0.5191	0.66	Q				
43+22	0.5166	0.66	Q				
43+23	0.5141	0.65	Q				
43+24	0.5117	0.65	Q				
43+25	0.5093	0.65	Q				
43+26	0.5069	0.64	Q				
43+27	0.5045	0.64	Q				
43+28	0.5021	0.64	Q				
43+29	0.4997	0.63	Q				
43+30	0.4973	0.63	Q				
43+31	0.4950	0.63	Q				
43+32	0.4926	0.62	Q				
43+33	0.4903	0.62	Q				
43+34	0.4880	0.62	Q				
43+35	0.4857	0.62	Q				
43+36	0.4834	0.61	Q				
43+37	0.4811	0.61	Q				
43+38	0.4788	0.61	Q				
43+39	0.4765	0.60	Q				
43+40	0.4743	0.60	Q				
43+41	0.4720	0.60	Q				
43+42	0.4698	0.60	Q				
43+43	0.4676	0.59	Q				
43+44	0.4653	0.59	Q				
43+45	0.4631	0.59	Q				
43+46	0.4609	0.58	Q				
43+47	0.4588	0.58	Q				
43+48	0.4566	0.58	Q				
43+49	0.4544	0.58	Q				
43+50	0.4523	0.57	Q				
43+51	0.4501	0.57	Q				
43+52	0.4480	0.57	Q				
43+53	0.4459	0.57	Q				
43+54	0.4438	0.56	Q				
43+55	0.4416	0.56	Q				
43+56	0.4396	0.56	Q				
43+57	0.4375	0.55	Q				
43+58	0.4354	0.55	Q				
43+59	0.4333	0.55	Q				
44+ 0	0.4313	0.55	Q				
44+ 1	0.4292	0.54	Q				
44+ 2	0.4272	0.54	Q				
44+ 3	0.4252	0.54	Q				
44+ 4	0.4232	0.54	Q				
44+ 5	0.4212	0.53	Q				
44+ 6	0.4192	0.53	Q				
44+ 7	0.4172	0.53	Q				
44+ 8	0.4152	0.53	Q				
44+ 9	0.4132	0.52	Q				
44+10	0.4113	0.52	Q				
44+11	0.4093	0.52	Q				
44+12	0.4074	0.52	Q				
44+13	0.4055	0.51	Q				
44+14	0.4035	0.51	Q				
44+15	0.4016	0.51	Q				
44+16	0.3997	0.51	Q				
44+17	0.3978	0.50	Q				
44+18	0.3959	0.50	Q				
44+19	0.3941	0.50	Q				
44+20	0.3922	0.50	Q				

44+21	0.3903	0.49	Q				
44+22	0.3885	0.49	Q				
44+23	0.3867	0.49	Q				
44+24	0.3848	0.49	Q				
44+25	0.3830	0.49	Q				
44+26	0.3812	0.48	Q				
44+27	0.3794	0.48	Q				
44+28	0.3776	0.48	Q				
44+29	0.3758	0.48	Q				
44+30	0.3740	0.47	Q				
44+31	0.3722	0.47	Q				
44+32	0.3705	0.47	Q				
44+33	0.3687	0.47	Q				
44+34	0.3670	0.47	Q				
44+35	0.3652	0.46	Q				
44+36	0.3635	0.46	Q				
44+37	0.3618	0.46	Q				
44+38	0.3601	0.46	Q				
44+39	0.3584	0.45	Q				
44+40	0.3567	0.45	Q				
44+41	0.3550	0.45	Q				
44+42	0.3533	0.45	Q				
44+43	0.3516	0.45	Q				
44+44	0.3499	0.44	Q				
44+45	0.3483	0.44	Q				
44+46	0.3466	0.44	Q				
44+47	0.3450	0.44	Q				
44+48	0.3434	0.44	Q				
44+49	0.3417	0.43	Q				
44+50	0.3401	0.43	Q				
44+51	0.3385	0.43	Q				
44+52	0.3369	0.43	Q				
44+53	0.3353	0.43	Q				
44+54	0.3337	0.42	Q				
44+55	0.3321	0.42	Q				
44+56	0.3306	0.42	Q				
44+57	0.3290	0.42	Q				
44+58	0.3274	0.42	Q				
44+59	0.3259	0.41	Q				
45+ 0	0.3243	0.41	Q				
45+ 1	0.3228	0.41	Q				
45+ 2	0.3213	0.41	Q				
45+ 3	0.3197	0.41	Q				
45+ 4	0.3182	0.40	Q				
45+ 5	0.3167	0.40	Q				
45+ 6	0.3152	0.40	Q				
45+ 7	0.3137	0.40	Q				
45+ 8	0.3122	0.40	Q				
45+ 9	0.3108	0.39	Q				
45+10	0.3093	0.39	Q				
45+11	0.3078	0.39	Q				
45+12	0.3064	0.39	Q				
45+13	0.3049	0.39	Q				
45+14	0.3035	0.38	Q				
45+15	0.3020	0.38	Q				
45+16	0.3006	0.38	Q				
45+17	0.2992	0.38	Q				
45+18	0.2978	0.38	Q				
45+19	0.2964	0.38	Q				
45+20	0.2949	0.37	Q				
45+21	0.2935	0.37	Q				
45+22	0.2922	0.37	Q				
45+23	0.2908	0.37	Q				
45+24	0.2894	0.37	Q				
45+25	0.2880	0.37	Q				
45+26	0.2867	0.36	Q				
45+27	0.2853	0.36	Q				
45+28	0.2839	0.36	Q				
45+29	0.2826	0.36	Q				
45+30	0.2813	0.36	Q				
45+31	0.2799	0.35	Q				

45+32	0.2786	0.35	Q				
45+33	0.2773	0.35	Q				
45+34	0.2760	0.35	Q				
45+35	0.2747	0.35	Q				
45+36	0.2734	0.35	Q				
45+37	0.2721	0.34	Q				
45+38	0.2708	0.34	Q				
45+39	0.2695	0.34	Q				
45+40	0.2682	0.34	Q				
45+41	0.2669	0.34	Q				
45+42	0.2657	0.34	Q				
45+43	0.2644	0.34	Q				
45+44	0.2632	0.33	Q				
45+45	0.2619	0.33	Q				
45+46	0.2607	0.33	Q				
45+47	0.2594	0.33	Q				
45+48	0.2582	0.33	Q				
45+49	0.2570	0.33	Q				
45+50	0.2558	0.32	Q				
45+51	0.2546	0.32	Q				
45+52	0.2534	0.32	Q				
45+53	0.2522	0.32	Q				
45+54	0.2510	0.32	Q				
45+55	0.2498	0.32	Q				
45+56	0.2486	0.32	Q				
45+57	0.2474	0.31	Q				
45+58	0.2462	0.31	Q				
45+59	0.2451	0.31	Q				
46+ 0	0.2439	0.31	Q				
46+ 1	0.2428	0.31	Q				
46+ 2	0.2416	0.31	Q				
46+ 3	0.2405	0.30	Q				
46+ 4	0.2393	0.30	Q				
46+ 5	0.2382	0.30	Q				
46+ 6	0.2371	0.30	Q				
46+ 7	0.2359	0.30	Q				
46+ 8	0.2348	0.30	Q				
46+ 9	0.2337	0.30	Q				
46+10	0.2326	0.29	Q				
46+11	0.2315	0.29	Q				
46+12	0.2304	0.29	Q				
46+13	0.2293	0.29	Q				
46+14	0.2282	0.29	Q				
46+15	0.2271	0.29	Q				
46+16	0.2261	0.29	Q				
46+17	0.2250	0.29	Q				
46+18	0.2239	0.28	Q				
46+19	0.2229	0.28	Q				
46+20	0.2218	0.28	Q				
46+21	0.2208	0.28	Q				
46+22	0.2197	0.28	Q				
46+23	0.2187	0.28	Q				
46+24	0.2176	0.28	Q				
46+25	0.2166	0.27	Q				
46+26	0.2156	0.27	Q				
46+27	0.2146	0.27	Q				
46+28	0.2135	0.27	Q				
46+29	0.2125	0.27	Q				
46+30	0.2115	0.27	Q				
46+31	0.2105	0.27	Q				
46+32	0.2095	0.27	Q				
46+33	0.2085	0.26	Q				
46+34	0.2075	0.26	Q				
46+35	0.2066	0.26	Q				
46+36	0.2056	0.26	Q				
46+37	0.2046	0.26	Q				
46+38	0.2036	0.26	Q				
46+39	0.2027	0.26	Q				
46+40	0.2017	0.26	Q				
46+41	0.2008	0.25	Q				
46+42	0.1998	0.25	Q				

46+43	0.1989	0.25	Q				
46+44	0.1979	0.25	Q				
46+45	0.1970	0.25	Q				
46+46	0.1960	0.25	Q				
46+47	0.1951	0.25	Q				
46+48	0.1942	0.25	Q				
46+49	0.1933	0.25	Q				
46+50	0.1924	0.24	Q				
46+51	0.1914	0.24	Q				
46+52	0.1905	0.24	Q				
46+53	0.1896	0.24	Q				
46+54	0.1887	0.24	Q				
46+55	0.1878	0.24	Q				
46+56	0.1869	0.24	Q				
46+57	0.1861	0.24	Q				
46+58	0.1852	0.23	Q				
46+59	0.1843	0.23	Q				
47+ 0	0.1834	0.23	Q				
47+ 1	0.1826	0.23	Q				
47+ 2	0.1817	0.23	Q				
47+ 3	0.1808	0.23	Q				
47+ 4	0.1800	0.23	Q				
47+ 5	0.1791	0.23	Q				
47+ 6	0.1783	0.23	Q				
47+ 7	0.1774	0.22	Q				
47+ 8	0.1766	0.22	Q				
47+ 9	0.1758	0.22	Q				
47+10	0.1749	0.22	Q				
47+11	0.1741	0.22	Q				
47+12	0.1733	0.22	Q				
47+13	0.1724	0.22	Q				
47+14	0.1716	0.22	Q				
47+15	0.1708	0.22	Q				
47+16	0.1700	0.22	Q				
47+17	0.1692	0.21	Q				
47+18	0.1684	0.21	Q				
47+19	0.1676	0.21	Q				
47+20	0.1668	0.21	Q				
47+21	0.1660	0.21	Q				
47+22	0.1652	0.21	Q				
47+23	0.1644	0.21	Q				
47+24	0.1637	0.21	Q				
47+25	0.1629	0.21	Q				
47+26	0.1621	0.21	Q				
47+27	0.1614	0.20	Q				
47+28	0.1606	0.20	Q				
47+29	0.1598	0.20	Q				
47+30	0.1591	0.20	Q				
47+31	0.1583	0.20	Q				
47+32	0.1576	0.20	Q				
47+33	0.1568	0.20	Q				
47+34	0.1561	0.20	Q				
47+35	0.1553	0.20	Q				
47+36	0.1546	0.20	Q				
47+37	0.1539	0.20	Q				
47+38	0.1531	0.19	Q				
47+39	0.1524	0.19	Q				
47+40	0.1517	0.19	Q				
47+41	0.1510	0.19	Q				
47+42	0.1503	0.19	Q				
47+43	0.1495	0.19	Q				
47+44	0.1488	0.19	Q				
47+45	0.1481	0.19	Q				
47+46	0.1474	0.19	Q				
47+47	0.1467	0.19	Q				
47+48	0.1460	0.19	Q				
47+49	0.1453	0.18	Q				
47+50	0.1447	0.18	Q				
47+51	0.1440	0.18	Q				
47+52	0.1433	0.18	Q				
47+53	0.1426	0.18	Q				

47+54	0.1419	0.18	Q				
47+55	0.1413	0.18	Q				
47+56	0.1406	0.18	Q				
47+57	0.1399	0.18	Q				
47+58	0.1393	0.18	Q				
47+59	0.1386	0.18	Q				
48+ 0	0.1379	0.17	Q				
48+ 1	0.1373	0.17	Q				
48+ 2	0.1366	0.17	Q				
48+ 3	0.1360	0.17	Q				
48+ 4	0.1353	0.17	Q				
48+ 5	0.1347	0.17	Q				
48+ 6	0.1341	0.17	Q				
48+ 7	0.1334	0.17	Q				
48+ 8	0.1328	0.17	Q				
48+ 9	0.1322	0.17	Q				
48+10	0.1315	0.17	Q				
48+11	0.1309	0.17	Q				
48+12	0.1303	0.17	Q				
48+13	0.1297	0.16	Q				
48+14	0.1291	0.16	Q				
48+15	0.1285	0.16	Q				
48+16	0.1278	0.16	Q				
48+17	0.1272	0.16	Q				
48+18	0.1266	0.16	Q				
48+19	0.1260	0.16	Q				
48+20	0.1254	0.16	Q				
48+21	0.1248	0.16	Q				
48+22	0.1243	0.16	Q				
48+23	0.1237	0.16	Q				
48+24	0.1231	0.16	Q				
48+25	0.1225	0.16	Q				
48+26	0.1219	0.15	Q				
48+27	0.1213	0.15	Q				
48+28	0.1208	0.15	Q				
48+29	0.1202	0.15	Q				
48+30	0.1196	0.15	Q				
48+31	0.1191	0.15	Q				
48+32	0.1185	0.15	Q				
48+33	0.1179	0.15	Q				
48+34	0.1174	0.15	Q				
48+35	0.1168	0.15	Q				
48+36	0.1163	0.15	Q				
48+37	0.1157	0.15	Q				
48+38	0.1152	0.15	Q				
48+39	0.1146	0.15	Q				
48+40	0.1141	0.14	Q				
48+41	0.1135	0.14	Q				
48+42	0.1130	0.14	Q				
48+43	0.1125	0.14	Q				
48+44	0.1119	0.14	Q				
48+45	0.1114	0.14	Q				
48+46	0.1109	0.14	Q				
48+47	0.1103	0.14	Q				
48+48	0.1098	0.14	Q				
48+49	0.1093	0.14	Q				
48+50	0.1088	0.14	Q				
48+51	0.1083	0.14	Q				
48+52	0.1078	0.14	Q				
48+53	0.1072	0.14	Q				
48+54	0.1067	0.14	Q				
48+55	0.1062	0.13	Q				
48+56	0.1057	0.13	Q				
48+57	0.1052	0.13	Q				
48+58	0.1047	0.13	Q				
48+59	0.1042	0.13	Q				
49+ 0	0.1037	0.13	Q				
49+ 1	0.1032	0.13	Q				
49+ 2	0.1028	0.13	Q				
49+ 3	0.1023	0.13	Q				
49+ 4	0.1018	0.13	Q				

49+ 5	0.1013	0.13	Q				
49+ 6	0.1008	0.13	Q				
49+ 7	0.1003	0.13	Q				
49+ 8	0.0999	0.13	Q				
49+ 9	0.0994	0.13	Q				
49+10	0.0989	0.13	Q				
49+11	0.0985	0.12	Q				
49+12	0.0980	0.12	Q				
49+13	0.0975	0.12	Q				
49+14	0.0971	0.12	Q				
49+15	0.0966	0.12	Q				
49+16	0.0961	0.12	Q				
49+17	0.0957	0.12	Q				
49+18	0.0952	0.12	Q				
49+19	0.0948	0.12	Q				
49+20	0.0943	0.12	Q				
49+21	0.0939	0.12	Q				
49+22	0.0934	0.12	Q				
49+23	0.0930	0.12	Q				
49+24	0.0926	0.12	Q				
49+25	0.0921	0.12	Q				
49+26	0.0917	0.12	Q				
49+27	0.0913	0.12	Q				
49+28	0.0908	0.12	Q				
49+29	0.0904	0.11	Q				
49+30	0.0900	0.11	Q				
49+31	0.0895	0.11	Q				
49+32	0.0891	0.11	Q				
49+33	0.0887	0.11	Q				
49+34	0.0883	0.11	Q				
49+35	0.0878	0.11	Q				
49+36	0.0874	0.11	Q				
49+37	0.0870	0.11	Q				
49+38	0.0866	0.11	Q				
49+39	0.0862	0.11	Q				
49+40	0.0858	0.11	Q				
49+41	0.0854	0.11	Q				
49+42	0.0850	0.11	Q				
49+43	0.0846	0.11	Q				
49+44	0.0842	0.11	Q				
49+45	0.0838	0.11	Q				
49+46	0.0834	0.11	Q				
49+47	0.0830	0.11	Q				
49+48	0.0826	0.10	Q				
49+49	0.0822	0.10	Q				
49+50	0.0818	0.10	Q				
49+51	0.0814	0.10	Q				
49+52	0.0810	0.10	Q				
49+53	0.0807	0.10	Q				
49+54	0.0803	0.10	Q				
49+55	0.0799	0.10	Q				
49+56	0.0795	0.10	Q				
49+57	0.0791	0.10	Q				
49+58	0.0788	0.10	Q				
49+59	0.0784	0.10	Q				
50+ 0	0.0780	0.10	Q				
50+ 1	0.0776	0.10	Q				
50+ 2	0.0773	0.10	Q				
50+ 3	0.0769	0.10	Q				
50+ 4	0.0765	0.10	Q				
50+ 5	0.0762	0.10	Q				
50+ 6	0.0758	0.10	Q				
50+ 7	0.0755	0.10	Q				
50+ 8	0.0751	0.10	Q				
50+ 9	0.0747	0.09	Q				
50+10	0.0744	0.09	Q				
50+11	0.0740	0.09	Q				
50+12	0.0737	0.09	Q				
50+13	0.0733	0.09	Q				
50+14	0.0730	0.09	Q				
50+15	0.0726	0.09	Q				

50+16	0.0723	0.09	Q				
50+17	0.0720	0.09	Q				
50+18	0.0716	0.09	Q				
50+19	0.0713	0.09	Q				
50+20	0.0709	0.09	Q				
50+21	0.0706	0.09	Q				
50+22	0.0703	0.09	Q				
50+23	0.0699	0.09	Q				
50+24	0.0696	0.09	Q				
50+25	0.0693	0.09	Q				
50+26	0.0690	0.09	Q				
50+27	0.0686	0.09	Q				
50+28	0.0683	0.09	Q				
50+29	0.0680	0.09	Q				
50+30	0.0677	0.09	Q				
50+31	0.0673	0.09	Q				
50+32	0.0670	0.08	Q				
50+33	0.0667	0.08	Q				
50+34	0.0664	0.08	Q				
50+35	0.0661	0.08	Q				
50+36	0.0658	0.08	Q				
50+37	0.0654	0.08	Q				
50+38	0.0651	0.08	Q				
50+39	0.0648	0.08	Q				
50+40	0.0645	0.08	Q				
50+41	0.0642	0.08	Q				
50+42	0.0639	0.08	Q				
50+43	0.0636	0.08	Q				
50+44	0.0633	0.08	Q				
50+45	0.0630	0.08	Q				
50+46	0.0627	0.08	Q				
50+47	0.0624	0.08	Q				
50+48	0.0621	0.08	Q				
50+49	0.0618	0.08	Q				
50+50	0.0615	0.08	Q				
50+51	0.0612	0.08	Q				
50+52	0.0609	0.08	Q				
50+53	0.0607	0.08	Q				
50+54	0.0604	0.08	Q				
50+55	0.0601	0.08	Q				
50+56	0.0598	0.08	Q				
50+57	0.0595	0.08	Q				
50+58	0.0592	0.08	Q				
50+59	0.0589	0.07	Q				
51+ 0	0.0587	0.07	Q				
51+ 1	0.0584	0.07	Q				
51+ 2	0.0581	0.07	Q				
51+ 3	0.0578	0.07	Q				
51+ 4	0.0576	0.07	Q				
51+ 5	0.0573	0.07	Q				
51+ 6	0.0570	0.07	Q				
51+ 7	0.0567	0.07	Q				
51+ 8	0.0565	0.07	Q				
51+ 9	0.0562	0.07	Q				
51+10	0.0559	0.07	Q				
51+11	0.0557	0.07	Q				
51+12	0.0554	0.07	Q				
51+13	0.0552	0.07	Q				
51+14	0.0549	0.07	Q				
51+15	0.0546	0.07	Q				
51+16	0.0544	0.07	Q				
51+17	0.0541	0.07	Q				
51+18	0.0539	0.07	Q				
51+19	0.0536	0.07	Q				
51+20	0.0534	0.07	Q				
51+21	0.0531	0.07	Q				
51+22	0.0528	0.07	Q				
51+23	0.0526	0.07	Q				
51+24	0.0523	0.07	Q				
51+25	0.0521	0.07	Q				
51+26	0.0519	0.07	Q				

51+27	0.0516	0.07	Q				
51+28	0.0514	0.07	Q				
51+29	0.0511	0.06	Q				
51+30	0.0509	0.06	Q				
51+31	0.0506	0.06	Q				
51+32	0.0504	0.06	Q				
51+33	0.0502	0.06	Q				
51+34	0.0499	0.06	Q				
51+35	0.0497	0.06	Q				
51+36	0.0494	0.06	Q				
51+37	0.0492	0.06	Q				
51+38	0.0490	0.06	Q				
51+39	0.0487	0.06	Q				
51+40	0.0485	0.06	Q				
51+41	0.0483	0.06	Q				
51+42	0.0481	0.06	Q				
51+43	0.0478	0.06	Q				
51+44	0.0476	0.06	Q				
51+45	0.0474	0.06	Q				
51+46	0.0472	0.06	Q				
51+47	0.0469	0.06	Q				
51+48	0.0467	0.06	Q				
51+49	0.0465	0.06	Q				
51+50	0.0463	0.06	Q				
51+51	0.0460	0.06	Q				
51+52	0.0458	0.06	Q				
51+53	0.0456	0.06	Q				
51+54	0.0454	0.06	Q				
51+55	0.0452	0.06	Q				
51+56	0.0450	0.06	Q				
51+57	0.0448	0.06	Q				
51+58	0.0445	0.06	Q				
51+59	0.0443	0.06	Q				
52+ 0	0.0441	0.06	Q				
52+ 1	0.0439	0.06	Q				
52+ 2	0.0437	0.06	Q				
52+ 3	0.0435	0.06	Q				
52+ 4	0.0433	0.05	Q				
52+ 5	0.0431	0.05	Q				
52+ 6	0.0429	0.05	Q				
52+ 7	0.0427	0.05	Q				
52+ 8	0.0425	0.05	Q				
52+ 9	0.0423	0.05	Q				
52+10	0.0421	0.05	Q				
52+11	0.0419	0.05	Q				
52+12	0.0417	0.05	Q				
52+13	0.0415	0.05	Q				
52+14	0.0413	0.05	Q				
52+15	0.0411	0.05	Q				
52+16	0.0409	0.05	Q				
52+17	0.0407	0.05	Q				
52+18	0.0405	0.05	Q				
52+19	0.0403	0.05	Q				
52+20	0.0401	0.05	Q				
52+21	0.0399	0.05	Q				
52+22	0.0397	0.05	Q				
52+23	0.0396	0.05	Q				
52+24	0.0394	0.05	Q				
52+25	0.0392	0.05	Q				
52+26	0.0390	0.05	Q				
52+27	0.0388	0.05	Q				
52+28	0.0386	0.05	Q				
52+29	0.0384	0.05	Q				
52+30	0.0383	0.05	Q				
52+31	0.0381	0.05	Q				
52+32	0.0379	0.05	Q				
52+33	0.0377	0.05	Q				
52+34	0.0375	0.05	Q				
52+35	0.0374	0.05	Q				
52+36	0.0372	0.05	Q				
52+37	0.0370	0.05	Q				

52+38	0.0368	0.05	Q				
52+39	0.0367	0.05	Q				
52+40	0.0365	0.05	Q				
52+41	0.0363	0.05	Q				
52+42	0.0361	0.05	Q				
52+43	0.0360	0.05	Q				
52+44	0.0358	0.05	Q				
52+45	0.0356	0.05	Q				
52+46	0.0355	0.04	Q				
52+47	0.0353	0.04	Q				
52+48	0.0351	0.04	Q				
52+49	0.0350	0.04	Q				
52+50	0.0348	0.04	Q				
52+51	0.0346	0.04	Q				
52+52	0.0345	0.04	Q				
52+53	0.0343	0.04	Q				
52+54	0.0341	0.04	Q				
52+55	0.0340	0.04	Q				
52+56	0.0338	0.04	Q				
52+57	0.0337	0.04	Q				
52+58	0.0335	0.04	Q				
52+59	0.0333	0.04	Q				
53+ 0	0.0332	0.04	Q				
53+ 1	0.0330	0.04	Q				
53+ 2	0.0329	0.04	Q				
53+ 3	0.0327	0.04	Q				
53+ 4	0.0326	0.04	Q				
53+ 5	0.0324	0.04	Q				
53+ 6	0.0322	0.04	Q				
53+ 7	0.0321	0.04	Q				
53+ 8	0.0319	0.04	Q				
53+ 9	0.0318	0.04	Q				
53+10	0.0316	0.04	Q				
53+11	0.0315	0.04	Q				
53+12	0.0313	0.04	Q				
53+13	0.0312	0.04	Q				
53+14	0.0310	0.04	Q				
53+15	0.0309	0.04	Q				
53+16	0.0308	0.04	Q				
53+17	0.0306	0.04	Q				
53+18	0.0305	0.04	Q				
53+19	0.0303	0.04	Q				
53+20	0.0302	0.04	Q				
53+21	0.0300	0.04	Q				
53+22	0.0299	0.04	Q				
53+23	0.0297	0.04	Q				
53+24	0.0296	0.04	Q				
53+25	0.0295	0.04	Q				
53+26	0.0293	0.04	Q				
53+27	0.0292	0.04	Q				
53+28	0.0290	0.04	Q				
53+29	0.0289	0.04	Q				
53+30	0.0288	0.04	Q				
53+31	0.0286	0.04	Q				
53+32	0.0285	0.04	Q				
53+33	0.0284	0.04	Q				
53+34	0.0282	0.04	Q				
53+35	0.0281	0.04	Q				
53+36	0.0280	0.04	Q				
53+37	0.0278	0.04	Q				
53+38	0.0277	0.04	Q				
53+39	0.0276	0.03	Q				
53+40	0.0274	0.03	Q				
53+41	0.0273	0.03	Q				
53+42	0.0272	0.03	Q				
53+43	0.0271	0.03	Q				
53+44	0.0269	0.03	Q				
53+45	0.0268	0.03	Q				
53+46	0.0267	0.03	Q				
53+47	0.0265	0.03	Q				
53+48	0.0264	0.03	Q				

53+49	0.0263	0.03	Q				
53+50	0.0262	0.03	Q				
53+51	0.0260	0.03	Q				
53+52	0.0259	0.03	Q				
53+53	0.0258	0.03	Q				
53+54	0.0257	0.03	Q				
53+55	0.0256	0.03	Q				
53+56	0.0254	0.03	Q				
53+57	0.0253	0.03	Q				
53+58	0.0252	0.03	Q				
53+59	0.0251	0.03	Q				
54+ 0	0.0250	0.03	Q				
54+ 1	0.0248	0.03	Q				
54+ 2	0.0247	0.03	Q				
54+ 3	0.0246	0.03	Q				
54+ 4	0.0245	0.03	Q				
54+ 5	0.0244	0.03	Q				
54+ 6	0.0243	0.03	Q				
54+ 7	0.0241	0.03	Q				
54+ 8	0.0240	0.03	Q				
54+ 9	0.0239	0.03	Q				
54+10	0.0238	0.03	Q				
54+11	0.0237	0.03	Q				
54+12	0.0236	0.03	Q				
54+13	0.0235	0.03	Q				
54+14	0.0233	0.03	Q				
54+15	0.0232	0.03	Q				
54+16	0.0231	0.03	Q				
54+17	0.0230	0.03	Q				
54+18	0.0229	0.03	Q				
54+19	0.0228	0.03	Q				
54+20	0.0227	0.03	Q				
54+21	0.0226	0.03	Q				
54+22	0.0225	0.03	Q				
54+23	0.0224	0.03	Q				
54+24	0.0223	0.03	Q				
54+25	0.0222	0.03	Q				
54+26	0.0221	0.03	Q				
54+27	0.0219	0.03	Q				
54+28	0.0218	0.03	Q				
54+29	0.0217	0.03	Q				
54+30	0.0216	0.03	Q				
54+31	0.0215	0.03	Q				
54+32	0.0214	0.03	Q				
54+33	0.0213	0.03	Q				
54+34	0.0212	0.03	Q				
54+35	0.0211	0.03	Q				
54+36	0.0210	0.03	Q				
54+37	0.0209	0.03	Q				
54+38	0.0208	0.03	Q				
54+39	0.0207	0.03	Q				
54+40	0.0206	0.03	Q				
54+41	0.0205	0.03	Q				
54+42	0.0204	0.03	Q				
54+43	0.0203	0.03	Q				
54+44	0.0202	0.03	Q				
54+45	0.0202	0.03	Q				
54+46	0.0201	0.03	Q				
54+47	0.0200	0.03	Q				
54+48	0.0199	0.03	Q				
54+49	0.0198	0.03	Q				
54+50	0.0197	0.02	Q				
54+51	0.0196	0.02	Q				
54+52	0.0195	0.02	Q				
54+53	0.0194	0.02	Q				
54+54	0.0193	0.02	Q				
54+55	0.0192	0.02	Q				
54+56	0.0191	0.02	Q				
54+57	0.0190	0.02	Q				
54+58	0.0189	0.02	Q				
54+59	0.0189	0.02	Q				

55+ 0	0.0188	0.02	Q				
55+ 1	0.0187	0.02	Q				
55+ 2	0.0186	0.02	Q				
55+ 3	0.0185	0.02	Q				
55+ 4	0.0184	0.02	Q				
55+ 5	0.0183	0.02	Q				
55+ 6	0.0182	0.02	Q				
55+ 7	0.0182	0.02	Q				
55+ 8	0.0181	0.02	Q				
55+ 9	0.0180	0.02	Q				
55+10	0.0179	0.02	Q				
55+11	0.0178	0.02	Q				
55+12	0.0177	0.02	Q				
55+13	0.0176	0.02	Q				
55+14	0.0176	0.02	Q				
55+15	0.0175	0.02	Q				
55+16	0.0174	0.02	Q				
55+17	0.0173	0.02	Q				
55+18	0.0172	0.02	Q				
55+19	0.0171	0.02	Q				
55+20	0.0171	0.02	Q				
55+21	0.0170	0.02	Q				
55+22	0.0169	0.02	Q				
55+23	0.0168	0.02	Q				
55+24	0.0167	0.02	Q				
55+25	0.0167	0.02	Q				
55+26	0.0166	0.02	Q				
55+27	0.0165	0.02	Q				
55+28	0.0164	0.02	Q				
55+29	0.0163	0.02	Q				
55+30	0.0163	0.02	Q				
55+31	0.0162	0.02	Q				
55+32	0.0161	0.02	Q				
55+33	0.0160	0.02	Q				
55+34	0.0160	0.02	Q				
55+35	0.0159	0.02	Q				
55+36	0.0158	0.02	Q				
55+37	0.0157	0.02	Q				
55+38	0.0157	0.02	Q				
55+39	0.0156	0.02	Q				
55+40	0.0155	0.02	Q				
55+41	0.0154	0.02	Q				
55+42	0.0154	0.02	Q				
55+43	0.0153	0.02	Q				
55+44	0.0152	0.02	Q				
55+45	0.0152	0.02	Q				
55+46	0.0151	0.02	Q				
55+47	0.0150	0.02	Q				
55+48	0.0149	0.02	Q				
55+49	0.0149	0.02	Q				
55+50	0.0148	0.02	Q				
55+51	0.0147	0.02	Q				
55+52	0.0147	0.02	Q				
55+53	0.0146	0.02	Q				
55+54	0.0145	0.02	Q				
55+55	0.0145	0.02	Q				
55+56	0.0144	0.02	Q				
55+57	0.0143	0.02	Q				
55+58	0.0142	0.02	Q				
55+59	0.0142	0.02	Q				
56+ 0	0.0141	0.02	Q				
56+ 1	0.0140	0.02	Q				
56+ 2	0.0140	0.02	Q				
56+ 3	0.0139	0.02	Q				
56+ 4	0.0138	0.02	Q				
56+ 5	0.0138	0.02	Q				
56+ 6	0.0137	0.02	Q				
56+ 7	0.0136	0.02	Q				
56+ 8	0.0136	0.02	Q				
56+ 9	0.0135	0.02	Q				
56+10	0.0135	0.02	Q				

56+11	0.0134	0.02	Q				
56+12	0.0133	0.02	Q				
56+13	0.0133	0.02	Q				
56+14	0.0132	0.02	Q				
56+15	0.0131	0.02	Q				
56+16	0.0131	0.02	Q				
56+17	0.0130	0.02	Q				
56+18	0.0130	0.02	Q				
56+19	0.0129	0.02	Q				
56+20	0.0128	0.02	Q				
56+21	0.0128	0.02	Q				
56+22	0.0127	0.02	Q				
56+23	0.0127	0.02	Q				
56+24	0.0126	0.02	Q				
56+25	0.0125	0.02	Q				
56+26	0.0125	0.02	Q				
56+27	0.0124	0.02	Q				
56+28	0.0124	0.02	Q				
56+29	0.0123	0.02	Q				
56+30	0.0122	0.02	Q				
56+31	0.0122	0.02	Q				
56+32	0.0121	0.02	Q				
56+33	0.0121	0.02	Q				
56+34	0.0120	0.02	Q				
56+35	0.0120	0.02	Q				
56+36	0.0119	0.02	Q				
56+37	0.0118	0.02	Q				
56+38	0.0118	0.01	Q				
56+39	0.0117	0.01	Q				
56+40	0.0117	0.01	Q				
56+41	0.0116	0.01	Q				
56+42	0.0116	0.01	Q				
56+43	0.0115	0.01	Q				
56+44	0.0115	0.01	Q				
56+45	0.0114	0.01	Q				
56+46	0.0113	0.01	Q				
56+47	0.0113	0.01	Q				
56+48	0.0112	0.01	Q				
56+49	0.0112	0.01	Q				
56+50	0.0111	0.01	Q				
56+51	0.0111	0.01	Q				
56+52	0.0110	0.01	Q				
56+53	0.0110	0.01	Q				
56+54	0.0109	0.01	Q				
56+55	0.0109	0.01	Q				
56+56	0.0108	0.01	Q				
56+57	0.0108	0.01	Q				
56+58	0.0107	0.01	Q				
56+59	0.0107	0.01	Q				
57+ 0	0.0106	0.01	Q				
57+ 1	0.0106	0.01	Q				
57+ 2	0.0105	0.01	Q				
57+ 3	0.0105	0.01	Q				
57+ 4	0.0104	0.01	Q				
57+ 5	0.0104	0.01	Q				
57+ 6	0.0103	0.01	Q				
57+ 7	0.0103	0.01	Q				
57+ 8	0.0102	0.01	Q				
57+ 9	0.0102	0.01	Q				
57+10	0.0101	0.01	Q				
57+11	0.0101	0.01	Q				
57+12	0.0100	0.01	Q				
57+13	0.0100	0.01	Q				
57+14	0.0099	0.01	Q				
57+15	0.0099	0.01	Q				
57+16	0.0098	0.01	Q				
57+17	0.0098	0.01	Q				
57+18	0.0097	0.01	Q				
57+19	0.0097	0.01	Q				
57+20	0.0097	0.01	Q				
57+21	0.0096	0.01	Q				

57+22	0.0096	0.01	Q				
57+23	0.0095	0.01	Q				
57+24	0.0095	0.01	Q				
57+25	0.0094	0.01	Q				
57+26	0.0094	0.01	Q				
57+27	0.0093	0.01	Q				
57+28	0.0093	0.01	Q				
57+29	0.0092	0.01	Q				
57+30	0.0092	0.01	Q				
57+31	0.0092	0.01	Q				
57+32	0.0091	0.01	Q				
57+33	0.0091	0.01	Q				
57+34	0.0090	0.01	Q				
57+35	0.0090	0.01	Q				
57+36	0.0089	0.01	Q				
57+37	0.0089	0.01	Q				
57+38	0.0089	0.01	Q				
57+39	0.0088	0.01	Q				
57+40	0.0088	0.01	Q				
57+41	0.0087	0.01	Q				
57+42	0.0087	0.01	Q				
57+43	0.0087	0.01	Q				
57+44	0.0086	0.01	Q				
57+45	0.0086	0.01	Q				
57+46	0.0085	0.01	Q				
57+47	0.0085	0.01	Q				
57+48	0.0084	0.01	Q				
57+49	0.0084	0.01	Q				
57+50	0.0084	0.01	Q				
57+51	0.0083	0.01	Q				
57+52	0.0083	0.01	Q				
57+53	0.0083	0.01	Q				
57+54	0.0082	0.01	Q				
57+55	0.0082	0.01	Q				
57+56	0.0081	0.01	Q				
57+57	0.0081	0.01	Q				
57+58	0.0081	0.01	Q				
57+59	0.0080	0.01	Q				
58+ 0	0.0080	0.01	Q				
58+ 1	0.0079	0.01	Q				
58+ 2	0.0079	0.01	Q				
58+ 3	0.0079	0.01	Q				
58+ 4	0.0078	0.01	Q				
58+ 5	0.0078	0.01	Q				
58+ 6	0.0078	0.01	Q				
58+ 7	0.0077	0.01	Q				
58+ 8	0.0077	0.01	Q				
58+ 9	0.0076	0.01	Q				
58+10	0.0076	0.01	Q				
58+11	0.0076	0.01	Q				
58+12	0.0075	0.01	Q				
58+13	0.0075	0.01	Q				
58+14	0.0075	0.01	Q				
58+15	0.0074	0.01	Q				
58+16	0.0074	0.01	Q				
58+17	0.0074	0.01	Q				
58+18	0.0073	0.01	Q				
58+19	0.0073	0.01	Q				
58+20	0.0073	0.01	Q				
58+21	0.0072	0.01	Q				
58+22	0.0072	0.01	Q				
58+23	0.0072	0.01	Q				
58+24	0.0071	0.01	Q				
58+25	0.0071	0.01	Q				
58+26	0.0071	0.01	Q				
58+27	0.0070	0.01	Q				
58+28	0.0070	0.01	Q				
58+29	0.0070	0.01	Q				
58+30	0.0069	0.01	Q				
58+31	0.0069	0.01	Q				
58+32	0.0069	0.01	Q				

58+33	0.0068	0.01	Q				
58+34	0.0068	0.01	Q				
58+35	0.0068	0.01	Q				
58+36	0.0067	0.01	Q				
58+37	0.0067	0.01	Q				
58+38	0.0067	0.01	Q				
58+39	0.0066	0.01	Q				
58+40	0.0066	0.01	Q				
58+41	0.0066	0.01	Q				
58+42	0.0065	0.01	Q				
58+43	0.0065	0.01	Q				
58+44	0.0065	0.01	Q				
58+45	0.0064	0.01	Q				
58+46	0.0064	0.01	Q				
58+47	0.0064	0.01	Q				
58+48	0.0064	0.01	Q				
58+49	0.0063	0.01	Q				
58+50	0.0063	0.01	Q				
58+51	0.0063	0.01	Q				
58+52	0.0062	0.01	Q				
58+53	0.0062	0.01	Q				
58+54	0.0062	0.01	Q				
58+55	0.0061	0.01	Q				
58+56	0.0061	0.01	Q				
58+57	0.0061	0.01	Q				
58+58	0.0061	0.01	Q				
58+59	0.0060	0.01	Q				
59+ 0	0.0060	0.01	Q				
59+ 1	0.0060	0.01	Q				
59+ 2	0.0059	0.01	Q				
59+ 3	0.0059	0.01	Q				
59+ 4	0.0059	0.01	Q				
59+ 5	0.0059	0.01	Q				
59+ 6	0.0058	0.01	Q				
59+ 7	0.0058	0.01	Q				
59+ 8	0.0058	0.01	Q				
59+ 9	0.0058	0.01	Q				
59+10	0.0057	0.01	Q				
59+11	0.0057	0.01	Q				
59+12	0.0057	0.01	Q				
59+13	0.0056	0.01	Q				
59+14	0.0056	0.01	Q				
59+15	0.0056	0.01	Q				
59+16	0.0056	0.01	Q				
59+17	0.0055	0.01	Q				
59+18	0.0055	0.01	Q				
59+19	0.0055	0.01	Q				
59+20	0.0055	0.01	Q				
59+21	0.0054	0.01	Q				
59+22	0.0054	0.01	Q				
59+23	0.0054	0.01	Q				
59+24	0.0054	0.01	Q				
59+25	0.0053	0.01	Q				
59+26	0.0053	0.01	Q				
59+27	0.0053	0.01	Q				
59+28	0.0053	0.01	Q				
59+29	0.0052	0.01	Q				
59+30	0.0052	0.01	Q				
59+31	0.0052	0.01	Q				
59+32	0.0052	0.01	Q				
59+33	0.0051	0.01	Q				
59+34	0.0051	0.01	Q				
59+35	0.0051	0.01	Q				
59+36	0.0051	0.01	Q				
59+37	0.0050	0.01	Q				
59+38	0.0050	0.01	Q				
59+39	0.0050	0.01	Q				
59+40	0.0050	0.01	Q				
59+41	0.0049	0.01	Q				
59+42	0.0049	0.01	Q				
59+43	0.0049	0.01	Q				

59+44	0.0049	0.01	Q				
59+45	0.0048	0.01	Q				
59+46	0.0048	0.01	Q				
59+47	0.0048	0.01	Q				
59+48	0.0048	0.01	Q				
59+49	0.0048	0.01	Q				
59+50	0.0047	0.01	Q				
59+51	0.0047	0.01	Q				
59+52	0.0047	0.01	Q				
59+53	0.0047	0.01	Q				
59+54	0.0046	0.01	Q				
59+55	0.0046	0.01	Q				
59+56	0.0046	0.01	Q				
59+57	0.0046	0.01	Q				
59+58	0.0046	0.01	Q				
59+59	0.0045	0.01	Q				
60+ 0	0.0045	0.01	Q				
60+ 1	0.0045	0.01	Q				
60+ 2	0.0045	0.01	Q				
60+ 3	0.0044	0.01	Q				
60+ 4	0.0044	0.01	Q				
60+ 5	0.0044	0.01	Q				
60+ 6	0.0044	0.01	Q				
60+ 7	0.0044	0.01	Q				
60+ 8	0.0043	0.01	Q				
60+ 9	0.0043	0.01	Q				
60+10	0.0043	0.01	Q				
60+11	0.0043	0.01	Q				
60+12	0.0043	0.01	Q				
60+13	0.0042	0.01	Q				
60+14	0.0042	0.01	Q				
60+15	0.0042	0.01	Q				
60+16	0.0042	0.01	Q				
60+17	0.0042	0.01	Q				
60+18	0.0041	0.01	Q				
60+19	0.0041	0.01	Q				
60+20	0.0041	0.01	Q				
60+21	0.0041	0.01	Q				
60+22	0.0041	0.01	Q				
60+23	0.0040	0.01	Q				
60+24	0.0040	0.01	Q				
60+25	0.0040	0.01	Q				
60+26	0.0040	0.01	Q				
60+27	0.0040	0.01	Q				
60+28	0.0040	0.01	Q				
60+29	0.0039	0.00	Q				
60+30	0.0039	0.00	Q				
60+31	0.0039	0.00	Q				
60+32	0.0039	0.00	Q				
60+33	0.0039	0.00	Q				
60+34	0.0038	0.00	Q				
60+35	0.0038	0.00	Q				
60+36	0.0038	0.00	Q				
60+37	0.0038	0.00	Q				
60+38	0.0038	0.00	Q				
60+39	0.0038	0.00	Q				
60+40	0.0037	0.00	Q				
60+41	0.0037	0.00	Q				
60+42	0.0037	0.00	Q				
60+43	0.0037	0.00	Q				
60+44	0.0037	0.00	Q				
60+45	0.0036	0.00	Q				
60+46	0.0036	0.00	Q				
60+47	0.0036	0.00	Q				
60+48	0.0036	0.00	Q				
60+49	0.0036	0.00	Q				
60+50	0.0036	0.00	Q				
60+51	0.0035	0.00	Q				
60+52	0.0035	0.00	Q				
60+53	0.0035	0.00	Q				
60+54	0.0035	0.00	Q				

60+55	0.0035	0.00	Q				
60+56	0.0035	0.00	Q				
60+57	0.0034	0.00	Q				
60+58	0.0034	0.00	Q				
60+59	0.0034	0.00	Q				
61+ 0	0.0034	0.00	Q				
61+ 1	0.0034	0.00	Q				
61+ 2	0.0034	0.00	Q				
61+ 3	0.0033	0.00	Q				
61+ 4	0.0033	0.00	Q				
61+ 5	0.0033	0.00	Q				
61+ 6	0.0033	0.00	Q				
61+ 7	0.0033	0.00	Q				
61+ 8	0.0033	0.00	Q				
61+ 9	0.0033	0.00	Q				
61+10	0.0032	0.00	Q				
61+11	0.0032	0.00	Q				
61+12	0.0032	0.00	Q				
61+13	0.0032	0.00	Q				
61+14	0.0032	0.00	Q				
61+15	0.0032	0.00	Q				
61+16	0.0031	0.00	Q				
61+17	0.0031	0.00	Q				
61+18	0.0031	0.00	Q				
61+19	0.0031	0.00	Q				
61+20	0.0031	0.00	Q				
61+21	0.0031	0.00	Q				
61+22	0.0031	0.00	Q				
61+23	0.0030	0.00	Q				
61+24	0.0030	0.00	Q				
61+25	0.0030	0.00	Q				
61+26	0.0030	0.00	Q				
61+27	0.0030	0.00	Q				
61+28	0.0030	0.00	Q				
61+29	0.0030	0.00	Q				
61+30	0.0029	0.00	Q				
61+31	0.0029	0.00	Q				
61+32	0.0029	0.00	Q				
61+33	0.0029	0.00	Q				
61+34	0.0029	0.00	Q				
61+35	0.0029	0.00	Q				
61+36	0.0029	0.00	Q				
61+37	0.0028	0.00	Q				
61+38	0.0028	0.00	Q				
61+39	0.0028	0.00	Q				
61+40	0.0028	0.00	Q				
61+41	0.0028	0.00	Q				
61+42	0.0028	0.00	Q				
61+43	0.0028	0.00	Q				
61+44	0.0028	0.00	Q				
61+45	0.0027	0.00	Q				
61+46	0.0027	0.00	Q				
61+47	0.0027	0.00	Q				
61+48	0.0027	0.00	Q				
61+49	0.0027	0.00	Q				
61+50	0.0027	0.00	Q				
61+51	0.0027	0.00	Q				
61+52	0.0027	0.00	Q				
61+53	0.0026	0.00	Q				
61+54	0.0026	0.00	Q				
61+55	0.0026	0.00	Q				
61+56	0.0026	0.00	Q				
61+57	0.0026	0.00	Q				
61+58	0.0026	0.00	Q				
61+59	0.0026	0.00	Q				
62+ 0	0.0026	0.00	Q				
62+ 1	0.0025	0.00	Q				
62+ 2	0.0025	0.00	Q				
62+ 3	0.0025	0.00	Q				
62+ 4	0.0025	0.00	Q				
62+ 5	0.0025	0.00	Q				

62+ 6	0.0025	0.00	Q				
62+ 7	0.0025	0.00	Q				
62+ 8	0.0025	0.00	Q				
62+ 9	0.0024	0.00	Q				
62+10	0.0024	0.00	Q				
62+11	0.0024	0.00	Q				
62+12	0.0024	0.00	Q				
62+13	0.0024	0.00	Q				
62+14	0.0024	0.00	Q				
62+15	0.0024	0.00	Q				
62+16	0.0024	0.00	Q				
62+17	0.0024	0.00	Q				
62+18	0.0023	0.00	Q				
62+19	0.0023	0.00	Q				
62+20	0.0023	0.00	Q				
62+21	0.0023	0.00	Q				
62+22	0.0023	0.00	Q				
62+23	0.0023	0.00	Q				
62+24	0.0023	0.00	Q				
62+25	0.0023	0.00	Q				
62+26	0.0023	0.00	Q				
62+27	0.0022	0.00	Q				
62+28	0.0022	0.00	Q				
62+29	0.0022	0.00	Q				
62+30	0.0022	0.00	Q				
62+31	0.0022	0.00	Q				
62+32	0.0022	0.00	Q				
62+33	0.0022	0.00	Q				
62+34	0.0022	0.00	Q				
62+35	0.0022	0.00	Q				
62+36	0.0022	0.00	Q				
62+37	0.0021	0.00	Q				
62+38	0.0021	0.00	Q				
62+39	0.0021	0.00	Q				
62+40	0.0021	0.00	Q				
62+41	0.0021	0.00	Q				
62+42	0.0021	0.00	Q				
62+43	0.0021	0.00	Q				
62+44	0.0021	0.00	Q				
62+45	0.0021	0.00	Q				
62+46	0.0021	0.00	Q				
62+47	0.0020	0.00	Q				
62+48	0.0020	0.00	Q				
62+49	0.0020	0.00	Q				
62+50	0.0020	0.00	Q				
62+51	0.0020	0.00	Q				
62+52	0.0020	0.00	Q				
62+53	0.0020	0.00	Q				
62+54	0.0020	0.00	Q				
62+55	0.0020	0.00	Q				
62+56	0.0020	0.00	Q				
62+57	0.0019	0.00	Q				
62+58	0.0019	0.00	Q				
62+59	0.0019	0.00	Q				
63+ 0	0.0019	0.00	Q				
63+ 1	0.0019	0.00	Q				
63+ 2	0.0019	0.00	Q				
63+ 3	0.0019	0.00	Q				
63+ 4	0.0019	0.00	Q				
63+ 5	0.0019	0.00	Q				
63+ 6	0.0019	0.00	Q				
63+ 7	0.0019	0.00	Q				
63+ 8	0.0018	0.00	Q				
63+ 9	0.0018	0.00	Q				
63+10	0.0018	0.00	Q				
63+11	0.0018	0.00	Q				
63+12	0.0018	0.00	Q				
63+13	0.0018	0.00	Q				
63+14	0.0018	0.00	Q				
63+15	0.0018	0.00	Q				
63+16	0.0018	0.00	Q				

63+17	0.0018	0.00	Q				
63+18	0.0018	0.00	Q				
63+19	0.0018	0.00	Q				
63+20	0.0017	0.00	Q				
63+21	0.0017	0.00	Q				
63+22	0.0017	0.00	Q				
63+23	0.0017	0.00	Q				
63+24	0.0017	0.00	Q				
63+25	0.0017	0.00	Q				
63+26	0.0017	0.00	Q				
63+27	0.0017	0.00	Q				
63+28	0.0017	0.00	Q				
63+29	0.0017	0.00	Q				
63+30	0.0017	0.00	Q				
63+31	0.0017	0.00	Q				
63+32	0.0016	0.00	Q				
63+33	0.0016	0.00	Q				
63+34	0.0016	0.00	Q				
63+35	0.0016	0.00	Q				
63+36	0.0016	0.00	Q				
63+37	0.0016	0.00	Q				
63+38	0.0016	0.00	Q				
63+39	0.0016	0.00	Q				
63+40	0.0016	0.00	Q				
63+41	0.0016	0.00	Q				
63+42	0.0016	0.00	Q				
63+43	0.0016	0.00	Q				
63+44	0.0016	0.00	Q				
63+45	0.0016	0.00	Q				
63+46	0.0015	0.00	Q				
63+47	0.0015	0.00	Q				
63+48	0.0015	0.00	Q				
63+49	0.0015	0.00	Q				
63+50	0.0015	0.00	Q				
63+51	0.0015	0.00	Q				
63+52	0.0015	0.00	Q				
63+53	0.0015	0.00	Q				
63+54	0.0015	0.00	Q				
63+55	0.0015	0.00	Q				
63+56	0.0015	0.00	Q				
63+57	0.0015	0.00	Q				
63+58	0.0015	0.00	Q				
63+59	0.0015	0.00	Q				
64+ 0	0.0014	0.00	Q				
64+ 1	0.0014	0.00	Q				
64+ 2	0.0014	0.00	Q				
64+ 3	0.0014	0.00	Q				
64+ 4	0.0014	0.00	Q				
64+ 5	0.0014	0.00	Q				
64+ 6	0.0014	0.00	Q				
64+ 7	0.0014	0.00	Q				
64+ 8	0.0014	0.00	Q				
64+ 9	0.0014	0.00	Q				
64+10	0.0014	0.00	Q				
64+11	0.0014	0.00	Q				
64+12	0.0014	0.00	Q				
64+13	0.0014	0.00	Q				
64+14	0.0014	0.00	Q				
64+15	0.0013	0.00	Q				
64+16	0.0013	0.00	Q				
64+17	0.0013	0.00	Q				
64+18	0.0013	0.00	Q				
64+19	0.0013	0.00	Q				
64+20	0.0013	0.00	Q				
64+21	0.0013	0.00	Q				
64+22	0.0013	0.00	Q				
64+23	0.0013	0.00	Q				
64+24	0.0013	0.00	Q				
64+25	0.0013	0.00	Q				
64+26	0.0013	0.00	Q				
64+27	0.0013	0.00	Q				

64+28	0.0013	0.00	Q				
64+29	0.0013	0.00	Q				
64+30	0.0013	0.00	Q				
64+31	0.0012	0.00	Q				
64+32	0.0012	0.00	Q				
64+33	0.0012	0.00	Q				
64+34	0.0012	0.00	Q				
64+35	0.0012	0.00	Q				
64+36	0.0012	0.00	Q				
64+37	0.0012	0.00	Q				
64+38	0.0012	0.00	Q				
64+39	0.0012	0.00	Q				
64+40	0.0012	0.00	Q				
64+41	0.0012	0.00	Q				
64+42	0.0012	0.00	Q				
64+43	0.0012	0.00	Q				
64+44	0.0012	0.00	Q				
64+45	0.0012	0.00	Q				
64+46	0.0012	0.00	Q				
64+47	0.0012	0.00	Q				
64+48	0.0011	0.00	Q				
64+49	0.0011	0.00	Q				
64+50	0.0011	0.00	Q				
64+51	0.0011	0.00	Q				
64+52	0.0011	0.00	Q				
64+53	0.0011	0.00	Q				
64+54	0.0011	0.00	Q				
64+55	0.0011	0.00	Q				
64+56	0.0011	0.00	Q				
64+57	0.0011	0.00	Q				
64+58	0.0011	0.00	Q				
64+59	0.0011	0.00	Q				
65+ 0	0.0011	0.00	Q				
65+ 1	0.0011	0.00	Q				
65+ 2	0.0011	0.00	Q				
65+ 3	0.0011	0.00	Q				
65+ 4	0.0011	0.00	Q				
65+ 5	0.0011	0.00	Q				
65+ 6	0.0011	0.00	Q				
65+ 7	0.0011	0.00	Q				
65+ 8	0.0010	0.00	Q				
65+ 9	0.0010	0.00	Q				
65+10	0.0010	0.00	Q				
65+11	0.0010	0.00	Q				
65+12	0.0010	0.00	Q				
65+13	0.0010	0.00	Q				
65+14	0.0010	0.00	Q				
65+15	0.0010	0.00	Q				
65+16	0.0010	0.00	Q				
65+17	0.0010	0.00	Q				
65+18	0.0010	0.00	Q				
65+19	0.0010	0.00	Q				
65+20	0.0010	0.00	Q				
65+21	0.0010	0.00	Q				
65+22	0.0010	0.00	Q				
65+23	0.0010	0.00	Q				
65+24	0.0010	0.00	Q				
65+25	0.0010	0.00	Q				
65+26	0.0010	0.00	Q				
65+27	0.0010	0.00	Q				
65+28	0.0010	0.00	Q				
65+29	0.0009	0.00	Q				
65+30	0.0009	0.00	Q				
65+31	0.0009	0.00	Q				
65+32	0.0009	0.00	Q				
65+33	0.0009	0.00	Q				
65+34	0.0009	0.00	Q				
65+35	0.0009	0.00	Q				
65+36	0.0009	0.00	Q				
65+37	0.0009	0.00	Q				
65+38	0.0009	0.00	Q				

65+39	0.0009	0.00	Q				
65+40	0.0009	0.00	Q				
65+41	0.0009	0.00	Q				
65+42	0.0009	0.00	Q				
65+43	0.0009	0.00	Q				
65+44	0.0009	0.00	Q				
65+45	0.0009	0.00	Q				
65+46	0.0009	0.00	Q				
65+47	0.0009	0.00	Q				
65+48	0.0009	0.00	Q				
65+49	0.0009	0.00	Q				
65+50	0.0009	0.00	Q				
65+51	0.0009	0.00	Q				
65+52	0.0008	0.00	Q				
65+53	0.0008	0.00	Q				
65+54	0.0008	0.00	Q				
65+55	0.0008	0.00	Q				
65+56	0.0008	0.00	Q				
65+57	0.0008	0.00	Q				
65+58	0.0008	0.00	Q				
65+59	0.0008	0.00	Q				
66+ 0	0.0008	0.00	Q				
66+ 1	0.0000	0.00	Q				
66+ 2	0.0000	0.00	Q				
66+ 3	0.0000	0.00	Q				
66+ 4	0.0000	0.00	Q				
66+ 5	0.0000	0.00	Q				
66+ 6	0.0000	0.00	Q				
66+ 7	0.0000	0.00	Q				
66+ 8	0.0000	0.00	Q				
66+ 9	0.0000	0.00	Q				

 *****HYDROGRAPH DATA*****

Number of intervals = 3969

Time interval = 1.0 (Min.)

Maximum/Peak flow rate = 50.719 (CFS)

Total volume = 14.981 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
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 Study date: 04/15/24

 Majestic Otay
 Otay Mesa San Diego County
 Proposed Condition Basin 4
 100160rtebas4

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratbas4.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 368
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 29.856 (CFS)
 Total volume = 1.316 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 0.000 to Point/Station 0.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 368
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 4.50 (Ft.)

Initial basin depth = 4.50 (Ft.)
 Initial basin storage = 0.56 (Ac.Ft)
 Initial basin outflow = 0.90 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.090	0.800	0.089	0.091
1.500	0.130	0.900	0.129	0.131
2.500	0.220	0.900	0.219	0.221
3.500	0.310	0.900	0.309	0.311
4.500	0.560	0.900	0.559	0.561
5.500	0.870	6.500	0.866	0.874
6.500	1.230	44.100	1.200	1.260

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	7.5	14.93	22.39	29.86 (Ft.)
-----------------	-----------------	------------------	--------------------	----	-----	-------	-------	-------------

0.017	0.12	0.90	0.558	O					4.49
0.033	0.24	0.90	0.557	O					4.49
0.050	0.36	0.90	0.556	O					4.49
0.067	0.48	0.90	0.556	O					4.48
0.083	0.60	0.90	0.555	O					4.48
0.100	0.72	0.90	0.555	O					4.48
0.117	0.84	0.90	0.555	O					4.48
0.133	0.95	0.90	0.555	OI					4.48
0.150	0.96	0.90	0.555	OI					4.48
0.167	0.96	0.90	0.555	OI					4.48
0.183	0.96	0.90	0.555	OI					4.48
0.200	0.96	0.90	0.555	OI					4.48
0.217	0.96	0.90	0.555	OI					4.48
0.233	0.97	0.90	0.555	OI					4.48
0.250	0.97	0.90	0.555	OI					4.48
0.267	0.97	0.90	0.555	OI					4.48
0.283	0.97	0.90	0.556	OI					4.48
0.300	0.98	0.90	0.556	OI					4.48
0.317	0.98	0.90	0.556	OI					4.48
0.333	0.98	0.90	0.556	OI					4.48
0.350	0.99	0.90	0.556	OI					4.48
0.367	0.99	0.90	0.556	OI					4.48
0.383	0.99	0.90	0.556	OI					4.48
0.400	1.00	0.90	0.556	OI					4.49
0.417	1.00	0.90	0.556	OI					4.49
0.433	1.00	0.90	0.557	OI					4.49
0.450	1.00	0.90	0.557	OI					4.49
0.467	1.01	0.90	0.557	OI					4.49
0.483	1.01	0.90	0.557	OI					4.49
0.500	1.01	0.90	0.557	OI					4.49
0.517	1.01	0.90	0.557	OI					4.49
0.533	1.01	0.90	0.558	OI					4.49
0.550	1.02	0.90	0.558	OI					4.49
0.567	1.02	0.90	0.558	OI					4.49
0.583	1.03	0.90	0.558	OI					4.49
0.600	1.03	0.90	0.558	OI					4.49
0.617	1.04	0.90	0.558	OI					4.49
0.633	1.04	0.90	0.559	OI					4.49
0.650	1.04	0.90	0.559	OI					4.49
0.667	1.05	0.90	0.559	OI					4.50
0.683	1.05	0.90	0.559	OI					4.50
0.700	1.05	0.90	0.559	OI					4.50
0.717	1.05	0.90	0.560	OI					4.50
0.733	1.06	0.90	0.560	OI					4.50
0.750	1.06	0.90	0.560	OI					4.50
0.767	1.06	0.90	0.560	OI					4.50
0.783	1.06	0.91	0.560	OI					4.50
0.800	1.07	0.91	0.561	OI					4.50
0.817	1.07	0.92	0.561	OI					4.50
0.833	1.08	0.92	0.561	OI					4.50
0.850	1.08	0.92	0.561	OI					4.50
0.867	1.09	0.93	0.562	OI					4.50
0.883	1.09	0.93	0.562	OI					4.51
0.900	1.09	0.94	0.562	IO					4.51
0.917	1.10	0.94	0.562	IO					4.51
0.933	1.10	0.94	0.562	IO					4.51
0.950	1.11	0.95	0.563	IO					4.51
0.967	1.11	0.95	0.563	IO					4.51
0.983	1.11	0.96	0.563	IO					4.51
1.000	1.11	0.96	0.563	IO					4.51
1.017	1.12	0.96	0.563	IO					4.51
1.033	1.12	0.97	0.564	IO					4.51
1.050	1.12	0.97	0.564	IO					4.51
1.067	1.13	0.97	0.564	IO					4.51
1.083	1.13	0.98	0.564	IO					4.51
1.100	1.14	0.98	0.565	IO					4.51
1.117	1.14	0.99	0.565	IO					4.52
1.133	1.15	0.99	0.565	IO					4.52
1.150	1.15	0.99	0.565	IO					4.52
1.167	1.16	1.00	0.565	IO					4.52
1.183	1.16	1.00	0.566	IO					4.52

1.200	1.17	1.01	0.566	0					4.52
1.217	1.17	1.01	0.566	0					4.52
1.233	1.18	1.01	0.566	0					4.52
1.250	1.18	1.02	0.567	0					4.52
1.267	1.18	1.02	0.567	0					4.52
1.283	1.18	1.03	0.567	0					4.52
1.300	1.19	1.03	0.567	0					4.52
1.317	1.19	1.03	0.567	0					4.52
1.333	1.19	1.04	0.568	0					4.52
1.350	1.20	1.04	0.568	0					4.53
1.367	1.21	1.05	0.568	0					4.53
1.383	1.21	1.05	0.568	0					4.53
1.400	1.22	1.05	0.568	0					4.53
1.417	1.23	1.06	0.569	0					4.53
1.433	1.23	1.06	0.569	0					4.53
1.450	1.24	1.07	0.569	0					4.53
1.467	1.24	1.07	0.569	0					4.53
1.483	1.25	1.07	0.570	0					4.53
1.500	1.25	1.08	0.570	0					4.53
1.517	1.26	1.08	0.570	0					4.53
1.533	1.26	1.09	0.570	0					4.53
1.550	1.26	1.09	0.571	0					4.53
1.567	1.27	1.10	0.571	0					4.54
1.583	1.27	1.10	0.571	0					4.54
1.600	1.27	1.10	0.571	0					4.54
1.617	1.28	1.11	0.572	0					4.54
1.633	1.29	1.11	0.572	0					4.54
1.650	1.30	1.12	0.572	0					4.54
1.667	1.30	1.12	0.572	0					4.54
1.683	1.31	1.13	0.573	0					4.54
1.700	1.32	1.13	0.573	0					4.54
1.717	1.33	1.14	0.573	0					4.54
1.733	1.33	1.14	0.573	0					4.54
1.750	1.34	1.15	0.574	0					4.54
1.767	1.34	1.15	0.574	0					4.54
1.783	1.35	1.15	0.574	0					4.55
1.800	1.35	1.16	0.574	0					4.55
1.817	1.35	1.16	0.575	0					4.55
1.833	1.36	1.17	0.575	0					4.55
1.850	1.36	1.17	0.575	0					4.55
1.867	1.37	1.18	0.575	0					4.55
1.883	1.38	1.18	0.576	0					4.55
1.900	1.39	1.19	0.576	0					4.55
1.917	1.40	1.19	0.576	0					4.55
1.933	1.40	1.20	0.577	0					4.55
1.950	1.41	1.20	0.577	0					4.55
1.967	1.42	1.21	0.577	0					4.56
1.983	1.43	1.21	0.577	0					4.56
2.000	1.44	1.22	0.578	0					4.56
2.017	1.45	1.23	0.578	0					4.56
2.033	1.45	1.23	0.578	0					4.56
2.050	1.46	1.24	0.579	0					4.56
2.067	1.46	1.24	0.579	0					4.56
2.083	1.47	1.25	0.579	0					4.56
2.100	1.47	1.25	0.580	0					4.56
2.117	1.48	1.26	0.580	0					4.56
2.133	1.48	1.26	0.580	0					4.56
2.150	1.49	1.27	0.580	0					4.57
2.167	1.51	1.27	0.581	0					4.57
2.183	1.52	1.28	0.581	0					4.57
2.200	1.53	1.29	0.581	0					4.57
2.217	1.54	1.29	0.582	0					4.57
2.233	1.55	1.30	0.582	0					4.57
2.250	1.56	1.30	0.582	0					4.57
2.267	1.57	1.31	0.583	0					4.57
2.283	1.58	1.32	0.583	0					4.57
2.300	1.59	1.32	0.584	0					4.58
2.317	1.59	1.33	0.584	0					4.58
2.333	1.60	1.34	0.584	0					4.58
2.350	1.61	1.34	0.585	0					4.58
2.367	1.61	1.35	0.585	0					4.58

2.383	1.62	1.36	0.585	O					4.58
2.400	1.63	1.36	0.586	O					4.58
2.417	1.64	1.37	0.586	O					4.58
2.433	1.66	1.38	0.586	O					4.59
2.450	1.67	1.38	0.587	O					4.59
2.467	1.68	1.39	0.587	O					4.59
2.483	1.70	1.40	0.588	O					4.59
2.500	1.71	1.41	0.588	O					4.59
2.517	1.73	1.41	0.588	O					4.59
2.533	1.74	1.42	0.589	O					4.59
2.550	1.75	1.43	0.589	O					4.59
2.567	1.76	1.44	0.590	O					4.60
2.583	1.77	1.45	0.590	O					4.60
2.600	1.78	1.45	0.591	O					4.60
2.617	1.79	1.46	0.591	O					4.60
2.633	1.79	1.47	0.592	O					4.60
2.650	1.80	1.48	0.592	O					4.60
2.667	1.81	1.49	0.592	O					4.60
2.683	1.83	1.49	0.593	O					4.61
2.700	1.85	1.50	0.593	O					4.61
2.717	1.87	1.51	0.594	OI					4.61
2.733	1.89	1.52	0.594	OI					4.61
2.750	1.91	1.53	0.595	OI					4.61
2.767	1.93	1.54	0.595	OI					4.61
2.783	1.95	1.55	0.596	OI					4.62
2.800	1.97	1.56	0.597	OI					4.62
2.817	1.98	1.57	0.597	OI					4.62
2.833	1.99	1.58	0.598	OI					4.62
2.850	2.00	1.59	0.598	OI					4.62
2.867	2.01	1.60	0.599	OI					4.63
2.883	2.03	1.61	0.599	OI					4.63
2.900	2.04	1.62	0.600	OI					4.63
2.917	2.05	1.63	0.600	OI					4.63
2.933	2.06	1.64	0.601	OI					4.63
2.950	2.09	1.65	0.602	OI					4.63
2.967	2.12	1.66	0.602	OI					4.64
2.983	2.15	1.68	0.603	OI					4.64
3.000	2.17	1.69	0.604	OI					4.64
3.017	2.20	1.70	0.604	OI					4.64
3.033	2.23	1.71	0.605	OI					4.65
3.050	2.26	1.73	0.606	OI					4.65
3.067	2.29	1.74	0.606	OI					4.65
3.083	2.30	1.75	0.607	OI					4.65
3.100	2.32	1.77	0.608	OI					4.65
3.117	2.34	1.78	0.609	OI					4.66
3.133	2.36	1.79	0.609	OI					4.66
3.150	2.37	1.81	0.610	OI					4.66
3.167	2.39	1.82	0.611	OI					4.66
3.183	2.41	1.84	0.612	OI					4.67
3.200	2.42	1.85	0.613	OI					4.67
3.217	2.47	1.86	0.613	OI					4.67
3.233	2.51	1.88	0.614	O					4.68
3.250	2.56	1.90	0.615	O					4.68
3.267	2.60	1.91	0.616	O					4.68
3.283	2.65	1.93	0.617	O					4.68
3.300	2.69	1.95	0.618	O					4.69
3.317	2.73	1.97	0.619	O					4.69
3.333	2.78	1.99	0.620	O					4.69
3.350	2.81	2.01	0.621	OI					4.70
3.367	2.84	2.03	0.622	OI					4.70
3.383	2.87	2.05	0.623	OI					4.70
3.400	2.90	2.07	0.625	OI					4.71
3.417	2.93	2.09	0.626	OI					4.71
3.433	2.95	2.11	0.627	OI					4.72
3.450	2.98	2.13	0.628	OI					4.72
3.467	3.01	2.15	0.629	OI					4.72
3.483	3.10	2.17	0.631	OI					4.73
3.500	3.18	2.20	0.632	OI					4.73
3.517	3.26	2.22	0.633	OI					4.74
3.533	3.35	2.25	0.635	OI					4.74
3.550	3.43	2.28	0.636	OI					4.75

3.567	3.52	2.31	0.638	OI						4.75
3.583	3.60	2.34	0.640	OI						4.76
3.600	3.68	2.37	0.641	OI						4.76
3.617	3.75	2.40	0.643	O I						4.77
3.633	3.81	2.44	0.645	O I						4.77
3.650	3.87	2.47	0.647	O I						4.78
3.667	3.94	2.51	0.649	O I						4.79
3.683	4.00	2.54	0.651	O I						4.79
3.700	4.07	2.58	0.653	O I						4.80
3.717	4.13	2.62	0.655	O I						4.81
3.733	4.19	2.65	0.657	O I						4.81
3.750	4.44	2.70	0.659	O I						4.82
3.767	4.69	2.74	0.662	O I						4.83
3.783	4.93	2.79	0.665	O I						4.84
3.800	5.18	2.85	0.668	O I						4.85
3.817	5.42	2.91	0.671	O I						4.86
3.833	5.67	2.97	0.675	O I						4.87
3.850	5.91	3.04	0.679	O I						4.88
3.867	6.16	3.12	0.683	O I						4.90
3.883	6.47	3.19	0.687	O I						4.91
3.900	6.79	3.28	0.692	O I						4.92
3.917	7.10	3.37	0.697	O I						4.94
3.933	7.42	3.46	0.702	O I						4.96
3.950	7.73	3.57	0.708	O I						4.98
3.967	8.05	3.67	0.713	O I						4.99
3.983	8.36	3.78	0.720	O I						5.01
4.000	8.68	3.90	0.726	O I						5.04
4.017	11.33	4.05	0.734	O		I				5.06
4.033	13.97	4.26	0.746	O		I				5.10
4.050	16.62	4.53	0.761	O		I				5.15
4.067	19.27	4.86	0.779	O		I		I		5.21
4.083	21.91	5.25	0.801	O		I		I		5.28
4.100	24.56	5.69	0.825	O		I		I		5.36
4.117	27.21	6.19	0.853	O		I		I		5.44
4.133	29.86	7.79	0.882	O		I		I		5.53
4.150	26.74	10.54	0.909		O			I		5.61
4.167	23.63	12.51	0.928		O		I	I		5.66
4.183	20.51	13.79	0.940		O		I	I		5.69
4.200	17.40	14.48	0.946		O		I	I		5.71
4.217	14.28	14.67	0.948		O		I	I		5.72
4.233	11.17	14.40	0.946		I	O		I		5.71
4.250	8.05	13.76	0.940		I	O		I		5.69
4.267	4.94	12.79	0.930		I	O		I		5.67
4.283	4.74	11.72	0.920		I	O		I		5.64
4.300	4.53	10.77	0.911		I	O		I		5.61
4.317	4.33	9.92	0.903		I	O		I		5.59
4.333	4.12	9.15	0.895		I	O		I		5.57
4.350	3.92	8.46	0.889		I	O		I		5.55
4.367	3.71	7.84	0.883		I	O		I		5.54
4.383	3.51	7.27	0.877		I	O		I		5.52
4.400	3.31	6.75	0.872		I	O		I		5.51
4.417	3.22	6.46	0.868		I	O		I		5.49
4.433	3.13	6.38	0.863		I	O		I		5.48
4.450	3.04	6.30	0.859		I	O		I		5.46
4.467	2.95	6.22	0.854		I	O		I		5.45
4.483	2.86	6.14	0.850		I	O		I		5.43
4.500	2.77	6.05	0.845		I	O		I		5.42
4.517	2.68	5.97	0.841		I	O		I		5.41
4.533	2.59	5.89	0.836		I	O		I		5.39
4.550	2.53	5.81	0.832		I	O		I		5.38
4.567	2.48	5.73	0.827		I	O		I		5.36
4.583	2.43	5.65	0.823		I	O		I		5.35
4.600	2.38	5.57	0.818		I	O		I		5.33
4.617	2.32	5.49	0.814		I	O		I		5.32
4.633	2.27	5.41	0.810		I	O		I		5.31
4.650	2.22	5.33	0.805		I	O		I		5.29
4.667	2.17	5.25	0.801		I	O		I		5.28
4.683	2.13	5.18	0.797		I	O		I		5.26
4.700	2.10	5.10	0.793		I	O		I		5.25
4.717	2.06	5.03	0.789		I	O		I		5.24
4.733	2.03	4.96	0.784		I	O		I		5.22

4.750	1.99	4.88	0.780	I O				5.21
4.767	1.96	4.81	0.777	I O				5.20
4.783	1.92	4.74	0.773	I O				5.19
4.800	1.89	4.67	0.769	I O				5.17
4.817	1.86	4.60	0.765	I O				5.16
4.833	1.83	4.53	0.761	I O				5.15
4.850	1.81	4.47	0.758	I O				5.14
4.867	1.78	4.40	0.754	I O				5.13
4.883	1.76	4.34	0.750	I O				5.11
4.900	1.73	4.27	0.747	I O				5.10
4.917	1.71	4.21	0.743	I O				5.09
4.933	1.68	4.15	0.740	I O				5.08
4.950	1.66	4.09	0.736	I O				5.07
4.967	1.64	4.03	0.733	I O				5.06
4.983	1.62	3.97	0.730	I O				5.05
5.000	1.60	3.91	0.727	I O				5.04
5.017	1.58	3.85	0.724	I O				5.03
5.033	1.57	3.80	0.720	I O				5.02
5.050	1.55	3.74	0.717	I O				5.01
5.067	1.53	3.69	0.714	I O				5.00
5.083	1.51	3.64	0.711	I O				4.99
5.100	1.50	3.58	0.709	I O				4.98
5.117	1.48	3.53	0.706	I O				4.97
5.133	1.46	3.48	0.703	I O				4.96
5.150	1.45	3.43	0.700	I O				4.95
5.167	1.43	3.38	0.697	I O				4.94
5.183	1.42	3.33	0.695	I O				4.93
5.200	1.40	3.29	0.692	I O				4.93
5.217	1.39	3.24	0.690	I O				4.92
5.233	1.38	3.20	0.687	I O				4.91
5.250	1.37	3.15	0.685	I O				4.90
5.267	1.35	3.11	0.682	I O				4.89
5.283	1.34	3.06	0.680	I O				4.89
5.300	1.33	3.02	0.677	I O				4.88
5.317	1.31	2.98	0.675	I O				4.87
5.333	1.30	2.94	0.673	I O				4.86
5.350	1.29	2.90	0.671	I O				4.86
5.367	1.28	2.86	0.668	I O				4.85
5.383	1.27	2.82	0.666	I O				4.84
5.400	1.26	2.78	0.664	I O				4.84
5.417	1.25	2.74	0.662	IO				4.83
5.433	1.24	2.71	0.660	IO				4.82
5.450	1.23	2.67	0.658	IO				4.82
5.467	1.22	2.63	0.656	IO				4.81
5.483	1.21	2.60	0.654	IO				4.80
5.500	1.20	2.57	0.652	IO				4.80
5.517	1.19	2.53	0.650	IO				4.79
5.533	1.18	2.50	0.649	IO				4.79
5.550	1.17	2.47	0.647	IO				4.78
5.567	1.16	2.43	0.645	IO				4.77
5.583	1.16	2.40	0.643	IO				4.77
5.600	1.15	2.37	0.642	IO				4.76
5.617	1.14	2.34	0.640	IO				4.76
5.633	1.13	2.31	0.638	IO				4.75
5.650	1.12	2.28	0.637	IO				4.75
5.667	1.12	2.25	0.635	IO				4.74
5.683	1.11	2.23	0.633	IO				4.74
5.700	1.10	2.20	0.632	IO				4.73
5.717	1.09	2.17	0.630	IO				4.73
5.733	1.08	2.15	0.629	IO				4.72
5.750	1.08	2.12	0.627	IO				4.72
5.767	1.07	2.09	0.626	IO				4.71
5.783	1.06	2.07	0.625	IO				4.71
5.800	1.06	2.04	0.623	IO				4.70
5.817	1.05	2.02	0.622	IO				4.70
5.833	1.04	2.00	0.621	IO				4.70
5.850	1.04	1.97	0.619	IO				4.69
5.867	1.03	1.95	0.618	IO				4.69
5.883	1.03	1.93	0.617	IO				4.68
5.900	1.02	1.90	0.616	IO				4.68
5.917	1.01	1.88	0.614	IO				4.68

5.933	1.01	1.86	0.613	O					4.67
5.950	1.00	1.84	0.612	O					4.67
5.967	1.00	1.82	0.611	O					4.66
5.983	0.99	1.80	0.610	O					4.66
6.000	0.98	1.78	0.609	O					4.66
6.017	0.98	1.76	0.608	O					4.65
6.033	0.97	1.74	0.607	O					4.65
6.050	0.97	1.72	0.605	O					4.65
6.067	0.96	1.70	0.604	O					4.64
6.083	0.96	1.68	0.603	O					4.64
6.100	0.95	1.67	0.602	O					4.64
6.117	0.95	1.65	0.601	O					4.63
6.133	0.94	1.63	0.600	O					4.63
6.150	0.00	1.60	0.599	O					4.63
6.167	0.00	1.56	0.597	O					4.62
6.183	0.00	1.53	0.595	O					4.61
6.200	0.00	1.49	0.593	O					4.60
6.217	0.00	1.45	0.591	O					4.60
6.233	0.00	1.42	0.589	O					4.59
6.250	0.00	1.38	0.587	O					4.59
6.267	0.00	1.35	0.585	O					4.58
6.283	0.00	1.31	0.583	O					4.57
6.300	0.00	1.28	0.581	O					4.57
6.317	0.00	1.25	0.579	O					4.56
6.333	0.00	1.22	0.578	O					4.56
6.350	0.00	1.19	0.576	O					4.55
6.367	0.00	1.16	0.574	O					4.55
6.383	0.00	1.13	0.573	O					4.54
6.400	0.00	1.10	0.571	O					4.54
6.417	0.00	1.08	0.570	O					4.53
6.433	0.00	1.05	0.568	O					4.53
6.450	0.00	1.02	0.567	O					4.52
6.467	0.00	1.00	0.565	O					4.52
6.483	0.00	0.97	0.564	O					4.51
6.500	0.00	0.95	0.563	O					4.51
6.517	0.00	0.93	0.562	O					4.50
6.533	0.00	0.90	0.560	O					4.50
6.550	0.00	0.90	0.559	O					4.50
6.567	0.00	0.90	0.558	O					4.49
6.583	0.00	0.90	0.557	O					4.49
6.600	0.00	0.90	0.555	O					4.48
6.617	0.00	0.90	0.554	O					4.48
6.633	0.00	0.90	0.553	O					4.47
6.650	0.00	0.90	0.552	O					4.47
6.667	0.00	0.90	0.550	O					4.46
6.683	0.00	0.90	0.549	O					4.46
6.700	0.00	0.90	0.548	O					4.45
6.717	0.00	0.90	0.547	O					4.45
6.733	0.00	0.90	0.545	O					4.44
6.750	0.00	0.90	0.544	O					4.44
6.767	0.00	0.90	0.543	O					4.43
6.783	0.00	0.90	0.542	O					4.43
6.800	0.00	0.90	0.540	O					4.42
6.817	0.00	0.90	0.539	O					4.42
6.833	0.00	0.90	0.538	O					4.41
6.850	0.00	0.90	0.537	O					4.41
6.867	0.00	0.90	0.535	O					4.40
6.883	0.00	0.90	0.534	O					4.40
6.900	0.00	0.90	0.533	O					4.39
6.917	0.00	0.90	0.532	O					4.39
6.933	0.00	0.90	0.530	O					4.38
6.950	0.00	0.90	0.529	O					4.38
6.967	0.00	0.90	0.528	O					4.37
6.983	0.00	0.90	0.527	O					4.37
7.000	0.00	0.90	0.526	O					4.36
7.017	0.00	0.90	0.524	O					4.36
7.033	0.00	0.90	0.523	O					4.35
7.050	0.00	0.90	0.522	O					4.35
7.067	0.00	0.90	0.521	O					4.34
7.083	0.00	0.90	0.519	O					4.34
7.100	0.00	0.90	0.518	O					4.33

7.117	0.00	0.90	0.517	0					4.33
7.133	0.00	0.90	0.516	0					4.32
7.150	0.00	0.90	0.514	0					4.32
7.167	0.00	0.90	0.513	0					4.31
7.183	0.00	0.90	0.512	0					4.31
7.200	0.00	0.90	0.511	0					4.30
7.217	0.00	0.90	0.509	0					4.30
7.233	0.00	0.90	0.508	0					4.29
7.250	0.00	0.90	0.507	0					4.29
7.267	0.00	0.90	0.506	0					4.28
7.283	0.00	0.90	0.504	0					4.28
7.300	0.00	0.90	0.503	0					4.27
7.317	0.00	0.90	0.502	0					4.27
7.333	0.00	0.90	0.501	0					4.26
7.350	0.00	0.90	0.499	0					4.26
7.367	0.00	0.90	0.498	0					4.25
7.383	0.00	0.90	0.497	0					4.25
7.400	0.00	0.90	0.496	0					4.24
7.417	0.00	0.90	0.495	0					4.24
7.433	0.00	0.90	0.493	0					4.23
7.450	0.00	0.90	0.492	0					4.23
7.467	0.00	0.90	0.491	0					4.22
7.483	0.00	0.90	0.490	0					4.22
7.500	0.00	0.90	0.488	0					4.21
7.517	0.00	0.90	0.487	0					4.21
7.533	0.00	0.90	0.486	0					4.20
7.550	0.00	0.90	0.485	0					4.20
7.567	0.00	0.90	0.483	0					4.19
7.583	0.00	0.90	0.482	0					4.19
7.600	0.00	0.90	0.481	0					4.18
7.617	0.00	0.90	0.480	0					4.18
7.633	0.00	0.90	0.478	0					4.17
7.650	0.00	0.90	0.477	0					4.17
7.667	0.00	0.90	0.476	0					4.16
7.683	0.00	0.90	0.475	0					4.16
7.700	0.00	0.90	0.473	0					4.15
7.717	0.00	0.90	0.472	0					4.15
7.733	0.00	0.90	0.471	0					4.14
7.750	0.00	0.90	0.470	0					4.14
7.767	0.00	0.90	0.469	0					4.13
7.783	0.00	0.90	0.467	0					4.13
7.800	0.00	0.90	0.466	0					4.12
7.817	0.00	0.90	0.465	0					4.12
7.833	0.00	0.90	0.464	0					4.11
7.850	0.00	0.90	0.462	0					4.11
7.867	0.00	0.90	0.461	0					4.10
7.883	0.00	0.90	0.460	0					4.10
7.900	0.00	0.90	0.459	0					4.09
7.917	0.00	0.90	0.457	0					4.09
7.933	0.00	0.90	0.456	0					4.08
7.950	0.00	0.90	0.455	0					4.08
7.967	0.00	0.90	0.454	0					4.07
7.983	0.00	0.90	0.452	0					4.07
8.000	0.00	0.90	0.451	0					4.06
8.017	0.00	0.90	0.450	0					4.06
8.033	0.00	0.90	0.449	0					4.05
8.050	0.00	0.90	0.447	0					4.05
8.067	0.00	0.90	0.446	0					4.04
8.083	0.00	0.90	0.445	0					4.04
8.100	0.00	0.90	0.444	0					4.03
8.117	0.00	0.90	0.442	0					4.03
8.133	0.00	0.90	0.441	0					4.02
8.150	0.00	0.90	0.440	0					4.02
8.167	0.00	0.90	0.439	0					4.02
8.183	0.00	0.90	0.438	0					4.01
8.200	0.00	0.90	0.436	0					4.01
8.217	0.00	0.90	0.435	0					4.00
8.233	0.00	0.90	0.434	0					4.00
8.250	0.00	0.90	0.433	0					3.99
8.267	0.00	0.90	0.431	0					3.99
8.283	0.00	0.90	0.430	0					3.98

8.300	0.00	0.90	0.429	0					3.98
8.317	0.00	0.90	0.428	0					3.97
8.333	0.00	0.90	0.426	0					3.97
8.350	0.00	0.90	0.425	0					3.96
8.367	0.00	0.90	0.424	0					3.96
8.383	0.00	0.90	0.423	0					3.95
8.400	0.00	0.90	0.421	0					3.95
8.417	0.00	0.90	0.420	0					3.94
8.433	0.00	0.90	0.419	0					3.94
8.450	0.00	0.90	0.418	0					3.93
8.467	0.00	0.90	0.416	0					3.93
8.483	0.00	0.90	0.415	0					3.92
8.500	0.00	0.90	0.414	0					3.92
8.517	0.00	0.90	0.413	0					3.91
8.533	0.00	0.90	0.411	0					3.91
8.550	0.00	0.90	0.410	0					3.90
8.567	0.00	0.90	0.409	0					3.90
8.583	0.00	0.90	0.408	0					3.89
8.600	0.00	0.90	0.407	0					3.89
8.617	0.00	0.90	0.405	0					3.88
8.633	0.00	0.90	0.404	0					3.88
8.650	0.00	0.90	0.403	0					3.87
8.667	0.00	0.90	0.402	0					3.87
8.683	0.00	0.90	0.400	0					3.86
8.700	0.00	0.90	0.399	0					3.86
8.717	0.00	0.90	0.398	0					3.85
8.733	0.00	0.90	0.397	0					3.85
8.750	0.00	0.90	0.395	0					3.84
8.767	0.00	0.90	0.394	0					3.84
8.783	0.00	0.90	0.393	0					3.83
8.800	0.00	0.90	0.392	0					3.83
8.817	0.00	0.90	0.390	0					3.82
8.833	0.00	0.90	0.389	0					3.82
8.850	0.00	0.90	0.388	0					3.81
8.867	0.00	0.90	0.387	0					3.81
8.883	0.00	0.90	0.385	0					3.80
8.900	0.00	0.90	0.384	0					3.80
8.917	0.00	0.90	0.383	0					3.79
8.933	0.00	0.90	0.382	0					3.79
8.950	0.00	0.90	0.380	0					3.78
8.967	0.00	0.90	0.379	0					3.78
8.983	0.00	0.90	0.378	0					3.77
9.000	0.00	0.90	0.377	0					3.77
9.017	0.00	0.90	0.376	0					3.76
9.033	0.00	0.90	0.374	0					3.76
9.050	0.00	0.90	0.373	0					3.75
9.067	0.00	0.90	0.372	0					3.75
9.083	0.00	0.90	0.371	0					3.74
9.100	0.00	0.90	0.369	0					3.74
9.117	0.00	0.90	0.368	0					3.73
9.133	0.00	0.90	0.367	0					3.73
9.150	0.00	0.90	0.366	0					3.72
9.167	0.00	0.90	0.364	0					3.72
9.183	0.00	0.90	0.363	0					3.71
9.200	0.00	0.90	0.362	0					3.71
9.217	0.00	0.90	0.361	0					3.70
9.233	0.00	0.90	0.359	0					3.70
9.250	0.00	0.90	0.358	0					3.69
9.267	0.00	0.90	0.357	0					3.69
9.283	0.00	0.90	0.356	0					3.68
9.300	0.00	0.90	0.354	0					3.68
9.317	0.00	0.90	0.353	0					3.67
9.333	0.00	0.90	0.352	0					3.67
9.350	0.00	0.90	0.351	0					3.66
9.367	0.00	0.90	0.349	0					3.66
9.383	0.00	0.90	0.348	0					3.65
9.400	0.00	0.90	0.347	0					3.65
9.417	0.00	0.90	0.346	0					3.64
9.433	0.00	0.90	0.345	0					3.64
9.450	0.00	0.90	0.343	0					3.63
9.467	0.00	0.90	0.342	0					3.63

9.483	0.00	0.90	0.341	0					3.62
9.500	0.00	0.90	0.340	0					3.62
9.517	0.00	0.90	0.338	0					3.61
9.533	0.00	0.90	0.337	0					3.61
9.550	0.00	0.90	0.336	0					3.60
9.567	0.00	0.90	0.335	0					3.60
9.583	0.00	0.90	0.333	0					3.59
9.600	0.00	0.90	0.332	0					3.59
9.617	0.00	0.90	0.331	0					3.58
9.633	0.00	0.90	0.330	0					3.58
9.650	0.00	0.90	0.328	0					3.57
9.667	0.00	0.90	0.327	0					3.57
9.683	0.00	0.90	0.326	0					3.56
9.700	0.00	0.90	0.325	0					3.56
9.717	0.00	0.90	0.323	0					3.55
9.733	0.00	0.90	0.322	0					3.55
9.750	0.00	0.90	0.321	0					3.54
9.767	0.00	0.90	0.320	0					3.54
9.783	0.00	0.90	0.319	0					3.53
9.800	0.00	0.90	0.317	0					3.53
9.817	0.00	0.90	0.316	0					3.52
9.833	0.00	0.90	0.315	0					3.52
9.850	0.00	0.90	0.314	0					3.51
9.867	0.00	0.90	0.312	0					3.51
9.883	0.00	0.90	0.311	0					3.50
9.900	0.00	0.90	0.310	0					3.50
9.917	0.00	0.90	0.309	0					3.48
9.933	0.00	0.90	0.307	0					3.47
9.950	0.00	0.90	0.306	0					3.46
9.967	0.00	0.90	0.305	0					3.44
9.983	0.00	0.90	0.304	0					3.43
10.000	0.00	0.90	0.302	0					3.42
10.017	0.00	0.90	0.301	0					3.40
10.033	0.00	0.90	0.300	0					3.39
10.050	0.00	0.90	0.299	0					3.37
10.067	0.00	0.90	0.297	0					3.36
10.083	0.00	0.90	0.296	0					3.35
10.100	0.00	0.90	0.295	0					3.33
10.117	0.00	0.90	0.294	0					3.32
10.133	0.00	0.90	0.292	0					3.31
10.150	0.00	0.90	0.291	0					3.29
10.167	0.00	0.90	0.290	0					3.28
10.183	0.00	0.90	0.289	0					3.26
10.200	0.00	0.90	0.288	0					3.25
10.217	0.00	0.90	0.286	0					3.24
10.233	0.00	0.90	0.285	0					3.22
10.250	0.00	0.90	0.284	0					3.21
10.267	0.00	0.90	0.283	0					3.20
10.283	0.00	0.90	0.281	0					3.18
10.300	0.00	0.90	0.280	0					3.17
10.317	0.00	0.90	0.279	0					3.15
10.333	0.00	0.90	0.278	0					3.14
10.350	0.00	0.90	0.276	0					3.13
10.367	0.00	0.90	0.275	0					3.11
10.383	0.00	0.90	0.274	0					3.10
10.400	0.00	0.90	0.273	0					3.08
10.417	0.00	0.90	0.271	0					3.07
10.433	0.00	0.90	0.270	0					3.06
10.450	0.00	0.90	0.269	0					3.04
10.467	0.00	0.90	0.268	0					3.03
10.483	0.00	0.90	0.266	0					3.02
10.500	0.00	0.90	0.265	0					3.00
10.517	0.00	0.90	0.264	0					2.99
10.533	0.00	0.90	0.263	0					2.97
10.550	0.00	0.90	0.261	0					2.96
10.567	0.00	0.90	0.260	0					2.95
10.583	0.00	0.90	0.259	0					2.93
10.600	0.00	0.90	0.258	0					2.92
10.617	0.00	0.90	0.257	0					2.91
10.633	0.00	0.90	0.255	0					2.89
10.650	0.00	0.90	0.254	0					2.88

10.667	0.00	0.90	0.253	0					2.86
10.683	0.00	0.90	0.252	0					2.85
10.700	0.00	0.90	0.250	0					2.84
10.717	0.00	0.90	0.249	0					2.82
10.733	0.00	0.90	0.248	0					2.81
10.750	0.00	0.90	0.247	0					2.80
10.767	0.00	0.90	0.245	0					2.78
10.783	0.00	0.90	0.244	0					2.77
10.800	0.00	0.90	0.243	0					2.75
10.817	0.00	0.90	0.242	0					2.74
10.833	0.00	0.90	0.240	0					2.73
10.850	0.00	0.90	0.239	0					2.71
10.867	0.00	0.90	0.238	0					2.70
10.883	0.00	0.90	0.237	0					2.69
10.900	0.00	0.90	0.235	0					2.67
10.917	0.00	0.90	0.234	0					2.66
10.933	0.00	0.90	0.233	0					2.64
10.950	0.00	0.90	0.232	0					2.63
10.967	0.00	0.90	0.230	0					2.62
10.983	0.00	0.90	0.229	0					2.60
11.000	0.00	0.90	0.228	0					2.59
11.017	0.00	0.90	0.227	0					2.58
11.033	0.00	0.90	0.226	0					2.56
11.050	0.00	0.90	0.224	0					2.55
11.067	0.00	0.90	0.223	0					2.53
11.083	0.00	0.90	0.222	0					2.52
11.100	0.00	0.90	0.221	0					2.51
11.117	0.00	0.90	0.219	0					2.49
11.133	0.00	0.90	0.218	0					2.48
11.150	0.00	0.90	0.217	0					2.46
11.167	0.00	0.90	0.216	0					2.45
11.183	0.00	0.90	0.214	0					2.44
11.200	0.00	0.90	0.213	0					2.42
11.217	0.00	0.90	0.212	0					2.41
11.233	0.00	0.90	0.211	0					2.40
11.250	0.00	0.90	0.209	0					2.38
11.267	0.00	0.90	0.208	0					2.37
11.283	0.00	0.90	0.207	0					2.35
11.300	0.00	0.90	0.206	0					2.34
11.317	0.00	0.90	0.204	0					2.33
11.333	0.00	0.90	0.203	0					2.31
11.350	0.00	0.90	0.202	0					2.30
11.367	0.00	0.90	0.201	0					2.29
11.383	0.00	0.90	0.199	0					2.27
11.400	0.00	0.90	0.198	0					2.26
11.417	0.00	0.90	0.197	0					2.24
11.433	0.00	0.90	0.196	0					2.23
11.450	0.00	0.90	0.195	0					2.22
11.467	0.00	0.90	0.193	0					2.20
11.483	0.00	0.90	0.192	0					2.19
11.500	0.00	0.90	0.191	0					2.18
11.517	0.00	0.90	0.190	0					2.16
11.533	0.00	0.90	0.188	0					2.15
11.550	0.00	0.90	0.187	0					2.13
11.567	0.00	0.90	0.186	0					2.12
11.583	0.00	0.90	0.185	0					2.11
11.600	0.00	0.90	0.183	0					2.09
11.617	0.00	0.90	0.182	0					2.08
11.633	0.00	0.90	0.181	0					2.07
11.650	0.00	0.90	0.180	0					2.05
11.667	0.00	0.90	0.178	0					2.04
11.683	0.00	0.90	0.177	0					2.02
11.700	0.00	0.90	0.176	0					2.01
11.717	0.00	0.90	0.175	0					2.00
11.733	0.00	0.90	0.173	0					1.98
11.750	0.00	0.90	0.172	0					1.97
11.767	0.00	0.90	0.171	0					1.96
11.783	0.00	0.90	0.170	0					1.94
11.800	0.00	0.90	0.169	0					1.93
11.817	0.00	0.90	0.167	0					1.91
11.833	0.00	0.90	0.166	0					1.90

11.850	0.00	0.90	0.165	0					1.89
11.867	0.00	0.90	0.164	0					1.87
11.883	0.00	0.90	0.162	0					1.86
11.900	0.00	0.90	0.161	0					1.85
11.917	0.00	0.90	0.160	0					1.83
11.933	0.00	0.90	0.159	0					1.82
11.950	0.00	0.90	0.157	0					1.80
11.967	0.00	0.90	0.156	0					1.79
11.983	0.00	0.90	0.155	0					1.78
12.000	0.00	0.90	0.154	0					1.76
12.017	0.00	0.90	0.152	0					1.75
12.033	0.00	0.90	0.151	0					1.73
12.050	0.00	0.90	0.150	0					1.72
12.067	0.00	0.90	0.149	0					1.71
12.083	0.00	0.90	0.147	0					1.69
12.100	0.00	0.90	0.146	0					1.68
12.117	0.00	0.90	0.145	0					1.67
12.133	0.00	0.90	0.144	0					1.65
12.150	0.00	0.90	0.142	0					1.64
12.167	0.00	0.90	0.141	0					1.62
12.183	0.00	0.90	0.140	0					1.61
12.200	0.00	0.90	0.139	0					1.60
12.217	0.00	0.90	0.138	0					1.58
12.233	0.00	0.90	0.136	0					1.57
12.250	0.00	0.90	0.135	0					1.56
12.267	0.00	0.90	0.134	0					1.54
12.283	0.00	0.90	0.133	0					1.53
12.300	0.00	0.90	0.131	0					1.51
12.317	0.00	0.90	0.130	0					1.50
12.333	0.00	0.90	0.129	0					1.49
12.350	0.00	0.89	0.128	0					1.47
12.367	0.00	0.89	0.126	0					1.45
12.383	0.00	0.89	0.125	0					1.44
12.400	0.00	0.88	0.124	0					1.42
12.417	0.00	0.88	0.123	0					1.41
12.433	0.00	0.88	0.121	0					1.39
12.450	0.00	0.88	0.120	0					1.38
12.467	0.00	0.87	0.119	0					1.36
12.483	0.00	0.87	0.118	0					1.35
12.500	0.00	0.87	0.117	0					1.33
12.517	0.00	0.86	0.115	0					1.32
12.533	0.00	0.86	0.114	0					1.30
12.550	0.00	0.86	0.113	0					1.29
12.567	0.00	0.85	0.112	0					1.27
12.583	0.00	0.85	0.111	0					1.26
12.600	0.00	0.85	0.110	0					1.24
12.617	0.00	0.85	0.108	0					1.23
12.633	0.00	0.84	0.107	0					1.22
12.650	0.00	0.84	0.106	0					1.20
12.667	0.00	0.84	0.105	0					1.19
12.683	0.00	0.83	0.104	0					1.17
12.700	0.00	0.83	0.103	0					1.16
12.717	0.00	0.83	0.102	0					1.14
12.733	0.00	0.83	0.100	0					1.13
12.750	0.00	0.82	0.099	0					1.12
12.767	0.00	0.82	0.098	0					1.10
12.783	0.00	0.82	0.097	0					1.09
12.800	0.00	0.81	0.096	0					1.07
12.817	0.00	0.81	0.095	0					1.06
12.833	0.00	0.81	0.094	0					1.05
12.850	0.00	0.81	0.093	0					1.03
12.867	0.00	0.80	0.091	0					1.02
12.883	0.00	0.80	0.090	0					1.00
12.900	0.00	0.79	0.089	0					0.99
12.917	0.00	0.78	0.088	0					0.98
12.933	0.00	0.77	0.087	0					0.97
12.950	0.00	0.76	0.086	0					0.96
12.967	0.00	0.75	0.085	0					0.94
12.983	0.00	0.75	0.084	0					0.93
13.000	0.00	0.74	0.083	0					0.92
13.017	0.00	0.73	0.082	0					0.91

13.033	0.00	0.72	0.081	0					0.90
13.050	0.00	0.71	0.080	0					0.89
13.067	0.00	0.70	0.079	0					0.88
13.083	0.00	0.69	0.078	0					0.87
13.100	0.00	0.68	0.077	0					0.86
13.117	0.00	0.68	0.076	0					0.85
13.133	0.00	0.67	0.075	0					0.83
13.150	0.00	0.66	0.074	0					0.82
13.167	0.00	0.65	0.073	0					0.81
13.183	0.00	0.64	0.072	0					0.80
13.200	0.00	0.64	0.072	0					0.80
13.217	0.00	0.63	0.071	0					0.79
13.233	0.00	0.62	0.070	0					0.78
13.250	0.00	0.61	0.069	0					0.77
13.267	0.00	0.61	0.068	0					0.76
13.283	0.00	0.60	0.067	0					0.75
13.300	0.00	0.59	0.066	0					0.74
13.317	0.00	0.58	0.066	0					0.73
13.333	0.00	0.58	0.065	0					0.72
13.350	0.00	0.57	0.064	0					0.71
13.367	0.00	0.56	0.063	0					0.70
13.383	0.00	0.56	0.063	0					0.69
13.400	0.00	0.55	0.062	0					0.69
13.417	0.00	0.54	0.061	0					0.68
13.433	0.00	0.54	0.060	0					0.67
13.450	0.00	0.53	0.060	0					0.66
13.467	0.00	0.52	0.059	0					0.65
13.483	0.00	0.52	0.058	0					0.65
13.500	0.00	0.51	0.057	0					0.64
13.517	0.00	0.50	0.057	0					0.63
13.533	0.00	0.50	0.056	0					0.62
13.550	0.00	0.49	0.055	0					0.61
13.567	0.00	0.49	0.055	0					0.61
13.583	0.00	0.48	0.054	0					0.60
13.600	0.00	0.47	0.053	0					0.59
13.617	0.00	0.47	0.053	0					0.59
13.633	0.00	0.46	0.052	0					0.58
13.650	0.00	0.46	0.051	0					0.57
13.667	0.00	0.45	0.051	0					0.56
13.683	0.00	0.45	0.050	0					0.56
13.700	0.00	0.44	0.050	0					0.55
13.717	0.00	0.44	0.049	0					0.54
13.733	0.00	0.43	0.048	0					0.54
13.750	0.00	0.42	0.048	0					0.53
13.767	0.00	0.42	0.047	0					0.52
13.783	0.00	0.41	0.047	0					0.52
13.800	0.00	0.41	0.046	0					0.51
13.817	0.00	0.40	0.045	0					0.51
13.833	0.00	0.40	0.045	0					0.50
13.850	0.00	0.39	0.044	0					0.49
13.867	0.00	0.39	0.044	0					0.49
13.883	0.00	0.38	0.043	0					0.48
13.900	0.00	0.38	0.043	0					0.48
13.917	0.00	0.38	0.042	0					0.47
13.933	0.00	0.37	0.042	0					0.46
13.950	0.00	0.37	0.041	0					0.46
13.967	0.00	0.36	0.041	0					0.45
13.983	0.00	0.36	0.040	0					0.45
14.000	0.00	0.35	0.040	0					0.44
14.017	0.00	0.35	0.039	0					0.44
14.033	0.00	0.34	0.039	0					0.43
14.050	0.00	0.34	0.038	0					0.43
14.067	0.00	0.34	0.038	0					0.42
14.083	0.00	0.33	0.037	0					0.42
14.100	0.00	0.33	0.037	0					0.41
14.117	0.00	0.32	0.036	0					0.41
14.133	0.00	0.32	0.036	0					0.40
14.150	0.00	0.32	0.036	0					0.40
14.167	0.00	0.31	0.035	0					0.39
14.183	0.00	0.31	0.035	0					0.39
14.200	0.00	0.31	0.034	0					0.38

14.217	0.00	0.30	0.034	0					0.38
14.233	0.00	0.30	0.033	0					0.37
14.250	0.00	0.29	0.033	0					0.37
14.267	0.00	0.29	0.033	0					0.36
14.283	0.00	0.29	0.032	0					0.36
14.300	0.00	0.28	0.032	0					0.35
14.317	0.00	0.28	0.032	0					0.35
14.333	0.00	0.28	0.031	0					0.35
14.350	0.00	0.27	0.031	0					0.34
14.367	0.00	0.27	0.030	0					0.34
14.383	0.00	0.27	0.030	0					0.33
14.400	0.00	0.26	0.030	0					0.33
14.417	0.00	0.26	0.029	0					0.33
14.433	0.00	0.26	0.029	0					0.32
14.450	0.00	0.25	0.029	0					0.32
14.467	0.00	0.25	0.028	0					0.31
14.483	0.00	0.25	0.028	0					0.31
14.500	0.00	0.24	0.028	0					0.31
14.517	0.00	0.24	0.027	0					0.30
14.533	0.00	0.24	0.027	0					0.30
14.550	0.00	0.24	0.027	0					0.29
14.567	0.00	0.23	0.026	0					0.29
14.583	0.00	0.23	0.026	0					0.29
14.600	0.00	0.23	0.026	0					0.28
14.617	0.00	0.22	0.025	0					0.28
14.633	0.00	0.22	0.025	0					0.28
14.650	0.00	0.22	0.025	0					0.27
14.667	0.00	0.22	0.024	0					0.27
14.683	0.00	0.21	0.024	0					0.27
14.700	0.00	0.21	0.024	0					0.26
14.717	0.00	0.21	0.023	0					0.26
14.733	0.00	0.21	0.023	0					0.26
14.750	0.00	0.20	0.023	0					0.25
14.767	0.00	0.20	0.023	0					0.25
14.783	0.00	0.20	0.022	0					0.25
14.800	0.00	0.20	0.022	0					0.25
14.817	0.00	0.19	0.022	0					0.24
14.833	0.00	0.19	0.022	0					0.24
14.850	0.00	0.19	0.021	0					0.24
14.867	0.00	0.19	0.021	0					0.23
14.883	0.00	0.18	0.021	0					0.23
14.900	0.00	0.18	0.021	0					0.23
14.917	0.00	0.18	0.020	0					0.23
14.933	0.00	0.18	0.020	0					0.22
14.950	0.00	0.18	0.020	0					0.22
14.967	0.00	0.17	0.020	0					0.22
14.983	0.00	0.17	0.019	0					0.21
15.000	0.00	0.17	0.019	0					0.21
15.017	0.00	0.17	0.019	0					0.21
15.033	0.00	0.17	0.019	0					0.21
15.050	0.00	0.16	0.018	0					0.20
15.067	0.00	0.16	0.018	0					0.20
15.083	0.00	0.16	0.018	0					0.20
15.100	0.00	0.16	0.018	0					0.20
15.117	0.00	0.16	0.018	0					0.19
15.133	0.00	0.15	0.017	0					0.19
15.150	0.00	0.15	0.017	0					0.19
15.167	0.00	0.15	0.017	0					0.19
15.183	0.00	0.15	0.017	0					0.19
15.200	0.00	0.15	0.016	0					0.18
15.217	0.00	0.14	0.016	0					0.18
15.233	0.00	0.14	0.016	0					0.18
15.250	0.00	0.14	0.016	0					0.18
15.267	0.00	0.14	0.016	0					0.17
15.283	0.00	0.14	0.015	0					0.17
15.300	0.00	0.14	0.015	0					0.17
15.317	0.00	0.13	0.015	0					0.17
15.333	0.00	0.13	0.015	0					0.17
15.350	0.00	0.13	0.015	0					0.16
15.367	0.00	0.13	0.015	0					0.16
15.383	0.00	0.13	0.014	0					0.16

15.400	0.00	0.13	0.014	0					0.16
15.417	0.00	0.12	0.014	0					0.16
15.433	0.00	0.12	0.014	0					0.15
15.450	0.00	0.12	0.014	0					0.15
15.467	0.00	0.12	0.014	0					0.15
15.483	0.00	0.12	0.013	0					0.15
15.500	0.00	0.12	0.013	0					0.15
15.517	0.00	0.12	0.013	0					0.14
15.533	0.00	0.11	0.013	0					0.14
15.550	0.00	0.11	0.013	0					0.14
15.567	0.00	0.11	0.013	0					0.14
15.583	0.00	0.11	0.012	0					0.14
15.600	0.00	0.11	0.012	0					0.14
15.617	0.00	0.11	0.012	0					0.13
15.633	0.00	0.11	0.012	0					0.13
15.650	0.00	0.11	0.012	0					0.13
15.667	0.00	0.10	0.012	0					0.13
15.683	0.00	0.10	0.012	0					0.13
15.700	0.00	0.10	0.011	0					0.13
15.717	0.00	0.10	0.011	0					0.13
15.733	0.00	0.10	0.011	0					0.12
15.750	0.00	0.10	0.011	0					0.12
15.767	0.00	0.10	0.011	0					0.12
15.783	0.00	0.10	0.011	0					0.12
15.800	0.00	0.09	0.011	0					0.12
15.817	0.00	0.09	0.010	0					0.12
15.833	0.00	0.09	0.010	0					0.11
15.850	0.00	0.09	0.010	0					0.11
15.867	0.00	0.09	0.010	0					0.11
15.883	0.00	0.09	0.010	0					0.11
15.900	0.00	0.09	0.010	0					0.11
15.917	0.00	0.09	0.010	0					0.11
15.933	0.00	0.09	0.010	0					0.11
15.950	0.00	0.08	0.009	0					0.11
15.967	0.00	0.08	0.009	0					0.10
15.983	0.00	0.08	0.009	0					0.10
16.000	0.00	0.08	0.009	0					0.10
16.017	0.00	0.08	0.009	0					0.10
16.033	0.00	0.08	0.009	0					0.10
16.050	0.00	0.08	0.009	0					0.10
16.067	0.00	0.08	0.009	0					0.10
16.083	0.00	0.08	0.009	0					0.10
16.100	0.00	0.08	0.008	0					0.09
16.117	0.00	0.07	0.008	0					0.09
16.133	0.00	0.07	0.008	0					0.09
16.150	0.00	0.07	0.008	0					0.09
16.167	0.00	0.07	0.008	0					0.09
16.183	0.00	0.07	0.008	0					0.09
16.200	0.00	0.07	0.008	0					0.09
16.217	0.00	0.07	0.008	0					0.09
16.233	0.00	0.07	0.008	0					0.09
16.250	0.00	0.07	0.008	0					0.08
16.267	0.00	0.07	0.008	0					0.08
16.283	0.00	0.07	0.007	0					0.08
16.300	0.00	0.07	0.007	0					0.08
16.317	0.00	0.06	0.007	0					0.08
16.333	0.00	0.06	0.007	0					0.08
16.350	0.00	0.06	0.007	0					0.08
16.367	0.00	0.06	0.007	0					0.08
16.383	0.00	0.06	0.007	0					0.08
16.400	0.00	0.06	0.007	0					0.08
16.417	0.00	0.06	0.007	0					0.07
16.433	0.00	0.06	0.007	0					0.07
16.450	0.00	0.06	0.007	0					0.07
16.467	0.00	0.06	0.006	0					0.07
16.483	0.00	0.06	0.006	0					0.07
16.500	0.00	0.06	0.006	0					0.07
16.517	0.00	0.06	0.006	0					0.07
16.533	0.00	0.05	0.006	0					0.07
16.550	0.00	0.05	0.006	0					0.07
16.567	0.00	0.05	0.006	0					0.07

21.317	0.00	0.00	0.000	0					0.00
21.333	0.00	0.00	0.000	0					0.00
21.350	0.00	0.00	0.000	0					0.00
21.367	0.00	0.00	0.000	0					0.00
21.383	0.00	0.00	0.000	0					0.00
21.400	0.00	0.00	0.000	0					0.00
21.417	0.00	0.00	0.000	0					0.00
21.433	0.00	0.00	0.000	0					0.00
21.450	0.00	0.00	0.000	0					0.00
21.467	0.00	0.00	0.000	0					0.00
21.483	0.00	0.00	0.000	0					0.00
21.500	0.00	0.00	0.000	0					0.00
21.517	0.00	0.00	0.000	0					0.00
21.533	0.00	0.00	0.000	0					0.00
21.550	0.00	0.00	0.000	0					0.00
21.567	0.00	0.00	0.000	0					0.00
21.583	0.00	0.00	0.000	0					0.00
21.600	0.00	0.00	0.000	0					0.00
21.617	0.00	0.00	0.000	0					0.00
21.633	0.00	0.00	0.000	0					0.00
21.650	0.00	0.00	0.000	0					0.00
21.667	0.00	0.00	0.000	0					0.00
21.683	0.00	0.00	0.000	0					0.00
21.700	0.00	0.00	0.000	0					0.00
21.717	0.00	0.00	0.000	0					0.00
21.733	0.00	0.00	0.000	0					0.00
21.750	0.00	0.00	0.000	0					0.00
21.767	0.00	0.00	0.000	0					0.00
21.783	0.00	0.00	0.000	0					0.00
21.800	0.00	0.00	0.000	0					0.00
21.817	0.00	0.00	0.000	0					0.00
21.833	0.00	0.00	0.000	0					0.00
21.850	0.00	0.00	0.000	0					0.00
21.867	0.00	0.00	0.000	0					0.00
21.883	0.00	0.00	0.000	0					0.00
21.900	0.00	0.00	0.000	0					0.00
21.917	0.00	0.00	0.000	0					0.00
21.933	0.00	0.00	0.000	0					0.00
21.950	0.00	0.00	0.000	0					0.00
21.967	0.00	0.00	0.000	0					0.00
21.983	0.00	0.00	0.000	0					0.00
22.000	0.00	0.00	0.000	0					0.00

*****HYDROGRAPH DATA*****
Number of intervals = 1320
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 14.665 (CFS)
Total volume = 1.875 (Ac.Ft)
Status of hydrographs being held in storage
Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
Peak (CFS) 0.000 0.000 0.000 0.000 0.000
Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/15/24

 Majestic Otay
 Otay Mesa, San Diego County
 Proposed Condition Underground Basin 1
 100160rteundbas1

Program License Serial Number 6490

 ***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratundbas1.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 364
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 75.230 (CFS)
 Total volume = 2.976 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 716.000 to Point/Station 716.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

 Total number of inflow hydrograph intervals = 364
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 0.00 (Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

 Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.420	0.400	1.800	0.399	0.401
2.000	0.700	2.200	0.698	0.702
3.000	1.200	2.800	1.198	1.202
4.000	1.600	3.300	1.598	1.602
5.000	2.000	3.700	1.997	2.003
6.000	2.300	4.100	2.297	2.303
6.500	2.600	4.200	2.597	2.603
8.000	2.800	13.200	2.791	2.809

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

 Time Inflow Outflow Storage Depth

(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	18.8	37.62	56.42	75.23	(Ft.)
0.017	0.58	0.00	0.000	O					0.00
0.033	1.15	0.01	0.002	O					0.01
0.050	1.73	0.02	0.004	O					0.01
0.067	2.30	0.03	0.006	O					0.02
0.083	2.30	0.04	0.009	O					0.03
0.100	2.31	0.06	0.013	O					0.04
0.117	2.31	0.07	0.016	O					0.06
0.133	2.32	0.08	0.019	O					0.07
0.150	2.33	0.10	0.022	O					0.08
0.167	2.33	0.11	0.025	O					0.09
0.183	2.34	0.13	0.028	O					0.10
0.200	2.35	0.14	0.031	OI					0.11
0.217	2.36	0.15	0.034	OI					0.12
0.233	2.36	0.17	0.037	OI					0.13
0.250	2.36	0.18	0.040	OI					0.14
0.267	2.37	0.19	0.043	OI					0.15
0.283	2.38	0.21	0.046	OI					0.16
0.300	2.39	0.22	0.049	OI					0.17
0.317	2.40	0.23	0.052	OI					0.18
0.333	2.41	0.25	0.055	OI					0.20
0.350	2.41	0.26	0.058	OI					0.21
0.367	2.41	0.27	0.061	OI					0.22
0.383	2.42	0.29	0.064	OI					0.23
0.400	2.42	0.30	0.067	OI					0.24
0.417	2.43	0.31	0.070	OI					0.25
0.433	2.44	0.33	0.073	OI					0.26
0.450	2.45	0.34	0.076	OI					0.27
0.467	2.46	0.35	0.078	OI					0.28
0.483	2.47	0.37	0.081	OI					0.29
0.500	2.47	0.38	0.084	OI					0.30
0.517	2.48	0.39	0.087	OI					0.31
0.533	2.48	0.40	0.090	OI					0.32
0.550	2.49	0.42	0.093	OI					0.33
0.567	2.50	0.43	0.096	OI					0.34
0.583	2.51	0.44	0.099	OI					0.35
0.600	2.52	0.46	0.101	OI					0.36
0.617	2.53	0.47	0.104	OI					0.37
0.633	2.53	0.48	0.107	OI					0.38
0.650	2.54	0.49	0.110	OI					0.39
0.667	2.55	0.51	0.113	OI					0.40
0.683	2.56	0.52	0.115	OI					0.41
0.700	2.57	0.53	0.118	OI					0.42
0.717	2.58	0.54	0.121	OI					0.43
0.733	2.59	0.56	0.124	OI					0.44
0.750	2.59	0.57	0.127	OI					0.45
0.767	2.60	0.58	0.129	OI					0.46
0.783	2.61	0.60	0.132	OI					0.47
0.800	2.61	0.61	0.135	OI					0.48
0.817	2.62	0.62	0.138	OI					0.49
0.833	2.64	0.63	0.141	OI					0.50
0.850	2.65	0.64	0.143	OI					0.51
0.867	2.66	0.66	0.146	OI					0.52
0.883	2.66	0.67	0.149	OI					0.53
0.900	2.67	0.68	0.152	OI					0.54
0.917	2.68	0.69	0.154	OI					0.55
0.933	2.68	0.71	0.157	OI					0.56
0.950	2.70	0.72	0.160	OI					0.57
0.967	2.71	0.73	0.162	OI					0.58
0.983	2.72	0.74	0.165	OI					0.59
1.000	2.73	0.76	0.168	OI					0.60
1.017	2.74	0.77	0.171	OI					0.61
1.033	2.75	0.78	0.173	OI					0.62
1.050	2.75	0.79	0.176	OI					0.62
1.067	2.76	0.80	0.179	OI					0.63
1.083	2.77	0.82	0.181	OI					0.64
1.100	2.79	0.83	0.184	OI					0.65
1.117	2.80	0.84	0.187	OI					0.66
1.133	2.81	0.85	0.190	OI					0.67
1.150	2.82	0.86	0.192	OI					0.68
1.167	2.83	0.88	0.195	OI					0.69

1.183	2.83	0.89	0.198	OI					0.70
1.200	2.84	0.90	0.200	OI					0.71
1.217	2.86	0.91	0.203	OI					0.72
1.233	2.87	0.93	0.206	OI					0.73
1.250	2.88	0.94	0.208	OI					0.74
1.267	2.90	0.95	0.211	OI					0.75
1.283	2.91	0.96	0.214	OI					0.76
1.300	2.91	0.97	0.216	OI					0.77
1.317	2.92	0.99	0.219	OI					0.78
1.333	2.93	1.00	0.222	OI					0.79
1.350	2.95	1.01	0.224	OI					0.80
1.367	2.96	1.02	0.227	OI					0.81
1.383	2.98	1.03	0.230	OI					0.82
1.400	2.99	1.05	0.232	OI					0.82
1.417	3.00	1.06	0.235	OI					0.83
1.433	3.01	1.07	0.238	OI					0.84
1.450	3.02	1.08	0.240	OI					0.85
1.467	3.03	1.09	0.243	OI					0.86
1.483	3.04	1.11	0.246	OI					0.87
1.500	3.06	1.12	0.248	OI					0.88
1.517	3.08	1.13	0.251	OI					0.89
1.533	3.09	1.14	0.254	OI					0.90
1.550	3.10	1.15	0.256	OI					0.91
1.567	3.11	1.17	0.259	OI					0.92
1.583	3.12	1.18	0.262	OI					0.93
1.600	3.13	1.19	0.264	OI					0.94
1.617	3.15	1.20	0.267	OI					0.95
1.633	3.17	1.21	0.270	OI					0.96
1.650	3.19	1.23	0.273	OI					0.97
1.667	3.21	1.24	0.275	OI					0.98
1.683	3.22	1.25	0.278	OI					0.99
1.700	3.23	1.26	0.281	OI					1.00
1.717	3.23	1.28	0.283	OI					1.01
1.733	3.24	1.29	0.286	OI					1.02
1.750	3.27	1.30	0.289	OI					1.03
1.767	3.29	1.31	0.291	OI					1.03
1.783	3.31	1.32	0.294	OI					1.04
1.800	3.33	1.34	0.297	OI					1.05
1.817	3.34	1.35	0.300	OI					1.06
1.833	3.35	1.36	0.302	OI					1.07
1.850	3.36	1.37	0.305	OI					1.08
1.867	3.37	1.39	0.308	OI					1.09
1.883	3.39	1.40	0.311	OI					1.10
1.900	3.42	1.41	0.313	OI					1.11
1.917	3.44	1.42	0.316	OI					1.12
1.933	3.46	1.44	0.319	OI					1.13
1.950	3.47	1.45	0.322	OI					1.14
1.967	3.48	1.46	0.325	OI					1.15
1.983	3.50	1.47	0.327	OI					1.16
2.000	3.51	1.49	0.330	OI					1.17
2.017	3.53	1.50	0.333	OI					1.18
2.033	3.56	1.51	0.336	OI					1.19
2.050	3.58	1.52	0.339	OI					1.20
2.067	3.61	1.54	0.341	OI					1.21
2.083	3.62	1.55	0.344	OI					1.22
2.100	3.64	1.56	0.347	OI					1.23
2.117	3.65	1.57	0.350	OI					1.24
2.133	3.66	1.59	0.353	OI					1.25
2.150	3.69	1.60	0.356	OI					1.26
2.167	3.72	1.61	0.359	OI					1.27
2.183	3.75	1.63	0.361	OI					1.28
2.200	3.78	1.64	0.364	OI					1.29
2.217	3.79	1.65	0.367	OI					1.30
2.233	3.81	1.67	0.370	OI					1.31
2.250	3.82	1.68	0.373	OI					1.33
2.267	3.84	1.69	0.376	OI					1.34
2.283	3.87	1.71	0.379	OI					1.35
2.300	3.90	1.72	0.382	OI					1.36
2.317	3.93	1.73	0.385	OI					1.37
2.333	3.96	1.75	0.388	OI					1.38
2.350	3.98	1.76	0.391	OI					1.39

2.367	4.00	1.77	0.394	OI					1.40
2.383	4.01	1.79	0.397	OI					1.41
2.400	4.03	1.80	0.400	OI					1.42
2.417	4.07	1.80	0.404	OI					1.43
2.433	4.10	1.81	0.407	OI					1.43
2.450	4.14	1.81	0.410	OI					1.44
2.467	4.18	1.82	0.413	OI					1.45
2.483	4.20	1.82	0.416	OI					1.45
2.500	4.22	1.83	0.420	OI					1.46
2.517	4.23	1.83	0.423	OI					1.46
2.533	4.25	1.84	0.426	OI					1.47
2.550	4.30	1.84	0.430	OI					1.48
2.567	4.34	1.84	0.433	OI					1.48
2.583	4.38	1.85	0.436	OI					1.49
2.600	4.42	1.85	0.440	OI					1.50
2.617	4.44	1.86	0.444	OI					1.50
2.633	4.47	1.86	0.447	OI					1.51
2.650	4.49	1.87	0.451	OI					1.52
2.667	4.51	1.87	0.454	OI					1.53
2.683	4.56	1.88	0.458	OI					1.53
2.700	4.61	1.88	0.462	OI					1.54
2.717	4.66	1.89	0.466	OI					1.55
2.733	4.71	1.89	0.469	O I					1.55
2.750	4.73	1.90	0.473	O I					1.56
2.767	4.76	1.90	0.477	O I					1.57
2.783	4.79	1.91	0.481	O I					1.58
2.800	4.81	1.91	0.485	O I					1.58
2.817	4.87	1.92	0.489	O I					1.59
2.833	4.93	1.92	0.493	O I					1.60
2.850	4.99	1.93	0.497	O I					1.61
2.867	5.04	1.94	0.502	O I					1.62
2.883	5.07	1.94	0.506	O I					1.62
2.900	5.11	1.95	0.510	O I					1.63
2.917	5.14	1.95	0.515	O I					1.64
2.933	5.17	1.96	0.519	O I					1.65
2.950	5.24	1.96	0.524	O I					1.66
2.967	5.31	1.97	0.528	O I					1.67
2.983	5.38	1.98	0.533	O I					1.68
3.000	5.45	1.98	0.537	O I					1.69
3.017	5.49	1.99	0.542	O I					1.69
3.033	5.53	2.00	0.547	O I					1.70
3.050	5.57	2.00	0.552	O I					1.71
3.067	5.60	2.01	0.557	O I					1.72
3.083	5.69	2.02	0.562	O I					1.73
3.100	5.78	2.02	0.567	O I					1.74
3.117	5.86	2.03	0.572	O I					1.75
3.133	5.95	2.04	0.578	O I					1.76
3.150	6.00	2.04	0.583	O I					1.77
3.167	6.05	2.05	0.588	O I					1.78
3.183	6.10	2.06	0.594	O I					1.80
3.200	6.15	2.07	0.600	O I					1.81
3.217	6.26	2.07	0.605	O I					1.82
3.233	6.37	2.08	0.611	O I					1.83
3.250	6.48	2.09	0.617	O I					1.84
3.267	6.59	2.10	0.623	O I					1.85
3.283	6.66	2.11	0.629	O I					1.86
3.300	6.72	2.11	0.636	O I					1.88
3.317	6.78	2.12	0.642	O I					1.89
3.333	6.85	2.13	0.649	O I					1.90
3.350	7.00	2.14	0.655	O I					1.91
3.367	7.14	2.15	0.662	O I					1.93
3.383	7.29	2.16	0.669	O I					1.94
3.400	7.44	2.17	0.676	O I					1.95
3.417	7.53	2.18	0.683	O I					1.97
3.433	7.62	2.19	0.691	O I					1.98
3.450	7.71	2.20	0.698	O I					2.00
3.467	7.79	2.21	0.706	O I					2.01
3.483	8.01	2.22	0.714	O I					2.03
3.500	8.22	2.23	0.722	O I					2.04
3.517	8.43	2.24	0.730	O I					2.06
3.533	8.64	2.25	0.739	O I					2.08

3.550	8.77	2.26	0.748	O	I					2.10
3.567	8.90	2.27	0.757	O	I					2.11
3.583	9.04	2.28	0.766	O	I					2.13
3.600	9.17	2.29	0.776	O	I					2.15
3.617	9.50	2.30	0.785	O	I					2.17
3.633	9.84	2.31	0.795	O	I					2.19
3.650	10.17	2.33	0.806	O	I					2.21
3.667	10.51	2.34	0.817	O	I					2.23
3.683	10.73	2.35	0.828	IO	I					2.26
3.700	10.95	2.37	0.840	IO	I					2.28
3.717	11.17	2.38	0.852	IO	I					2.30
3.733	11.39	2.40	0.864	IO	I					2.33
3.750	12.02	2.41	0.877	IO	I					2.35
3.767	12.66	2.43	0.891	IO	I					2.38
3.783	13.29	2.45	0.905	IO	I					2.41
3.800	13.92	2.46	0.921	IO	I					2.44
3.817	14.41	2.48	0.937	IO	I					2.47
3.833	14.89	2.50	0.954	IO	I					2.51
3.850	15.38	2.53	0.971	IO	I					2.54
3.867	15.86	2.55	0.989	IO	I					2.58
3.883	17.72	2.57	1.009	IO	I					2.62
3.900	19.57	2.60	1.031	IO	I					2.66
3.917	21.43	2.63	1.055	IO	I					2.71
3.933	23.29	2.66	1.082	IO	I					2.76
3.950	25.67	2.69	1.112	IO	I					2.82
3.967	28.05	2.73	1.146	IO	I					2.89
3.983	30.43	2.78	1.182	IO	I					2.96
4.000	32.81	2.83	1.222	IO	I					3.05
4.017	43.42	2.89	1.270	IO	I		I			3.18
4.033	54.02	2.97	1.334	IO	I		I			3.33
4.050	64.63	3.06	1.411	IO	I		I		I	3.53
4.067	75.23	3.18	1.503	IO	I		I		I	3.76
4.083	61.09	3.29	1.593	IO	I		I		I	3.98
4.100	46.95	3.36	1.662	IO	I		I		I	4.16
4.117	32.82	3.41	1.713	IO	I		I		I	4.28
4.133	18.68	3.44	1.743	IO	I		I		I	4.36
4.150	17.13	3.46	1.763	IO	I		I		I	4.41
4.167	15.59	3.48	1.781	IO	I		I		I	4.45
4.183	14.04	3.50	1.797	IO	I		I		I	4.49
4.200	12.50	3.51	1.810	IO	I		I		I	4.53
4.217	11.82	3.52	1.822	IO	I		I		I	4.56
4.233	11.14	3.53	1.833	IO	I		I		I	4.58
4.250	10.46	3.54	1.843	IO	I		I		I	4.61
4.267	9.78	3.55	1.852	IO	I		I		I	4.63
4.283	9.38	3.56	1.860	IO	I		I		I	4.65
4.300	8.98	3.57	1.868	IO	I		I		I	4.67
4.317	8.59	3.58	1.875	IO	I		I		I	4.69
4.333	8.19	3.58	1.882	IO	I		I		I	4.70
4.350	7.92	3.59	1.888	IO	I		I		I	4.72
4.367	7.66	3.59	1.894	IO	I		I		I	4.73
4.383	7.39	3.60	1.899	IO	I		I		I	4.75
4.400	7.13	3.60	1.904	IO	I		I		I	4.76
4.417	6.94	3.61	1.909	IO	I		I		I	4.77
4.433	6.74	3.61	1.913	IO	I		I		I	4.78
4.450	6.55	3.62	1.918	IO	I		I		I	4.79
4.467	6.36	3.62	1.921	IO	I		I		I	4.80
4.483	6.21	3.63	1.925	IO	I		I		I	4.81
4.500	6.07	3.63	1.929	IO	I		I		I	4.82
4.517	5.92	3.63	1.932	IO	I		I		I	4.83
4.533	5.77	3.63	1.935	IO	I		I		I	4.84
4.550	5.65	3.64	1.938	IO	I		I		I	4.84
4.567	5.54	3.64	1.940	IO	I		I		I	4.85
4.583	5.42	3.64	1.943	IO	I		I		I	4.86
4.600	5.31	3.65	1.945	IO	I		I		I	4.86
4.617	5.21	3.65	1.948	IO	I		I		I	4.87
4.633	5.11	3.65	1.950	IO	I		I		I	4.87
4.650	5.02	3.65	1.952	IO	I		I		I	4.88
4.667	4.92	3.65	1.953	IO	I		I		I	4.88
4.683	4.84	3.66	1.955	IO	I		I		I	4.89
4.700	4.76	3.66	1.957	IO	I		I		I	4.89
4.717	4.69	3.66	1.958	IO	I		I		I	4.90

4.733	4.61	3.66	1.960	0					4.90
4.750	4.54	3.66	1.961	0					4.90
4.767	4.47	3.66	1.962	0					4.90
4.783	4.40	3.66	1.963	0					4.91
4.800	4.34	3.66	1.964	0					4.91
4.817	4.28	3.66	1.965	0					4.91
4.833	4.22	3.67	1.966	0					4.91
4.850	4.16	3.67	1.966	0					4.92
4.867	4.10	3.67	1.967	0					4.92
4.883	4.05	3.67	1.968	0					4.92
4.900	4.00	3.67	1.968	0					4.92
4.917	3.95	3.67	1.969	0					4.92
4.933	3.90	3.67	1.969	0					4.92
4.950	3.85	3.67	1.969	0					4.92
4.967	3.81	3.67	1.969	0					4.92
4.983	3.76	3.67	1.970	0					4.92
5.000	3.72	3.67	1.970	0					4.92
5.017	3.68	3.67	1.970	0					4.92
5.033	3.64	3.67	1.970	0					4.92
5.050	3.60	3.67	1.970	0					4.92
5.067	3.56	3.67	1.969	0					4.92
5.083	3.52	3.67	1.969	0					4.92
5.100	3.49	3.67	1.969	0					4.92
5.117	3.45	3.67	1.969	0					4.92
5.133	3.41	3.67	1.968	0					4.92
5.150	3.38	3.67	1.968	0					4.92
5.167	3.35	3.67	1.968	0					4.92
5.183	3.32	3.67	1.967	0					4.92
5.200	3.29	3.67	1.967	0					4.92
5.217	3.26	3.67	1.966	0					4.92
5.233	3.23	3.67	1.966	0					4.91
5.250	3.20	3.66	1.965	0					4.91
5.267	3.17	3.66	1.964	0					4.91
5.283	3.14	3.66	1.964	0					4.91
5.300	3.11	3.66	1.963	0					4.91
5.317	3.09	3.66	1.962	0					4.91
5.333	3.06	3.66	1.961	0					4.90
5.350	3.04	3.66	1.960	0					4.90
5.367	3.01	3.66	1.960	0					4.90
5.383	2.99	3.66	1.959	0					4.90
5.400	2.96	3.66	1.958	0					4.89
5.417	2.94	3.66	1.957	0					4.89
5.433	2.92	3.66	1.956	0					4.89
5.450	2.89	3.65	1.955	0					4.89
5.467	2.87	3.65	1.954	0					4.88
5.483	2.85	3.65	1.953	0					4.88
5.500	2.83	3.65	1.951	0					4.88
5.517	2.81	3.65	1.950	0					4.88
5.533	2.79	3.65	1.949	0					4.87
5.550	2.77	3.65	1.948	0					4.87
5.567	2.75	3.65	1.947	0					4.87
5.583	2.73	3.65	1.945	0					4.86
5.600	2.71	3.64	1.944	0					4.86
5.617	2.69	3.64	1.943	0					4.86
5.633	2.67	3.64	1.942	0					4.85
5.650	2.65	3.64	1.940	0					4.85
5.667	2.63	3.64	1.939	0					4.85
5.683	2.62	3.64	1.937	0					4.84
5.700	2.60	3.64	1.936	0					4.84
5.717	2.58	3.63	1.935	0					4.84
5.733	2.57	3.63	1.933	0					4.83
5.750	2.55	3.63	1.932	0					4.83
5.767	2.53	3.63	1.930	0					4.83
5.783	2.52	3.63	1.929	0					4.82
5.800	2.50	3.63	1.927	0					4.82
5.817	2.49	3.63	1.925	0					4.81
5.833	2.47	3.62	1.924	0					4.81
5.850	2.46	3.62	1.922	0					4.81
5.867	2.44	3.62	1.921	0					4.80
5.883	2.43	3.62	1.919	0					4.80
5.900	2.42	3.62	1.917	0					4.79

5.917	2.40	3.62	1.916	IO					4.79
5.933	2.39	3.61	1.914	IO					4.79
5.950	2.37	3.61	1.912	IO					4.78
5.967	2.36	3.61	1.911	IO					4.78
5.983	2.35	3.61	1.909	IO					4.77
6.000	2.33	3.61	1.907	IO					4.77
6.017	2.32	3.61	1.905	IO					4.76
6.033	2.31	3.60	1.904	IO					4.76
6.050	2.30	3.60	1.902	IO					4.75
6.067	2.28	3.60	1.900	IO					4.75
6.083	0.00	3.60	1.897	IO					4.74
6.100	0.00	3.59	1.892	IO					4.73
6.117	0.00	3.59	1.887	IO					4.72
6.133	0.00	3.58	1.882	IO					4.70
6.150	0.00	3.58	1.877	IO					4.69
6.167	0.00	3.57	1.872	IO					4.68
6.183	0.00	3.57	1.867	IO					4.67
6.200	0.00	3.56	1.862	IO					4.66
6.217	0.00	3.56	1.857	IO					4.64
6.233	0.00	3.55	1.852	IO					4.63
6.250	0.00	3.55	1.847	IO					4.62
6.267	0.00	3.54	1.843	IO					4.61
6.283	0.00	3.54	1.838	IO					4.59
6.300	0.00	3.53	1.833	IO					4.58
6.317	0.00	3.53	1.828	IO					4.57
6.333	0.00	3.52	1.823	IO					4.56
6.350	0.00	3.52	1.818	IO					4.55
6.367	0.00	3.51	1.813	IO					4.53
6.383	0.00	3.51	1.809	IO					4.52
6.400	0.00	3.50	1.804	IO					4.51
6.417	0.00	3.50	1.799	IO					4.50
6.433	0.00	3.49	1.794	IO					4.49
6.450	0.00	3.49	1.789	IO					4.47
6.467	0.00	3.48	1.785	IO					4.46
6.483	0.00	3.48	1.780	IO					4.45
6.500	0.00	3.47	1.775	IO					4.44
6.517	0.00	3.47	1.770	IO					4.43
6.533	0.00	3.47	1.765	IO					4.41
6.550	0.00	3.46	1.761	IO					4.40
6.567	0.00	3.46	1.756	IO					4.39
6.583	0.00	3.45	1.751	IO					4.38
6.600	0.00	3.45	1.746	IO					4.37
6.617	0.00	3.44	1.742	IO					4.35
6.633	0.00	3.44	1.737	IO					4.34
6.650	0.00	3.43	1.732	IO					4.33
6.667	0.00	3.43	1.727	IO					4.32
6.683	0.00	3.42	1.723	IO					4.31
6.700	0.00	3.42	1.718	IO					4.29
6.717	0.00	3.41	1.713	IO					4.28
6.733	0.00	3.41	1.709	IO					4.27
6.750	0.00	3.40	1.704	IO					4.26
6.767	0.00	3.40	1.699	IO					4.25
6.783	0.00	3.39	1.695	IO					4.24
6.800	0.00	3.39	1.690	IO					4.22
6.817	0.00	3.39	1.685	IO					4.21
6.833	0.00	3.38	1.681	IO					4.20
6.850	0.00	3.38	1.676	IO					4.19
6.867	0.00	3.37	1.671	IO					4.18
6.883	0.00	3.37	1.667	IO					4.17
6.900	0.00	3.36	1.662	IO					4.15
6.917	0.00	3.36	1.657	IO					4.14
6.933	0.00	3.35	1.653	IO					4.13
6.950	0.00	3.35	1.648	IO					4.12
6.967	0.00	3.34	1.643	IO					4.11
6.983	0.00	3.34	1.639	IO					4.10
7.000	0.00	3.33	1.634	IO					4.09
7.017	0.00	3.33	1.630	IO					4.07
7.033	0.00	3.33	1.625	IO					4.06
7.050	0.00	3.32	1.621	IO					4.05
7.067	0.00	3.32	1.616	IO					4.04
7.083	0.00	3.31	1.611	IO					4.03

7.100	0.00	3.31	1.607	IO					4.02
7.117	0.00	3.30	1.602	IO					4.01
7.133	0.00	3.30	1.598	IO					3.99
7.150	0.00	3.29	1.593	IO					3.98
7.167	0.00	3.29	1.589	IO					3.97
7.183	0.00	3.28	1.584	IO					3.96
7.200	0.00	3.27	1.580	IO					3.95
7.217	0.00	3.27	1.575	IO					3.94
7.233	0.00	3.26	1.571	IO					3.93
7.250	0.00	3.26	1.566	IO					3.92
7.267	0.00	3.25	1.562	IO					3.90
7.283	0.00	3.25	1.557	IO					3.89
7.300	0.00	3.24	1.553	IO					3.88
7.317	0.00	3.24	1.548	IO					3.87
7.333	0.00	3.23	1.544	IO					3.86
7.350	0.00	3.22	1.539	IO					3.85
7.367	0.00	3.22	1.535	IO					3.84
7.383	0.00	3.21	1.530	IO					3.83
7.400	0.00	3.21	1.526	IO					3.82
7.417	0.00	3.20	1.522	IO					3.80
7.433	0.00	3.20	1.517	IO					3.79
7.450	0.00	3.19	1.513	IO					3.78
7.467	0.00	3.19	1.508	IO					3.77
7.483	0.00	3.18	1.504	IO					3.76
7.500	0.00	3.17	1.500	IO					3.75
7.517	0.00	3.17	1.495	IO					3.74
7.533	0.00	3.16	1.491	IO					3.73
7.550	0.00	3.16	1.487	IO					3.72
7.567	0.00	3.15	1.482	IO					3.71
7.583	0.00	3.15	1.478	IO					3.69
7.600	0.00	3.14	1.474	IO					3.68
7.617	0.00	3.14	1.469	IO					3.67
7.633	0.00	3.13	1.465	IO					3.66
7.650	0.00	3.13	1.461	IO					3.65
7.667	0.00	3.12	1.456	IO					3.64
7.683	0.00	3.12	1.452	IO					3.63
7.700	0.00	3.11	1.448	IO					3.62
7.717	0.00	3.10	1.443	IO					3.61
7.733	0.00	3.10	1.439	IO					3.60
7.750	0.00	3.09	1.435	IO					3.59
7.767	0.00	3.09	1.431	IO					3.58
7.783	0.00	3.08	1.426	IO					3.57
7.800	0.00	3.08	1.422	IO					3.56
7.817	0.00	3.07	1.418	IO					3.54
7.833	0.00	3.07	1.414	IO					3.53
7.850	0.00	3.06	1.409	IO					3.52
7.867	0.00	3.06	1.405	IO					3.51
7.883	0.00	3.05	1.401	IO					3.50
7.900	0.00	3.05	1.397	IO					3.49
7.917	0.00	3.04	1.393	IO					3.48
7.933	0.00	3.04	1.388	IO					3.47
7.950	0.00	3.03	1.384	IO					3.46
7.967	0.00	3.03	1.380	IO					3.45
7.983	0.00	3.02	1.376	IO					3.44
8.000	0.00	3.01	1.372	IO					3.43
8.017	0.00	3.01	1.368	IO					3.42
8.033	0.00	3.00	1.364	IO					3.41
8.050	0.00	3.00	1.359	IO					3.40
8.067	0.00	2.99	1.355	IO					3.39
8.083	0.00	2.99	1.351	IO					3.38
8.100	0.00	2.98	1.347	IO					3.37
8.117	0.00	2.98	1.343	IO					3.36
8.133	0.00	2.97	1.339	IO					3.35
8.150	0.00	2.97	1.335	IO					3.34
8.167	0.00	2.96	1.331	IO					3.33
8.183	0.00	2.96	1.327	IO					3.32
8.200	0.00	2.95	1.323	IO					3.31
8.217	0.00	2.95	1.318	IO					3.30
8.233	0.00	2.94	1.314	IO					3.29
8.250	0.00	2.94	1.310	IO					3.28
8.267	0.00	2.93	1.306	IO					3.27

8.283	0.00	2.93	1.302	IO					3.26
8.300	0.00	2.92	1.298	IO					3.25
8.317	0.00	2.92	1.294	IO					3.24
8.333	0.00	2.91	1.290	IO					3.23
8.350	0.00	2.91	1.286	IO					3.22
8.367	0.00	2.90	1.282	IO					3.21
8.383	0.00	2.90	1.278	IO					3.20
8.400	0.00	2.89	1.274	IO					3.19
8.417	0.00	2.89	1.270	IO					3.18
8.433	0.00	2.88	1.266	IO					3.17
8.450	0.00	2.88	1.262	IO					3.16
8.467	0.00	2.87	1.258	IO					3.15
8.483	0.00	2.87	1.254	IO					3.14
8.500	0.00	2.86	1.250	IO					3.13
8.517	0.00	2.86	1.246	IO					3.12
8.533	0.00	2.85	1.243	IO					3.11
8.550	0.00	2.85	1.239	IO					3.10
8.567	0.00	2.84	1.235	IO					3.09
8.583	0.00	2.84	1.231	IO					3.08
8.600	0.00	2.83	1.227	IO					3.07
8.617	0.00	2.83	1.223	IO					3.06
8.633	0.00	2.82	1.219	IO					3.05
8.650	0.00	2.82	1.215	IO					3.04
8.667	0.00	2.81	1.211	IO					3.03
8.683	0.00	2.81	1.207	IO					3.02
8.700	0.00	2.80	1.204	IO					3.01
8.717	0.00	2.80	1.200	IO					3.00
8.733	0.00	2.80	1.196	IO					2.99
8.750	0.00	2.79	1.192	IO					2.98
8.767	0.00	2.79	1.188	IO					2.98
8.783	0.00	2.78	1.184	IO					2.97
8.800	0.00	2.78	1.181	IO					2.96
8.817	0.00	2.77	1.177	IO					2.95
8.833	0.00	2.77	1.173	IO					2.95
8.850	0.00	2.76	1.169	IO					2.94
8.867	0.00	2.76	1.165	IO					2.93
8.883	0.00	2.75	1.161	IO					2.92
8.900	0.00	2.75	1.158	IO					2.92
8.917	0.00	2.74	1.154	IO					2.91
8.933	0.00	2.74	1.150	IO					2.90
8.950	0.00	2.74	1.146	IO					2.89
8.967	0.00	2.73	1.143	IO					2.89
8.983	0.00	2.73	1.139	IO					2.88
9.000	0.00	2.72	1.135	IO					2.87
9.017	0.00	2.72	1.131	IO					2.86
9.033	0.00	2.71	1.128	IO					2.86
9.050	0.00	2.71	1.124	IO					2.85
9.067	0.00	2.70	1.120	IO					2.84
9.083	0.00	2.70	1.116	IO					2.83
9.100	0.00	2.70	1.113	IO					2.83
9.117	0.00	2.69	1.109	IO					2.82
9.133	0.00	2.69	1.105	IO					2.81
9.150	0.00	2.68	1.102	IO					2.80
9.167	0.00	2.68	1.098	IO					2.80
9.183	0.00	2.67	1.094	IO					2.79
9.200	0.00	2.67	1.091	IO					2.78
9.217	0.00	2.66	1.087	IO					2.77
9.233	0.00	2.66	1.083	IO					2.77
9.250	0.00	2.66	1.080	IO					2.76
9.267	0.00	2.65	1.076	IO					2.75
9.283	0.00	2.65	1.072	IO					2.74
9.300	0.00	2.64	1.069	IO					2.74
9.317	0.00	2.64	1.065	IO					2.73
9.333	0.00	2.63	1.061	IO					2.72
9.350	0.00	2.63	1.058	IO					2.72
9.367	0.00	2.62	1.054	IO					2.71
9.383	0.00	2.62	1.050	IO					2.70
9.400	0.00	2.62	1.047	IO					2.69
9.417	0.00	2.61	1.043	IO					2.69
9.433	0.00	2.61	1.040	IO					2.68
9.450	0.00	2.60	1.036	IO					2.67

9.467	0.00	2.60	1.032	IO					2.66
9.483	0.00	2.59	1.029	IO					2.66
9.500	0.00	2.59	1.025	IO					2.65
9.517	0.00	2.59	1.022	IO					2.64
9.533	0.00	2.58	1.018	IO					2.64
9.550	0.00	2.58	1.015	IO					2.63
9.567	0.00	2.57	1.011	IO					2.62
9.583	0.00	2.57	1.008	IO					2.62
9.600	0.00	2.56	1.004	IO					2.61
9.617	0.00	2.56	1.001	IO					2.60
9.633	0.00	2.56	0.997	IO					2.59
9.650	0.00	2.55	0.993	IO					2.59
9.667	0.00	2.55	0.990	IO					2.58
9.683	0.00	2.54	0.986	IO					2.57
9.700	0.00	2.54	0.983	IO					2.57
9.717	0.00	2.54	0.979	IO					2.56
9.733	0.00	2.53	0.976	IO					2.55
9.750	0.00	2.53	0.972	IO					2.54
9.767	0.00	2.52	0.969	IO					2.54
9.783	0.00	2.52	0.966	IO					2.53
9.800	0.00	2.51	0.962	IO					2.52
9.817	0.00	2.51	0.959	IO					2.52
9.833	0.00	2.51	0.955	IO					2.51
9.850	0.00	2.50	0.952	IO					2.50
9.867	0.00	2.50	0.948	IO					2.50
9.883	0.00	2.49	0.945	IO					2.49
9.900	0.00	2.49	0.941	IO					2.48
9.917	0.00	2.49	0.938	IO					2.48
9.933	0.00	2.48	0.935	IO					2.47
9.950	0.00	2.48	0.931	IO					2.46
9.967	0.00	2.47	0.928	IO					2.46
9.983	0.00	2.47	0.924	IO					2.45
10.000	0.00	2.47	0.921	IO					2.44
10.017	0.00	2.46	0.918	IO					2.44
10.033	0.00	2.46	0.914	IO					2.43
10.050	0.00	2.45	0.911	IO					2.42
10.067	0.00	2.45	0.907	IO					2.41
10.083	0.00	2.44	0.904	IO					2.41
10.100	0.00	2.44	0.901	IO					2.40
10.117	0.00	2.44	0.897	IO					2.39
10.133	0.00	2.43	0.894	IO					2.39
10.150	0.00	2.43	0.891	IO					2.38
10.167	0.00	2.42	0.887	IO					2.37
10.183	0.00	2.42	0.884	IO					2.37
10.200	0.00	2.42	0.881	IO					2.36
10.217	0.00	2.41	0.877	IO					2.35
10.233	0.00	2.41	0.874	IO					2.35
10.250	0.00	2.40	0.871	IO					2.34
10.267	0.00	2.40	0.867	IO					2.33
10.283	0.00	2.40	0.864	IO					2.33
10.300	0.00	2.39	0.861	IO					2.32
10.317	0.00	2.39	0.857	IO					2.31
10.333	0.00	2.38	0.854	IO					2.31
10.350	0.00	2.38	0.851	IO					2.30
10.367	0.00	2.38	0.848	IO					2.30
10.383	0.00	2.37	0.844	IO					2.29
10.400	0.00	2.37	0.841	IO					2.28
10.417	0.00	2.37	0.838	IO					2.28
10.433	0.00	2.36	0.834	IO					2.27
10.450	0.00	2.36	0.831	IO					2.26
10.467	0.00	2.35	0.828	IO					2.26
10.483	0.00	2.35	0.825	O					2.25
10.500	0.00	2.35	0.822	O					2.24
10.517	0.00	2.34	0.818	O					2.24
10.533	0.00	2.34	0.815	O					2.23
10.550	0.00	2.33	0.812	O					2.22
10.567	0.00	2.33	0.809	O					2.22
10.583	0.00	2.33	0.805	O					2.21
10.600	0.00	2.32	0.802	O					2.20
10.617	0.00	2.32	0.799	O					2.20
10.633	0.00	2.32	0.796	O					2.19

10.650	0.00	2.31	0.793	0					2.19
10.667	0.00	2.31	0.789	0					2.18
10.683	0.00	2.30	0.786	0					2.17
10.700	0.00	2.30	0.783	0					2.17
10.717	0.00	2.30	0.780	0					2.16
10.733	0.00	2.29	0.777	0					2.15
10.750	0.00	2.29	0.774	0					2.15
10.767	0.00	2.28	0.771	0					2.14
10.783	0.00	2.28	0.767	0					2.13
10.800	0.00	2.28	0.764	0					2.13
10.817	0.00	2.27	0.761	0					2.12
10.833	0.00	2.27	0.758	0					2.12
10.850	0.00	2.27	0.755	0					2.11
10.867	0.00	2.26	0.752	0					2.10
10.883	0.00	2.26	0.749	0					2.10
10.900	0.00	2.25	0.745	0					2.09
10.917	0.00	2.25	0.742	0					2.08
10.933	0.00	2.25	0.739	0					2.08
10.950	0.00	2.24	0.736	0					2.07
10.967	0.00	2.24	0.733	0					2.07
10.983	0.00	2.24	0.730	0					2.06
11.000	0.00	2.23	0.727	0					2.05
11.017	0.00	2.23	0.724	0					2.05
11.033	0.00	2.22	0.721	0					2.04
11.050	0.00	2.22	0.718	0					2.04
11.067	0.00	2.22	0.715	0					2.03
11.083	0.00	2.21	0.712	0					2.02
11.100	0.00	2.21	0.709	0					2.02
11.117	0.00	2.21	0.706	0					2.01
11.133	0.00	2.20	0.703	0					2.01
11.150	0.00	2.20	0.699	0					2.00
11.167	0.00	2.20	0.696	0					1.99
11.183	0.00	2.19	0.693	0					1.99
11.200	0.00	2.19	0.690	0					1.98
11.217	0.00	2.18	0.687	0					1.98
11.233	0.00	2.18	0.684	0					1.97
11.250	0.00	2.18	0.681	0					1.96
11.267	0.00	2.17	0.678	0					1.96
11.283	0.00	2.17	0.675	0					1.95
11.300	0.00	2.16	0.672	0					1.95
11.317	0.00	2.16	0.669	0					1.94
11.333	0.00	2.16	0.666	0					1.94
11.350	0.00	2.15	0.664	0					1.93
11.367	0.00	2.15	0.661	0					1.92
11.383	0.00	2.14	0.658	0					1.92
11.400	0.00	2.14	0.655	0					1.91
11.417	0.00	2.14	0.652	0					1.91
11.433	0.00	2.13	0.649	0					1.90
11.450	0.00	2.13	0.646	0					1.90
11.467	0.00	2.12	0.643	0					1.89
11.483	0.00	2.12	0.640	0					1.88
11.500	0.00	2.12	0.637	0					1.88
11.517	0.00	2.11	0.634	0					1.87
11.533	0.00	2.11	0.631	0					1.87
11.550	0.00	2.10	0.628	0					1.86
11.567	0.00	2.10	0.625	0					1.86
11.583	0.00	2.10	0.623	0					1.85
11.600	0.00	2.09	0.620	0					1.84
11.617	0.00	2.09	0.617	0					1.84
11.633	0.00	2.09	0.614	0					1.83
11.650	0.00	2.08	0.611	0					1.83
11.667	0.00	2.08	0.608	0					1.82
11.683	0.00	2.07	0.605	0					1.82
11.700	0.00	2.07	0.602	0					1.81
11.717	0.00	2.07	0.600	0					1.81
11.733	0.00	2.06	0.597	0					1.80
11.750	0.00	2.06	0.594	0					1.79
11.767	0.00	2.05	0.591	0					1.79
11.783	0.00	2.05	0.588	0					1.78
11.800	0.00	2.05	0.585	0					1.78
11.817	0.00	2.04	0.583	0					1.77

11.833	0.00	2.04	0.580	0					1.77
11.850	0.00	2.04	0.577	0					1.76
11.867	0.00	2.03	0.574	0					1.76
11.883	0.00	2.03	0.571	0					1.75
11.900	0.00	2.02	0.569	0					1.75
11.917	0.00	2.02	0.566	0					1.74
11.933	0.00	2.02	0.563	0					1.74
11.950	0.00	2.01	0.560	0					1.73
11.967	0.00	2.01	0.558	0					1.72
11.983	0.00	2.01	0.555	0					1.72
12.000	0.00	2.00	0.552	0					1.71
12.017	0.00	2.00	0.549	0					1.71
12.033	0.00	2.00	0.546	0					1.70
12.050	0.00	1.99	0.544	0					1.70
12.067	0.00	1.99	0.541	0					1.69
12.083	0.00	1.98	0.538	0					1.69
12.100	0.00	1.98	0.536	0					1.68
12.117	0.00	1.98	0.533	0					1.68
12.133	0.00	1.97	0.530	0					1.67
12.150	0.00	1.97	0.527	0					1.67
12.167	0.00	1.97	0.525	0					1.66
12.183	0.00	1.96	0.522	0					1.66
12.200	0.00	1.96	0.519	0					1.65
12.217	0.00	1.96	0.517	0					1.65
12.233	0.00	1.95	0.514	0					1.64
12.250	0.00	1.95	0.511	0					1.63
12.267	0.00	1.94	0.509	0					1.63
12.283	0.00	1.94	0.506	0					1.62
12.300	0.00	1.94	0.503	0					1.62
12.317	0.00	1.93	0.500	0					1.61
12.333	0.00	1.93	0.498	0					1.61
12.350	0.00	1.93	0.495	0					1.60
12.367	0.00	1.92	0.493	0					1.60
12.383	0.00	1.92	0.490	0					1.59
12.400	0.00	1.92	0.487	0					1.59
12.417	0.00	1.91	0.485	0					1.58
12.433	0.00	1.91	0.482	0					1.58
12.450	0.00	1.91	0.479	0					1.57
12.467	0.00	1.90	0.477	0					1.57
12.483	0.00	1.90	0.474	0					1.56
12.500	0.00	1.90	0.471	0					1.56
12.517	0.00	1.89	0.469	0					1.55
12.533	0.00	1.89	0.466	0					1.55
12.550	0.00	1.88	0.464	0					1.54
12.567	0.00	1.88	0.461	0					1.54
12.583	0.00	1.88	0.458	0					1.53
12.600	0.00	1.87	0.456	0					1.53
12.617	0.00	1.87	0.453	0					1.52
12.633	0.00	1.87	0.451	0					1.52
12.650	0.00	1.86	0.448	0					1.51
12.667	0.00	1.86	0.446	0					1.51
12.683	0.00	1.86	0.443	0					1.50
12.700	0.00	1.85	0.441	0					1.50
12.717	0.00	1.85	0.438	0					1.49
12.733	0.00	1.85	0.435	0					1.49
12.750	0.00	1.84	0.433	0					1.48
12.767	0.00	1.84	0.430	0					1.48
12.783	0.00	1.84	0.428	0					1.47
12.800	0.00	1.83	0.425	0					1.47
12.817	0.00	1.83	0.423	0					1.46
12.833	0.00	1.83	0.420	0					1.46
12.850	0.00	1.82	0.418	0					1.45
12.867	0.00	1.82	0.415	0					1.45
12.883	0.00	1.82	0.413	0					1.44
12.900	0.00	1.81	0.410	0					1.44
12.917	0.00	1.81	0.408	0					1.43
12.933	0.00	1.81	0.405	0					1.43
12.950	0.00	1.80	0.403	0					1.43
12.967	0.00	1.80	0.400	0					1.42
12.983	0.00	1.79	0.398	0					1.41
13.000	0.00	1.78	0.395	0					1.40

13.017	0.00	1.77	0.393	0					1.39
13.033	0.00	1.76	0.390	0					1.39
13.050	0.00	1.75	0.388	0					1.38
13.067	0.00	1.74	0.386	0					1.37
13.083	0.00	1.72	0.383	0					1.36
13.100	0.00	1.71	0.381	0					1.35
13.117	0.00	1.70	0.379	0					1.34
13.133	0.00	1.69	0.376	0					1.34
13.150	0.00	1.68	0.374	0					1.33
13.167	0.00	1.67	0.372	0					1.32
13.183	0.00	1.66	0.369	0					1.31
13.200	0.00	1.65	0.367	0					1.30
13.217	0.00	1.64	0.365	0					1.29
13.233	0.00	1.63	0.362	0					1.29
13.250	0.00	1.62	0.360	0					1.28
13.267	0.00	1.61	0.358	0					1.27
13.283	0.00	1.60	0.356	0					1.26
13.300	0.00	1.59	0.354	0					1.26
13.317	0.00	1.58	0.351	0					1.25
13.333	0.00	1.57	0.349	0					1.24
13.350	0.00	1.56	0.347	0					1.23
13.367	0.00	1.55	0.345	0					1.22
13.383	0.00	1.54	0.343	0					1.22
13.400	0.00	1.53	0.341	0					1.21
13.417	0.00	1.52	0.339	0					1.20
13.433	0.00	1.51	0.336	0					1.19
13.450	0.00	1.50	0.334	0					1.19
13.467	0.00	1.50	0.332	0					1.18
13.483	0.00	1.49	0.330	0					1.17
13.500	0.00	1.48	0.328	0					1.17
13.517	0.00	1.47	0.326	0					1.16
13.533	0.00	1.46	0.324	0					1.15
13.550	0.00	1.45	0.322	0					1.14
13.567	0.00	1.44	0.320	0					1.14
13.583	0.00	1.43	0.318	0					1.13
13.600	0.00	1.42	0.316	0					1.12
13.617	0.00	1.41	0.314	0					1.12
13.633	0.00	1.41	0.312	0					1.11
13.650	0.00	1.40	0.310	0					1.10
13.667	0.00	1.39	0.309	0					1.10
13.683	0.00	1.38	0.307	0					1.09
13.700	0.00	1.37	0.305	0					1.08
13.717	0.00	1.36	0.303	0					1.08
13.733	0.00	1.35	0.301	0					1.07
13.750	0.00	1.35	0.299	0					1.06
13.767	0.00	1.34	0.297	0					1.06
13.783	0.00	1.33	0.295	0					1.05
13.800	0.00	1.32	0.294	0					1.04
13.817	0.00	1.31	0.292	0					1.04
13.833	0.00	1.30	0.290	0					1.03
13.850	0.00	1.30	0.288	0					1.02
13.867	0.00	1.29	0.286	0					1.02
13.883	0.00	1.28	0.285	0					1.01
13.900	0.00	1.27	0.283	0					1.00
13.917	0.00	1.26	0.281	0					1.00
13.933	0.00	1.26	0.279	0					0.99
13.950	0.00	1.25	0.278	0					0.99
13.967	0.00	1.24	0.276	0					0.98
13.983	0.00	1.23	0.274	0					0.97
14.000	0.00	1.23	0.273	0					0.97
14.017	0.00	1.22	0.271	0					0.96
14.033	0.00	1.21	0.269	0					0.96
14.050	0.00	1.20	0.268	0					0.95
14.067	0.00	1.20	0.266	0					0.94
14.083	0.00	1.19	0.264	0					0.94
14.100	0.00	1.18	0.263	0					0.93
14.117	0.00	1.17	0.261	0					0.93
14.133	0.00	1.17	0.259	0					0.92
14.150	0.00	1.16	0.258	0					0.91
14.167	0.00	1.15	0.256	0					0.91
14.183	0.00	1.15	0.255	0					0.90

14.200	0.00	1.14	0.253	0					0.90
14.217	0.00	1.13	0.251	0					0.89
14.233	0.00	1.12	0.250	0					0.89
14.250	0.00	1.12	0.248	0					0.88
14.267	0.00	1.11	0.247	0					0.88
14.283	0.00	1.10	0.245	0					0.87
14.300	0.00	1.10	0.244	0					0.87
14.317	0.00	1.09	0.242	0					0.86
14.333	0.00	1.08	0.241	0					0.85
14.350	0.00	1.08	0.239	0					0.85
14.367	0.00	1.07	0.238	0					0.84
14.383	0.00	1.06	0.236	0					0.84
14.400	0.00	1.06	0.235	0					0.83
14.417	0.00	1.05	0.233	0					0.83
14.433	0.00	1.04	0.232	0					0.82
14.450	0.00	1.04	0.231	0					0.82
14.467	0.00	1.03	0.229	0					0.81
14.483	0.00	1.02	0.228	0					0.81
14.500	0.00	1.02	0.226	0					0.80
14.517	0.00	1.01	0.225	0					0.80
14.533	0.00	1.01	0.223	0					0.79
14.550	0.00	1.00	0.222	0					0.79
14.567	0.00	0.99	0.221	0					0.78
14.583	0.00	0.99	0.219	0					0.78
14.600	0.00	0.98	0.218	0					0.77
14.617	0.00	0.98	0.217	0					0.77
14.633	0.00	0.97	0.215	0					0.76
14.650	0.00	0.96	0.214	0					0.76
14.667	0.00	0.96	0.213	0					0.76
14.683	0.00	0.95	0.211	0					0.75
14.700	0.00	0.95	0.210	0					0.75
14.717	0.00	0.94	0.209	0					0.74
14.733	0.00	0.93	0.207	0					0.74
14.750	0.00	0.93	0.206	0					0.73
14.767	0.00	0.92	0.205	0					0.73
14.783	0.00	0.92	0.204	0					0.72
14.800	0.00	0.91	0.202	0					0.72
14.817	0.00	0.91	0.201	0					0.71
14.833	0.00	0.90	0.200	0					0.71
14.850	0.00	0.89	0.199	0					0.71
14.867	0.00	0.89	0.197	0					0.70
14.883	0.00	0.88	0.196	0					0.70
14.900	0.00	0.88	0.195	0					0.69
14.917	0.00	0.87	0.194	0					0.69
14.933	0.00	0.87	0.193	0					0.68
14.950	0.00	0.86	0.191	0					0.68
14.967	0.00	0.86	0.190	0					0.68
14.983	0.00	0.85	0.189	0					0.67
15.000	0.00	0.85	0.188	0					0.67
15.017	0.00	0.84	0.187	0					0.66
15.033	0.00	0.84	0.186	0					0.66
15.050	0.00	0.83	0.184	0					0.65
15.067	0.00	0.82	0.183	0					0.65
15.083	0.00	0.82	0.182	0					0.65
15.100	0.00	0.81	0.181	0					0.64
15.117	0.00	0.81	0.180	0					0.64
15.133	0.00	0.80	0.179	0					0.63
15.150	0.00	0.80	0.178	0					0.63
15.167	0.00	0.79	0.177	0					0.63
15.183	0.00	0.79	0.176	0					0.62
15.200	0.00	0.78	0.174	0					0.62
15.217	0.00	0.78	0.173	0					0.62
15.233	0.00	0.78	0.172	0					0.61
15.250	0.00	0.77	0.171	0					0.61
15.267	0.00	0.77	0.170	0					0.60
15.283	0.00	0.76	0.169	0					0.60
15.300	0.00	0.76	0.168	0					0.60
15.317	0.00	0.75	0.167	0					0.59
15.333	0.00	0.75	0.166	0					0.59
15.350	0.00	0.74	0.165	0					0.59
15.367	0.00	0.74	0.164	0					0.58

15.383	0.00	0.73	0.163	0					0.58
15.400	0.00	0.73	0.162	0					0.57
15.417	0.00	0.72	0.161	0					0.57
15.433	0.00	0.72	0.160	0					0.57
15.450	0.00	0.72	0.159	0					0.56
15.467	0.00	0.71	0.158	0					0.56
15.483	0.00	0.71	0.157	0					0.56
15.500	0.00	0.70	0.156	0					0.55
15.517	0.00	0.70	0.155	0					0.55
15.533	0.00	0.69	0.154	0					0.55
15.550	0.00	0.69	0.153	0					0.54
15.567	0.00	0.68	0.152	0					0.54
15.583	0.00	0.68	0.151	0					0.54
15.600	0.00	0.68	0.150	0					0.53
15.617	0.00	0.67	0.149	0					0.53
15.633	0.00	0.67	0.148	0					0.53
15.650	0.00	0.66	0.148	0					0.52
15.667	0.00	0.66	0.147	0					0.52
15.683	0.00	0.66	0.146	0					0.52
15.700	0.00	0.65	0.145	0					0.51
15.717	0.00	0.65	0.144	0					0.51
15.733	0.00	0.64	0.143	0					0.51
15.750	0.00	0.64	0.142	0					0.50
15.767	0.00	0.64	0.141	0					0.50
15.783	0.00	0.63	0.140	0					0.50
15.800	0.00	0.63	0.140	0					0.50
15.817	0.00	0.62	0.139	0					0.49
15.833	0.00	0.62	0.138	0					0.49
15.850	0.00	0.62	0.137	0					0.49
15.867	0.00	0.61	0.136	0					0.48
15.883	0.00	0.61	0.135	0					0.48
15.900	0.00	0.60	0.134	0					0.48
15.917	0.00	0.60	0.134	0					0.47
15.933	0.00	0.60	0.133	0					0.47
15.950	0.00	0.59	0.132	0					0.47
15.967	0.00	0.59	0.131	0					0.47
15.983	0.00	0.59	0.130	0					0.46
16.000	0.00	0.58	0.130	0					0.46
16.017	0.00	0.58	0.129	0					0.46
16.033	0.00	0.58	0.128	0					0.45
16.050	0.00	0.57	0.127	0					0.45
16.067	0.00	0.57	0.126	0					0.45
16.083	0.00	0.57	0.126	0					0.45
16.100	0.00	0.56	0.125	0					0.44
16.117	0.00	0.56	0.124	0					0.44
16.133	0.00	0.55	0.123	0					0.44
16.150	0.00	0.55	0.123	0					0.43
16.167	0.00	0.55	0.122	0					0.43
16.183	0.00	0.54	0.121	0					0.43
16.200	0.00	0.54	0.120	0					0.43
16.217	0.00	0.54	0.120	0					0.42
16.233	0.00	0.53	0.119	0					0.42
16.250	0.00	0.53	0.118	0					0.42
16.267	0.00	0.53	0.117	0					0.42
16.283	0.00	0.52	0.117	0					0.41
16.300	0.00	0.52	0.116	0					0.41
16.317	0.00	0.52	0.115	0					0.41
16.333	0.00	0.51	0.114	0					0.41
16.350	0.00	0.51	0.114	0					0.40
16.367	0.00	0.51	0.113	0					0.40
16.383	0.00	0.51	0.112	0					0.40
16.400	0.00	0.50	0.112	0					0.40
16.417	0.00	0.50	0.111	0					0.39
16.433	0.00	0.50	0.110	0					0.39
16.450	0.00	0.49	0.110	0					0.39
16.467	0.00	0.49	0.109	0					0.39
16.483	0.00	0.49	0.108	0					0.38
16.500	0.00	0.48	0.108	0					0.38
16.517	0.00	0.48	0.107	0					0.38
16.533	0.00	0.48	0.106	0					0.38
16.550	0.00	0.48	0.106	0					0.37

16.567	0.00	0.47	0.105	0					0.37
16.583	0.00	0.47	0.104	0					0.37
16.600	0.00	0.47	0.104	0					0.37
16.617	0.00	0.46	0.103	0					0.37
16.633	0.00	0.46	0.102	0					0.36
16.650	0.00	0.46	0.102	0					0.36
16.667	0.00	0.45	0.101	0					0.36
16.683	0.00	0.45	0.100	0					0.36
16.700	0.00	0.45	0.100	0					0.35
16.717	0.00	0.45	0.099	0					0.35
16.733	0.00	0.44	0.099	0					0.35
16.750	0.00	0.44	0.098	0					0.35
16.767	0.00	0.44	0.097	0					0.35
16.783	0.00	0.44	0.097	0					0.34
16.800	0.00	0.43	0.096	0					0.34
16.817	0.00	0.43	0.096	0					0.34
16.833	0.00	0.43	0.095	0					0.34
16.850	0.00	0.42	0.094	0					0.34
16.867	0.00	0.42	0.094	0					0.33
16.883	0.00	0.42	0.093	0					0.33
16.900	0.00	0.42	0.093	0					0.33
16.917	0.00	0.41	0.092	0					0.33
16.933	0.00	0.41	0.092	0					0.32
16.950	0.00	0.41	0.091	0					0.32
16.967	0.00	0.41	0.090	0					0.32
16.983	0.00	0.40	0.090	0					0.32
17.000	0.00	0.40	0.089	0					0.32
17.017	0.00	0.40	0.089	0					0.32
17.033	0.00	0.40	0.088	0					0.31
17.050	0.00	0.39	0.088	0					0.31
17.067	0.00	0.39	0.087	0					0.31
17.083	0.00	0.39	0.087	0					0.31
17.100	0.00	0.39	0.086	0					0.31
17.117	0.00	0.38	0.086	0					0.30
17.133	0.00	0.38	0.085	0					0.30
17.150	0.00	0.38	0.084	0					0.30
17.167	0.00	0.38	0.084	0					0.30
17.183	0.00	0.38	0.083	0					0.30
17.200	0.00	0.37	0.083	0					0.29
17.217	0.00	0.37	0.082	0					0.29
17.233	0.00	0.37	0.082	0					0.29
17.250	0.00	0.37	0.081	0					0.29
17.267	0.00	0.36	0.081	0					0.29
17.283	0.00	0.36	0.080	0					0.29
17.300	0.00	0.36	0.080	0					0.28
17.317	0.00	0.36	0.079	0					0.28
17.333	0.00	0.36	0.079	0					0.28
17.350	0.00	0.35	0.078	0					0.28
17.367	0.00	0.35	0.078	0					0.28
17.383	0.00	0.35	0.077	0					0.27
17.400	0.00	0.35	0.077	0					0.27
17.417	0.00	0.34	0.076	0					0.27
17.433	0.00	0.34	0.076	0					0.27
17.450	0.00	0.34	0.076	0					0.27
17.467	0.00	0.34	0.075	0					0.27
17.483	0.00	0.34	0.075	0					0.26
17.500	0.00	0.33	0.074	0					0.26
17.517	0.00	0.33	0.074	0					0.26
17.533	0.00	0.33	0.073	0					0.26
17.550	0.00	0.33	0.073	0					0.26
17.567	0.00	0.33	0.072	0					0.26
17.583	0.00	0.32	0.072	0					0.26
17.600	0.00	0.32	0.071	0					0.25
17.617	0.00	0.32	0.071	0					0.25
17.633	0.00	0.32	0.071	0					0.25
17.650	0.00	0.32	0.070	0					0.25
17.667	0.00	0.31	0.070	0					0.25
17.683	0.00	0.31	0.069	0					0.25
17.700	0.00	0.31	0.069	0					0.24
17.717	0.00	0.31	0.068	0					0.24
17.733	0.00	0.31	0.068	0					0.24

17.750	0.00	0.30	0.068	0					0.24
17.767	0.00	0.30	0.067	0					0.24
17.783	0.00	0.30	0.067	0					0.24
17.800	0.00	0.30	0.066	0					0.24
17.817	0.00	0.30	0.066	0					0.23
17.833	0.00	0.29	0.066	0					0.23
17.850	0.00	0.29	0.065	0					0.23
17.867	0.00	0.29	0.065	0					0.23
17.883	0.00	0.29	0.064	0					0.23
17.900	0.00	0.29	0.064	0					0.23
17.917	0.00	0.29	0.064	0					0.23
17.933	0.00	0.28	0.063	0					0.22
17.950	0.00	0.28	0.063	0					0.22
17.967	0.00	0.28	0.062	0					0.22
17.983	0.00	0.28	0.062	0					0.22
18.000	0.00	0.28	0.062	0					0.22
18.017	0.00	0.28	0.061	0					0.22
18.033	0.00	0.27	0.061	0					0.22
18.050	0.00	0.27	0.060	0					0.21
18.067	0.00	0.27	0.060	0					0.21
18.083	0.00	0.27	0.060	0					0.21
18.100	0.00	0.27	0.059	0					0.21
18.117	0.00	0.27	0.059	0					0.21
18.133	0.00	0.26	0.059	0					0.21
18.150	0.00	0.26	0.058	0					0.21
18.167	0.00	0.26	0.058	0					0.21
18.183	0.00	0.26	0.058	0					0.20
18.200	0.00	0.26	0.057	0					0.20
18.217	0.00	0.26	0.057	0					0.20
18.233	0.00	0.25	0.056	0					0.20
18.250	0.00	0.25	0.056	0					0.20
18.267	0.00	0.25	0.056	0					0.20
18.283	0.00	0.25	0.055	0					0.20
18.300	0.00	0.25	0.055	0					0.20
18.317	0.00	0.25	0.055	0					0.19
18.333	0.00	0.24	0.054	0					0.19
18.350	0.00	0.24	0.054	0					0.19
18.367	0.00	0.24	0.054	0					0.19
18.383	0.00	0.24	0.053	0					0.19
18.400	0.00	0.24	0.053	0					0.19
18.417	0.00	0.24	0.053	0					0.19
18.433	0.00	0.24	0.052	0					0.19
18.450	0.00	0.23	0.052	0					0.18
18.467	0.00	0.23	0.052	0					0.18
18.483	0.00	0.23	0.051	0					0.18
18.500	0.00	0.23	0.051	0					0.18
18.517	0.00	0.23	0.051	0					0.18
18.533	0.00	0.23	0.050	0					0.18
18.550	0.00	0.23	0.050	0					0.18
18.567	0.00	0.22	0.050	0					0.18
18.583	0.00	0.22	0.050	0					0.18
18.600	0.00	0.22	0.049	0					0.17
18.617	0.00	0.22	0.049	0					0.17
18.633	0.00	0.22	0.049	0					0.17
18.650	0.00	0.22	0.048	0					0.17
18.667	0.00	0.22	0.048	0					0.17
18.683	0.00	0.21	0.048	0					0.17
18.700	0.00	0.21	0.047	0					0.17
18.717	0.00	0.21	0.047	0					0.17
18.733	0.00	0.21	0.047	0					0.17
18.750	0.00	0.21	0.047	0					0.17
18.767	0.00	0.21	0.046	0					0.16
18.783	0.00	0.21	0.046	0					0.16
18.800	0.00	0.21	0.046	0					0.16
18.817	0.00	0.20	0.045	0					0.16
18.833	0.00	0.20	0.045	0					0.16
18.850	0.00	0.20	0.045	0					0.16
18.867	0.00	0.20	0.045	0					0.16
18.883	0.00	0.20	0.044	0					0.16
18.900	0.00	0.20	0.044	0					0.16
18.917	0.00	0.20	0.044	0					0.16

18.933	0.00	0.20	0.044	0					0.15
18.950	0.00	0.19	0.043	0					0.15
18.967	0.00	0.19	0.043	0					0.15
18.983	0.00	0.19	0.043	0					0.15
19.000	0.00	0.19	0.042	0					0.15
19.017	0.00	0.19	0.042	0					0.15
19.033	0.00	0.19	0.042	0					0.15
19.050	0.00	0.19	0.042	0					0.15
19.067	0.00	0.19	0.041	0					0.15
19.083	0.00	0.19	0.041	0					0.15
19.100	0.00	0.18	0.041	0					0.15
19.117	0.00	0.18	0.041	0					0.14
19.133	0.00	0.18	0.040	0					0.14
19.150	0.00	0.18	0.040	0					0.14
19.167	0.00	0.18	0.040	0					0.14
19.183	0.00	0.18	0.040	0					0.14
19.200	0.00	0.18	0.039	0					0.14
19.217	0.00	0.18	0.039	0					0.14
19.233	0.00	0.18	0.039	0					0.14
19.250	0.00	0.17	0.039	0					0.14
19.267	0.00	0.17	0.038	0					0.14
19.283	0.00	0.17	0.038	0					0.14
19.300	0.00	0.17	0.038	0					0.13
19.317	0.00	0.17	0.038	0					0.13
19.333	0.00	0.17	0.037	0					0.13
19.350	0.00	0.17	0.037	0					0.13
19.367	0.00	0.17	0.037	0					0.13
19.383	0.00	0.17	0.037	0					0.13
19.400	0.00	0.16	0.037	0					0.13
19.417	0.00	0.16	0.036	0					0.13
19.433	0.00	0.16	0.036	0					0.13
19.450	0.00	0.16	0.036	0					0.13
19.467	0.00	0.16	0.036	0					0.13
19.483	0.00	0.16	0.035	0					0.13
19.500	0.00	0.16	0.035	0					0.13
19.517	0.00	0.16	0.035	0					0.12
19.533	0.00	0.16	0.035	0					0.12
19.550	0.00	0.16	0.035	0					0.12
19.567	0.00	0.15	0.034	0					0.12
19.583	0.00	0.15	0.034	0					0.12
19.600	0.00	0.15	0.034	0					0.12
19.617	0.00	0.15	0.034	0					0.12
19.633	0.00	0.15	0.034	0					0.12
19.650	0.00	0.15	0.033	0					0.12
19.667	0.00	0.15	0.033	0					0.12
19.683	0.00	0.15	0.033	0					0.12
19.700	0.00	0.15	0.033	0					0.12
19.717	0.00	0.15	0.033	0					0.12
19.733	0.00	0.15	0.032	0					0.11
19.750	0.00	0.14	0.032	0					0.11
19.767	0.00	0.14	0.032	0					0.11
19.783	0.00	0.14	0.032	0					0.11
19.800	0.00	0.14	0.032	0					0.11
19.817	0.00	0.14	0.031	0					0.11
19.833	0.00	0.14	0.031	0					0.11
19.850	0.00	0.14	0.031	0					0.11
19.867	0.00	0.14	0.031	0					0.11
19.883	0.00	0.14	0.031	0					0.11
19.900	0.00	0.14	0.030	0					0.11
19.917	0.00	0.14	0.030	0					0.11
19.933	0.00	0.13	0.030	0					0.11
19.950	0.00	0.13	0.030	0					0.11
19.967	0.00	0.13	0.030	0					0.11
19.983	0.00	0.13	0.029	0					0.10
20.000	0.00	0.13	0.029	0					0.10
20.017	0.00	0.13	0.029	0					0.10
20.033	0.00	0.13	0.029	0					0.10
20.050	0.00	0.13	0.029	0					0.10
20.067	0.00	0.13	0.029	0					0.10
20.083	0.00	0.13	0.028	0					0.10
20.100	0.00	0.13	0.028	0					0.10

20.117	0.00	0.13	0.028	0					0.10
20.133	0.00	0.13	0.028	0					0.10
20.150	0.00	0.12	0.028	0					0.10
20.167	0.00	0.12	0.028	0					0.10
20.183	0.00	0.12	0.027	0					0.10
20.200	0.00	0.12	0.027	0					0.10
20.217	0.00	0.12	0.027	0					0.10
20.233	0.00	0.12	0.027	0					0.10
20.250	0.00	0.12	0.027	0					0.09
20.267	0.00	0.12	0.027	0					0.09
20.283	0.00	0.12	0.026	0					0.09
20.300	0.00	0.12	0.026	0					0.09
20.317	0.00	0.12	0.026	0					0.09
20.333	0.00	0.12	0.026	0					0.09
20.350	0.00	0.12	0.026	0					0.09
20.367	0.00	0.11	0.026	0					0.09
20.383	0.00	0.11	0.025	0					0.09
20.400	0.00	0.11	0.025	0					0.09
20.417	0.00	0.11	0.025	0					0.09
20.433	0.00	0.11	0.025	0					0.09
20.450	0.00	0.11	0.025	0					0.09
20.467	0.00	0.11	0.025	0					0.09
20.483	0.00	0.11	0.024	0					0.09
20.500	0.00	0.11	0.024	0					0.09
20.517	0.00	0.11	0.024	0					0.09
20.533	0.00	0.11	0.024	0					0.09
20.550	0.00	0.11	0.024	0					0.08
20.567	0.00	0.11	0.024	0					0.08
20.583	0.00	0.11	0.024	0					0.08
20.600	0.00	0.11	0.023	0					0.08
20.617	0.00	0.10	0.023	0					0.08
20.633	0.00	0.10	0.023	0					0.08
20.650	0.00	0.10	0.023	0					0.08
20.667	0.00	0.10	0.023	0					0.08
20.683	0.00	0.10	0.023	0					0.08
20.700	0.00	0.10	0.023	0					0.08
20.717	0.00	0.10	0.022	0					0.08
20.733	0.00	0.10	0.022	0					0.08
20.750	0.00	0.10	0.022	0					0.08
20.767	0.00	0.10	0.022	0					0.08
20.783	0.00	0.10	0.022	0					0.08
20.800	0.00	0.10	0.022	0					0.08
20.817	0.00	0.10	0.022	0					0.08
20.833	0.00	0.10	0.021	0					0.08
20.850	0.00	0.10	0.021	0					0.08
20.867	0.00	0.10	0.021	0					0.08
20.883	0.00	0.09	0.021	0					0.07
20.900	0.00	0.09	0.021	0					0.07
20.917	0.00	0.09	0.021	0					0.07
20.933	0.00	0.09	0.021	0					0.07
20.950	0.00	0.09	0.021	0					0.07
20.967	0.00	0.09	0.020	0					0.07
20.983	0.00	0.09	0.020	0					0.07
21.000	0.00	0.09	0.020	0					0.07
21.017	0.00	0.09	0.020	0					0.07
21.033	0.00	0.09	0.020	0					0.07
21.050	0.00	0.09	0.020	0					0.07
21.067	0.00	0.09	0.020	0					0.07
21.083	0.00	0.09	0.020	0					0.07
21.100	0.00	0.09	0.019	0					0.07
21.117	0.00	0.09	0.019	0					0.07
21.133	0.00	0.09	0.019	0					0.07
21.150	0.00	0.09	0.019	0					0.07
21.167	0.00	0.09	0.019	0					0.07
21.183	0.00	0.08	0.019	0					0.07
21.200	0.00	0.08	0.019	0					0.07
21.217	0.00	0.08	0.019	0					0.07
21.233	0.00	0.08	0.018	0					0.07
21.250	0.00	0.08	0.018	0					0.07
21.267	0.00	0.08	0.018	0					0.06
21.283	0.00	0.08	0.018	0					0.06

31.950	0.00	0.00	0.000	0					0.00
31.967	0.00	0.00	0.000	0					0.00
31.983	0.00	0.00	0.000	0					0.00
32.000	0.00	0.00	0.000	0					0.00
32.017	0.00	0.00	0.000	0					0.00
32.033	0.00	0.00	0.000	0					0.00
32.050	0.00	0.00	0.000	0					0.00
32.067	0.00	0.00	0.000	0					0.00
32.083	0.00	0.00	0.000	0					0.00
32.100	0.00	0.00	0.000	0					0.00
32.117	0.00	0.00	0.000	0					0.00
32.133	0.00	0.00	0.000	0					0.00
32.150	0.00	0.00	0.000	0					0.00
32.167	0.00	0.00	0.000	0					0.00
32.183	0.00	0.00	0.000	0					0.00
32.200	0.00	0.00	0.000	0					0.00
32.217	0.00	0.00	0.000	0					0.00
32.233	0.00	0.00	0.000	0					0.00
32.250	0.00	0.00	0.000	0					0.00
32.267	0.00	0.00	0.000	0					0.00
32.283	0.00	0.00	0.000	0					0.00
32.300	0.00	0.00	0.000	0					0.00
32.317	0.00	0.00	0.000	0					0.00
32.333	0.00	0.00	0.000	0					0.00
32.350	0.00	0.00	0.000	0					0.00
32.367	0.00	0.00	0.000	0					0.00
32.383	0.00	0.00	0.000	0					0.00
32.400	0.00	0.00	0.000	0					0.00
32.417	0.00	0.00	0.000	0					0.00
32.433	0.00	0.00	0.000	0					0.00
32.450	0.00	0.00	0.000	0					0.00
32.467	0.00	0.00	0.000	0					0.00
32.483	0.00	0.00	0.000	0					0.00
32.500	0.00	0.00	0.000	0					0.00

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*****HYDROGRAPH DATA*****
      Number of intervals = 1950
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 3.670 (CFS)
      Total volume = 2.975 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
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Process from Point/Station 716.000 to Point/Station 724.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

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Current stream hydrograph saved in file 100160rteundbas1.rte
*****HYDROGRAPH DATA*****
      Number of intervals = 0
      Time interval = 0.0 (Min.)
      Maximum/Peak flow rate = 0.000 (CFS)
      Total volume = 0.000 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****
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FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/15/24

 Majestic Otay
 Otay Mesa, San Diego County
 Proposed Condition Basin 5 - Flood Routing
 100160rtebas5

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rteundbas1bas5.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 1951
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 70.554 (CFS)
 Total volume = 6.214 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 0.000 to Point/Station 0.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 1951
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 4.50(Ft.)

Initial basin depth = 4.50 (Ft.)
 Initial basin storage = 1.01 (Ac.Ft)
 Initial basin outflow = 1.64 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.160	1.070	0.159	0.161
1.500	0.240	1.250	0.239	0.241
2.500	0.410	1.350	0.409	0.411
3.500	0.570	1.510	0.569	0.571
4.500	1.010	1.640	1.009	1.011
5.500	1.500	3.760	1.497	1.503
6.500	2.040	9.120	2.034	2.046
7.500	2.650	31.930	2.628	2.672

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

 Time Inflow Outflow Storage Depth

(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	17.6	35.28	52.92	70.55	(Ft.)
0.017	0.23	1.64	1.007	O					4.49
0.033	0.46	1.64	1.005	O					4.49
0.050	0.69	1.64	1.004	O					4.49
0.067	0.93	1.64	1.002	O					4.48
0.083	1.17	1.64	1.002	O					4.48
0.100	1.41	1.64	1.001	O					4.48
0.117	1.65	1.64	1.001	O					4.48
0.133	1.90	1.64	1.001	O					4.48
0.150	2.14	1.64	1.002	O					4.48
0.167	2.39	1.64	1.003	OI					4.48
0.183	2.41	1.64	1.004	OI					4.49
0.200	2.42	1.64	1.005	OI					4.49
0.217	2.44	1.64	1.006	OI					4.49
0.233	2.46	1.64	1.007	OI					4.49
0.250	2.48	1.64	1.008	OI					4.50
0.267	2.50	1.64	1.009	OI					4.50
0.283	2.51	1.64	1.010	OI					4.50
0.300	2.53	1.65	1.012	OI					4.50
0.317	2.55	1.65	1.013	OI					4.51
0.333	2.57	1.66	1.014	OI					4.51
0.350	2.59	1.66	1.015	OI					4.51
0.367	2.61	1.67	1.017	OI					4.51
0.383	2.64	1.67	1.018	OI					4.52
0.400	2.66	1.68	1.019	OI					4.52
0.417	2.68	1.69	1.021	OI					4.52
0.433	2.70	1.69	1.022	OI					4.52
0.450	2.73	1.70	1.023	OI					4.53
0.467	2.75	1.70	1.025	OI					4.53
0.483	2.77	1.71	1.026	OI					4.53
0.500	2.79	1.72	1.028	OI					4.54
0.517	2.81	1.72	1.029	OI					4.54
0.533	2.83	1.73	1.031	OI					4.54
0.550	2.85	1.74	1.032	OI					4.55
0.567	2.86	1.74	1.034	OI					4.55
0.583	2.88	1.75	1.035	OI					4.55
0.600	2.90	1.76	1.037	OI					4.55
0.617	2.92	1.76	1.039	OI					4.56
0.633	2.94	1.77	1.040	OI					4.56
0.650	2.95	1.78	1.042	OI					4.56
0.667	2.97	1.78	1.043	OI					4.57
0.683	2.99	1.79	1.045	OI					4.57
0.700	3.02	1.80	1.047	OI					4.57
0.717	3.04	1.81	1.048	OI					4.58
0.733	3.06	1.81	1.050	OI					4.58
0.750	3.09	1.82	1.052	OI					4.59
0.767	3.11	1.83	1.054	OI					4.59
0.783	3.13	1.84	1.055	OI					4.59
0.800	3.16	1.84	1.057	OI					4.60
0.817	3.18	1.85	1.059	OI					4.60
0.833	3.20	1.86	1.061	OI					4.60
0.850	3.22	1.87	1.063	OI					4.61
0.867	3.24	1.88	1.065	OI					4.61
0.883	3.26	1.88	1.066	OI					4.62
0.900	3.28	1.89	1.068	OI					4.62
0.917	3.30	1.90	1.070	OI					4.62
0.933	3.31	1.91	1.072	OI					4.63
0.950	3.33	1.92	1.074	OI					4.63
0.967	3.35	1.93	1.076	OI					4.63
0.983	3.37	1.93	1.078	OI					4.64
1.000	3.39	1.94	1.080	OI					4.64
1.017	3.41	1.95	1.082	OI					4.65
1.033	3.44	1.96	1.084	OI					4.65
1.050	3.46	1.97	1.086	OI					4.66
1.067	3.49	1.98	1.088	OI					4.66
1.083	3.51	1.99	1.090	OI					4.66
1.100	3.54	2.00	1.092	OI					4.67
1.117	3.56	2.01	1.094	OI					4.67
1.133	3.59	2.01	1.097	OI					4.68
1.150	3.61	2.02	1.099	OI					4.68
1.167	3.64	2.03	1.101	OI					4.69

1.183	3.65	2.04	1.103	OI					4.69
1.200	3.67	2.05	1.105	OI					4.69
1.217	3.69	2.06	1.108	OI					4.70
1.233	3.71	2.07	1.110	OI					4.70
1.250	3.73	2.08	1.112	OI					4.71
1.267	3.75	2.09	1.114	OI					4.71
1.283	3.77	2.10	1.117	OI					4.72
1.300	3.79	2.11	1.119	OI					4.72
1.317	3.81	2.12	1.121	OI					4.73
1.333	3.83	2.13	1.124	OI					4.73
1.350	3.85	2.14	1.126	OI					4.74
1.367	3.88	2.15	1.128	OI					4.74
1.383	3.91	2.16	1.131	OI					4.75
1.400	3.94	2.17	1.133	OI					4.75
1.417	3.96	2.18	1.136	OI					4.76
1.433	3.99	2.19	1.138	OI					4.76
1.450	4.02	2.21	1.141	IO					4.77
1.467	4.05	2.22	1.143	IO					4.77
1.483	4.07	2.23	1.146	IO					4.78
1.500	4.10	2.24	1.148	IO					4.78
1.517	4.12	2.25	1.151	IO					4.79
1.533	4.14	2.26	1.153	IO					4.79
1.550	4.16	2.27	1.156	IO					4.80
1.567	4.18	2.28	1.159	IO					4.80
1.583	4.20	2.29	1.161	IO					4.81
1.600	4.22	2.31	1.164	IO					4.81
1.617	4.25	2.32	1.166	IO					4.82
1.633	4.27	2.33	1.169	IO					4.82
1.650	4.29	2.34	1.172	IO					4.83
1.667	4.31	2.35	1.175	IO					4.84
1.683	4.34	2.36	1.177	IO					4.84
1.700	4.37	2.38	1.180	IO					4.85
1.717	4.40	2.39	1.183	IO					4.85
1.733	4.43	2.40	1.185	IOI					4.86
1.750	4.46	2.41	1.188	IOI					4.86
1.767	4.50	2.42	1.191	IOI					4.87
1.783	4.53	2.44	1.194	IOI					4.88
1.800	4.56	2.45	1.197	IOI					4.88
1.817	4.59	2.46	1.200	IOI					4.89
1.833	4.62	2.47	1.203	IOI					4.89
1.850	4.64	2.49	1.206	IOI					4.90
1.867	4.67	2.50	1.209	IOI					4.91
1.883	4.69	2.51	1.212	IOI					4.91
1.900	4.71	2.53	1.215	IOI					4.92
1.917	4.74	2.54	1.218	IOI					4.92
1.933	4.76	2.55	1.221	IOI					4.93
1.950	4.78	2.57	1.224	IOI					4.94
1.967	4.81	2.58	1.227	IOI					4.94
1.983	4.83	2.59	1.230	IOI					4.95
2.000	4.85	2.60	1.233	IOI					4.96
2.017	4.89	2.62	1.236	IOI					4.96
2.033	4.93	2.63	1.239	IOI					4.97
2.050	4.96	2.65	1.242	IOI					4.97
2.067	5.00	2.66	1.246	IOI					4.98
2.083	5.04	2.67	1.249	IOI					4.99
2.100	5.08	2.69	1.252	IOI					4.99
2.117	5.11	2.70	1.255	IOI					5.00
2.133	5.15	2.72	1.259	IOI					5.01
2.150	5.19	2.73	1.262	IOI					5.01
2.167	5.23	2.75	1.266	IOI					5.02
2.183	5.25	2.76	1.269	IOI					5.03
2.200	5.28	2.78	1.272	IOI					5.04
2.217	5.31	2.79	1.276	IOI					5.04
2.233	5.33	2.81	1.279	IOI					5.05
2.250	5.36	2.82	1.283	IOI					5.06
2.267	5.39	2.84	1.286	IOI					5.06
2.283	5.42	2.85	1.290	IOI					5.07
2.300	5.44	2.87	1.293	IOI					5.08
2.317	5.47	2.88	1.297	IOI					5.09
2.333	5.50	2.90	1.301	IOI					5.09
2.350	5.54	2.91	1.304	IOI					5.10

2.367	5.59	2.93	1.308	OI				5.11
2.383	5.64	2.94	1.312	OI				5.12
2.400	5.68	2.96	1.315	OI				5.12
2.417	5.73	2.98	1.319	OI				5.13
2.433	5.77	2.99	1.323	OI				5.14
2.450	5.81	3.01	1.327	OI				5.15
2.467	5.85	3.03	1.331	OI				5.15
2.483	5.89	3.04	1.334	OI				5.16
2.500	5.93	3.06	1.338	OI				5.17
2.517	5.95	3.08	1.342	OI				5.18
2.533	5.97	3.10	1.346	OI				5.19
2.550	6.00	3.11	1.350	OI				5.19
2.567	6.02	3.13	1.354	OI				5.20
2.583	6.04	3.15	1.358	OI				5.21
2.600	6.07	3.16	1.362	OI				5.22
2.617	6.09	3.18	1.366	OI				5.23
2.633	6.12	3.20	1.370	OI				5.24
2.650	6.14	3.22	1.374	OI				5.24
2.667	6.16	3.23	1.378	OI				5.25
2.683	6.22	3.25	1.382	OI				5.26
2.700	6.27	3.27	1.386	OI				5.27
2.717	6.32	3.29	1.391	OI				5.28
2.733	6.37	3.31	1.395	OI				5.29
2.750	6.42	3.32	1.399	OI				5.29
2.767	6.48	3.34	1.403	OI				5.30
2.783	6.53	3.36	1.408	OI				5.31
2.800	6.58	3.38	1.412	OI				5.32
2.817	6.63	3.40	1.417	O I				5.33
2.833	6.68	3.42	1.421	O I				5.34
2.850	6.72	3.44	1.426	O I				5.35
2.867	6.75	3.46	1.430	O I				5.36
2.883	6.79	3.48	1.435	O I				5.37
2.900	6.82	3.50	1.439	O I				5.38
2.917	6.86	3.52	1.444	O I				5.39
2.933	6.89	3.54	1.448	O I				5.39
2.950	6.93	3.56	1.453	O I				5.40
2.967	6.96	3.58	1.458	O I				5.41
2.983	7.00	3.60	1.462	O I				5.42
3.000	7.03	3.62	1.467	O I				5.43
3.017	7.11	3.64	1.472	O I				5.44
3.033	7.19	3.66	1.477	O I				5.45
3.050	7.27	3.68	1.481	O I				5.46
3.067	7.35	3.70	1.486	O I				5.47
3.083	7.43	3.72	1.492	O I				5.48
3.100	7.51	3.75	1.497	O I				5.49
3.117	7.59	3.78	1.502	O I				5.50
3.133	7.67	3.83	1.507	O I				5.51
3.150	7.76	3.88	1.513	O I				5.52
3.167	7.84	3.94	1.518	O I				5.53
3.183	7.89	3.99	1.523	O I				5.54
3.200	7.95	4.04	1.529	O I				5.55
3.217	8.01	4.10	1.534	O I				5.56
3.233	8.06	4.15	1.539	O I				5.57
3.250	8.12	4.20	1.545	O I				5.58
3.267	8.17	4.26	1.550	O I				5.59
3.283	8.23	4.31	1.556	O I				5.60
3.300	8.29	4.36	1.561	O I				5.61
3.317	8.35	4.42	1.566	OI				5.62
3.333	8.40	4.47	1.572	OI				5.63
3.350	8.55	4.53	1.577	OI				5.64
3.367	8.70	4.58	1.583	OI				5.65
3.383	8.85	4.64	1.589	O I				5.66
3.400	9.00	4.70	1.594	O I				5.67
3.417	9.15	4.76	1.600	O I				5.69
3.433	9.30	4.82	1.607	O I				5.70
3.450	9.44	4.88	1.613	O I				5.71
3.467	9.59	4.94	1.619	O I				5.72
3.483	9.74	5.01	1.626	O I				5.73
3.500	9.89	5.07	1.632	O I				5.74
3.517	10.01	5.14	1.639	O I				5.76
3.533	10.13	5.21	1.646	O I				5.77

3.550	10.24	5.27	1.652		O	I						5.78
3.567	10.36	5.34	1.659		O	I						5.79
3.583	10.48	5.41	1.666		O	I						5.81
3.600	10.60	5.48	1.673		O	I						5.82
3.617	10.71	5.55	1.680		O	I						5.83
3.633	10.83	5.62	1.687		O	I						5.85
3.650	10.95	5.69	1.695		O	I						5.86
3.667	11.07	5.76	1.702		O	I						5.87
3.683	11.49	5.84	1.709		O	I						5.89
3.700	11.92	5.92	1.718		O	I						5.90
3.717	12.34	6.00	1.726		O	I						5.92
3.733	12.76	6.09	1.735		O	I						5.94
3.750	13.19	6.19	1.744		O	I						5.95
3.767	13.61	6.28	1.754		O	I						5.97
3.783	14.04	6.39	1.765		O	I						5.99
3.800	14.46	6.49	1.775		O	I						6.01
3.817	14.89	6.60	1.787		O	I						6.03
3.833	15.32	6.72	1.798		O	I						6.05
3.850	15.86	6.84	1.810		O	I						6.07
3.867	16.41	6.97	1.823		O	I						6.10
3.883	16.96	7.10	1.836		O	I						6.12
3.900	17.50	7.24	1.850		O	I						6.15
3.917	18.05	7.38	1.865		O	I						6.18
3.933	18.61	7.53	1.880		O	I						6.20
3.950	19.16	7.68	1.895		O	I						6.23
3.967	19.72	7.84	1.911		O	I						6.26
3.983	20.28	8.01	1.928		O	I						6.29
4.000	20.85	8.18	1.945		O	I						6.32
4.017	25.79	8.38	1.966		O		I					6.36
4.033	30.74	8.65	1.993		O		I					6.41
4.050	35.70	8.99	2.027		O		I		I			6.48
4.067	40.68	10.09	2.066		O		I		I			6.54
4.083	45.68	11.75	2.110		O		I		I			6.62
4.100	50.69	13.58	2.159		O		I		I			6.70
4.117	55.69	15.57	2.213		O		I		I			6.78
4.133	60.66	17.71	2.270		O		I		I			6.88
4.150	65.62	19.99	2.331		O		I		I			6.98
4.167	70.55	22.41	2.395		O		I		I			7.08
4.183	64.90	24.68	2.456		O		I		I			7.18
4.200	59.24	26.56	2.506		O		I		I			7.26
4.217	53.57	28.06	2.546		O		I		I			7.33
4.233	47.90	29.20	2.577		O		I		I			7.38
4.250	42.24	29.99	2.598		O		I		I			7.42
4.267	36.57	30.47	2.611		O	I			I			7.44
4.283	30.90	30.63	2.615		O	I			I			7.44
4.300	25.22	30.50	2.612		O	I			I			7.44
4.317	19.55	30.09	2.601		O	I			I			7.42
4.333	13.88	29.42	2.583		O	I			I			7.39
4.350	13.54	28.63	2.562		O	I			I			7.36
4.367	13.21	27.87	2.541		O	I			I			7.32
4.383	12.88	27.12	2.521		O	I			I			7.29
4.400	12.54	26.40	2.502		O	I			I			7.26
4.417	12.20	25.69	2.483		O	I			I			7.23
4.433	11.87	25.01	2.465		O	I			I			7.20
4.450	11.53	24.34	2.447		O	I			I			7.17
4.467	11.19	23.69	2.430		O	I			I			7.14
4.483	10.86	23.05	2.413		O	I			I			7.11
4.500	10.52	22.43	2.396		O	I			I			7.08
4.517	10.37	21.83	2.380		O	I			I			7.06
4.533	10.23	21.25	2.364		O	I			I			7.03
4.550	10.08	20.69	2.350		O	I			I			7.01
4.567	9.93	20.16	2.335		O	I			I			6.98
4.583	9.79	19.64	2.321		O	I			I			6.96
4.600	9.64	19.14	2.308		O	I			I			6.94
4.617	9.49	18.66	2.295		O	I			I			6.92
4.633	9.34	18.20	2.283		O	I			I			6.90
4.650	9.20	17.75	2.271		O	I			I			6.88
4.667	9.05	17.32	2.259		O	I			I			6.86
4.683	8.96	16.90	2.248		O	I			I			6.84
4.700	8.88	16.50	2.237		O	I			I			6.82
4.717	8.79	16.11	2.227		O	I			I			6.81

4.733	8.70	15.74	2.217		I	O					6.79
4.750	8.62	15.39	2.208		I	O					6.77
4.767	8.53	15.05	2.198		I	O					6.76
4.783	8.45	14.72	2.190		I	O					6.75
4.800	8.36	14.40	2.181		I	O					6.73
4.817	8.27	14.09	2.173		I	O					6.72
4.833	8.19	13.80	2.165		I	O					6.71
4.850	8.13	13.52	2.158		I	O					6.69
4.867	8.07	13.24	2.150		I	O					6.68
4.883	8.01	12.98	2.143		I	O					6.67
4.900	7.95	12.73	2.137		I	O					6.66
4.917	7.90	12.49	2.130		I	O					6.65
4.933	7.84	12.26	2.124		I	O					6.64
4.950	7.78	12.03	2.118		I	O					6.63
4.967	7.72	11.82	2.112		I	O					6.62
4.983	7.66	11.61	2.107		I	O					6.61
5.000	7.60	11.41	2.101		I	O					6.60
5.017	7.56	11.22	2.096		I	O					6.59
5.033	7.52	11.04	2.091		I	O					6.58
5.050	7.48	10.86	2.086		IO						6.58
5.067	7.44	10.69	2.082		IO						6.57
5.083	7.39	10.52	2.078		IO						6.56
5.100	7.35	10.36	2.073		IO						6.55
5.117	7.31	10.21	2.069		IO						6.55
5.133	7.26	10.07	2.065		IO						6.54
5.150	7.22	9.92	2.061		IO						6.54
5.167	7.18	9.79	2.058		IO						6.53
5.183	7.15	9.66	2.054		IO						6.52
5.200	7.11	9.53	2.051		IO						6.52
5.217	7.08	9.41	2.048		IO						6.51
5.233	7.05	9.29	2.045		IO						6.51
5.250	7.01	9.18	2.041		IO						6.50
5.267	6.98	9.11	2.039		IO						6.50
5.283	6.95	9.08	2.036		IO						6.49
5.300	6.92	9.05	2.033		IO						6.49
5.317	6.88	9.02	2.030		IO						6.48
5.333	6.85	8.99	2.027		IO						6.48
5.350	6.82	8.96	2.024		IO						6.47
5.367	6.80	8.93	2.021		IO						6.46
5.383	6.77	8.90	2.018		IO						6.46
5.400	6.74	8.87	2.015		IO						6.45
5.417	6.72	8.84	2.012		IO						6.45
5.433	6.69	8.81	2.009		O						6.44
5.450	6.66	8.78	2.006		O						6.44
5.467	6.64	8.76	2.003		O						6.43
5.483	6.61	8.73	2.000		IO						6.43
5.500	6.58	8.70	1.997		IO						6.42
5.517	6.56	8.67	1.995		IO						6.42
5.533	6.54	8.64	1.992		IO						6.41
5.550	6.52	8.61	1.989		IO						6.41
5.567	6.49	8.58	1.986		IO						6.40
5.583	6.47	8.55	1.983		IO						6.39
5.600	6.45	8.53	1.980		IO						6.39
5.617	6.43	8.50	1.977		IO						6.38
5.633	6.40	8.47	1.974		IO						6.38
5.650	6.38	8.44	1.972		IO						6.37
5.667	6.36	8.41	1.969		IO						6.37
5.683	6.34	8.39	1.966		IO						6.36
5.700	6.32	8.36	1.963		IO						6.36
5.717	6.30	8.33	1.960		IO						6.35
5.733	6.28	8.30	1.958		IO						6.35
5.750	6.27	8.27	1.955		IO						6.34
5.767	6.25	8.25	1.952		IO						6.34
5.783	6.23	8.22	1.949		IO						6.33
5.800	6.21	8.19	1.947		IO						6.33
5.817	6.19	8.17	1.944		IO						6.32
5.833	6.17	8.14	1.941		IO						6.32
5.850	6.15	8.11	1.938		IO						6.31
5.867	6.14	8.08	1.936		IO						6.31
5.883	6.12	8.06	1.933		IO						6.30
5.900	6.10	8.03	1.930		IO						6.30

5.917	6.09	8.01	1.928	IO					6.29
5.933	6.07	7.98	1.925	IO					6.29
5.950	6.05	7.95	1.922	IO					6.28
5.967	6.04	7.93	1.920	IO					6.28
5.983	6.02	7.90	1.917	IO					6.27
6.000	6.00	7.88	1.915	IO					6.27
6.017	5.99	7.85	1.912	IO					6.26
6.033	5.98	7.83	1.910	IO					6.26
6.050	5.96	7.80	1.907	IO					6.25
6.067	5.95	7.77	1.904	IO					6.25
6.083	5.93	7.75	1.902	IO					6.24
6.100	5.92	7.73	1.899	IO					6.24
6.117	5.90	7.70	1.897	IO					6.24
6.133	5.88	7.68	1.895	IO					6.23
6.150	5.86	7.65	1.892	IO					6.23
6.167	5.85	7.63	1.890	IO					6.22
6.183	3.58	7.59	1.886	IO					6.21
6.200	3.57	7.53	1.880	IO					6.20
6.217	3.57	7.48	1.875	IO					6.19
6.233	3.56	7.43	1.869	IO					6.18
6.250	3.56	7.37	1.864	IO					6.17
6.267	3.55	7.32	1.859	IO					6.16
6.283	3.55	7.27	1.854	IO					6.15
6.300	3.54	7.22	1.849	IO					6.15
6.317	3.54	7.17	1.844	IO					6.14
6.333	3.53	7.12	1.839	IO					6.13
6.350	3.53	7.07	1.834	IO					6.12
6.367	3.52	7.02	1.829	IO					6.11
6.383	3.52	6.98	1.824	IO					6.10
6.400	3.51	6.93	1.819	IO					6.09
6.417	3.51	6.88	1.815	IO					6.08
6.433	3.50	6.84	1.810	IO					6.07
6.450	3.50	6.79	1.805	IO					6.07
6.467	3.49	6.75	1.801	IO					6.06
6.483	3.49	6.70	1.796	IO					6.05
6.500	3.49	6.66	1.792	IO					6.04
6.517	3.48	6.62	1.788	IO					6.03
6.533	3.48	6.57	1.783	IO					6.02
6.550	3.47	6.53	1.779	IO					6.02
6.567	3.47	6.49	1.775	IO					6.01
6.583	3.46	6.45	1.771	IO					6.00
6.600	3.46	6.41	1.767	IO					5.99
6.617	3.45	6.37	1.763	IO					5.99
6.633	3.45	6.33	1.759	IO					5.98
6.650	3.44	6.29	1.755	IO					5.97
6.667	3.44	6.25	1.751	IO					5.96
6.683	3.43	6.21	1.747	IO					5.96
6.700	3.43	6.17	1.743	IO					5.95
6.717	3.42	6.14	1.739	IO					5.94
6.733	3.42	6.10	1.736	IO					5.94
6.750	3.41	6.06	1.732	IO					5.93
6.767	3.41	6.03	1.728	IO					5.92
6.783	3.40	5.99	1.725	IO					5.92
6.800	3.40	5.96	1.721	IO					5.91
6.817	3.40	5.92	1.718	IO					5.90
6.833	3.39	5.89	1.714	IO					5.90
6.850	3.39	5.85	1.711	IO					5.89
6.867	3.38	5.82	1.708	IO					5.88
6.883	3.38	5.79	1.704	IO					5.88
6.900	3.37	5.75	1.701	IO					5.87
6.917	3.37	5.72	1.698	IO					5.87
6.933	3.36	5.69	1.694	IO					5.86
6.950	3.36	5.66	1.691	IO					5.85
6.967	3.35	5.63	1.688	IO					5.85
6.983	3.35	5.60	1.685	IO					5.84
7.000	3.34	5.57	1.682	IO					5.84
7.017	3.34	5.54	1.679	IO					5.83
7.033	3.33	5.51	1.676	IO					5.83
7.050	3.33	5.48	1.673	IO					5.82
7.067	3.33	5.45	1.670	IO					5.81
7.083	3.32	5.42	1.667	IO					5.81

7.100	3.32	5.39	1.664	IO					5.80
7.117	3.31	5.36	1.661	IO					5.80
7.133	3.31	5.33	1.659	IO					5.79
7.150	3.30	5.31	1.656	IO					5.79
7.167	3.30	5.28	1.653	IO					5.78
7.183	3.29	5.25	1.650	IO					5.78
7.200	3.29	5.23	1.648	IO					5.77
7.217	3.28	5.20	1.645	IO					5.77
7.233	3.28	5.17	1.642	IO					5.76
7.250	3.27	5.15	1.640	IO					5.76
7.267	3.26	5.12	1.637	IO					5.75
7.283	3.26	5.10	1.635	IO					5.75
7.300	3.25	5.07	1.632	IO					5.74
7.317	3.25	5.05	1.630	IO					5.74
7.333	3.24	5.02	1.627	IO					5.74
7.350	3.24	5.00	1.625	IO					5.73
7.367	3.23	4.97	1.622	IO					5.73
7.383	3.22	4.95	1.620	IO					5.72
7.400	3.22	4.93	1.618	IO					5.72
7.417	3.21	4.90	1.615	IO					5.71
7.433	3.21	4.88	1.613	IO					5.71
7.450	3.20	4.86	1.611	IO					5.70
7.467	3.20	4.84	1.608	IO					5.70
7.483	3.19	4.81	1.606	IO					5.70
7.500	3.19	4.79	1.604	IO					5.69
7.517	3.18	4.77	1.602	IO					5.69
7.533	3.18	4.75	1.599	IO					5.68
7.550	3.17	4.73	1.597	IO					5.68
7.567	3.16	4.70	1.595	IO					5.68
7.583	3.16	4.68	1.593	IO					5.67
7.600	3.15	4.66	1.591	IO					5.67
7.617	3.15	4.64	1.589	IO					5.66
7.633	3.14	4.62	1.587	IO					5.66
7.650	3.14	4.60	1.585	IO					5.66
7.667	3.13	4.58	1.583	IO					5.65
7.683	3.13	4.56	1.581	IO					5.65
7.700	3.12	4.54	1.579	IO					5.65
7.717	3.12	4.52	1.577	IO					5.64
7.733	3.11	4.50	1.575	IO					5.64
7.750	3.10	4.49	1.573	IO					5.64
7.767	3.10	4.47	1.571	IO					5.63
7.783	3.09	4.45	1.569	IO					5.63
7.800	3.09	4.43	1.567	IO					5.62
7.817	3.08	4.41	1.566	IO					5.62
7.833	3.08	4.39	1.564	IO					5.62
7.850	3.07	4.38	1.562	IO					5.61
7.867	3.07	4.36	1.560	IO					5.61
7.883	3.06	4.34	1.558	IO					5.61
7.900	3.06	4.32	1.557	IO					5.60
7.917	3.05	4.31	1.555	IO					5.60
7.933	3.05	4.29	1.553	IO					5.60
7.950	3.04	4.27	1.552	IO					5.60
7.967	3.04	4.25	1.550	IO					5.59
7.983	3.03	4.24	1.548	IO					5.59
8.000	3.03	4.22	1.547	IO					5.59
8.017	3.02	4.21	1.545	IO					5.58
8.033	3.02	4.19	1.543	IO					5.58
8.050	3.01	4.17	1.542	IO					5.58
8.067	3.01	4.16	1.540	IO					5.57
8.083	3.00	4.14	1.538	IO					5.57
8.100	2.99	4.13	1.537	IO					5.57
8.117	2.99	4.11	1.535	IO					5.57
8.133	2.98	4.10	1.534	IO					5.56
8.150	2.98	4.08	1.532	IO					5.56
8.167	2.97	4.07	1.531	IO					5.56
8.183	2.97	4.05	1.529	IO					5.55
8.200	2.96	4.04	1.528	IO					5.55
8.217	2.96	4.02	1.526	IO					5.55
8.233	2.95	4.01	1.525	IO					5.55
8.250	2.95	3.99	1.523	IO					5.54
8.267	2.94	3.98	1.522	IO					5.54

8.283	2.94	3.96	1.521	10					5.54
8.300	2.93	3.95	1.519	10					5.54
8.317	2.93	3.94	1.518	10					5.53
8.333	2.92	3.92	1.516	10					5.53
8.350	2.92	3.91	1.515	10					5.53
8.367	2.91	3.90	1.514	10					5.53
8.383	2.91	3.88	1.512	10					5.52
8.400	2.90	3.87	1.511	10					5.52
8.417	2.90	3.86	1.510	10					5.52
8.433	2.89	3.84	1.508	10					5.52
8.450	2.89	3.83	1.507	10					5.51
8.467	2.88	3.82	1.506	10					5.51
8.483	2.88	3.80	1.504	10					5.51
8.500	2.87	3.79	1.503	10					5.51
8.517	2.87	3.78	1.502	10					5.50
8.533	2.86	3.77	1.501	10					5.50
8.550	2.86	3.76	1.499	10					5.50
8.567	2.85	3.75	1.498	10					5.50
8.583	2.85	3.75	1.497	10					5.49
8.600	2.84	3.74	1.496	10					5.49
8.617	2.84	3.74	1.495	10					5.49
8.633	2.83	3.73	1.493	10					5.49
8.650	2.83	3.73	1.492	10					5.48
8.667	2.82	3.72	1.491	10					5.48
8.683	2.82	3.71	1.490	10					5.48
8.700	2.81	3.71	1.488	10					5.48
8.717	2.81	3.70	1.487	10					5.47
8.733	2.81	3.70	1.486	10					5.47
8.750	2.80	3.69	1.485	10					5.47
8.767	2.80	3.69	1.483	10					5.47
8.783	2.79	3.68	1.482	10					5.46
8.800	2.79	3.68	1.481	10					5.46
8.817	2.78	3.67	1.480	10					5.46
8.833	2.78	3.67	1.479	10					5.46
8.850	2.77	3.66	1.477	10					5.45
8.867	2.77	3.66	1.476	10					5.45
8.883	2.76	3.65	1.475	10					5.45
8.900	2.76	3.65	1.474	10					5.45
8.917	2.75	3.64	1.472	10					5.44
8.933	2.75	3.64	1.471	10					5.44
8.950	2.75	3.63	1.470	10					5.44
8.967	2.74	3.62	1.469	10					5.44
8.983	2.74	3.62	1.468	10					5.43
9.000	2.73	3.61	1.466	10					5.43
9.017	2.73	3.61	1.465	10					5.43
9.033	2.72	3.60	1.464	10					5.43
9.050	2.72	3.60	1.463	10					5.42
9.067	2.71	3.59	1.461	10					5.42
9.083	2.71	3.59	1.460	10					5.42
9.100	2.70	3.58	1.459	10					5.42
9.117	2.70	3.58	1.458	10					5.41
9.133	2.70	3.57	1.457	10					5.41
9.150	2.69	3.57	1.455	10					5.41
9.167	2.69	3.56	1.454	10					5.41
9.183	2.68	3.56	1.453	10					5.40
9.200	2.68	3.55	1.452	10					5.40
9.217	2.67	3.55	1.451	10					5.40
9.233	2.67	3.54	1.449	10					5.40
9.250	2.66	3.54	1.448	10					5.39
9.267	2.66	3.53	1.447	10					5.39
9.283	2.66	3.53	1.446	10					5.39
9.300	2.65	3.52	1.445	10					5.39
9.317	2.65	3.52	1.443	10					5.38
9.333	2.64	3.51	1.442	10					5.38
9.350	2.64	3.50	1.441	10					5.38
9.367	2.63	3.50	1.440	10					5.38
9.383	2.63	3.49	1.439	10					5.37
9.400	2.63	3.49	1.437	10					5.37
9.417	2.62	3.48	1.436	10					5.37
9.433	2.62	3.48	1.435	10					5.37
9.450	2.61	3.47	1.434	10					5.37

9.467	2.61	3.47	1.433	0					5.36
9.483	2.60	3.46	1.431	0					5.36
9.500	2.60	3.46	1.430	0					5.36
9.517	2.60	3.45	1.429	0					5.36
9.533	2.59	3.45	1.428	0					5.35
9.550	2.59	3.44	1.427	0					5.35
9.567	2.58	3.44	1.426	0					5.35
9.583	2.58	3.43	1.424	0					5.35
9.600	2.57	3.43	1.423	0					5.34
9.617	2.57	3.42	1.422	0					5.34
9.633	2.57	3.42	1.421	0					5.34
9.650	2.56	3.41	1.420	0					5.34
9.667	2.56	3.41	1.419	0					5.33
9.683	2.55	3.40	1.417	0					5.33
9.700	2.55	3.40	1.416	0					5.33
9.717	2.54	3.39	1.415	0					5.33
9.733	2.54	3.39	1.414	0					5.32
9.750	2.54	3.38	1.413	0					5.32
9.767	2.53	3.38	1.412	0					5.32
9.783	2.53	3.37	1.410	0					5.32
9.800	2.52	3.37	1.409	0					5.31
9.817	2.52	3.36	1.408	0					5.31
9.833	2.51	3.36	1.407	0					5.31
9.850	2.51	3.35	1.406	0					5.31
9.867	2.51	3.35	1.405	0					5.31
9.883	2.50	3.34	1.403	0					5.30
9.900	2.50	3.34	1.402	0					5.30
9.917	2.49	3.33	1.401	0					5.30
9.933	2.49	3.33	1.400	0					5.30
9.950	2.49	3.32	1.399	0					5.29
9.967	2.48	3.32	1.398	0					5.29
9.983	2.48	3.31	1.396	0					5.29
10.000	2.47	3.31	1.395	0					5.29
10.017	2.47	3.30	1.394	0					5.28
10.033	2.47	3.30	1.393	0					5.28
10.050	2.46	3.29	1.392	0					5.28
10.067	2.46	3.29	1.391	0					5.28
10.083	2.45	3.28	1.390	0					5.27
10.100	2.45	3.28	1.388	0					5.27
10.117	2.45	3.27	1.387	0					5.27
10.133	2.44	3.27	1.386	0					5.27
10.150	2.44	3.26	1.385	0					5.27
10.167	2.43	3.26	1.384	0					5.26
10.183	2.43	3.25	1.383	0					5.26
10.200	2.43	3.25	1.382	0					5.26
10.217	2.42	3.24	1.381	0					5.26
10.233	2.42	3.24	1.379	0					5.25
10.250	2.41	3.23	1.378	0					5.25
10.267	2.41	3.23	1.377	0					5.25
10.283	2.41	3.22	1.376	0					5.25
10.300	2.40	3.22	1.375	0					5.24
10.317	2.40	3.21	1.374	0					5.24
10.333	2.39	3.21	1.373	0					5.24
10.350	2.39	3.20	1.371	0					5.24
10.367	2.39	3.20	1.370	0					5.24
10.383	2.38	3.19	1.369	0					5.23
10.400	2.38	3.19	1.368	0					5.23
10.417	2.37	3.18	1.367	0					5.23
10.433	2.37	3.18	1.366	0					5.23
10.450	2.37	3.17	1.365	0					5.22
10.467	2.36	3.17	1.364	0					5.22
10.483	2.36	3.17	1.363	0					5.22
10.500	2.35	3.16	1.361	0					5.22
10.517	2.35	3.16	1.360	0					5.21
10.533	2.35	3.15	1.359	0					5.21
10.550	2.34	3.15	1.358	0					5.21
10.567	2.34	3.14	1.357	0					5.21
10.583	2.33	3.14	1.356	0					5.21
10.600	2.33	3.13	1.355	0					5.20
10.617	2.33	3.13	1.354	0					5.20
10.633	2.32	3.12	1.353	0					5.20

10.650	2.32	3.12	1.351	IO					5.20
10.667	2.32	3.11	1.350	IO					5.19
10.683	2.31	3.11	1.349	IO					5.19
10.700	2.31	3.10	1.348	IO					5.19
10.717	2.30	3.10	1.347	IO					5.19
10.733	2.30	3.09	1.346	IO					5.19
10.750	2.30	3.09	1.345	IO					5.18
10.767	2.29	3.08	1.344	IO					5.18
10.783	2.29	3.08	1.343	IO					5.18
10.800	2.29	3.07	1.342	IO					5.18
10.817	2.28	3.07	1.341	IO					5.17
10.833	2.28	3.07	1.339	IO					5.17
10.850	2.27	3.06	1.338	IO					5.17
10.867	2.27	3.06	1.337	IO					5.17
10.883	2.27	3.05	1.336	IO					5.17
10.900	2.26	3.05	1.335	IO					5.16
10.917	2.26	3.04	1.334	IO					5.16
10.933	2.26	3.04	1.333	IO					5.16
10.950	2.25	3.03	1.332	IO					5.16
10.967	2.25	3.03	1.331	IO					5.15
10.983	2.24	3.02	1.330	IO					5.15
11.000	2.24	3.02	1.329	IO					5.15
11.017	2.24	3.01	1.328	IO					5.15
11.033	2.23	3.01	1.327	IO					5.15
11.050	2.23	3.00	1.325	IO					5.14
11.067	2.23	3.00	1.324	IO					5.14
11.083	2.22	3.00	1.323	IO					5.14
11.100	2.22	2.99	1.322	IO					5.14
11.117	2.21	2.99	1.321	IO					5.14
11.133	2.21	2.98	1.320	IO					5.13
11.150	2.21	2.98	1.319	IO					5.13
11.167	2.20	2.97	1.318	IO					5.13
11.183	2.20	2.97	1.317	IO					5.13
11.200	2.20	2.96	1.316	IO					5.12
11.217	2.19	2.96	1.315	IO					5.12
11.233	2.19	2.95	1.314	IO					5.12
11.250	2.18	2.95	1.313	IO					5.12
11.267	2.18	2.95	1.312	IO					5.12
11.283	2.18	2.94	1.311	IO					5.11
11.300	2.17	2.94	1.310	IO					5.11
11.317	2.17	2.93	1.309	IO					5.11
11.333	2.16	2.93	1.307	IO					5.11
11.350	2.16	2.92	1.306	IO					5.10
11.367	2.16	2.92	1.305	IO					5.10
11.383	2.15	2.91	1.304	IO					5.10
11.400	2.15	2.91	1.303	IO					5.10
11.417	2.14	2.90	1.302	IO					5.10
11.433	2.14	2.90	1.301	IO					5.09
11.450	2.14	2.90	1.300	IO					5.09
11.467	2.13	2.89	1.299	IO					5.09
11.483	2.13	2.89	1.298	IO					5.09
11.500	2.12	2.88	1.297	IO					5.09
11.517	2.12	2.88	1.296	IO					5.08
11.533	2.12	2.87	1.295	IO					5.08
11.550	2.11	2.87	1.294	IO					5.08
11.567	2.11	2.86	1.293	IO					5.08
11.583	2.10	2.86	1.292	IO					5.08
11.600	2.10	2.85	1.291	IO					5.07
11.617	2.10	2.85	1.290	IO					5.07
11.633	2.09	2.85	1.289	IO					5.07
11.650	2.09	2.84	1.288	IO					5.07
11.667	2.09	2.84	1.287	IO					5.06
11.683	2.08	2.83	1.286	IO					5.06
11.700	2.08	2.83	1.285	IO					5.06
11.717	2.07	2.82	1.284	IO					5.06
11.733	2.07	2.82	1.282	IO					5.06
11.750	2.07	2.81	1.281	IO					5.05
11.767	2.06	2.81	1.280	IO					5.05
11.783	2.06	2.81	1.279	IO					5.05
11.800	2.06	2.80	1.278	IO					5.05
11.817	2.05	2.80	1.277	IO					5.05

11.833	2.05	2.79	1.276	IO					5.04
11.850	2.04	2.79	1.275	IO					5.04
11.867	2.04	2.78	1.274	IO					5.04
11.883	2.04	2.78	1.273	IO					5.04
11.900	2.03	2.77	1.272	IO					5.04
11.917	2.03	2.77	1.271	IO					5.03
11.933	2.03	2.77	1.270	IO					5.03
11.950	2.02	2.76	1.269	IO					5.03
11.967	2.02	2.76	1.268	IO					5.03
11.983	2.01	2.75	1.267	IO					5.02
12.000	2.01	2.75	1.266	IO					5.02
12.017	2.01	2.74	1.265	IO					5.02
12.033	2.00	2.74	1.264	IO					5.02
12.050	2.00	2.73	1.263	IO					5.02
12.067	2.00	2.73	1.262	IO					5.01
12.083	1.99	2.73	1.261	IO					5.01
12.100	1.99	2.72	1.260	IO					5.01
12.117	1.98	2.72	1.259	IO					5.01
12.133	1.98	2.71	1.258	IO					5.01
12.150	1.98	2.71	1.257	IO					5.00
12.167	1.97	2.70	1.256	IO					5.00
12.183	1.97	2.70	1.255	IO					5.00
12.200	1.97	2.70	1.254	IO					5.00
12.217	1.96	2.69	1.253	IO					5.00
12.233	1.96	2.69	1.252	IO					4.99
12.250	1.96	2.68	1.251	IO					4.99
12.267	1.95	2.68	1.250	IO					4.99
12.283	1.95	2.67	1.249	IO					4.99
12.300	1.95	2.67	1.248	IO					4.99
12.317	1.94	2.67	1.247	IO					4.98
12.333	1.94	2.66	1.246	IO					4.98
12.350	1.93	2.66	1.245	IO					4.98
12.367	1.93	2.65	1.244	IO					4.98
12.383	1.93	2.65	1.243	IO					4.98
12.400	1.92	2.64	1.242	IO					4.97
12.417	1.92	2.64	1.241	IO					4.97
12.433	1.92	2.64	1.240	IO					4.97
12.450	1.91	2.63	1.239	IO					4.97
12.467	1.91	2.63	1.238	IO					4.97
12.483	1.91	2.62	1.237	IO					4.96
12.500	1.90	2.62	1.236	IO					4.96
12.517	1.90	2.61	1.235	IO					4.96
12.533	1.90	2.61	1.234	IO					4.96
12.550	1.89	2.61	1.233	IO					4.96
12.567	1.89	2.60	1.232	IO					4.95
12.583	1.89	2.60	1.231	IO					4.95
12.600	1.88	2.59	1.230	IO					4.95
12.617	1.88	2.59	1.229	IO					4.95
12.633	1.87	2.58	1.228	IO					4.95
12.650	1.87	2.58	1.227	IO					4.94
12.667	1.87	2.58	1.226	IO					4.94
12.683	1.86	2.57	1.225	IO					4.94
12.700	1.86	2.57	1.224	IO					4.94
12.717	1.86	2.56	1.223	IO					4.94
12.733	1.85	2.56	1.222	IO					4.93
12.750	1.85	2.55	1.221	IO					4.93
12.767	1.85	2.55	1.220	IO					4.93
12.783	1.84	2.55	1.219	IO					4.93
12.800	1.84	2.54	1.219	IO					4.93
12.817	1.84	2.54	1.218	IO					4.92
12.833	1.83	2.53	1.217	IO					4.92
12.850	1.83	2.53	1.216	IO					4.92
12.867	1.83	2.53	1.215	IO					4.92
12.883	1.82	2.52	1.214	IO					4.92
12.900	1.82	2.52	1.213	IO					4.91
12.917	1.82	2.51	1.212	IO					4.91
12.933	1.81	2.51	1.211	IO					4.91
12.950	1.81	2.50	1.210	IO					4.91
12.967	1.81	2.50	1.209	IO					4.91
12.983	1.80	2.50	1.208	IO					4.90
13.000	1.80	2.49	1.207	IO					4.90

13.017	1.79	2.49	1.206	IO					4.90
13.033	1.78	2.48	1.205	IO					4.90
13.050	1.77	2.48	1.204	IO					4.90
13.067	1.76	2.48	1.203	IO					4.89
13.083	1.75	2.47	1.202	IO					4.89
13.100	1.74	2.47	1.201	IO					4.89
13.117	1.73	2.46	1.200	IO					4.89
13.133	1.72	2.46	1.199	IO					4.89
13.150	1.70	2.45	1.198	IO					4.88
13.167	1.69	2.45	1.197	IO					4.88
13.183	1.68	2.44	1.196	IO					4.88
13.200	1.67	2.44	1.195	IO					4.88
13.217	1.66	2.44	1.194	IO					4.88
13.233	1.65	2.43	1.193	IO					4.87
13.250	1.64	2.43	1.192	IO					4.87
13.267	1.63	2.42	1.191	IO					4.87
13.283	1.62	2.42	1.190	IO					4.87
13.300	1.61	2.41	1.188	IO					4.86
13.317	1.60	2.41	1.187	IO					4.86
13.333	1.59	2.40	1.186	IO					4.86
13.350	1.58	2.40	1.185	IO					4.86
13.367	1.57	2.39	1.184	IO					4.86
13.383	1.56	2.39	1.183	IO					4.85
13.400	1.55	2.38	1.182	IO					4.85
13.417	1.54	2.38	1.181	IO					4.85
13.433	1.53	2.37	1.179	IO					4.85
13.450	1.52	2.37	1.178	IO					4.84
13.467	1.52	2.36	1.177	IO					4.84
13.483	1.51	2.36	1.176	IO					4.84
13.500	1.50	2.35	1.175	IO					4.84
13.517	1.49	2.35	1.174	IO					4.83
13.533	1.48	2.34	1.172	IO					4.83
13.550	1.47	2.34	1.171	IO					4.83
13.567	1.46	2.33	1.170	IO					4.83
13.583	1.45	2.33	1.169	IO					4.82
13.600	1.44	2.32	1.168	IO					4.82
13.617	1.43	2.32	1.166	IO					4.82
13.633	1.42	2.31	1.165	IO					4.82
13.650	1.42	2.31	1.164	IO					4.81
13.667	1.41	2.30	1.163	IO					4.81
13.683	1.40	2.30	1.161	IO					4.81
13.700	1.39	2.29	1.160	IO					4.81
13.717	1.38	2.28	1.159	IO					4.80
13.733	1.37	2.28	1.158	IO					4.80
13.750	1.36	2.27	1.156	IO					4.80
13.767	1.36	2.27	1.155	IO					4.80
13.783	1.35	2.26	1.154	IO					4.79
13.800	1.34	2.26	1.153	IO					4.79
13.817	1.33	2.25	1.151	IO					4.79
13.833	1.32	2.25	1.150	IO					4.79
13.850	1.31	2.24	1.149	IO					4.78
13.867	1.31	2.24	1.148	IO					4.78
13.883	1.30	2.23	1.146	IO					4.78
13.900	1.29	2.22	1.145	IO					4.78
13.917	1.28	2.22	1.144	IO					4.77
13.933	1.27	2.21	1.142	IO					4.77
13.950	1.27	2.21	1.141	IO					4.77
13.967	1.26	2.20	1.140	O					4.77
13.983	1.25	2.20	1.139	O					4.76
14.000	1.24	2.19	1.137	O					4.76
14.017	1.23	2.18	1.136	O					4.76
14.033	1.23	2.18	1.135	O					4.75
14.050	1.22	2.17	1.133	O					4.75
14.067	1.21	2.17	1.132	O					4.75
14.083	1.20	2.16	1.131	O					4.75
14.100	1.20	2.16	1.129	O					4.74
14.117	1.19	2.15	1.128	O					4.74
14.133	1.18	2.15	1.127	O					4.74
14.150	1.18	2.14	1.125	O					4.74
14.167	1.17	2.13	1.124	O					4.73
14.183	1.16	2.13	1.123	O					4.73

14.200	1.15	2.12	1.121	0					4.73
14.217	1.15	2.12	1.120	0					4.72
14.233	1.14	2.11	1.119	0					4.72
14.250	1.13	2.10	1.117	0					4.72
14.267	1.13	2.10	1.116	0					4.72
14.283	1.12	2.09	1.115	0					4.71
14.300	1.11	2.09	1.113	0					4.71
14.317	1.10	2.08	1.112	0					4.71
14.333	1.10	2.08	1.111	0					4.71
14.350	1.09	2.07	1.109	0					4.70
14.367	1.08	2.06	1.108	0					4.70
14.383	1.08	2.06	1.107	0					4.70
14.400	1.07	2.05	1.105	0					4.69
14.417	1.06	2.05	1.104	0					4.69
14.433	1.06	2.04	1.103	0					4.69
14.450	1.05	2.03	1.101	0					4.69
14.467	1.04	2.03	1.100	0					4.68
14.483	1.04	2.02	1.099	0					4.68
14.500	1.03	2.02	1.097	0					4.68
14.517	1.03	2.01	1.096	0					4.68
14.533	1.02	2.01	1.094	0					4.67
14.550	1.01	2.00	1.093	0					4.67
14.567	1.01	1.99	1.092	0					4.67
14.583	1.00	1.99	1.090	0					4.66
14.600	0.99	1.98	1.089	0					4.66
14.617	0.99	1.98	1.088	0					4.66
14.633	0.98	1.97	1.086	0					4.66
14.650	0.98	1.96	1.085	0					4.65
14.667	0.97	1.96	1.084	0					4.65
14.683	0.96	1.95	1.082	0					4.65
14.700	0.96	1.95	1.081	0					4.64
14.717	0.95	1.94	1.079	0					4.64
14.733	0.95	1.93	1.078	0					4.64
14.750	0.94	1.93	1.077	0					4.64
14.767	0.93	1.92	1.075	0					4.63
14.783	0.93	1.92	1.074	0					4.63
14.800	0.92	1.91	1.073	0					4.63
14.817	0.92	1.91	1.071	0					4.63
14.833	0.91	1.90	1.070	0					4.62
14.850	0.91	1.89	1.069	0					4.62
14.867	0.90	1.89	1.067	0					4.62
14.883	0.89	1.88	1.066	0					4.61
14.900	0.89	1.88	1.065	0					4.61
14.917	0.88	1.87	1.063	0					4.61
14.933	0.88	1.86	1.062	0					4.61
14.950	0.87	1.86	1.060	0					4.60
14.967	0.87	1.85	1.059	0					4.60
14.983	0.86	1.85	1.058	0					4.60
15.000	0.86	1.84	1.056	0					4.59
15.017	0.85	1.83	1.055	0					4.59
15.033	0.85	1.83	1.054	0					4.59
15.050	0.84	1.82	1.052	0					4.59
15.067	0.84	1.82	1.051	0					4.58
15.083	0.83	1.81	1.050	0					4.58
15.100	0.83	1.81	1.048	0					4.58
15.117	0.82	1.80	1.047	0					4.58
15.133	0.82	1.79	1.046	0					4.57
15.150	0.81	1.79	1.044	0					4.57
15.167	0.81	1.78	1.043	0					4.57
15.183	0.80	1.78	1.042	0					4.56
15.200	0.80	1.77	1.040	0					4.56
15.217	0.79	1.76	1.039	0					4.56
15.233	0.79	1.76	1.037	0					4.56
15.250	0.78	1.75	1.036	0					4.55
15.267	0.78	1.75	1.035	0					4.55
15.283	0.77	1.74	1.033	0					4.55
15.300	0.77	1.74	1.032	0					4.55
15.317	0.76	1.73	1.031	0					4.54
15.333	0.76	1.72	1.029	0					4.54
15.350	0.75	1.72	1.028	0					4.54
15.367	0.75	1.71	1.027	0					4.53

15.383	0.74	1.71	1.025	0					4.53
15.400	0.74	1.70	1.024	0					4.53
15.417	0.73	1.70	1.023	0					4.53
15.433	0.73	1.69	1.021	0					4.52
15.450	0.72	1.68	1.020	0					4.52
15.467	0.72	1.68	1.019	0					4.52
15.483	0.72	1.67	1.018	0					4.52
15.500	0.71	1.67	1.016	0					4.51
15.517	0.71	1.66	1.015	0					4.51
15.533	0.70	1.66	1.014	0					4.51
15.550	0.70	1.65	1.012	0					4.50
15.567	0.69	1.64	1.011	0					4.50
15.583	0.69	1.64	1.010	0					4.50
15.600	0.69	1.64	1.008	0					4.50
15.617	0.68	1.64	1.007	0					4.49
15.633	0.68	1.64	1.006	0					4.49
15.650	0.67	1.64	1.004	0					4.49
15.667	0.67	1.64	1.003	0					4.48
15.683	0.66	1.64	1.002	0					4.48
15.700	0.66	1.64	1.000	0					4.48
15.717	0.66	1.64	0.999	0					4.48
15.733	0.65	1.64	0.998	0					4.47
15.750	0.65	1.64	0.996	0					4.47
15.767	0.64	1.64	0.995	0					4.47
15.783	0.64	1.64	0.994	0					4.46
15.800	0.64	1.63	0.992	0					4.46
15.817	0.63	1.63	0.991	0					4.46
15.833	0.63	1.63	0.989	0					4.45
15.850	0.62	1.63	0.988	0					4.45
15.867	0.62	1.63	0.987	0					4.45
15.883	0.62	1.63	0.985	0					4.44
15.900	0.61	1.63	0.984	0					4.44
15.917	0.61	1.63	0.982	0					4.44
15.933	0.61	1.63	0.981	0					4.43
15.950	0.60	1.63	0.980	0					4.43
15.967	0.60	1.63	0.978	0					4.43
15.983	0.59	1.63	0.977	0					4.42
16.000	0.59	1.63	0.975	0					4.42
16.017	0.59	1.63	0.974	0					4.42
16.033	0.58	1.63	0.972	0					4.41
16.050	0.58	1.63	0.971	0					4.41
16.067	0.58	1.63	0.970	0					4.41
16.083	0.57	1.63	0.968	0					4.40
16.100	0.57	1.63	0.967	0					4.40
16.117	0.57	1.63	0.965	0					4.40
16.133	0.56	1.63	0.964	0					4.39
16.150	0.56	1.63	0.962	0					4.39
16.167	0.56	1.63	0.961	0					4.39
16.183	0.55	1.63	0.959	0					4.38
16.200	0.55	1.62	0.958	0					4.38
16.217	0.54	1.62	0.956	0					4.38
16.233	0.54	1.62	0.955	0					4.37
16.250	0.54	1.62	0.953	0					4.37
16.267	0.53	1.62	0.952	0					4.37
16.283	0.53	1.62	0.950	0					4.36
16.300	0.53	1.62	0.949	0					4.36
16.317	0.52	1.62	0.947	0					4.36
16.333	0.52	1.62	0.946	0					4.35
16.350	0.52	1.62	0.944	0					4.35
16.367	0.52	1.62	0.943	0					4.35
16.383	0.51	1.62	0.941	0					4.34
16.400	0.51	1.62	0.940	0					4.34
16.417	0.51	1.62	0.938	0					4.34
16.433	0.50	1.62	0.937	0					4.33
16.450	0.50	1.62	0.935	0					4.33
16.467	0.50	1.62	0.934	0					4.33
16.483	0.49	1.62	0.932	0					4.32
16.500	0.49	1.62	0.931	0					4.32
16.517	0.49	1.62	0.929	0					4.32
16.533	0.48	1.62	0.927	0					4.31
16.550	0.48	1.62	0.926	0					4.31

16.567	0.48	1.61	0.924	0					4.31
16.583	0.48	1.61	0.923	0					4.30
16.600	0.47	1.61	0.921	0					4.30
16.617	0.47	1.61	0.920	0					4.29
16.633	0.47	1.61	0.918	0					4.29
16.650	0.46	1.61	0.916	0					4.29
16.667	0.46	1.61	0.915	0					4.28
16.683	0.46	1.61	0.913	0					4.28
16.700	0.46	1.61	0.912	0					4.28
16.717	0.45	1.61	0.910	0					4.27
16.733	0.45	1.61	0.908	0					4.27
16.750	0.45	1.61	0.907	0					4.27
16.767	0.44	1.61	0.905	0					4.26
16.783	0.44	1.61	0.904	0					4.26
16.800	0.44	1.61	0.902	0					4.25
16.817	0.44	1.61	0.900	0					4.25
16.833	0.43	1.61	0.899	0					4.25
16.850	0.43	1.61	0.897	0					4.24
16.867	0.43	1.61	0.896	0					4.24
16.883	0.43	1.61	0.894	0					4.24
16.900	0.42	1.61	0.892	0					4.23
16.917	0.42	1.60	0.891	0					4.23
16.933	0.42	1.60	0.889	0					4.23
16.950	0.41	1.60	0.887	0					4.22
16.967	0.41	1.60	0.886	0					4.22
16.983	0.41	1.60	0.884	0					4.21
17.000	0.41	1.60	0.883	0					4.21
17.017	0.40	1.60	0.881	0					4.21
17.033	0.40	1.60	0.879	0					4.20
17.050	0.40	1.60	0.878	0					4.20
17.067	0.40	1.60	0.876	0					4.20
17.083	0.39	1.60	0.874	0					4.19
17.100	0.39	1.60	0.873	0					4.19
17.117	0.39	1.60	0.871	0					4.18
17.133	0.39	1.60	0.869	0					4.18
17.150	0.39	1.60	0.868	0					4.18
17.167	0.38	1.60	0.866	0					4.17
17.183	0.38	1.60	0.864	0					4.17
17.200	0.38	1.60	0.863	0					4.16
17.217	0.38	1.60	0.861	0					4.16
17.233	0.37	1.60	0.859	0					4.16
17.250	0.37	1.59	0.858	0					4.15
17.267	0.37	1.59	0.856	0					4.15
17.283	0.37	1.59	0.854	0					4.15
17.300	0.36	1.59	0.852	0					4.14
17.317	0.36	1.59	0.851	0					4.14
17.333	0.36	1.59	0.849	0					4.13
17.350	0.36	1.59	0.847	0					4.13
17.367	0.36	1.59	0.846	0					4.13
17.383	0.35	1.59	0.844	0					4.12
17.400	0.35	1.59	0.842	0					4.12
17.417	0.35	1.59	0.841	0					4.11
17.433	0.35	1.59	0.839	0					4.11
17.450	0.34	1.59	0.837	0					4.11
17.467	0.34	1.59	0.835	0					4.10
17.483	0.34	1.59	0.834	0					4.10
17.500	0.34	1.59	0.832	0					4.10
17.517	0.34	1.59	0.830	0					4.09
17.533	0.33	1.59	0.829	0					4.09
17.550	0.33	1.59	0.827	0					4.08
17.567	0.33	1.59	0.825	0					4.08
17.583	0.33	1.58	0.823	0					4.08
17.600	0.33	1.58	0.822	0					4.07
17.617	0.32	1.58	0.820	0					4.07
17.633	0.32	1.58	0.818	0					4.06
17.650	0.32	1.58	0.816	0					4.06
17.667	0.32	1.58	0.815	0					4.06
17.683	0.32	1.58	0.813	0					4.05
17.700	0.31	1.58	0.811	0					4.05
17.717	0.31	1.58	0.809	0					4.04
17.733	0.31	1.58	0.808	0					4.04

17.750	0.31	1.58	0.806	0					4.04
17.767	0.31	1.58	0.804	0					4.03
17.783	0.30	1.58	0.802	0					4.03
17.800	0.30	1.58	0.801	0					4.02
17.817	0.30	1.58	0.799	0					4.02
17.833	0.30	1.58	0.797	0					4.02
17.850	0.30	1.58	0.795	0					4.01
17.867	0.29	1.58	0.794	0					4.01
17.883	0.29	1.58	0.792	0					4.00
17.900	0.29	1.58	0.790	0					4.00
17.917	0.29	1.57	0.788	0					4.00
17.933	0.29	1.57	0.787	0					3.99
17.950	0.29	1.57	0.785	0					3.99
17.967	0.28	1.57	0.783	0					3.98
17.983	0.28	1.57	0.781	0					3.98
18.000	0.28	1.57	0.779	0					3.98
18.017	0.28	1.57	0.778	0					3.97
18.033	0.28	1.57	0.776	0					3.97
18.050	0.28	1.57	0.774	0					3.96
18.067	0.27	1.57	0.772	0					3.96
18.083	0.27	1.57	0.771	0					3.96
18.100	0.27	1.57	0.769	0					3.95
18.117	0.27	1.57	0.767	0					3.95
18.133	0.27	1.57	0.765	0					3.94
18.150	0.27	1.57	0.763	0					3.94
18.167	0.26	1.57	0.762	0					3.94
18.183	0.26	1.57	0.760	0					3.93
18.200	0.26	1.57	0.758	0					3.93
18.217	0.26	1.57	0.756	0					3.92
18.233	0.26	1.56	0.754	0					3.92
18.250	0.26	1.56	0.753	0					3.91
18.267	0.25	1.56	0.751	0					3.91
18.283	0.25	1.56	0.749	0					3.91
18.300	0.25	1.56	0.747	0					3.90
18.317	0.25	1.56	0.745	0					3.90
18.333	0.25	1.56	0.744	0					3.89
18.350	0.25	1.56	0.742	0					3.89
18.367	0.24	1.56	0.740	0					3.89
18.383	0.24	1.56	0.738	0					3.88
18.400	0.24	1.56	0.736	0					3.88
18.417	0.24	1.56	0.735	0					3.87
18.433	0.24	1.56	0.733	0					3.87
18.450	0.24	1.56	0.731	0					3.87
18.467	0.24	1.56	0.729	0					3.86
18.483	0.23	1.56	0.727	0					3.86
18.500	0.23	1.56	0.725	0					3.85
18.517	0.23	1.56	0.724	0					3.85
18.533	0.23	1.55	0.722	0					3.84
18.550	0.23	1.55	0.720	0					3.84
18.567	0.23	1.55	0.718	0					3.84
18.583	0.23	1.55	0.716	0					3.83
18.600	0.22	1.55	0.714	0					3.83
18.617	0.22	1.55	0.713	0					3.82
18.633	0.22	1.55	0.711	0					3.82
18.650	0.22	1.55	0.709	0					3.82
18.667	0.22	1.55	0.707	0					3.81
18.683	0.22	1.55	0.705	0					3.81
18.700	0.22	1.55	0.703	0					3.80
18.717	0.22	1.55	0.702	0					3.80
18.733	0.21	1.55	0.700	0					3.79
18.750	0.21	1.55	0.698	0					3.79
18.767	0.21	1.55	0.696	0					3.79
18.783	0.21	1.55	0.694	0					3.78
18.800	0.21	1.55	0.692	0					3.78
18.817	0.21	1.55	0.691	0					3.77
18.833	0.21	1.55	0.689	0					3.77
18.850	0.20	1.54	0.687	0					3.77
18.867	0.20	1.54	0.685	0					3.76
18.883	0.20	1.54	0.683	0					3.76
18.900	0.20	1.54	0.681	0					3.75
18.917	0.20	1.54	0.680	0					3.75

18.933	0.20	1.54	0.678	0					3.74
18.950	0.20	1.54	0.676	0					3.74
18.967	0.20	1.54	0.674	0					3.74
18.983	0.19	1.54	0.672	0					3.73
19.000	0.19	1.54	0.670	0					3.73
19.017	0.19	1.54	0.668	0					3.72
19.033	0.19	1.54	0.667	0					3.72
19.050	0.19	1.54	0.665	0					3.72
19.067	0.19	1.54	0.663	0					3.71
19.083	0.19	1.54	0.661	0					3.71
19.100	0.19	1.54	0.659	0					3.70
19.117	0.19	1.54	0.657	0					3.70
19.133	0.18	1.54	0.655	0					3.69
19.150	0.18	1.53	0.654	0					3.69
19.167	0.18	1.53	0.652	0					3.69
19.183	0.18	1.53	0.650	0					3.68
19.200	0.18	1.53	0.648	0					3.68
19.217	0.18	1.53	0.646	0					3.67
19.233	0.18	1.53	0.644	0					3.67
19.250	0.18	1.53	0.642	0					3.66
19.267	0.18	1.53	0.640	0					3.66
19.283	0.17	1.53	0.639	0					3.66
19.300	0.17	1.53	0.637	0					3.65
19.317	0.17	1.53	0.635	0					3.65
19.333	0.17	1.53	0.633	0					3.64
19.350	0.17	1.53	0.631	0					3.64
19.367	0.17	1.53	0.629	0					3.63
19.383	0.17	1.53	0.627	0					3.63
19.400	0.17	1.53	0.626	0					3.63
19.417	0.17	1.53	0.624	0					3.62
19.433	0.16	1.53	0.622	0					3.62
19.450	0.16	1.52	0.620	0					3.61
19.467	0.16	1.52	0.618	0					3.61
19.483	0.16	1.52	0.616	0					3.60
19.500	0.16	1.52	0.614	0					3.60
19.517	0.16	1.52	0.612	0					3.60
19.533	0.16	1.52	0.611	0					3.59
19.550	0.16	1.52	0.609	0					3.59
19.567	0.16	1.52	0.607	0					3.58
19.583	0.16	1.52	0.605	0					3.58
19.600	0.15	1.52	0.603	0					3.57
19.617	0.15	1.52	0.601	0					3.57
19.633	0.15	1.52	0.599	0					3.57
19.650	0.15	1.52	0.597	0					3.56
19.667	0.15	1.52	0.595	0					3.56
19.683	0.15	1.52	0.594	0					3.55
19.700	0.15	1.52	0.592	0					3.55
19.717	0.15	1.52	0.590	0					3.55
19.733	0.15	1.52	0.588	0					3.54
19.750	0.15	1.51	0.586	0					3.54
19.767	0.15	1.51	0.584	0					3.53
19.783	0.14	1.51	0.582	0					3.53
19.800	0.14	1.51	0.580	0					3.52
19.817	0.14	1.51	0.579	0					3.52
19.833	0.14	1.51	0.577	0					3.52
19.850	0.14	1.51	0.575	0					3.51
19.867	0.14	1.51	0.573	0					3.51
19.883	0.14	1.51	0.571	0					3.50
19.900	0.14	1.51	0.569	0					3.49
19.917	0.14	1.51	0.567	0					3.48
19.933	0.14	1.51	0.565	0					3.47
19.950	0.14	1.50	0.563	0					3.46
19.967	0.14	1.50	0.562	0					3.45
19.983	0.13	1.50	0.560	0					3.44
20.000	0.13	1.50	0.558	0					3.42
20.017	0.13	1.50	0.556	0					3.41
20.033	0.13	1.49	0.554	0					3.40
20.050	0.13	1.49	0.552	0					3.39
20.067	0.13	1.49	0.550	0					3.38
20.083	0.13	1.49	0.548	0					3.36
20.100	0.13	1.49	0.547	0					3.35

20.117	0.13	1.48	0.545	0					3.34
20.133	0.13	1.48	0.543	0					3.33
20.150	0.13	1.48	0.541	0					3.32
20.167	0.13	1.48	0.539	0					3.31
20.183	0.12	1.48	0.537	0					3.29
20.200	0.12	1.48	0.535	0					3.28
20.217	0.12	1.47	0.533	0					3.27
20.233	0.12	1.47	0.532	0					3.26
20.250	0.12	1.47	0.530	0					3.25
20.267	0.12	1.47	0.528	0					3.24
20.283	0.12	1.47	0.526	0					3.23
20.300	0.12	1.46	0.524	0					3.21
20.317	0.12	1.46	0.522	0					3.20
20.333	0.12	1.46	0.520	0					3.19
20.350	0.12	1.46	0.519	0					3.18
20.367	0.12	1.46	0.517	0					3.17
20.383	0.12	1.45	0.515	0					3.16
20.400	0.11	1.45	0.513	0					3.14
20.417	0.11	1.45	0.511	0					3.13
20.433	0.11	1.45	0.509	0					3.12
20.450	0.11	1.45	0.508	0					3.11
20.467	0.11	1.45	0.506	0					3.10
20.483	0.11	1.44	0.504	0					3.09
20.500	0.11	1.44	0.502	0					3.08
20.517	0.11	1.44	0.500	0					3.06
20.533	0.11	1.44	0.498	0					3.05
20.550	0.11	1.44	0.497	0					3.04
20.567	0.11	1.43	0.495	0					3.03
20.583	0.11	1.43	0.493	0					3.02
20.600	0.11	1.43	0.491	0					3.01
20.617	0.11	1.43	0.489	0					3.00
20.633	0.11	1.43	0.487	0					2.98
20.650	0.10	1.43	0.486	0					2.97
20.667	0.10	1.42	0.484	0					2.96
20.683	0.10	1.42	0.482	0					2.95
20.700	0.10	1.42	0.480	0					2.94
20.717	0.10	1.42	0.478	0					2.93
20.733	0.10	1.42	0.477	0					2.92
20.750	0.10	1.41	0.475	0					2.90
20.767	0.10	1.41	0.473	0					2.89
20.783	0.10	1.41	0.471	0					2.88
20.800	0.10	1.41	0.469	0					2.87
20.817	0.10	1.41	0.468	0					2.86
20.833	0.10	1.41	0.466	0					2.85
20.850	0.10	1.40	0.464	0					2.84
20.867	0.10	1.40	0.462	0					2.83
20.883	0.10	1.40	0.460	0					2.81
20.900	0.10	1.40	0.459	0					2.80
20.917	0.09	1.40	0.457	0					2.79
20.933	0.09	1.39	0.455	0					2.78
20.950	0.09	1.39	0.453	0					2.77
20.967	0.09	1.39	0.451	0					2.76
20.983	0.09	1.39	0.450	0					2.75
21.000	0.09	1.39	0.448	0					2.74
21.017	0.09	1.39	0.446	0					2.72
21.033	0.09	1.38	0.444	0					2.71
21.050	0.09	1.38	0.442	0					2.70
21.067	0.09	1.38	0.441	0					2.69
21.083	0.09	1.38	0.439	0					2.68
21.100	0.09	1.38	0.437	0					2.67
21.117	0.09	1.38	0.435	0					2.66
21.133	0.09	1.37	0.434	0					2.65
21.150	0.09	1.37	0.432	0					2.64
21.167	0.09	1.37	0.430	0					2.63
21.183	0.09	1.37	0.428	0					2.61
21.200	0.09	1.37	0.426	0					2.60
21.217	0.08	1.36	0.425	0					2.59
21.233	0.08	1.36	0.423	0					2.58
21.250	0.08	1.36	0.421	0					2.57
21.267	0.08	1.36	0.419	0					2.56
21.283	0.08	1.36	0.418	0					2.55

21.300	0.08	1.36	0.416	0					2.54
21.317	0.08	1.35	0.414	0					2.53
21.333	0.08	1.35	0.412	0					2.52
21.350	0.08	1.35	0.411	0					2.50
21.367	0.08	1.35	0.409	0					2.49
21.383	0.08	1.35	0.407	0					2.48
21.400	0.08	1.35	0.405	0					2.47
21.417	0.08	1.35	0.404	0					2.46
21.433	0.08	1.35	0.402	0					2.45
21.450	0.08	1.34	0.400	0					2.44
21.467	0.08	1.34	0.398	0					2.43
21.483	0.08	1.34	0.397	0					2.42
21.500	0.08	1.34	0.395	0					2.41
21.517	0.08	1.34	0.393	0					2.40
21.533	0.08	1.34	0.391	0					2.39
21.550	0.07	1.34	0.390	0					2.38
21.567	0.07	1.34	0.388	0					2.37
21.583	0.07	1.34	0.386	0					2.36
21.600	0.07	1.34	0.385	0					2.35
21.617	0.07	1.33	0.383	0					2.34
21.633	0.07	1.33	0.381	0					2.33
21.650	0.07	1.33	0.379	0					2.32
21.667	0.07	1.33	0.378	0					2.31
21.683	0.07	1.33	0.376	0					2.30
21.700	0.07	1.33	0.374	0					2.29
21.717	0.07	1.33	0.372	0					2.28
21.733	0.07	1.33	0.371	0					2.27
21.750	0.07	1.33	0.369	0					2.26
21.767	0.07	1.32	0.367	0					2.25
21.783	0.07	1.32	0.365	0					2.24
21.800	0.07	1.32	0.364	0					2.23
21.817	0.07	1.32	0.362	0					2.22
21.833	0.07	1.32	0.360	0					2.21
21.850	0.07	1.32	0.359	0					2.20
21.867	0.07	1.32	0.357	0					2.19
21.883	0.07	1.32	0.355	0					2.18
21.900	0.07	1.32	0.353	0					2.17
21.917	0.07	1.32	0.352	0					2.16
21.933	0.07	1.31	0.350	0					2.15
21.950	0.06	1.31	0.348	0					2.14
21.967	0.06	1.31	0.346	0					2.13
21.983	0.06	1.31	0.345	0					2.12
22.000	0.06	1.31	0.343	0					2.11
22.017	0.06	1.31	0.341	0					2.10
22.033	0.06	1.31	0.340	0					2.09
22.050	0.06	1.31	0.338	0					2.08
22.067	0.06	1.31	0.336	0					2.07
22.083	0.06	1.31	0.334	0					2.06
22.100	0.06	1.30	0.333	0					2.05
22.117	0.06	1.30	0.331	0					2.04
22.133	0.06	1.30	0.329	0					2.03
22.150	0.06	1.30	0.328	0					2.02
22.167	0.06	1.30	0.326	0					2.01
22.183	0.06	1.30	0.324	0					2.00
22.200	0.06	1.30	0.322	0					1.99
22.217	0.06	1.30	0.321	0					1.98
22.233	0.06	1.30	0.319	0					1.97
22.250	0.06	1.30	0.317	0					1.96
22.267	0.06	1.29	0.316	0					1.95
22.283	0.06	1.29	0.314	0					1.94
22.300	0.06	1.29	0.312	0					1.93
22.317	0.06	1.29	0.311	0					1.92
22.333	0.06	1.29	0.309	0					1.91
22.350	0.06	1.29	0.307	0					1.90
22.367	0.06	1.29	0.305	0					1.89
22.383	0.05	1.29	0.304	0					1.88
22.400	0.05	1.29	0.302	0					1.87
22.417	0.05	1.29	0.300	0					1.86
22.433	0.05	1.28	0.299	0					1.85
22.450	0.05	1.28	0.297	0					1.84
22.467	0.05	1.28	0.295	0					1.83

22.483	0.05	1.28	0.294	0					1.82
22.500	0.05	1.28	0.292	0					1.81
22.517	0.05	1.28	0.290	0					1.80
22.533	0.05	1.28	0.289	0					1.79
22.550	0.05	1.28	0.287	0					1.78
22.567	0.05	1.28	0.285	0					1.77
22.583	0.05	1.28	0.283	0					1.76
22.600	0.05	1.27	0.282	0					1.75
22.617	0.05	1.27	0.280	0					1.74
22.633	0.05	1.27	0.278	0					1.73
22.650	0.05	1.27	0.277	0					1.72
22.667	0.05	1.27	0.275	0					1.71
22.683	0.05	1.27	0.273	0					1.70
22.700	0.05	1.27	0.272	0					1.69
22.717	0.05	1.27	0.270	0					1.68
22.733	0.05	1.27	0.268	0					1.67
22.750	0.05	1.27	0.267	0					1.66
22.767	0.05	1.26	0.265	0					1.65
22.783	0.05	1.26	0.263	0					1.64
22.800	0.05	1.26	0.262	0					1.63
22.817	0.05	1.26	0.260	0					1.62
22.833	0.05	1.26	0.258	0					1.61
22.850	0.05	1.26	0.257	0					1.60
22.867	0.05	1.26	0.255	0					1.59
22.883	0.05	1.26	0.253	0					1.58
22.900	0.05	1.26	0.252	0					1.57
22.917	0.05	1.26	0.250	0					1.56
22.933	0.04	1.25	0.248	0					1.55
22.950	0.04	1.25	0.247	0					1.54
22.967	0.04	1.25	0.245	0					1.53
22.983	0.04	1.25	0.243	0					1.52
23.000	0.04	1.25	0.242	0					1.51
23.017	0.04	1.25	0.240	0					1.50
23.033	0.04	1.25	0.238	0					1.49
23.050	0.04	1.24	0.237	0					1.48
23.067	0.04	1.24	0.235	0					1.47
23.083	0.04	1.23	0.233	0					1.46
23.100	0.04	1.23	0.232	0					1.45
23.117	0.04	1.23	0.230	0					1.44
23.133	0.04	1.22	0.228	0					1.43
23.150	0.04	1.22	0.227	0					1.42
23.167	0.04	1.22	0.225	0					1.41
23.183	0.04	1.21	0.224	0					1.40
23.200	0.04	1.21	0.222	0					1.39
23.217	0.04	1.21	0.220	0					1.38
23.233	0.04	1.20	0.219	0					1.37
23.250	0.04	1.20	0.217	0					1.36
23.267	0.04	1.19	0.216	0					1.35
23.283	0.04	1.19	0.214	0					1.34
23.300	0.04	1.19	0.212	0					1.33
23.317	0.04	1.18	0.211	0					1.32
23.333	0.04	1.18	0.209	0					1.31
23.350	0.04	1.18	0.208	0					1.30
23.367	0.04	1.17	0.206	0					1.29
23.383	0.04	1.17	0.205	0					1.28
23.400	0.04	1.17	0.203	0					1.27
23.417	0.04	1.16	0.201	0					1.26
23.433	0.04	1.16	0.200	0					1.25
23.450	0.04	1.16	0.198	0					1.24
23.467	0.04	1.15	0.197	0					1.23
23.483	0.04	1.15	0.195	0					1.22
23.500	0.04	1.15	0.194	0					1.21
23.517	0.04	1.14	0.192	0					1.20
23.533	0.04	1.14	0.191	0					1.19
23.550	0.04	1.14	0.189	0					1.18
23.567	0.04	1.13	0.188	0					1.17
23.583	0.04	1.13	0.186	0					1.16
23.600	0.03	1.13	0.185	0					1.15
23.617	0.03	1.12	0.183	0					1.14
23.633	0.03	1.12	0.182	0					1.14
23.650	0.03	1.12	0.180	0					1.13

23.667	0.03	1.11	0.179	0					1.12
23.683	0.03	1.11	0.177	0					1.11
23.700	0.03	1.11	0.176	0					1.10
23.717	0.03	1.10	0.174	0					1.09
23.733	0.03	1.10	0.173	0					1.08
23.750	0.03	1.10	0.171	0					1.07
23.767	0.03	1.09	0.170	0					1.06
23.783	0.03	1.09	0.168	0					1.05
23.800	0.03	1.09	0.167	0					1.04
23.817	0.03	1.08	0.165	0					1.03
23.833	0.03	1.08	0.164	0					1.03
23.850	0.03	1.08	0.163	0					1.02
23.867	0.03	1.07	0.161	0					1.01
23.883	0.03	1.07	0.160	0					1.00
23.900	0.03	1.06	0.158	0					0.99
23.917	0.03	1.05	0.157	0					0.98
23.933	0.03	1.04	0.155	0					0.97
23.950	0.03	1.03	0.154	0					0.96
23.967	0.03	1.02	0.153	0					0.95
23.983	0.03	1.01	0.151	0					0.95
24.000	0.03	1.00	0.150	0					0.94
24.017	0.03	0.99	0.149	0					0.93
24.033	0.03	0.99	0.147	0					0.92
24.050	0.03	0.98	0.146	0					0.91
24.067	0.03	0.97	0.145	0					0.90
24.083	0.03	0.96	0.143	0					0.90
24.100	0.03	0.95	0.142	0					0.89
24.117	0.03	0.94	0.141	0					0.88
24.133	0.03	0.93	0.140	0					0.87
24.150	0.03	0.93	0.138	0					0.87
24.167	0.03	0.92	0.137	0					0.86
24.183	0.03	0.91	0.136	0					0.85
24.200	0.03	0.90	0.135	0					0.84
24.217	0.03	0.89	0.134	0					0.83
24.233	0.03	0.89	0.132	0					0.83
24.250	0.03	0.88	0.131	0					0.82
24.267	0.03	0.87	0.130	0					0.81
24.283	0.03	0.86	0.129	0					0.81
24.300	0.03	0.85	0.128	0					0.80
24.317	0.03	0.85	0.127	0					0.79
24.333	0.03	0.84	0.125	0					0.78
24.350	0.03	0.83	0.124	0					0.78
24.367	0.03	0.82	0.123	0					0.77
24.383	0.03	0.82	0.122	0					0.76
24.400	0.03	0.81	0.121	0					0.76
24.417	0.03	0.80	0.120	0					0.75
24.433	0.03	0.80	0.119	0					0.74
24.450	0.03	0.79	0.118	0					0.74
24.467	0.03	0.78	0.117	0					0.73
24.483	0.03	0.77	0.116	0					0.72
24.500	0.03	0.77	0.115	0					0.72
24.517	0.02	0.76	0.114	0					0.71
24.533	0.02	0.75	0.113	0					0.70
24.550	0.02	0.75	0.112	0					0.70
24.567	0.02	0.74	0.111	0					0.69
24.583	0.02	0.73	0.110	0					0.69
24.600	0.02	0.73	0.109	0					0.68
24.617	0.02	0.72	0.108	0					0.67
24.633	0.02	0.71	0.107	0					0.67
24.650	0.02	0.71	0.106	0					0.66
24.667	0.02	0.70	0.105	0					0.66
24.683	0.02	0.70	0.104	0					0.65
24.700	0.02	0.69	0.103	0					0.64
24.717	0.02	0.68	0.102	0					0.64
24.733	0.02	0.68	0.101	0					0.63
24.750	0.02	0.67	0.100	0					0.63
24.767	0.02	0.67	0.100	0					0.62
24.783	0.02	0.66	0.099	0					0.62
24.800	0.02	0.65	0.098	0					0.61
24.817	0.02	0.65	0.097	0					0.61
24.833	0.02	0.64	0.096	0					0.60

24.850	0.02	0.64	0.095	0					0.60
24.867	0.02	0.63	0.094	0					0.59
24.883	0.02	0.63	0.094	0					0.58
24.900	0.02	0.62	0.093	0					0.58
24.917	0.02	0.61	0.092	0					0.57
24.933	0.02	0.61	0.091	0					0.57
24.950	0.02	0.60	0.090	0					0.56
24.967	0.02	0.60	0.089	0					0.56
24.983	0.02	0.59	0.089	0					0.55
25.000	0.02	0.59	0.088	0					0.55
25.017	0.02	0.58	0.087	0					0.54
25.033	0.02	0.58	0.086	0					0.54
25.050	0.02	0.57	0.086	0					0.53
25.067	0.02	0.57	0.085	0					0.53
25.083	0.02	0.56	0.084	0					0.53
25.100	0.02	0.56	0.083	0					0.52
25.117	0.02	0.55	0.083	0					0.52
25.133	0.02	0.55	0.082	0					0.51
25.150	0.02	0.54	0.081	0					0.51
25.167	0.02	0.54	0.080	0					0.50
25.183	0.02	0.53	0.080	0					0.50
25.200	0.02	0.53	0.079	0					0.49
25.217	0.02	0.52	0.078	0					0.49
25.233	0.02	0.52	0.078	0					0.49
25.250	0.02	0.51	0.077	0					0.48
25.267	0.02	0.51	0.076	0					0.48
25.283	0.02	0.51	0.076	0					0.47
25.300	0.02	0.50	0.075	0					0.47
25.317	0.02	0.50	0.074	0					0.46
25.333	0.02	0.49	0.074	0					0.46
25.350	0.02	0.49	0.073	0					0.46
25.367	0.02	0.48	0.072	0					0.45
25.383	0.02	0.48	0.072	0					0.45
25.400	0.02	0.48	0.071	0					0.44
25.417	0.02	0.47	0.070	0					0.44
25.433	0.02	0.47	0.070	0					0.44
25.450	0.02	0.46	0.069	0					0.43
25.467	0.02	0.46	0.069	0					0.43
25.483	0.02	0.45	0.068	0					0.42
25.500	0.02	0.45	0.067	0					0.42
25.517	0.02	0.45	0.067	0					0.42
25.533	0.02	0.44	0.066	0					0.41
25.550	0.02	0.44	0.066	0					0.41
25.567	0.02	0.43	0.065	0					0.41
25.583	0.02	0.43	0.064	0					0.40
25.600	0.02	0.43	0.064	0					0.40
25.617	0.02	0.42	0.063	0					0.40
25.633	0.02	0.42	0.063	0					0.39
25.650	0.02	0.42	0.062	0					0.39
25.667	0.02	0.41	0.062	0					0.39
25.683	0.02	0.41	0.061	0					0.38
25.700	0.02	0.41	0.061	0					0.38
25.717	0.02	0.40	0.060	0					0.38
25.733	0.02	0.40	0.060	0					0.37
25.750	0.02	0.39	0.059	0					0.37
25.767	0.02	0.39	0.058	0					0.37
25.783	0.02	0.39	0.058	0					0.36
25.800	0.02	0.38	0.057	0					0.36
25.817	0.02	0.38	0.057	0					0.36
25.833	0.02	0.38	0.056	0					0.35
25.850	0.02	0.37	0.056	0					0.35
25.867	0.02	0.37	0.055	0					0.35
25.883	0.01	0.37	0.055	0					0.34
25.900	0.01	0.36	0.054	0					0.34
25.917	0.01	0.36	0.054	0					0.34
25.933	0.01	0.36	0.054	0					0.33
25.950	0.01	0.35	0.053	0					0.33
25.967	0.01	0.35	0.053	0					0.33
25.983	0.01	0.35	0.052	0					0.33
26.000	0.01	0.35	0.052	0					0.32
26.017	0.01	0.34	0.051	0					0.32

26.033	0.01	0.34	0.051	0					0.32
26.050	0.01	0.34	0.050	0					0.31
26.067	0.01	0.33	0.050	0					0.31
26.083	0.01	0.33	0.049	0					0.31
26.100	0.01	0.33	0.049	0					0.31
26.117	0.01	0.32	0.049	0					0.30
26.133	0.01	0.32	0.048	0					0.30
26.150	0.01	0.32	0.048	0					0.30
26.167	0.01	0.32	0.047	0					0.30
26.183	0.01	0.31	0.047	0					0.29
26.200	0.01	0.31	0.046	0					0.29
26.217	0.01	0.31	0.046	0					0.29
26.233	0.01	0.31	0.046	0					0.29
26.250	0.01	0.30	0.045	0					0.28
26.267	0.01	0.30	0.045	0					0.28
26.283	0.01	0.30	0.044	0					0.28
26.300	0.01	0.29	0.044	0					0.28
26.317	0.01	0.29	0.044	0					0.27
26.333	0.01	0.29	0.043	0					0.27
26.350	0.01	0.29	0.043	0					0.27
26.367	0.01	0.28	0.043	0					0.27
26.383	0.01	0.28	0.042	0					0.26
26.400	0.01	0.28	0.042	0					0.26
26.417	0.01	0.28	0.041	0					0.26
26.433	0.01	0.27	0.041	0					0.26
26.450	0.01	0.27	0.041	0					0.25
26.467	0.01	0.27	0.040	0					0.25
26.483	0.01	0.27	0.040	0					0.25
26.500	0.01	0.27	0.040	0					0.25
26.517	0.01	0.26	0.039	0					0.25
26.533	0.01	0.26	0.039	0					0.24
26.550	0.01	0.26	0.039	0					0.24
26.567	0.01	0.26	0.038	0					0.24
26.583	0.01	0.25	0.038	0					0.24
26.600	0.01	0.25	0.038	0					0.24
26.617	0.01	0.25	0.037	0					0.23
26.633	0.01	0.25	0.037	0					0.23
26.650	0.01	0.25	0.037	0					0.23
26.667	0.01	0.24	0.036	0					0.23
26.683	0.01	0.24	0.036	0					0.22
26.700	0.01	0.24	0.036	0					0.22
26.717	0.01	0.24	0.035	0					0.22
26.733	0.01	0.23	0.035	0					0.22
26.750	0.01	0.23	0.035	0					0.22
26.767	0.01	0.23	0.034	0					0.22
26.783	0.01	0.23	0.034	0					0.21
26.800	0.01	0.23	0.034	0					0.21
26.817	0.01	0.22	0.034	0					0.21
26.833	0.01	0.22	0.033	0					0.21
26.850	0.01	0.22	0.033	0					0.21
26.867	0.01	0.22	0.033	0					0.20
26.883	0.01	0.22	0.032	0					0.20
26.900	0.01	0.21	0.032	0					0.20
26.917	0.01	0.21	0.032	0					0.20
26.933	0.01	0.21	0.032	0					0.20
26.950	0.01	0.21	0.031	0					0.20
26.967	0.01	0.21	0.031	0					0.19
26.983	0.01	0.21	0.031	0					0.19
27.000	0.01	0.20	0.030	0					0.19
27.017	0.01	0.20	0.030	0					0.19
27.033	0.01	0.20	0.030	0					0.19
27.050	0.01	0.20	0.030	0					0.19
27.067	0.01	0.20	0.029	0					0.18
27.083	0.01	0.20	0.029	0					0.18
27.100	0.01	0.19	0.029	0					0.18
27.117	0.01	0.19	0.029	0					0.18
27.133	0.01	0.19	0.028	0					0.18
27.150	0.01	0.19	0.028	0					0.18
27.167	0.01	0.19	0.028	0					0.17
27.183	0.01	0.19	0.028	0					0.17
27.200	0.01	0.18	0.027	0					0.17

27.217	0.01	0.18	0.027	0					0.17
27.233	0.01	0.18	0.027	0					0.17
27.250	0.01	0.18	0.027	0					0.17
27.267	0.01	0.18	0.026	0					0.17
27.283	0.01	0.18	0.026	0					0.16
27.300	0.01	0.17	0.026	0					0.16
27.317	0.01	0.17	0.026	0					0.16
27.333	0.01	0.17	0.026	0					0.16
27.350	0.01	0.17	0.025	0					0.16
27.367	0.01	0.17	0.025	0					0.16
27.383	0.01	0.17	0.025	0					0.16
27.400	0.01	0.17	0.025	0					0.15
27.417	0.01	0.16	0.024	0					0.15
27.433	0.01	0.16	0.024	0					0.15
27.450	0.01	0.16	0.024	0					0.15
27.467	0.01	0.16	0.024	0					0.15
27.483	0.01	0.16	0.024	0					0.15
27.500	0.01	0.16	0.023	0					0.15
27.517	0.01	0.16	0.023	0					0.15
27.533	0.01	0.15	0.023	0					0.14
27.550	0.01	0.15	0.023	0					0.14
27.567	0.01	0.15	0.023	0					0.14
27.583	0.01	0.15	0.022	0					0.14
27.600	0.01	0.15	0.022	0					0.14
27.617	0.01	0.15	0.022	0					0.14
27.633	0.01	0.15	0.022	0					0.14
27.650	0.01	0.14	0.022	0					0.14
27.667	0.01	0.14	0.021	0					0.13
27.683	0.01	0.14	0.021	0					0.13
27.700	0.01	0.14	0.021	0					0.13
27.717	0.01	0.14	0.021	0					0.13
27.733	0.01	0.14	0.021	0					0.13
27.750	0.01	0.14	0.021	0					0.13
27.767	0.01	0.14	0.020	0					0.13
27.783	0.01	0.14	0.020	0					0.13
27.800	0.01	0.13	0.020	0					0.13
27.817	0.01	0.13	0.020	0					0.12
27.833	0.01	0.13	0.020	0					0.12
27.850	0.01	0.13	0.020	0					0.12
27.867	0.01	0.13	0.019	0					0.12
27.883	0.01	0.13	0.019	0					0.12
27.900	0.01	0.13	0.019	0					0.12
27.917	0.01	0.13	0.019	0					0.12
27.933	0.01	0.12	0.019	0					0.12
27.950	0.01	0.12	0.019	0					0.12
27.967	0.01	0.12	0.018	0					0.11
27.983	0.01	0.12	0.018	0					0.11
28.000	0.01	0.12	0.018	0					0.11
28.017	0.01	0.12	0.018	0					0.11
28.033	0.01	0.12	0.018	0					0.11
28.050	0.01	0.12	0.018	0					0.11
28.067	0.01	0.12	0.017	0					0.11
28.083	0.01	0.12	0.017	0					0.11
28.100	0.01	0.11	0.017	0					0.11
28.117	0.01	0.11	0.017	0					0.11
28.133	0.01	0.11	0.017	0					0.11
28.150	0.01	0.11	0.017	0					0.10
28.167	0.01	0.11	0.017	0					0.10
28.183	0.01	0.11	0.016	0					0.10
28.200	0.01	0.11	0.016	0					0.10
28.217	0.01	0.11	0.016	0					0.10
28.233	0.01	0.11	0.016	0					0.10
28.250	0.01	0.11	0.016	0					0.10
28.267	0.01	0.11	0.016	0					0.10
28.283	0.01	0.10	0.016	0					0.10
28.300	0.01	0.10	0.015	0					0.10
28.317	0.01	0.10	0.015	0					0.10
28.333	0.01	0.10	0.015	0					0.09
28.350	0.01	0.10	0.015	0					0.09
28.367	0.01	0.10	0.015	0					0.09
28.383	0.01	0.10	0.015	0					0.09

28.400	0.01	0.10	0.015	0					0.09
28.417	0.01	0.10	0.015	0					0.09
28.433	0.01	0.10	0.014	0					0.09
28.450	0.01	0.10	0.014	0					0.09
28.467	0.01	0.09	0.014	0					0.09
28.483	0.01	0.09	0.014	0					0.09
28.500	0.01	0.09	0.014	0					0.09
28.517	0.01	0.09	0.014	0					0.09
28.533	0.01	0.09	0.014	0					0.09
28.550	0.01	0.09	0.014	0					0.08
28.567	0.01	0.09	0.013	0					0.08
28.583	0.01	0.09	0.013	0					0.08
28.600	0.01	0.09	0.013	0					0.08
28.617	0.01	0.09	0.013	0					0.08
28.633	0.01	0.09	0.013	0					0.08
28.650	0.01	0.09	0.013	0					0.08
28.667	0.01	0.09	0.013	0					0.08
28.683	0.01	0.08	0.013	0					0.08
28.700	0.01	0.08	0.013	0					0.08
28.717	0.01	0.08	0.012	0					0.08
28.733	0.01	0.08	0.012	0					0.08
28.750	0.01	0.08	0.012	0					0.08
28.767	0.01	0.08	0.012	0					0.08
28.783	0.01	0.08	0.012	0					0.08
28.800	0.01	0.08	0.012	0					0.07
28.817	0.01	0.08	0.012	0					0.07
28.833	0.00	0.08	0.012	0					0.07
28.850	0.00	0.08	0.012	0					0.07
28.867	0.00	0.08	0.012	0					0.07
28.883	0.00	0.08	0.011	0					0.07
28.900	0.00	0.08	0.011	0					0.07
28.917	0.00	0.07	0.011	0					0.07
28.933	0.00	0.07	0.011	0					0.07
28.950	0.00	0.07	0.011	0					0.07
28.967	0.00	0.07	0.011	0					0.07
28.983	0.00	0.07	0.011	0					0.07
29.000	0.00	0.07	0.011	0					0.07
29.017	0.00	0.07	0.011	0					0.07
29.033	0.00	0.07	0.011	0					0.07
29.050	0.00	0.07	0.010	0					0.07
29.067	0.00	0.07	0.010	0					0.06
29.083	0.00	0.07	0.010	0					0.06
29.100	0.00	0.07	0.010	0					0.06
29.117	0.00	0.07	0.010	0					0.06
29.133	0.00	0.07	0.010	0					0.06
29.150	0.00	0.07	0.010	0					0.06
29.167	0.00	0.07	0.010	0					0.06
29.183	0.00	0.07	0.010	0					0.06
29.200	0.00	0.06	0.010	0					0.06
29.217	0.00	0.06	0.010	0					0.06
29.233	0.00	0.06	0.010	0					0.06
29.250	0.00	0.06	0.009	0					0.06
29.267	0.00	0.06	0.009	0					0.06
29.283	0.00	0.06	0.009	0					0.06
29.300	0.00	0.06	0.009	0					0.06
29.317	0.00	0.06	0.009	0					0.06
29.333	0.00	0.06	0.009	0					0.06
29.350	0.00	0.06	0.009	0					0.06
29.367	0.00	0.06	0.009	0					0.06
29.383	0.00	0.06	0.009	0					0.06
29.400	0.00	0.06	0.009	0					0.05
29.417	0.00	0.06	0.009	0					0.05
29.433	0.00	0.06	0.009	0					0.05
29.450	0.00	0.06	0.009	0					0.05
29.467	0.00	0.06	0.008	0					0.05
29.483	0.00	0.06	0.008	0					0.05
29.500	0.00	0.06	0.008	0					0.05
29.517	0.00	0.06	0.008	0					0.05
29.533	0.00	0.05	0.008	0					0.05
29.550	0.00	0.05	0.008	0					0.05
29.567	0.00	0.05	0.008	0					0.05

36.683	0.00	0.00	0.000	0					0.00
36.700	0.00	0.00	0.000	0					0.00
36.717	0.00	0.00	0.000	0					0.00
36.733	0.00	0.00	0.000	0					0.00
36.750	0.00	0.00	0.000	0					0.00
36.767	0.00	0.00	0.000	0					0.00
36.783	0.00	0.00	0.000	0					0.00
36.800	0.00	0.00	0.000	0					0.00
36.817	0.00	0.00	0.000	0					0.00
36.833	0.00	0.00	0.000	0					0.00
36.850	0.00	0.00	0.000	0					0.00
36.867	0.00	0.00	0.000	0					0.00
36.883	0.00	0.00	0.000	0					0.00
36.900	0.00	0.00	0.000	0					0.00
36.917	0.00	0.00	0.000	0					0.00

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*****HYDROGRAPH DATA*****
      Number of intervals = 2215
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 30.631 (CFS)
      Total volume = 7.222 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
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Process from Point/Station 724.000 to Point/Station 724.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

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Current stream hydrograph saved in file 100160rtebas5.rte
*****HYDROGRAPH DATA*****
      Number of intervals = 0
      Time interval = 0.0 (Min.)
      Maximum/Peak flow rate = 0.000 (CFS)
      Total volume = 0.000 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****

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FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 04/15/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition u/g Basin 1 & Basin 5 Combined Hydrograph
100160rteundbaslbas5

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rteundbasl.rte
*****HYDROGRAPH DATA*****
Number of intervals = 1950
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 3.670 (CFS)
Total volume = 2.975 (Ac.Ft)
Status of hydrographs being held in storage
Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
Peak (CFS) 0.000 0.000 0.000 0.000 0.000
Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

+++++
Process from Point/Station 716.000 to Point/Station 724.000
**** STREAM ROUTING SCS CONVEX METHOD ****

HYDROGRAPH STREAM ROUTING DATA:
Length of stream = 684.00 (Ft.)
Elevation difference = 9.70 (Ft.)
Slope of channel = 0.014181 (Vert/Horiz)
Channel type - Pipe

Pipe length = 684.00(Ft.) Elevation difference = 9.70(Ft.)
Manning's N = 0.013 No. of pipes = 1
Pipe evaluation using mean flow rate of hydrograph
Required pipe flow = 2.413(CFS)
Given pipe size = 24.00(In.)
Calculated individual pipe flow = 2.413(CFS)
Normal flow depth in pipe = 4.85(In.)
Flow top width inside pipe = 19.28(In.)
Critical Depth = 0.54(Ft.)
Pipe flow velocity = 5.31(Ft/s)
Travel time through pipe = 2.15 min.

Pipe length = 684.00(Ft.) Elevation difference = 9.70(Ft.)
Manning's N = 0.013 No. of pipes = 1
Pipe evaluation using maximum flow rate of hydrograph
Required pipe flow = 3.670(CFS)
Given pipe size = 24.00(In.)
Calculated individual pipe flow = 3.670(CFS)
Normal flow depth in pipe = 5.98(In.)
Flow top width inside pipe = 20.76(In.)
Critical Depth = 0.67(Ft.)
Pipe flow velocity = 6.00(Ft/s)
Travel time through pipe = 1.90 min.

***** SCS CONVEX CHANNEL ROUTING *****

Convex method of stream routing data items:

Using equation: Outflow =

$$O(t+dt) = (1-c^*)O(t+dt-dt^*) + \text{Input}(c^*)$$

where $c^* = 1 - (1-c)^e$ and $dt = c(\text{length})/\text{velocity}$

$c(v/v+1.7) = 0.7792$ Travel time = 1.90 (min.)

$dt^*(\text{unit time interval}) = 1.00(\text{min.})$, $e = 0.7835$

$dt(\text{routing time-step}) = 1.48(\text{min.})$, $c^* = 0.6938$

Output hydrograph delayed by 1 unit time increments

+++++

P R I N T O F S T O R M

R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Out = O(CFS)	In = I	0	0.9	1.8	2.8	3.7
0+ 1	0.0000	0.00	O				
0+ 2	0.0044	0.01	O				
0+ 3	0.0278	0.02	O				
0+ 4	0.0839	0.03	O				
0+ 5	0.1765	0.04	O				
0+ 6	0.3023	0.06	O				
0+ 7	0.4470	0.07	O				
0+ 8	0.5969	0.08	O				
0+ 9	0.7480	0.10	OI				
0+10	0.8991	0.11	OI				
0+11	1.0498	0.13	O				
0+12	1.2001	0.14	O				
0+13	1.3501	0.15	O				
0+14	1.4998	0.17	O				
0+15	1.6489	0.18	O				
0+16	1.7975	0.19	OI				
0+17	1.9455	0.21	OI				
0+18	2.0928	0.22	O				
0+19	2.2398	0.23	O				
0+20	2.3864	0.25	O				
0+21	2.5326	0.26	O				
0+22	2.6786	0.27	O				
0+23	2.8241	0.29	OI				
0+24	2.9691	0.30	OI				
0+25	3.1135	0.31	O				
0+26	3.2574	0.33	O				
0+27	3.4008	0.34	O				
0+28	3.5440	0.35	O				
0+29	3.6870	0.37	O				
0+30	3.8296	0.38	OI				
0+31	3.9719	0.39	OI				
0+32	4.1137	0.40	O				
0+33	4.2549	0.42	O				
0+34	4.3957	0.43	O				
0+35	4.5361	0.44	O				
0+36	4.6763	0.46	O				
0+37	4.8163	0.47	OI				
0+38	4.9560	0.48	OI				
0+39	5.0955	0.49	O				
0+40	5.2344	0.51	O				
0+41	5.3729	0.52	O				
0+42	5.5110	0.53	O				
0+43	5.6487	0.54	O				
0+44	5.7863	0.56	OI				
0+45	5.9237	0.57	OI				
0+46	6.0610	0.58	O				
0+47	6.1980	0.60	O				
0+48	6.3346	0.61	O				
0+49	6.4707	0.62	O				
0+50	6.6064	0.63	O				

0+51	6.7419	0.64	OI					
0+52	6.8773	0.66	OI					
0+53	7.0126	0.67	O					
0+54	7.1478	0.68	O					
0+55	7.2828	0.69	O					
0+56	7.4174	0.71	O					
0+57	7.5516	0.72	O					
0+58	7.6854	0.73	O					
0+59	7.8190	0.74	OI					
1+ 0	7.9526	0.76	OI					
1+ 1	8.0862	0.77	O					
1+ 2	8.2197	0.78	O					
1+ 3	8.3531	0.79	O					
1+ 4	8.4861	0.80	O					
1+ 5	8.6188	0.82	O					
1+ 6	8.7512	0.83	OI					
1+ 7	8.8834	0.84	OI					
1+ 8	9.0156	0.85	O					
1+ 9	9.1479	0.86	O					
1+10	9.2803	0.88	O					
1+11	9.4125	0.89	O					
1+12	9.5444	0.90	O					
1+13	9.6761	0.91	O					
1+14	9.8074	0.93	OI					
1+15	9.9387	0.94	OI					
1+16	10.0700	0.95	O					
1+17	10.2015	0.96	O					
1+18	10.3331	0.97	O					
1+19	10.4646	0.99	O					
1+20	10.5959	1.00	O					
1+21	10.7270	1.01	OI					
1+22	10.8578	1.02	OI					
1+23	10.9885	1.03	OI					
1+24	11.1195	1.05	O					
1+25	11.2507	1.06	O					
1+26	11.3820	1.07	O					
1+27	11.5134	1.08	O					
1+28	11.6446	1.09	O					
1+29	11.7755	1.11	OI					
1+30	11.9063	1.12	OI					
1+31	12.0371	1.13	O					
1+32	12.1682	1.14	O					
1+33	12.2995	1.15	O					
1+34	12.4312	1.17	O					
1+35	12.5629	1.18	O					
1+36	12.6945	1.19	O					
1+37	12.8259	1.20	OI					
1+38	12.9572	1.21	OI					
1+39	13.0887	1.23	O					
1+40	13.2204	1.24	O					
1+41	13.3526	1.25	O					
1+42	13.4851	1.26	O					
1+43	13.6178	1.28	O					
1+44	13.7505	1.29	OI					
1+45	13.8829	1.30	OI					
1+46	14.0154	1.31	O					
1+47	14.1480	1.32	O					
1+48	14.2811	1.34	O					
1+49	14.4147	1.35	O					
1+50	14.5488	1.36	O					
1+51	14.6831	1.37	O					
1+52	14.8174	1.39	OI					
1+53	14.9517	1.40	OI					
1+54	15.0859	1.41	O					
1+55	15.2205	1.42	O					
1+56	15.3556	1.44	O					
1+57	15.4913	1.45	O					
1+58	15.6277	1.46	O					
1+59	15.7644	1.47	OI					
2+ 0	15.9012	1.49	OI					
2+ 1	16.0379	1.50	O					

2+ 2	16.1748	1.51			O			
2+ 3	16.3120	1.52			O			
2+ 4	16.4500	1.54			O			
2+ 5	16.5887	1.55			O			
2+ 6	16.7282	1.56			OI			
2+ 7	16.8682	1.57			OI			
2+ 8	17.0083	1.59			O			
2+ 9	17.1484	1.60			O			
2+10	17.2887	1.61			O			
2+11	17.4296	1.63			O			
2+12	17.5713	1.64			O			
2+13	17.7140	1.65			OI			
2+14	17.8576	1.67			OI			
2+15	18.0018	1.68			O			
2+16	18.1462	1.69			O			
2+17	18.2908	1.71			O			
2+18	18.4356	1.72			O			
2+19	18.5812	1.73			O			
2+20	18.7278	1.75			OI			
2+21	18.8755	1.76			OI			
2+22	19.0244	1.77			O			
2+23	19.1740	1.79			O			
2+24	19.3240	1.80			O			
2+25	19.4707	1.80			O			
2+26	19.5891	1.81			O			
2+27	19.6567	1.81			O			
2+28	19.7091	1.82			O			
2+29	19.7575	1.82			O			
2+30	19.8049	1.83			O			
2+31	19.8524	1.83			O			
2+32	19.9000	1.84			OI			
2+33	19.9480	1.84			OI			
2+34	19.9963	1.84			OI			
2+35	20.0451	1.85			O			
2+36	20.0946	1.85			O			
2+37	20.1448	1.86			O			
2+38	20.1957	1.86			O			
2+39	20.2471	1.87			O			
2+40	20.2990	1.87			O			
2+41	20.3512	1.88			O			
2+42	20.4039	1.88			O			
2+43	20.4572	1.89			O			
2+44	20.5112	1.89			O			
2+45	20.5662	1.90			O			
2+46	20.6219	1.90			O			
2+47	20.6783	1.91			O			
2+48	20.7352	1.91			O			
2+49	20.7925	1.92			O			
2+50	20.8503	1.92			O			
2+51	20.9089	1.93			OI			
2+52	20.9684	1.94			OI			
2+53	21.0289	1.94			O			
2+54	21.0904	1.95			O			
2+55	21.1527	1.95			O			
2+56	21.2156	1.96			O			
2+57	21.2791	1.96			O			
2+58	21.3431	1.97			O			
2+59	21.4081	1.98			O			
3+ 0	21.4742	1.98			O			
3+ 1	21.5415	1.99			O			
3+ 2	21.6100	2.00			O			
3+ 3	21.6795	2.00			O			
3+ 4	21.7498	2.01			O			
3+ 5	21.8207	2.02			O			
3+ 6	21.8924	2.02			OI			
3+ 7	21.9652	2.03			OI			
3+ 8	22.0394	2.04			O			
3+ 9	22.1152	2.04			O			
3+10	22.1926	2.05			O			
3+11	22.2711	2.06			O			
3+12	22.3505	2.07			O			

3+13	22.4309	2.07				O		
3+14	22.5122	2.08				O		
3+15	22.5949	2.09				O		
3+16	22.6796	2.10				O		
3+17	22.7662	2.11				O		
3+18	22.8548	2.11				OI		
3+19	22.9450	2.12				OI		
3+20	23.0364	2.13				O		
3+21	23.1290	2.14				O		
3+22	23.2229	2.15				O		
3+23	23.3187	2.16				O		
3+24	23.4171	2.17				O		
3+25	23.5182	2.18				O		
3+26	23.6219	2.19				O		
3+27	23.7278	2.20				O		
3+28	23.8354	2.21				OI		
3+29	23.9427	2.22				OI		
3+30	24.0466	2.23				O		
3+31	24.1503	2.24				O		
3+32	24.2565	2.25				O		
3+33	24.3660	2.26				O		
3+34	24.4789	2.27				O		
3+35	24.5946	2.28				O		
3+36	24.7128	2.29				O		
3+37	24.8331	2.30				OI		
3+38	24.9561	2.31				OI		
3+39	25.0830	2.33				O		
3+40	25.2151	2.34				O		
3+41	25.3530	2.35				O		
3+42	25.4963	2.37				O		
3+43	25.6444	2.38				O		
3+44	25.7966	2.40				OI		
3+45	25.9525	2.41				OI		
3+46	26.1131	2.43				O		
3+47	26.2811	2.45				O		
3+48	26.4590	2.46				O		
3+49	26.6477	2.48				OI		
3+50	26.8471	2.50				OI		
3+51	27.0562	2.53				O		
3+52	27.2740	2.55				O		
3+53	27.5003	2.57				OI		
3+54	27.7378	2.60				OI		
3+55	27.9958	2.63				OI		
3+56	28.2830	2.66				O		
3+57	28.6020	2.69				OI		
3+58	28.9546	2.73				OI		
3+59	29.3446	2.78				OI		
4+ 0	29.7753	2.83				OI		
4+ 1	30.2504	2.89					OI	
4+ 2	30.7937	2.97					O I	
4+ 3	31.4637	3.06					O I	
4+ 4	32.3095	3.18					O I	
4+ 5	33.3461	3.29					O I	
4+ 6	34.5254	3.36					O I	
4+ 7	35.6334	3.41					O I	
4+ 8	36.4623	3.44					OI	
4+ 9	37.0483	3.46					O	
4+10	37.4337	3.48					O	
4+11	37.6969	3.50					OI	
4+12	37.9065	3.51					OI	
4+13	38.0834	3.52					O	
4+14	38.2354	3.53					O	
4+15	38.3697	3.54					O	
4+16	38.4913	3.55					O	
4+17	38.6018	3.56					O	
4+18	38.7022	3.57					O	
4+19	38.7943	3.58					O	
4+20	38.8797	3.58					OI	
4+21	38.9588	3.59					OI	
4+22	39.0320	3.59					O	
4+23	39.1000	3.60					O	

4+24	39.1637	3.60							0
4+25	39.2232	3.61							0
4+26	39.2788	3.61							0
4+27	39.3308	3.62							0
4+28	39.3797	3.62							0
4+29	39.4256	3.63							0
4+30	39.4686	3.63							0
4+31	39.5090	3.63							0
4+32	39.5470	3.63							0
4+33	39.5828	3.64							0
4+34	39.6163	3.64							0
4+35	39.6478	3.64							0
4+36	39.6774	3.65							0
4+37	39.7052	3.65							0
4+38	39.7313	3.65							0
4+39	39.7557	3.65							0
4+40	39.7786	3.65							0
4+41	39.8001	3.66							0
4+42	39.8201	3.66							0
4+43	39.8388	3.66							0
4+44	39.8562	3.66							0
4+45	39.8723	3.66							0
4+46	39.8873	3.66							0
4+47	39.9012	3.66							0
4+48	39.9140	3.66							0
4+49	39.9257	3.66							0
4+50	39.9364	3.67							0
4+51	39.9462	3.67							0
4+52	39.9551	3.67							0
4+53	39.9630	3.67							0
4+54	39.9701	3.67							0
4+55	39.9764	3.67							0
4+56	39.9819	3.67							0
4+57	39.9866	3.67							0
4+58	39.9905	3.67							0
4+59	39.9937	3.67							0
5+ 0	39.9962	3.67							0
5+ 1	39.9980	3.67							0I
5+ 2	39.9992	3.67							0
5+ 3	39.9997	3.67							0
5+ 4	39.9996	3.67							0
5+ 5	39.9989	3.67							0
5+ 6	39.9976	3.67							0
5+ 7	39.9958	3.67							0
5+ 8	39.9934	3.67							0
5+ 9	39.9904	3.67							0
5+10	39.9870	3.67							0
5+11	39.9830	3.67							0
5+12	39.9785	3.67							0
5+13	39.9736	3.67							0
5+14	39.9681	3.67							0
5+15	39.9622	3.66							0
5+16	39.9559	3.66							0
5+17	39.9492	3.66							0
5+18	39.9420	3.66							0
5+19	39.9344	3.66							0
5+20	39.9264	3.66							0
5+21	39.9180	3.66							0
5+22	39.9092	3.66							0
5+23	39.9000	3.66							0
5+24	39.8905	3.66							0
5+25	39.8806	3.66							0
5+26	39.8704	3.66							0
5+27	39.8598	3.65							0
5+28	39.8489	3.65							0
5+29	39.8377	3.65							0
5+30	39.8261	3.65							0
5+31	39.8142	3.65							0
5+32	39.8020	3.65							0
5+33	39.7896	3.65							0
5+34	39.7768	3.65							0

6+46	37.1597	3.40						0	
6+47	37.1085	3.39						0	
6+48	37.0574	3.39						IO	
6+49	37.0064	3.39						IO	
6+50	36.9555	3.38						0	
6+51	36.9046	3.38						0	
6+52	36.8538	3.37						0	
6+53	36.8031	3.37						0	
6+54	36.7525	3.36						0	
6+55	36.7019	3.36						0	
6+56	36.6513	3.35						0	
6+57	36.6009	3.35						0	
6+58	36.5505	3.34						0	
6+59	36.5002	3.34						0	
7+ 0	36.4500	3.33						0	
7+ 1	36.3998	3.33						0	
7+ 2	36.3497	3.33						0	
7+ 3	36.2997	3.32						0	
7+ 4	36.2497	3.32						0	
7+ 5	36.1998	3.31						0	
7+ 6	36.1500	3.31						0	
7+ 7	36.1002	3.30						IO	
7+ 8	36.0505	3.30						IO	
7+ 9	35.9995	3.29						0	
7+10	35.9438	3.29						0	
7+11	35.8839	3.28						0	
7+12	35.8228	3.27						0	
7+13	35.7613	3.27						0	
7+14	35.6999	3.26						0	
7+15	35.6385	3.26						0	
7+16	35.5772	3.25						0	
7+17	35.5160	3.25						0	
7+18	35.4549	3.24						0	
7+19	35.3939	3.24						0	
7+20	35.3330	3.23						0	
7+21	35.2722	3.22						0	
7+22	35.2115	3.22						0	
7+23	35.1510	3.21						0	
7+24	35.0905	3.21						IO	
7+25	35.0301	3.20						IO	
7+26	34.9699	3.20						0	
7+27	34.9097	3.19						0	
7+28	34.8496	3.19						0	
7+29	34.7897	3.18						0	
7+30	34.7298	3.17						0	
7+31	34.6701	3.17						0	
7+32	34.6105	3.16						0	
7+33	34.5509	3.16						0	
7+34	34.4915	3.15						0	
7+35	34.4321	3.15						0	
7+36	34.3729	3.14						0	
7+37	34.3138	3.14						0	
7+38	34.2548	3.13						0	
7+39	34.1958	3.13						0	
7+40	34.1370	3.12						0	
7+41	34.0783	3.12						IO	
7+42	34.0197	3.11						IO	
7+43	33.9611	3.10						0	
7+44	33.9027	3.10						0	
7+45	33.8444	3.09						0	
7+46	33.7862	3.09						0	
7+47	33.7280	3.08						0	
7+48	33.6700	3.08						0	
7+49	33.6121	3.07						0	
7+50	33.5543	3.07						0	
7+51	33.4966	3.06						0	
7+52	33.4389	3.06						0	
7+53	33.3814	3.05						0	
7+54	33.3240	3.05						0	
7+55	33.2667	3.04						0	
7+56	33.2094	3.04						0	

7+57	33.1523	3.03						0	
7+58	33.0953	3.03						IO	
7+59	33.0383	3.02						IO	
8+ 0	32.9815	3.01						0	
8+ 1	32.9248	3.01						0	
8+ 2	32.8681	3.00						0	
8+ 3	32.8116	3.00						0	
8+ 4	32.7551	2.99						0	
8+ 5	32.6988	2.99						0	
8+ 6	32.6425	2.98						0	
8+ 7	32.5864	2.98						0	
8+ 8	32.5303	2.97						0	
8+ 9	32.4744	2.97						0	
8+10	32.4185	2.96						0	
8+11	32.3627	2.96						0	
8+12	32.3070	2.95						0	
8+13	32.2515	2.95						0	
8+14	32.1960	2.94						0	
8+15	32.1406	2.94						0	
8+16	32.0853	2.93						IO	
8+17	32.0301	2.93						IO	
8+18	31.9750	2.92						0	
8+19	31.9200	2.92						0	
8+20	31.8651	2.91						0	
8+21	31.8103	2.91						0	
8+22	31.7556	2.90						0	
8+23	31.7009	2.90						0	
8+24	31.6464	2.89						0	
8+25	31.5920	2.89						0	
8+26	31.5376	2.88						0	
8+27	31.4834	2.88						0	
8+28	31.4292	2.87						0	
8+29	31.3751	2.87						0	
8+30	31.3212	2.86						0	
8+31	31.2673	2.86						0	
8+32	31.2135	2.85						0	
8+33	31.1598	2.85						0	
8+34	31.1062	2.84						IO	
8+35	31.0527	2.84						IO	
8+36	30.9993	2.83						0	
8+37	30.9459	2.83						0	
8+38	30.8927	2.82						0	
8+39	30.8395	2.82						0	
8+40	30.7865	2.81						0	
8+41	30.7335	2.81						0	
8+42	30.6807	2.80						0	
8+43	30.6279	2.80						0	
8+44	30.5752	2.80						0	
8+45	30.5232	2.79						0	
8+46	30.4723	2.79						0	
8+47	30.4218	2.78						0	
8+48	30.3715	2.78						0	
8+49	30.3214	2.77						0	
8+50	30.2713	2.77						0	
8+51	30.2213	2.76						0	
8+52	30.1714	2.76						0	
8+53	30.1216	2.75						0	
8+54	30.0718	2.75						IO	
8+55	30.0221	2.74						IO	
8+56	29.9726	2.74						0	
8+57	29.9231	2.74						0	
8+58	29.8736	2.73						0	
8+59	29.8243	2.73						0	
9+ 0	29.7750	2.72						0	
9+ 1	29.7259	2.72						0	
9+ 2	29.6768	2.71						0	
9+ 3	29.6278	2.71						0	
9+ 4	29.5788	2.70						0	
9+ 5	29.5300	2.70						0	
9+ 6	29.4812	2.70						0	
9+ 7	29.4325	2.69						0	

9+ 8	29.3839	2.69						O	
9+ 9	29.3354	2.68						O	
9+10	29.2869	2.68						O	
9+11	29.2386	2.67						O	
9+12	29.1903	2.67						O	
9+13	29.1421	2.66						O	
9+14	29.0939	2.66						IO	
9+15	29.0459	2.66						IO	
9+16	28.9979	2.65						O	
9+17	28.9500	2.65						O	
9+18	28.9022	2.64						O	
9+19	28.8545	2.64						O	
9+20	28.8068	2.63						O	
9+21	28.7593	2.63						O	
9+22	28.7118	2.62						O	
9+23	28.6644	2.62						O	
9+24	28.6170	2.62						O	
9+25	28.5697	2.61						O	
9+26	28.5226	2.61						O	
9+27	28.4755	2.60						O	
9+28	28.4284	2.60						O	
9+29	28.3815	2.59						O	
9+30	28.3346	2.59						O	
9+31	28.2878	2.59						O	
9+32	28.2411	2.58						O	
9+33	28.1945	2.58						O	
9+34	28.1479	2.57						O	
9+35	28.1014	2.57						O	
9+36	28.0550	2.56						IO	
9+37	28.0087	2.56						IO	
9+38	27.9624	2.56						O	
9+39	27.9162	2.55						O	
9+40	27.8701	2.55						O	
9+41	27.8241	2.54						O	
9+42	27.7781	2.54						O	
9+43	27.7323	2.54						O	
9+44	27.6865	2.53						O	
9+45	27.6407	2.53						O	
9+46	27.5951	2.52						O	
9+47	27.5495	2.52						O	
9+48	27.5040	2.51						O	
9+49	27.4586	2.51						O	
9+50	27.4132	2.51						O	
9+51	27.3680	2.50						O	
9+52	27.3228	2.50						O	
9+53	27.2776	2.49						O	
9+54	27.2326	2.49						O	
9+55	27.1876	2.49						O	
9+56	27.1427	2.48						O	
9+57	27.0979	2.48						O	
9+58	27.0531	2.47						IO	
9+59	27.0085	2.47						IO	
10+ 0	26.9639	2.47						O	
10+ 1	26.9193	2.46						O	
10+ 2	26.8749	2.46						O	
10+ 3	26.8305	2.45						O	
10+ 4	26.7862	2.45						O	
10+ 5	26.7419	2.44						O	
10+ 6	26.6978	2.44						O	
10+ 7	26.6537	2.44						O	
10+ 8	26.6097	2.43						O	
10+ 9	26.5657	2.43						O	
10+10	26.5218	2.42						O	
10+11	26.4780	2.42						O	
10+12	26.4343	2.42						O	
10+13	26.3906	2.41						O	
10+14	26.3471	2.41						O	
10+15	26.3035	2.40						O	
10+16	26.2601	2.40						O	
10+17	26.2167	2.40						O	
10+18	26.1734	2.39						O	

10+19	26.1302	2.39				O	
10+20	26.0871	2.38				IO	
10+21	26.0440	2.38				IO	
10+22	26.0010	2.38				IO	
10+23	25.9580	2.37				O	
10+24	25.9152	2.37				O	
10+25	25.8724	2.37				O	
10+26	25.8296	2.36				O	
10+27	25.7870	2.36				O	
10+28	25.7444	2.35				O	
10+29	25.7019	2.35				O	
10+30	25.6594	2.35				O	
10+31	25.6170	2.34				O	
10+32	25.5747	2.34				O	
10+33	25.5325	2.33				O	
10+34	25.4903	2.33				O	
10+35	25.4482	2.33				O	
10+36	25.4062	2.32				O	
10+37	25.3642	2.32				O	
10+38	25.3223	2.32				O	
10+39	25.2805	2.31				O	
10+40	25.2388	2.31				O	
10+41	25.1971	2.30				O	
10+42	25.1555	2.30				O	
10+43	25.1139	2.30				O	
10+44	25.0725	2.29				IO	
10+45	25.0310	2.29				IO	
10+46	24.9897	2.28				O	
10+47	24.9484	2.28				O	
10+48	24.9072	2.28				O	
10+49	24.8661	2.27				O	
10+50	24.8250	2.27				O	
10+51	24.7840	2.27				O	
10+52	24.7431	2.26				O	
10+53	24.7022	2.26				O	
10+54	24.6614	2.25				O	
10+55	24.6207	2.25				O	
10+56	24.5801	2.25				O	
10+57	24.5395	2.24				O	
10+58	24.4989	2.24				O	
10+59	24.4585	2.24				O	
11+ 0	24.4181	2.23				O	
11+ 1	24.3777	2.23				O	
11+ 2	24.3375	2.22				O	
11+ 3	24.2973	2.22				O	
11+ 4	24.2572	2.22				O	
11+ 5	24.2171	2.21				O	
11+ 6	24.1771	2.21				O	
11+ 7	24.1372	2.21				O	
11+ 8	24.0973	2.20				O	
11+ 9	24.0575	2.20				IO	
11+10	24.0176	2.20				IO	
11+11	23.9766	2.19				O	
11+12	23.9335	2.19				O	
11+13	23.8899	2.18				O	
11+14	23.8461	2.18				O	
11+15	23.8024	2.18				O	
11+16	23.7587	2.17				O	
11+17	23.7151	2.17				O	
11+18	23.6716	2.16				O	
11+19	23.6282	2.16				O	
11+20	23.5848	2.16				O	
11+21	23.5415	2.15				O	
11+22	23.4984	2.15				O	
11+23	23.4552	2.14				O	
11+24	23.4122	2.14				O	
11+25	23.3692	2.14				O	
11+26	23.3264	2.13				O	
11+27	23.2836	2.13				O	
11+28	23.2408	2.12				O	
11+29	23.1982	2.12				O	

11+30	23.1556	2.12				O	
11+31	23.1131	2.11				O	
11+32	23.0707	2.11				IO	
11+33	23.0284	2.10				IO	
11+34	22.9861	2.10				O	
11+35	22.9440	2.10				O	
11+36	22.9019	2.09				O	
11+37	22.8598	2.09				O	
11+38	22.8179	2.09				O	
11+39	22.7760	2.08				O	
11+40	22.7342	2.08				O	
11+41	22.6925	2.07				O	
11+42	22.6509	2.07				O	
11+43	22.6093	2.07				O	
11+44	22.5678	2.06				O	
11+45	22.5264	2.06				O	
11+46	22.4851	2.05				O	
11+47	22.4438	2.05				O	
11+48	22.4027	2.05				O	
11+49	22.3616	2.04				O	
11+50	22.3205	2.04				O	
11+51	22.2796	2.04				O	
11+52	22.2387	2.03				O	
11+53	22.1979	2.03				O	
11+54	22.1572	2.02				O	
11+55	22.1165	2.02				O	
11+56	22.0759	2.02				IO	
11+57	22.0354	2.01				IO	
11+58	21.9950	2.01				O	
11+59	21.9546	2.01				O	
12+ 0	21.9143	2.00				O	
12+ 1	21.8741	2.00				O	
12+ 2	21.8340	2.00				O	
12+ 3	21.7939	1.99				O	
12+ 4	21.7539	1.99				O	
12+ 5	21.7140	1.98				O	
12+ 6	21.6742	1.98				O	
12+ 7	21.6344	1.98				O	
12+ 8	21.5947	1.97				O	
12+ 9	21.5551	1.97				O	
12+10	21.5156	1.97				O	
12+11	21.4761	1.96				O	
12+12	21.4367	1.96				O	
12+13	21.3973	1.96				O	
12+14	21.3581	1.95				O	
12+15	21.3189	1.95				O	
12+16	21.2798	1.94				O	
12+17	21.2407	1.94				O	
12+18	21.2017	1.94				O	
12+19	21.1628	1.93				O	
12+20	21.1240	1.93				O	
12+21	21.0853	1.93				O	
12+22	21.0466	1.92				IO	
12+23	21.0079	1.92				IO	
12+24	20.9694	1.92				O	
12+25	20.9309	1.91				O	
12+26	20.8925	1.91				O	
12+27	20.8542	1.91				O	
12+28	20.8159	1.90				O	
12+29	20.7777	1.90				O	
12+30	20.7396	1.90				O	
12+31	20.7015	1.89				O	
12+32	20.6636	1.89				O	
12+33	20.6256	1.88				O	
12+34	20.5878	1.88				O	
12+35	20.5500	1.88				O	
12+36	20.5123	1.87				O	
12+37	20.4747	1.87				O	
12+38	20.4371	1.87				O	
12+39	20.3996	1.86				O	
12+40	20.3622	1.86				O	

12+41	20.3248	1.86			O		
12+42	20.2875	1.85			O		
12+43	20.2503	1.85			O		
12+44	20.2131	1.85			O		
12+45	20.1761	1.84			O		
12+46	20.1390	1.84			O		
12+47	20.1021	1.84			O		
12+48	20.0652	1.83			IO		
12+49	20.0284	1.83			IO		
12+50	19.9916	1.83			O		
12+51	19.9550	1.82			O		
12+52	19.9183	1.82			O		
12+53	19.8818	1.82			O		
12+54	19.8453	1.81			O		
12+55	19.8089	1.81			O		
12+56	19.7726	1.81			O		
12+57	19.7363	1.80			O		
12+58	19.7001	1.80			O		
12+59	19.6639	1.79			O		
13+ 0	19.6105	1.78			O		
13+ 1	19.5139	1.77			O		
13+ 2	19.4009	1.76			O		
13+ 3	19.2833	1.75			O		
13+ 4	19.1649	1.74			IO		
13+ 5	19.0467	1.72			IO		
13+ 6	18.9290	1.71			O		
13+ 7	18.8121	1.70			O		
13+ 8	18.6959	1.69			O		
13+ 9	18.5803	1.68			O		
13+10	18.4655	1.67			O		
13+11	18.3514	1.66			O		
13+12	18.2380	1.65			O		
13+13	18.1253	1.64			IO		
13+14	18.0133	1.63			IO		
13+15	17.9020	1.62			O		
13+16	17.7914	1.61			O		
13+17	17.6815	1.60			O		
13+18	17.5722	1.59			O		
13+19	17.4636	1.58			O		
13+20	17.3557	1.57			O		
13+21	17.2485	1.56			O		
13+22	17.1419	1.55			IO		
13+23	17.0360	1.54			IO		
13+24	16.9307	1.53			O		
13+25	16.8261	1.52			O		
13+26	16.7221	1.51			O		
13+27	16.6188	1.50			O		
13+28	16.5161	1.50			O		
13+29	16.4140	1.49			O		
13+30	16.3126	1.48			O		
13+31	16.2118	1.47			O		
13+32	16.1116	1.46			IO		
13+33	16.0121	1.45			IO		
13+34	15.9131	1.44			O		
13+35	15.8148	1.43			O		
13+36	15.7171	1.42			O		
13+37	15.6200	1.41			O		
13+38	15.5234	1.41			O		
13+39	15.4275	1.40			O		
13+40	15.3322	1.39			O		
13+41	15.2374	1.38			O		
13+42	15.1433	1.37			IO		
13+43	15.0497	1.36			IO		
13+44	14.9567	1.35			O		
13+45	14.8643	1.35			O		
13+46	14.7725	1.34			O		
13+47	14.6812	1.33			O		
13+48	14.5905	1.32			O		
13+49	14.5003	1.31			O		
13+50	14.4107	1.30			O		
13+51	14.3217	1.30			O		

13+52	14.2332	1.29			O				
13+53	14.1452	1.28			IO				
13+54	14.0578	1.27			IO				
13+55	13.9709	1.26			O				
13+56	13.8846	1.26			O				
13+57	13.7988	1.25			O				
13+58	13.7135	1.24			O				
13+59	13.6288	1.23			O				
14+ 0	13.5446	1.23			O				
14+ 1	13.4609	1.22			O				
14+ 2	13.3777	1.21			O				
14+ 3	13.2951	1.20			O				
14+ 4	13.2129	1.20			O				
14+ 5	13.1313	1.19			IO				
14+ 6	13.0501	1.18			IO				
14+ 7	12.9695	1.17			O				
14+ 8	12.8893	1.17			O				
14+ 9	12.8097	1.16			O				
14+10	12.7305	1.15			O				
14+11	12.6519	1.15			O				
14+12	12.5737	1.14			O				
14+13	12.4960	1.13			O				
14+14	12.4188	1.12			O				
14+15	12.3420	1.12			O				
14+16	12.2658	1.11			O				
14+17	12.1900	1.10			O				
14+18	12.1147	1.10			IO				
14+19	12.0398	1.09			IO				
14+20	11.9654	1.08			IO				
14+21	11.8915	1.08			IO				
14+22	11.8180	1.07			IO				
14+23	11.7450	1.06			IO				
14+24	11.6724	1.06			IO				
14+25	11.6003	1.05			IO				
14+26	11.5286	1.04			IO				
14+27	11.4573	1.04			IO				
14+28	11.3866	1.03			IO				
14+29	11.3162	1.02			IO				
14+30	11.2463	1.02			IO				
14+31	11.1768	1.01			IO				
14+32	11.1077	1.01			IO				
14+33	11.0391	1.00			IO				
14+34	10.9709	0.99			O				
14+35	10.9031	0.99			O				
14+36	10.8357	0.98			O				
14+37	10.7687	0.98			O				
14+38	10.7022	0.97			O				
14+39	10.6361	0.96			O				
14+40	10.5703	0.96			O				
14+41	10.5050	0.95			O				
14+42	10.4401	0.95			O				
14+43	10.3756	0.94			O				
14+44	10.3115	0.93			O				
14+45	10.2478	0.93			O				
14+46	10.1845	0.92			O				
14+47	10.1215	0.92			IO				
14+48	10.0590	0.91			IO				
14+49	9.9968	0.91			O				
14+50	9.9350	0.90			O				
14+51	9.8737	0.89			O				
14+52	9.8126	0.89			O				
14+53	9.7520	0.88			O				
14+54	9.6918	0.88			O				
14+55	9.6319	0.87			O				
14+56	9.5723	0.87			O				
14+57	9.5132	0.86			O				
14+58	9.4544	0.86			O				
14+59	9.3960	0.85			O				
15+ 0	9.3379	0.85			O				
15+ 1	9.2802	0.84			O				
15+ 2	9.2229	0.84			O				

15+ 3	9.1659	0.83	O				
15+ 4	9.1093	0.82	IO				
15+ 5	9.0530	0.82	IO				
15+ 6	8.9970	0.81	O				
15+ 7	8.9414	0.81	O				
15+ 8	8.8862	0.80	O				
15+ 9	8.8313	0.80	O				
15+10	8.7767	0.79	O				
15+11	8.7225	0.79	O				
15+12	8.6686	0.78	O				
15+13	8.6150	0.78	O				
15+14	8.5618	0.78	O				
15+15	8.5089	0.77	O				
15+16	8.4563	0.77	O				
15+17	8.4040	0.76	O				
15+18	8.3521	0.76	O				
15+19	8.3005	0.75	O				
15+20	8.2492	0.75	O				
15+21	8.1982	0.74	O				
15+22	8.1476	0.74	O				
15+23	8.0972	0.73	IO				
15+24	8.0472	0.73	IO				
15+25	7.9975	0.72	O				
15+26	7.9481	0.72	O				
15+27	7.8989	0.72	O				
15+28	7.8501	0.71	O				
15+29	7.8016	0.71	O				
15+30	7.7534	0.70	O				
15+31	7.7055	0.70	O				
15+32	7.6579	0.69	O				
15+33	7.6106	0.69	O				
15+34	7.5635	0.68	O				
15+35	7.5168	0.68	O				
15+36	7.4704	0.68	O				
15+37	7.4242	0.67	O				
15+38	7.3783	0.67	O				
15+39	7.3327	0.66	O				
15+40	7.2874	0.66	O				
15+41	7.2424	0.66	O				
15+42	7.1976	0.65	O				
15+43	7.1532	0.65	O				
15+44	7.1090	0.64	O				
15+45	7.0650	0.64	IO				
15+46	7.0214	0.64	IO				
15+47	6.9780	0.63	O				
15+48	6.9349	0.63	O				
15+49	6.8920	0.62	O				
15+50	6.8494	0.62	O				
15+51	6.8071	0.62	O				
15+52	6.7651	0.61	O				
15+53	6.7232	0.61	O				
15+54	6.6817	0.60	O				
15+55	6.6404	0.60	O				
15+56	6.5994	0.60	O				
15+57	6.5586	0.59	O				
15+58	6.5181	0.59	O				
15+59	6.4778	0.59	O				
16+ 0	6.4378	0.58	O				
16+ 1	6.3980	0.58	O				
16+ 2	6.3585	0.58	O				
16+ 3	6.3192	0.57	O				
16+ 4	6.2801	0.57	O				
16+ 5	6.2413	0.57	O				
16+ 6	6.2028	0.56	O				
16+ 7	6.1644	0.56	O				
16+ 8	6.1263	0.55	O				
16+ 9	6.0885	0.55	O				
16+10	6.0509	0.55	IO				
16+11	6.0135	0.54	IO				
16+12	5.9763	0.54	O				
16+13	5.9394	0.54	O				

16+14	5.9027	0.53	O						
16+15	5.8662	0.53	O						
16+16	5.8300	0.53	O						
16+17	5.7939	0.52	O						
16+18	5.7581	0.52	O						
16+19	5.7225	0.52	O						
16+20	5.6872	0.51	O						
16+21	5.6520	0.51	O						
16+22	5.6171	0.51	O						
16+23	5.5824	0.51	O						
16+24	5.5479	0.50	O						
16+25	5.5136	0.50	O						
16+26	5.4796	0.50	O						
16+27	5.4457	0.49	O						
16+28	5.4121	0.49	O						
16+29	5.3786	0.49	O						
16+30	5.3454	0.48	O						
16+31	5.3123	0.48	O						
16+32	5.2795	0.48	O						
16+33	5.2469	0.48	O						
16+34	5.2145	0.47	O						
16+35	5.1823	0.47	O						
16+36	5.1502	0.47	O						
16+37	5.1184	0.46	O						
16+38	5.0868	0.46	O						
16+39	5.0553	0.46	IO						
16+40	5.0241	0.45	IO						
16+41	4.9931	0.45	O						
16+42	4.9622	0.45	O						
16+43	4.9315	0.45	O						
16+44	4.9011	0.44	O						
16+45	4.8708	0.44	O						
16+46	4.8407	0.44	O						
16+47	4.8108	0.44	O						
16+48	4.7811	0.43	O						
16+49	4.7515	0.43	O						
16+50	4.7222	0.43	O						
16+51	4.6930	0.42	O						
16+52	4.6640	0.42	O						
16+53	4.6352	0.42	O						
16+54	4.6065	0.42	O						
16+55	4.5780	0.41	O						
16+56	4.5498	0.41	O						
16+57	4.5216	0.41	O						
16+58	4.4937	0.41	O						
16+59	4.4659	0.40	O						
17+ 0	4.4383	0.40	O						
17+ 1	4.4109	0.40	O						
17+ 2	4.3837	0.40	O						
17+ 3	4.3566	0.39	O						
17+ 4	4.3297	0.39	O						
17+ 5	4.3029	0.39	O						
17+ 6	4.2763	0.39	O						
17+ 7	4.2499	0.38	O						
17+ 8	4.2236	0.38	O						
17+ 9	4.1975	0.38	O						
17+10	4.1716	0.38	O						
17+11	4.1458	0.38	O						
17+12	4.1202	0.37	O						
17+13	4.0947	0.37	O						
17+14	4.0694	0.37	O						
17+15	4.0443	0.37	IO						
17+16	4.0193	0.36	IO						
17+17	3.9945	0.36	O						
17+18	3.9698	0.36	O						
17+19	3.9452	0.36	O						
17+20	3.9209	0.36	O						
17+21	3.8966	0.35	O						
17+22	3.8726	0.35	O						
17+23	3.8486	0.35	O						
17+24	3.8249	0.35	O						

17+25	3.8012	0.34		0					
17+26	3.7777	0.34		0					
17+27	3.7544	0.34		0					
17+28	3.7312	0.34		0					
17+29	3.7081	0.34		0					
17+30	3.6852	0.33		0					
17+31	3.6624	0.33		0					
17+32	3.6398	0.33		0					
17+33	3.6173	0.33		0					
17+34	3.5950	0.33		0					
17+35	3.5728	0.32		0					
17+36	3.5507	0.32		0					
17+37	3.5287	0.32		0					
17+38	3.5069	0.32		0					
17+39	3.4853	0.32		0					
17+40	3.4637	0.31		0					
17+41	3.4423	0.31		0					
17+42	3.4211	0.31		0					
17+43	3.3999	0.31		0					
17+44	3.3789	0.31		0					
17+45	3.3580	0.30		0					
17+46	3.3373	0.30		0					
17+47	3.3167	0.30		0					
17+48	3.2962	0.30		0					
17+49	3.2758	0.30		0					
17+50	3.2556	0.29		0					
17+51	3.2354	0.29		0					
17+52	3.2154	0.29		0					
17+53	3.1956	0.29		0					
17+54	3.1758	0.29		0					
17+55	3.1562	0.29		0					
17+56	3.1367	0.28		0					
17+57	3.1173	0.28		0					
17+58	3.0981	0.28		0					
17+59	3.0789	0.28		0					
18+ 0	3.0599	0.28		0					
18+ 1	3.0410	0.28		0					
18+ 2	3.0222	0.27		IO					
18+ 3	3.0035	0.27		IO					
18+ 4	2.9850	0.27		0					
18+ 5	2.9665	0.27		0					
18+ 6	2.9482	0.27		0					
18+ 7	2.9300	0.27		0					
18+ 8	2.9119	0.26		0					
18+ 9	2.8939	0.26		0					
18+10	2.8760	0.26		0					
18+11	2.8582	0.26		0					
18+12	2.8406	0.26		0					
18+13	2.8230	0.26		0					
18+14	2.8056	0.25		0					
18+15	2.7882	0.25		0					
18+16	2.7710	0.25		0					
18+17	2.7539	0.25		0					
18+18	2.7369	0.25		0					
18+19	2.7199	0.25		0					
18+20	2.7031	0.24		0					
18+21	2.6864	0.24		0					
18+22	2.6698	0.24		0					
18+23	2.6533	0.24		0					
18+24	2.6369	0.24		0					
18+25	2.6206	0.24		0					
18+26	2.6044	0.24		0					
18+27	2.5884	0.23		0					
18+28	2.5724	0.23		0					
18+29	2.5565	0.23		0					
18+30	2.5407	0.23		0					
18+31	2.5250	0.23		0					
18+32	2.5094	0.23		0					
18+33	2.4939	0.23		0					
18+34	2.4785	0.22		0					
18+35	2.4631	0.22		0					

18+36	2.4479	0.22		O					
18+37	2.4328	0.22		O					
18+38	2.4178	0.22		O					
18+39	2.4028	0.22		O					
18+40	2.3880	0.22		O					
18+41	2.3732	0.21		O					
18+42	2.3586	0.21		O					
18+43	2.3440	0.21		O					
18+44	2.3295	0.21		O					
18+45	2.3151	0.21		O					
18+46	2.3008	0.21		O					
18+47	2.2866	0.21		O					
18+48	2.2724	0.21		O					
18+49	2.2584	0.20		O					
18+50	2.2445	0.20		O					
18+51	2.2306	0.20		O					
18+52	2.2168	0.20		O					
18+53	2.2031	0.20		O					
18+54	2.1895	0.20		O					
18+55	2.1760	0.20		O					
18+56	2.1625	0.20		O					
18+57	2.1491	0.19		O					
18+58	2.1359	0.19		O					
18+59	2.1227	0.19		O					
19+ 0	2.1096	0.19		O					
19+ 1	2.0965	0.19		O					
19+ 2	2.0836	0.19		O					
19+ 3	2.0707	0.19		O					
19+ 4	2.0579	0.19		O					
19+ 5	2.0452	0.19		O					
19+ 6	2.0325	0.18		O					
19+ 7	2.0200	0.18		IO					
19+ 8	2.0075	0.18		IO					
19+ 9	1.9951	0.18		O					
19+10	1.9828	0.18		O					
19+11	1.9705	0.18		O					
19+12	1.9583	0.18		O					
19+13	1.9462	0.18		O					
19+14	1.9342	0.18		O					
19+15	1.9223	0.17		O					
19+16	1.9104	0.17		O					
19+17	1.8986	0.17		O					
19+18	1.8868	0.17		O					
19+19	1.8752	0.17		O					
19+20	1.8636	0.17		O					
19+21	1.8521	0.17		O					
19+22	1.8406	0.17		O					
19+23	1.8293	0.17		O					
19+24	1.8180	0.16		O					
19+25	1.8067	0.16		O					
19+26	1.7956	0.16		O					
19+27	1.7845	0.16		O					
19+28	1.7734	0.16		O					
19+29	1.7625	0.16		O					
19+30	1.7516	0.16		O					
19+31	1.7408	0.16		O					
19+32	1.7300	0.16		O					
19+33	1.7193	0.16		O					
19+34	1.7087	0.15		O					
19+35	1.6981	0.15		O					
19+36	1.6876	0.15		O					
19+37	1.6772	0.15		O					
19+38	1.6669	0.15		O					
19+39	1.6566	0.15		O					
19+40	1.6463	0.15		O					
19+41	1.6361	0.15		O					
19+42	1.6260	0.15		O					
19+43	1.6160	0.15		O					
19+44	1.6060	0.15		O					
19+45	1.5961	0.14		O					
19+46	1.5862	0.14		O					

19+47	1.5764	0.14	O					
19+48	1.5667	0.14	O					
19+49	1.5570	0.14	O					
19+50	1.5474	0.14	O					
19+51	1.5378	0.14	O					
19+52	1.5283	0.14	O					
19+53	1.5189	0.14	O					
19+54	1.5095	0.14	O					
19+55	1.5002	0.14	O					
19+56	1.4909	0.13	O					
19+57	1.4817	0.13	O					
19+58	1.4725	0.13	O					
19+59	1.4634	0.13	O					
20+ 0	1.4544	0.13	O					
20+ 1	1.4454	0.13	O					
20+ 2	1.4365	0.13	O					
20+ 3	1.4276	0.13	O					
20+ 4	1.4188	0.13	O					
20+ 5	1.4100	0.13	O					
20+ 6	1.4013	0.13	O					
20+ 7	1.3926	0.13	O					
20+ 8	1.3840	0.13	O					
20+ 9	1.3755	0.12	O					
20+10	1.3670	0.12	O					
20+11	1.3585	0.12	O					
20+12	1.3501	0.12	O					
20+13	1.3418	0.12	O					
20+14	1.3335	0.12	O					
20+15	1.3252	0.12	O					
20+16	1.3171	0.12	O					
20+17	1.3089	0.12	O					
20+18	1.3008	0.12	O					
20+19	1.2928	0.12	O					
20+20	1.2848	0.12	O					
20+21	1.2769	0.12	O					
20+22	1.2690	0.11	O					
20+23	1.2611	0.11	O					
20+24	1.2533	0.11	O					
20+25	1.2456	0.11	O					
20+26	1.2379	0.11	O					
20+27	1.2303	0.11	O					
20+28	1.2227	0.11	O					
20+29	1.2151	0.11	O					
20+30	1.2076	0.11	O					
20+31	1.2001	0.11	O					
20+32	1.1927	0.11	O					
20+33	1.1853	0.11	O					
20+34	1.1780	0.11	O					
20+35	1.1707	0.11	O					
20+36	1.1635	0.11	O					
20+37	1.1563	0.10	O					
20+38	1.1492	0.10	O					
20+39	1.1421	0.10	O					
20+40	1.1350	0.10	O					
20+41	1.1280	0.10	O					
20+42	1.1210	0.10	O					
20+43	1.1141	0.10	O					
20+44	1.1072	0.10	O					
20+45	1.1004	0.10	O					
20+46	1.0936	0.10	O					
20+47	1.0868	0.10	O					
20+48	1.0801	0.10	O					
20+49	1.0734	0.10	O					
20+50	1.0668	0.10	O					
20+51	1.0602	0.10	O					
20+52	1.0536	0.10	O					
20+53	1.0471	0.09	O					
20+54	1.0407	0.09	O					
20+55	1.0342	0.09	O					
20+56	1.0278	0.09	O					
20+57	1.0215	0.09	O					

20+58	1.0152	0.09	IO				
20+59	1.0089	0.09	IO				
21+ 0	1.0027	0.09	IO				
21+ 1	0.9965	0.09	O				
21+ 2	0.9903	0.09	O				
21+ 3	0.9842	0.09	O				
21+ 4	0.9781	0.09	O				
21+ 5	0.9721	0.09	O				
21+ 6	0.9661	0.09	O				
21+ 7	0.9601	0.09	O				
21+ 8	0.9542	0.09	O				
21+ 9	0.9483	0.09	O				
21+10	0.9424	0.09	O				
21+11	0.9366	0.08	O				
21+12	0.9308	0.08	O				
21+13	0.9251	0.08	O				
21+14	0.9193	0.08	O				
21+15	0.9137	0.08	O				
21+16	0.9080	0.08	O				
21+17	0.9024	0.08	O				
21+18	0.8968	0.08	O				
21+19	0.8913	0.08	O				
21+20	0.8858	0.08	O				
21+21	0.8803	0.08	O				
21+22	0.8749	0.08	O				
21+23	0.8695	0.08	O				
21+24	0.8641	0.08	O				
21+25	0.8587	0.08	O				
21+26	0.8534	0.08	O				
21+27	0.8482	0.08	O				
21+28	0.8429	0.08	O				
21+29	0.8377	0.08	O				
21+30	0.8325	0.08	O				
21+31	0.8274	0.07	O				
21+32	0.8223	0.07	O				
21+33	0.8172	0.07	O				
21+34	0.8121	0.07	O				
21+35	0.8071	0.07	O				
21+36	0.8021	0.07	O				
21+37	0.7972	0.07	O				
21+38	0.7923	0.07	O				
21+39	0.7874	0.07	O				
21+40	0.7825	0.07	O				
21+41	0.7777	0.07	O				
21+42	0.7729	0.07	O				
21+43	0.7681	0.07	O				
21+44	0.7633	0.07	O				
21+45	0.7586	0.07	O				
21+46	0.7539	0.07	O				
21+47	0.7493	0.07	O				
21+48	0.7446	0.07	O				
21+49	0.7400	0.07	O				
21+50	0.7355	0.07	O				
21+51	0.7309	0.07	O				
21+52	0.7264	0.07	O				
21+53	0.7219	0.07	O				
21+54	0.7175	0.06	O				
21+55	0.7130	0.06	O				
21+56	0.7086	0.06	O				
21+57	0.7042	0.06	O				
21+58	0.6999	0.06	O				
21+59	0.6956	0.06	O				
22+ 0	0.6913	0.06	O				
22+ 1	0.6870	0.06	O				
22+ 2	0.6828	0.06	O				
22+ 3	0.6785	0.06	O				
22+ 4	0.6743	0.06	O				
22+ 5	0.6702	0.06	O				
22+ 6	0.6660	0.06	O				
22+ 7	0.6619	0.06	O				
22+ 8	0.6578	0.06	O				

22+ 9	0.6538	0.06	0				
22+10	0.6497	0.06	0				
22+11	0.6457	0.06	0				
22+12	0.6417	0.06	0				
22+13	0.6378	0.06	0				
22+14	0.6338	0.06	0				
22+15	0.6299	0.06	0				
22+16	0.6260	0.06	0				
22+17	0.6221	0.06	0				
22+18	0.6183	0.06	0				
22+19	0.6145	0.06	0				
22+20	0.6107	0.06	0				
22+21	0.6069	0.05	0				
22+22	0.6031	0.05	0				
22+23	0.5994	0.05	0				
22+24	0.5957	0.05	0				
22+25	0.5920	0.05	0				
22+26	0.5884	0.05	0				
22+27	0.5847	0.05	0				
22+28	0.5811	0.05	0				
22+29	0.5775	0.05	0				
22+30	0.5740	0.05	0				
22+31	0.5704	0.05	0				
22+32	0.5669	0.05	0				
22+33	0.5634	0.05	0				
22+34	0.5599	0.05	0				
22+35	0.5565	0.05	0				
22+36	0.5530	0.05	0				
22+37	0.5496	0.05	0				
22+38	0.5462	0.05	0				
22+39	0.5428	0.05	0				
22+40	0.5395	0.05	0				
22+41	0.5361	0.05	0				
22+42	0.5328	0.05	0				
22+43	0.5295	0.05	0				
22+44	0.5263	0.05	0				
22+45	0.5230	0.05	0				
22+46	0.5198	0.05	0				
22+47	0.5166	0.05	0				
22+48	0.5134	0.05	0				
22+49	0.5102	0.05	0				
22+50	0.5070	0.05	0				
22+51	0.5039	0.05	0				
22+52	0.5008	0.05	0				
22+53	0.4977	0.05	0				
22+54	0.4946	0.04	0				
22+55	0.4916	0.04	0				
22+56	0.4885	0.04	0				
22+57	0.4855	0.04	0				
22+58	0.4825	0.04	0				
22+59	0.4795	0.04	0				
23+ 0	0.4766	0.04	0				
23+ 1	0.4736	0.04	0				
23+ 2	0.4707	0.04	0				
23+ 3	0.4678	0.04	0				
23+ 4	0.4649	0.04	0				
23+ 5	0.4620	0.04	0				
23+ 6	0.4592	0.04	0				
23+ 7	0.4563	0.04	0				
23+ 8	0.4535	0.04	0				
23+ 9	0.4507	0.04	0				
23+10	0.4479	0.04	0				
23+11	0.4452	0.04	0				
23+12	0.4424	0.04	0				
23+13	0.4397	0.04	0				
23+14	0.4370	0.04	0				
23+15	0.4343	0.04	0				
23+16	0.4316	0.04	0				
23+17	0.4289	0.04	0				
23+18	0.4263	0.04	0				
23+19	0.4236	0.04	0				

23+20	0.4210	0.04	0				
23+21	0.4184	0.04	0				
23+22	0.4158	0.04	0				
23+23	0.4133	0.04	0				
23+24	0.4107	0.04	0				
23+25	0.4082	0.04	0				
23+26	0.4056	0.04	0				
23+27	0.4031	0.04	0				
23+28	0.4006	0.04	0				
23+29	0.3982	0.04	0				
23+30	0.3957	0.04	0				
23+31	0.3933	0.04	0				
23+32	0.3908	0.04	0				
23+33	0.3884	0.04	0				
23+34	0.3860	0.03	0				
23+35	0.3836	0.03	0				
23+36	0.3813	0.03	0				
23+37	0.3789	0.03	0				
23+38	0.3766	0.03	0				
23+39	0.3742	0.03	0				
23+40	0.3719	0.03	0				
23+41	0.3696	0.03	0				
23+42	0.3673	0.03	0				
23+43	0.3651	0.03	0				
23+44	0.3628	0.03	0				
23+45	0.3606	0.03	0				
23+46	0.3583	0.03	0				
23+47	0.3561	0.03	0				
23+48	0.3539	0.03	0				
23+49	0.3517	0.03	0				
23+50	0.3496	0.03	0				
23+51	0.3474	0.03	0				
23+52	0.3453	0.03	0				
23+53	0.3431	0.03	0				
23+54	0.3410	0.03	0				
23+55	0.3389	0.03	0				
23+56	0.3368	0.03	0				
23+57	0.3347	0.03	0				
23+58	0.3327	0.03	0				
23+59	0.3306	0.03	0				
24+ 0	0.3286	0.03	0				
24+ 1	0.3265	0.03	0				
24+ 2	0.3245	0.03	0				
24+ 3	0.3225	0.03	0				
24+ 4	0.3205	0.03	0				
24+ 5	0.3185	0.03	0				
24+ 6	0.3166	0.03	0				
24+ 7	0.3146	0.03	0				
24+ 8	0.3127	0.03	0				
24+ 9	0.3107	0.03	0				
24+10	0.3088	0.03	0				
24+11	0.3069	0.03	0				
24+12	0.3050	0.03	0				
24+13	0.3031	0.03	0				
24+14	0.3013	0.03	0				
24+15	0.2994	0.03	0				
24+16	0.2975	0.03	0				
24+17	0.2957	0.03	0				
24+18	0.2939	0.03	0				
24+19	0.2921	0.03	0				
24+20	0.2903	0.03	0				
24+21	0.2885	0.03	0				
24+22	0.2867	0.03	0				
24+23	0.2849	0.03	0				
24+24	0.2831	0.03	0				
24+25	0.2814	0.03	0				
24+26	0.2797	0.03	0				
24+27	0.2779	0.03	0				
24+28	0.2762	0.03	0				
24+29	0.2745	0.02	0				
24+30	0.2728	0.02	0				

24+31	0.2711	0.02	0				
24+32	0.2694	0.02	0				
24+33	0.2678	0.02	0				
24+34	0.2661	0.02	0				
24+35	0.2645	0.02	0				
24+36	0.2628	0.02	0				
24+37	0.2612	0.02	0				
24+38	0.2596	0.02	0				
24+39	0.2580	0.02	0				
24+40	0.2564	0.02	0				
24+41	0.2548	0.02	0				
24+42	0.2533	0.02	0				
24+43	0.2517	0.02	0				
24+44	0.2501	0.02	0				
24+45	0.2486	0.02	0				
24+46	0.2471	0.02	0				
24+47	0.2455	0.02	0				
24+48	0.2440	0.02	0				
24+49	0.2425	0.02	0				
24+50	0.2410	0.02	0				
24+51	0.2395	0.02	0				
24+52	0.2380	0.02	0				
24+53	0.2366	0.02	0				
24+54	0.2351	0.02	0				
24+55	0.2336	0.02	0				
24+56	0.2322	0.02	0				
24+57	0.2308	0.02	0				
24+58	0.2293	0.02	0				
24+59	0.2279	0.02	0				
25+ 0	0.2265	0.02	0				
25+ 1	0.2251	0.02	0				
25+ 2	0.2237	0.02	0				
25+ 3	0.2223	0.02	0				
25+ 4	0.2210	0.02	0				
25+ 5	0.2196	0.02	0				
25+ 6	0.2182	0.02	0				
25+ 7	0.2169	0.02	0				
25+ 8	0.2156	0.02	0				
25+ 9	0.2142	0.02	0				
25+10	0.2129	0.02	0				
25+11	0.2116	0.02	0				
25+12	0.2103	0.02	0				
25+13	0.2090	0.02	0				
25+14	0.2077	0.02	0				
25+15	0.2064	0.02	0				
25+16	0.2051	0.02	0				
25+17	0.2039	0.02	0				
25+18	0.2026	0.02	0				
25+19	0.2014	0.02	0				
25+20	0.2001	0.02	0				
25+21	0.1989	0.02	0				
25+22	0.1976	0.02	0				
25+23	0.1964	0.02	0				
25+24	0.1952	0.02	0				
25+25	0.1940	0.02	0				
25+26	0.1928	0.02	0				
25+27	0.1916	0.02	0				
25+28	0.1904	0.02	0				
25+29	0.1892	0.02	0				
25+30	0.1881	0.02	0				
25+31	0.1869	0.02	0				
25+32	0.1858	0.02	0				
25+33	0.1846	0.02	0				
25+34	0.1835	0.02	0				
25+35	0.1823	0.02	0				
25+36	0.1812	0.02	0				
25+37	0.1801	0.02	0				
25+38	0.1790	0.02	0				
25+39	0.1779	0.02	0				
25+40	0.1768	0.02	0				
25+41	0.1757	0.02	0				

25+42	0.1746	0.02	0				
25+43	0.1735	0.02	0				
25+44	0.1724	0.02	0				
25+45	0.1714	0.02	0				
25+46	0.1703	0.02	0				
25+47	0.1693	0.02	0				
25+48	0.1682	0.02	0				
25+49	0.1672	0.02	0				
25+50	0.1662	0.02	0				
25+51	0.1651	0.01	0				
25+52	0.1641	0.01	0				
25+53	0.1631	0.01	0				
25+54	0.1621	0.01	0				
25+55	0.1611	0.01	0				
25+56	0.1601	0.01	0				
25+57	0.1591	0.01	0				
25+58	0.1581	0.01	0				
25+59	0.1571	0.01	0				
26+ 0	0.1562	0.01	0				
26+ 1	0.1552	0.01	0				
26+ 2	0.1542	0.01	0				
26+ 3	0.1533	0.01	0				
26+ 4	0.1523	0.01	0				
26+ 5	0.1514	0.01	0				
26+ 6	0.1505	0.01	0				
26+ 7	0.1495	0.01	0				
26+ 8	0.1486	0.01	0				
26+ 9	0.1477	0.01	0				
26+10	0.1468	0.01	0				
26+11	0.1459	0.01	0				
26+12	0.1450	0.01	0				
26+13	0.1441	0.01	0				
26+14	0.1432	0.01	0				
26+15	0.1423	0.01	0				
26+16	0.1414	0.01	0				
26+17	0.1405	0.01	0				
26+18	0.1397	0.01	0				
26+19	0.1388	0.01	0				
26+20	0.1380	0.01	0				
26+21	0.1371	0.01	0				
26+22	0.1363	0.01	0				
26+23	0.1354	0.01	0				
26+24	0.1346	0.01	0				
26+25	0.1337	0.01	0				
26+26	0.1329	0.01	0				
26+27	0.1321	0.01	0				
26+28	0.1313	0.01	0				
26+29	0.1305	0.01	0				
26+30	0.1297	0.01	0				
26+31	0.1289	0.01	0				
26+32	0.1281	0.01	0				
26+33	0.1273	0.01	0				
26+34	0.1265	0.01	0				
26+35	0.1257	0.01	0				
26+36	0.1249	0.01	0				
26+37	0.1242	0.01	0				
26+38	0.1234	0.01	0				
26+39	0.1226	0.01	0				
26+40	0.1219	0.01	0				
26+41	0.1211	0.01	0				
26+42	0.1204	0.01	0				
26+43	0.1196	0.01	0				
26+44	0.1189	0.01	0				
26+45	0.1182	0.01	0				
26+46	0.1174	0.01	0				
26+47	0.1167	0.01	0				
26+48	0.1160	0.01	0				
26+49	0.1153	0.01	0				
26+50	0.1145	0.01	0				
26+51	0.1138	0.01	0				
26+52	0.1131	0.01	0				

26+53	0.1124	0.01	0				
26+54	0.1117	0.01	0				
26+55	0.1111	0.01	0				
26+56	0.1104	0.01	0				
26+57	0.1097	0.01	0				
26+58	0.1090	0.01	0				
26+59	0.1083	0.01	0				
27+ 0	0.1077	0.01	0				
27+ 1	0.1070	0.01	0				
27+ 2	0.1063	0.01	0				
27+ 3	0.1057	0.01	0				
27+ 4	0.1050	0.01	0				
27+ 5	0.1044	0.01	0				
27+ 6	0.1037	0.01	0				
27+ 7	0.1031	0.01	0				
27+ 8	0.1025	0.01	0				
27+ 9	0.1018	0.01	0				
27+10	0.1012	0.01	0				
27+11	0.1006	0.01	0				
27+12	0.0999	0.01	0				
27+13	0.0993	0.01	0				
27+14	0.0987	0.01	0				
27+15	0.0981	0.01	0				
27+16	0.0975	0.01	0				
27+17	0.0969	0.01	0				
27+18	0.0963	0.01	0				
27+19	0.0957	0.01	0				
27+20	0.0951	0.01	0				
27+21	0.0945	0.01	0				
27+22	0.0939	0.01	0				
27+23	0.0934	0.01	0				
27+24	0.0928	0.01	0				
27+25	0.0922	0.01	0				
27+26	0.0916	0.01	0				
27+27	0.0911	0.01	0				
27+28	0.0905	0.01	0				
27+29	0.0900	0.01	0				
27+30	0.0894	0.01	0				
27+31	0.0888	0.01	0				
27+32	0.0883	0.01	0				
27+33	0.0877	0.01	0				
27+34	0.0872	0.01	0				
27+35	0.0867	0.01	0				
27+36	0.0861	0.01	0				
27+37	0.0856	0.01	0				
27+38	0.0851	0.01	0				
27+39	0.0845	0.01	0				
27+40	0.0840	0.01	0				
27+41	0.0835	0.01	0				
27+42	0.0830	0.01	0				
27+43	0.0825	0.01	0				
27+44	0.0820	0.01	0				
27+45	0.0815	0.01	0				
27+46	0.0810	0.01	0				
27+47	0.0805	0.01	0				
27+48	0.0800	0.01	0				
27+49	0.0795	0.01	0				
27+50	0.0790	0.01	0				
27+51	0.0785	0.01	0				
27+52	0.0780	0.01	0				
27+53	0.0775	0.01	0				
27+54	0.0770	0.01	0				
27+55	0.0766	0.01	0				
27+56	0.0761	0.01	0				
27+57	0.0756	0.01	0				
27+58	0.0752	0.01	0				
27+59	0.0747	0.01	0				
28+ 0	0.0742	0.01	0				
28+ 1	0.0738	0.01	0				
28+ 2	0.0733	0.01	0				
28+ 3	0.0729	0.01	0				

28+ 4	0.0724	0.01	o				
28+ 5	0.0720	0.01	o				
28+ 6	0.0715	0.01	o				
28+ 7	0.0711	0.01	o				
28+ 8	0.0706	0.01	o				
28+ 9	0.0702	0.01	o				
28+10	0.0698	0.01	o				
28+11	0.0693	0.01	o				
28+12	0.0689	0.01	o				
28+13	0.0685	0.01	o				
28+14	0.0681	0.01	o				
28+15	0.0676	0.01	o				
28+16	0.0672	0.01	o				
28+17	0.0668	0.01	o				
28+18	0.0664	0.01	o				
28+19	0.0660	0.01	o				
28+20	0.0656	0.01	o				
28+21	0.0652	0.01	o				
28+22	0.0648	0.01	o				
28+23	0.0644	0.01	o				
28+24	0.0640	0.01	o				
28+25	0.0636	0.01	o				
28+26	0.0632	0.01	o				
28+27	0.0628	0.01	o				
28+28	0.0624	0.01	o				
28+29	0.0620	0.01	o				
28+30	0.0616	0.01	o				
28+31	0.0613	0.01	o				
28+32	0.0609	0.01	o				
28+33	0.0605	0.01	o				
28+34	0.0601	0.01	o				
28+35	0.0598	0.01	o				
28+36	0.0594	0.01	o				
28+37	0.0590	0.01	o				
28+38	0.0586	0.01	o				
28+39	0.0583	0.01	o				
28+40	0.0579	0.01	o				
28+41	0.0576	0.01	o				
28+42	0.0572	0.01	o				
28+43	0.0569	0.01	o				
28+44	0.0565	0.01	o				
28+45	0.0562	0.01	o				
28+46	0.0558	0.01	o				
28+47	0.0555	0.01	o				
28+48	0.0551	0.00	o				
28+49	0.0548	0.00	o				
28+50	0.0544	0.00	o				
28+51	0.0541	0.00	o				
28+52	0.0538	0.00	o				
28+53	0.0534	0.00	o				
28+54	0.0531	0.00	o				
28+55	0.0528	0.00	o				
28+56	0.0525	0.00	o				
28+57	0.0521	0.00	o				
28+58	0.0518	0.00	o				
28+59	0.0515	0.00	o				
29+ 0	0.0512	0.00	o				
29+ 1	0.0509	0.00	o				
29+ 2	0.0505	0.00	o				
29+ 3	0.0502	0.00	o				
29+ 4	0.0499	0.00	o				
29+ 5	0.0496	0.00	o				
29+ 6	0.0493	0.00	o				
29+ 7	0.0490	0.00	o				
29+ 8	0.0487	0.00	o				
29+ 9	0.0484	0.00	o				
29+10	0.0481	0.00	o				
29+11	0.0478	0.00	o				
29+12	0.0475	0.00	o				
29+13	0.0472	0.00	o				
29+14	0.0469	0.00	o				

29+15	0.0466	0.00	0				
29+16	0.0463	0.00	0				
29+17	0.0461	0.00	0				
29+18	0.0458	0.00	0				
29+19	0.0455	0.00	0				
29+20	0.0452	0.00	0				
29+21	0.0449	0.00	0				
29+22	0.0446	0.00	0				
29+23	0.0444	0.00	0				
29+24	0.0441	0.00	0				
29+25	0.0438	0.00	0				
29+26	0.0436	0.00	0				
29+27	0.0433	0.00	0				
29+28	0.0430	0.00	0				
29+29	0.0428	0.00	0				
29+30	0.0425	0.00	0				
29+31	0.0422	0.00	0				
29+32	0.0420	0.00	0				
29+33	0.0417	0.00	0				
29+34	0.0414	0.00	0				
29+35	0.0412	0.00	0				
29+36	0.0409	0.00	0				
29+37	0.0407	0.00	0				
29+38	0.0404	0.00	0				
29+39	0.0402	0.00	0				
29+40	0.0399	0.00	0				
29+41	0.0397	0.00	0				
29+42	0.0394	0.00	0				
29+43	0.0392	0.00	0				
29+44	0.0390	0.00	0				
29+45	0.0387	0.00	0				
29+46	0.0385	0.00	0				
29+47	0.0382	0.00	0				
29+48	0.0380	0.00	0				
29+49	0.0378	0.00	0				
29+50	0.0375	0.00	0				
29+51	0.0373	0.00	0				
29+52	0.0371	0.00	0				
29+53	0.0368	0.00	0				
29+54	0.0366	0.00	0				
29+55	0.0364	0.00	0				
29+56	0.0362	0.00	0				
29+57	0.0359	0.00	0				
29+58	0.0357	0.00	0				
29+59	0.0355	0.00	0				
30+ 0	0.0353	0.00	0				
30+ 1	0.0351	0.00	0				
30+ 2	0.0348	0.00	0				
30+ 3	0.0346	0.00	0				
30+ 4	0.0344	0.00	0				
30+ 5	0.0342	0.00	0				
30+ 6	0.0340	0.00	0				
30+ 7	0.0338	0.00	0				
30+ 8	0.0336	0.00	0				
30+ 9	0.0334	0.00	0				
30+10	0.0332	0.00	0				
30+11	0.0330	0.00	0				
30+12	0.0328	0.00	0				
30+13	0.0325	0.00	0				
30+14	0.0323	0.00	0				
30+15	0.0321	0.00	0				
30+16	0.0319	0.00	0				
30+17	0.0318	0.00	0				
30+18	0.0316	0.00	0				
30+19	0.0314	0.00	0				
30+20	0.0312	0.00	0				
30+21	0.0310	0.00	0				
30+22	0.0308	0.00	0				
30+23	0.0306	0.00	0				
30+24	0.0304	0.00	0				
30+25	0.0302	0.00	0				

30+26	0.0300	0.00	0				
30+27	0.0298	0.00	0				
30+28	0.0297	0.00	0				
30+29	0.0295	0.00	0				
30+30	0.0293	0.00	0				
30+31	0.0291	0.00	0				
30+32	0.0289	0.00	0				
30+33	0.0288	0.00	0				
30+34	0.0286	0.00	0				
30+35	0.0284	0.00	0				
30+36	0.0282	0.00	0				
30+37	0.0280	0.00	0				
30+38	0.0279	0.00	0				
30+39	0.0277	0.00	0				
30+40	0.0275	0.00	0				
30+41	0.0274	0.00	0				
30+42	0.0272	0.00	0				
30+43	0.0270	0.00	0				
30+44	0.0269	0.00	0				
30+45	0.0267	0.00	0				
30+46	0.0265	0.00	0				
30+47	0.0264	0.00	0				
30+48	0.0262	0.00	0				
30+49	0.0260	0.00	0				
30+50	0.0259	0.00	0				
30+51	0.0257	0.00	0				
30+52	0.0256	0.00	0				
30+53	0.0254	0.00	0				
30+54	0.0252	0.00	0				
30+55	0.0251	0.00	0				
30+56	0.0249	0.00	0				
30+57	0.0248	0.00	0				
30+58	0.0246	0.00	0				
30+59	0.0245	0.00	0				
31+ 0	0.0243	0.00	0				
31+ 1	0.0242	0.00	0				
31+ 2	0.0240	0.00	0				
31+ 3	0.0239	0.00	0				
31+ 4	0.0237	0.00	0				
31+ 5	0.0236	0.00	0				
31+ 6	0.0234	0.00	0				
31+ 7	0.0233	0.00	0				
31+ 8	0.0231	0.00	0				
31+ 9	0.0230	0.00	0				
31+10	0.0229	0.00	0				
31+11	0.0227	0.00	0				
31+12	0.0226	0.00	0				
31+13	0.0224	0.00	0				
31+14	0.0223	0.00	0				
31+15	0.0222	0.00	0				
31+16	0.0220	0.00	0				
31+17	0.0219	0.00	0				
31+18	0.0218	0.00	0				
31+19	0.0216	0.00	0				
31+20	0.0215	0.00	0				
31+21	0.0214	0.00	0				
31+22	0.0212	0.00	0				
31+23	0.0211	0.00	0				
31+24	0.0210	0.00	0				
31+25	0.0208	0.00	0				
31+26	0.0207	0.00	0				
31+27	0.0206	0.00	0				
31+28	0.0204	0.00	0				
31+29	0.0203	0.00	0				
31+30	0.0202	0.00	0				
31+31	0.0201	0.00	0				
31+32	0.0199	0.00	0				
31+33	0.0198	0.00	0				
31+34	0.0197	0.00	0				
31+35	0.0196	0.00	0				
31+36	0.0195	0.00	0				

31+37	0.0193	0.00	O				
31+38	0.0192	0.00	O				
31+39	0.0191	0.00	O				
31+40	0.0190	0.00	O				
31+41	0.0189	0.00	O				
31+42	0.0187	0.00	O				
31+43	0.0186	0.00	O				
31+44	0.0185	0.00	O				
31+45	0.0184	0.00	O				
31+46	0.0183	0.00	O				
31+47	0.0182	0.00	O				
31+48	0.0181	0.00	O				
31+49	0.0180	0.00	O				
31+50	0.0178	0.00	O				
31+51	0.0177	0.00	O				
31+52	0.0176	0.00	O				
31+53	0.0175	0.00	O				
31+54	0.0174	0.00	O				
31+55	0.0173	0.00	O				
31+56	0.0172	0.00	O				
31+57	0.0171	0.00	O				
31+58	0.0170	0.00	O				
31+59	0.0169	0.00	O				
32+ 0	0.0168	0.00	O				
32+ 1	0.0167	0.00	O				
32+ 2	0.0166	0.00	O				
32+ 3	0.0165	0.00	O				
32+ 4	0.0164	0.00	O				
32+ 5	0.0163	0.00	O				
32+ 6	0.0162	0.00	O				
32+ 7	0.0161	0.00	O				
32+ 8	0.0160	0.00	O				
32+ 9	0.0159	0.00	O				
32+10	0.0158	0.00	O				
32+11	0.0157	0.00	O				
32+12	0.0156	0.00	O				
32+13	0.0155	0.00	O				
32+14	0.0154	0.00	O				
32+15	0.0153	0.00	O				
32+16	0.0152	0.00	O				
32+17	0.0151	0.00	O				
32+18	0.0150	0.00	O				
32+19	0.0149	0.00	O				
32+20	0.0148	0.00	O				
32+21	0.0147	0.00	O				
32+22	0.0146	0.00	O				
32+23	0.0145	0.00	O				
32+24	0.0145	0.00	O				
32+25	0.0144	0.00	O				
32+26	0.0143	0.00	O				
32+27	0.0142	0.00	O				
32+28	0.0141	0.00	O				
32+29	0.0140	0.00	O				
32+30	0.0139	0.00	O				
32+31	0.0138	0.00	O				

 *****HYDROGRAPH DATA*****

Number of intervals = 1951
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 3.670 (CFS)
 Total volume = 2.975 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

 ++++++

Process from Point/Station 724.000 to Point/Station 724.000
 **** ADD/COMBINE/RECOVER HYDROGRAPHS ****

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratbas5.rte

+++++

P R I N T O F S T O R M

R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	17.6	35.3	52.9	70.6
0+ 1	0.1307	0.23	Q				
0+ 2	0.2614	0.46	Q				
0+ 3	0.3922	0.69	Q				
0+ 4	0.5229	0.93	Q				
0+ 5	0.6536	1.17	Q				
0+ 6	0.7843	1.41	Q				
0+ 7	0.9150	1.65	Q				
0+ 8	1.0458	1.90	IQ				
0+ 9	1.1765	2.14	IQ				
0+10	1.3072	2.39	IQ				
0+11	1.3096	2.41	IQ				
0+12	1.3121	2.42	IQ				
0+13	1.3145	2.44	IQ				
0+14	1.3169	2.46	IQ				
0+15	1.3193	2.48	IQ				
0+16	1.3218	2.50	IQ				
0+17	1.3242	2.51	IQ				
0+18	1.3266	2.53	IQ				
0+19	1.3291	2.55	IQ				
0+20	1.3315	2.57	IQ				
0+21	1.3367	2.59	IQ				
0+22	1.3420	2.61	IQ				
0+23	1.3472	2.64	IQ				
0+24	1.3524	2.66	IQ				
0+25	1.3577	2.68	IQ				
0+26	1.3629	2.70	IQ				
0+27	1.3681	2.73	IQ				
0+28	1.3733	2.75	IQ				
0+29	1.3786	2.77	IQ				
0+30	1.3838	2.79	IQ				
0+31	1.3866	2.81	IQ				
0+32	1.3894	2.83	IQ				
0+33	1.3923	2.85	IQ				
0+34	1.3951	2.86	IQ				
0+35	1.3979	2.88	IQ				
0+36	1.4007	2.90	IQ				
0+37	1.4035	2.92	IQ				
0+38	1.4063	2.94	IQ				
0+39	1.4092	2.95	IQ				
0+40	1.4120	2.97	IQ				
0+41	1.4181	2.99	IQ				
0+42	1.4242	3.02	IQ				
0+43	1.4303	3.04	IQ				
0+44	1.4364	3.06	IQ				
0+45	1.4425	3.09	IQ				
0+46	1.4486	3.11	IQ				
0+47	1.4547	3.13	IQ				
0+48	1.4608	3.16	IQ				
0+49	1.4669	3.18	IQ				
0+50	1.4730	3.20	IQ				
0+51	1.4763	3.22	IQ				
0+52	1.4796	3.24	IQ				
0+53	1.4830	3.26	IQ				
0+54	1.4863	3.28	IQ				
0+55	1.4896	3.30	IQ				
0+56	1.4929	3.31	IQ				

0+57	1.4962	3.33	Q				
0+58	1.4995	3.35	Q				
0+59	1.5028	3.37	Q				
1+ 0	1.5062	3.39	Q				
1+ 1	1.5134	3.41	Q				
1+ 2	1.5206	3.44	Q				
1+ 3	1.5279	3.46	Q				
1+ 4	1.5351	3.49	Q				
1+ 5	1.5423	3.51	Q				
1+ 6	1.5496	3.54	qQ				
1+ 7	1.5568	3.56	qQ				
1+ 8	1.5641	3.59	qQ				
1+ 9	1.5713	3.61	qQ				
1+10	1.5785	3.64	qQ				
1+11	1.5825	3.65	qQ				
1+12	1.5865	3.67	qQ				
1+13	1.5904	3.69	qQ				
1+14	1.5944	3.71	qQ				
1+15	1.5984	3.73	qQ				
1+16	1.6023	3.75	qQ				
1+17	1.6063	3.77	qQ				
1+18	1.6103	3.79	qQ				
1+19	1.6142	3.81	qQ				
1+20	1.6182	3.83	qQ				
1+21	1.6270	3.85	qQ				
1+22	1.6357	3.88	qQ				
1+23	1.6445	3.91	qQ				
1+24	1.6532	3.94	qQ				
1+25	1.6620	3.96	qQ				
1+26	1.6707	3.99	qQ				
1+27	1.6795	4.02	qQ				
1+28	1.6882	4.05	qQ				
1+29	1.6970	4.07	qQ				
1+30	1.7058	4.10	qQ				
1+31	1.7106	4.12	qQ				
1+32	1.7155	4.14	qQ				
1+33	1.7203	4.16	qQ				
1+34	1.7252	4.18	qQ				
1+35	1.7300	4.20	qQ				
1+36	1.7349	4.22	qQ				
1+37	1.7397	4.25	qQ				
1+38	1.7446	4.27	qQ				
1+39	1.7494	4.29	qQ				
1+40	1.7543	4.31	qQ				
1+41	1.7651	4.34	qQ				
1+42	1.7760	4.37	qQ				
1+43	1.7869	4.40	qQ				
1+44	1.7977	4.43	qQ				
1+45	1.8086	4.46	qQ				
1+46	1.8194	4.50	qQ				
1+47	1.8303	4.53	qQ				
1+48	1.8412	4.56	qQ				
1+49	1.8520	4.59	qQ				
1+50	1.8629	4.62	qQ				
1+51	1.8690	4.64	qQ				
1+52	1.8751	4.67	qQ				
1+53	1.8812	4.69	qQ				
1+54	1.8873	4.71	qQ				
1+55	1.8934	4.74	qQ				
1+56	1.8995	4.76	qQ				
1+57	1.9056	4.78	qQ				
1+58	1.9118	4.81	qQ				
1+59	1.9179	4.83	qQ				
2+ 0	1.9240	4.85	qQ				
2+ 1	1.9379	4.89	qQ				
2+ 2	1.9518	4.93	qQ				
2+ 3	1.9657	4.96	qQ				
2+ 4	1.9796	5.00	qQ				
2+ 5	1.9935	5.04	qQ				
2+ 6	2.0075	5.08	Q				
2+ 7	2.0214	5.11	Q				

2+ 8	2.0353	5.15	Q					
2+ 9	2.0492	5.19	Q					
2+10	2.0631	5.23	Q					
2+11	2.0711	5.25	Q					
2+12	2.0791	5.28	Q					
2+13	2.0871	5.31	qQ					
2+14	2.0951	5.33	qQ					
2+15	2.1030	5.36	qQ					
2+16	2.1110	5.39	qQ					
2+17	2.1190	5.42	qQ					
2+18	2.1270	5.44	qQ					
2+19	2.1350	5.47	qQ					
2+20	2.1430	5.50	qQ					
2+21	2.1616	5.54	qQ					
2+22	2.1802	5.59	qQ					
2+23	2.1989	5.64	qQ					
2+24	2.2175	5.68	qQ					
2+25	2.2361	5.73	qQ					
2+26	2.2548	5.77	qQ					
2+27	2.2734	5.81	qQ					
2+28	2.2920	5.85	qQ					
2+29	2.3107	5.89	qQ					
2+30	2.3293	5.93	qQ					
2+31	2.3403	5.95	qQ					
2+32	2.3513	5.97	qQ					
2+33	2.3623	6.00	qQ					
2+34	2.3733	6.02	qQ					
2+35	2.3843	6.04	qQ					
2+36	2.3953	6.07	qQ					
2+37	2.4063	6.09	qQ					
2+38	2.4173	6.12	qQ					
2+39	2.4283	6.14	qQ					
2+40	2.4393	6.16	qQ					
2+41	2.4659	6.22	qQ					
2+42	2.4925	6.27	qQ					
2+43	2.5191	6.32	qQ					
2+44	2.5457	6.37	qQ					
2+45	2.5723	6.42	qQ					
2+46	2.5989	6.48	qQ					
2+47	2.6255	6.53	qQ					
2+48	2.6521	6.58	qQ					
2+49	2.6787	6.63	qQ					
2+50	2.7053	6.68	qQ					
2+51	2.7217	6.72	qQ					
2+52	2.7380	6.75	qQ					
2+53	2.7544	6.79	qQ					
2+54	2.7708	6.82	qQ					
2+55	2.7871	6.86	qQ					
2+56	2.8035	6.89	qQ					
2+57	2.8199	6.93	qQ					
2+58	2.8362	6.96	qQ					
2+59	2.8526	7.00	qQ					
3+ 0	2.8690	7.03	qQ					
3+ 1	2.9109	7.11	q Q					
3+ 2	2.9529	7.19	q Q					
3+ 3	2.9949	7.27	q Q					
3+ 4	3.0368	7.35	qQ					
3+ 5	3.0788	7.43	qQ					
3+ 6	3.1208	7.51	qQ					
3+ 7	3.1627	7.59	qQ					
3+ 8	3.2047	7.67	qQ					
3+ 9	3.2466	7.76	qQ					
3+10	3.2886	7.84	qQ					
3+11	3.3163	7.89	qQ					
3+12	3.3440	7.95	qQ					
3+13	3.3717	8.01	qQ					
3+14	3.3994	8.06	qQ					
3+15	3.4272	8.12	qQ					
3+16	3.4549	8.17	qQ					
3+17	3.4826	8.23	qQ					
3+18	3.5103	8.29	qQ					

3+19	3.5380	8.35	qQ						
3+20	3.5657	8.40	qQ						
3+21	3.6450	8.55	qQ						
3+22	3.7242	8.70	qQ						
3+23	3.8035	8.85	q Q						
3+24	3.8828	9.00	q Q						
3+25	3.9620	9.15	q Q						
3+26	4.0413	9.30	qQ						
3+27	4.1206	9.44	qQ						
3+28	4.1998	9.59	qQ						
3+29	4.2791	9.74	qQ						
3+30	4.3584	9.89	qQ						
3+31	4.4189	10.01	qQ						
3+32	4.4795	10.13	qQ						
3+33	4.5401	10.24	qQ						
3+34	4.6007	10.36	qQ						
3+35	4.6613	10.48	qQ						
3+36	4.7219	10.60	q Q						
3+37	4.7825	10.71	q Q						
3+38	4.8430	10.83	q Q						
3+39	4.9036	10.95	q Q						
3+40	4.9642	11.07	q Q						
3+41	5.1967	11.49	qQ						
3+42	5.4292	11.92	qQ						
3+43	5.6617	12.34	qQ						
3+44	5.8941	12.76	q Q						
3+45	6.1266	13.19	qQ						
3+46	6.3591	13.61	qQ						
3+47	6.5916	14.04	qQ						
3+48	6.8241	14.46	q Q						
3+49	7.0566	14.89	qQ						
3+50	7.2890	15.32	qQ						
3+51	7.5871	15.86	qQ						
3+52	7.8852	16.41	q Q						
3+53	8.1833	16.96	qQ						
3+54	8.4815	17.50	qQ						
3+55	8.7796	18.05	q Q						
3+56	9.0777	18.61	qQ						
3+57	9.3758	19.16	qQ						
3+58	9.6739	19.72	q Q						
3+59	9.9720	20.28	q Q						
4+ 0	10.2701	20.85	qQ						
4+ 1	13.0484	25.79		qQ					
4+ 2	15.8267	30.74		q Q					
4+ 3	18.6049	35.70		q Q					
4+ 4	21.3832	40.68		q Q					
4+ 5	24.1615	45.68		qQ					
4+ 6	26.9398	50.69		q Q					
4+ 7	29.7181	55.69		q Q					
4+ 8	32.4964	60.66		q Q					
4+ 9	35.2747	65.62		q Q					
4+10	38.0530	70.55		q Q				q Q	
4+11	34.8323	64.90		q Q				q Q	
4+12	31.6116	59.24		q Q				q Q	
4+13	28.3910	53.57		q Q				q Q	
4+14	25.1703	47.90		q Q				q Q	
4+15	21.9496	42.24		q Q				q Q	
4+16	18.7289	36.57		q Q				q Q	
4+17	15.5083	30.90		q Q				q Q	
4+18	12.2876	25.22		q Q				q Q	
4+19	9.0669	19.55		q Q				q Q	
4+20	5.8462	13.88		q Q				q Q	
4+21	5.6528	13.54		q Q				q Q	
4+22	5.4593	13.21		q Q				q Q	
4+23	5.2658	12.88		q Q				q Q	
4+24	5.0724	12.54		q Q				q Q	
4+25	4.8789	12.20		q Q				q Q	
4+26	4.6854	11.87		q Q				q Q	
4+27	4.4919	11.53		q Q				q Q	
4+28	4.2985	11.19		q Q				q Q	
4+29	4.1050	10.86		q Q				q Q	

4+30	3.9115	10.52	q Q				
4+31	3.8264	10.37	q Q				
4+32	3.7413	10.23	q Q				
4+33	3.6562	10.08	q Q				
4+34	3.5711	9.93	q Q				
4+35	3.4860	9.79	q Q				
4+36	3.4009	9.64	q Q				
4+37	3.3159	9.49	q Q				
4+38	3.2308	9.34	q Q				
4+39	3.1457	9.20	q Q				
4+40	3.0606	9.05	q Q				
4+41	3.0109	8.96	q Q				
4+42	2.9612	8.88	q Q				
4+43	2.9114	8.79	q Q				
4+44	2.8617	8.70	q Q				
4+45	2.8120	8.62	q Q				
4+46	2.7623	8.53	q Q				
4+47	2.7126	8.45	q Q				
4+48	2.6629	8.36	q Q				
4+49	2.6132	8.27	q Q				
4+50	2.5635	8.19	q Q				
4+51	2.5303	8.13	q Q				
4+52	2.4970	8.07	q Q				
4+53	2.4638	8.01	q Q				
4+54	2.4306	7.95	q Q				
4+55	2.3974	7.90	q Q				
4+56	2.3641	7.84	q Q				
4+57	2.3309	7.78	q Q				
4+58	2.2977	7.72	q Q				
4+59	2.2644	7.66	q Q				
5+ 0	2.2312	7.60	q Q				
5+ 1	2.2071	7.56	q Q				
5+ 2	2.1830	7.52	q Q				
5+ 3	2.1590	7.48	q Q				
5+ 4	2.1349	7.44	q Q				
5+ 5	2.1108	7.39	q Q				
5+ 6	2.0867	7.35	q Q				
5+ 7	2.0627	7.31	q Q				
5+ 8	2.0386	7.26	q Q				
5+ 9	2.0145	7.22	q Q				
5+10	1.9904	7.18	q Q				
5+11	1.9721	7.15	q Q				
5+12	1.9537	7.11	q Q				
5+13	1.9353	7.08	q Q				
5+14	1.9169	7.05	q Q				
5+15	1.8985	7.01	q Q				
5+16	1.8801	6.98	q Q				
5+17	1.8617	6.95	q Q				
5+18	1.8433	6.92	q Q				
5+19	1.8249	6.88	q Q				
5+20	1.8065	6.85	q Q				
5+21	1.7919	6.82	q Q				
5+22	1.7773	6.80	q Q				
5+23	1.7627	6.77	q Q				
5+24	1.7481	6.74	q Q				
5+25	1.7335	6.72	q Q				
5+26	1.7189	6.69	q Q				
5+27	1.7043	6.66	q Q				
5+28	1.6897	6.64	q Q				
5+29	1.6751	6.61	q Q				
5+30	1.6605	6.58	q Q				
5+31	1.6486	6.56	q Q				
5+32	1.6367	6.54	q Q				
5+33	1.6247	6.52	q Q				
5+34	1.6128	6.49	q Q				
5+35	1.6009	6.47	q Q				
5+36	1.5890	6.45	q Q				
5+37	1.5770	6.43	q Q				
5+38	1.5651	6.40	q Q				
5+39	1.5532	6.38	q Q				
5+40	1.5413	6.36	q Q				

5+41	1.5313	6.34	lq Q				
5+42	1.5213	6.32	lq Q				
5+43	1.5114	6.30	lq Q				
5+44	1.5014	6.28	lq Q				
5+45	1.4915	6.27	lq Q				
5+46	1.4815	6.25	lq Q				
5+47	1.4716	6.23	lq Q				
5+48	1.4616	6.21	lq Q				
5+49	1.4516	6.19	lq Q				
5+50	1.4417	6.17	lq Q				
5+51	1.4332	6.15	lq Q				
5+52	1.4247	6.14	lq Q				
5+53	1.4163	6.12	lq Q				
5+54	1.4078	6.10	lq Q				
5+55	1.3993	6.09	lq Q				
5+56	1.3909	6.07	lq Q				
5+57	1.3824	6.05	lq Q				
5+58	1.3739	6.04	lq Q				
5+59	1.3655	6.02	lq Q				
6+ 0	1.3570	6.00	lq Q				
6+ 1	1.3497	5.99	lq Q				
6+ 2	1.3424	5.98	lq Q				
6+ 3	1.3351	5.96	lq Q				
6+ 4	1.3278	5.95	lq Q				
6+ 5	1.3205	5.93	lq Q				
6+ 6	1.3132	5.92	lq Q				
6+ 7	1.3059	5.90	lq Q				
6+ 8	1.2986	5.88	lq Q				
6+ 9	1.2913	5.86	lq Q				
6+10	1.2840	5.85	lq Q				
6+11	0.0000	3.58	q Q				
6+12	0.0000	3.57	q Q				
6+13	0.0000	3.57	q Q				
6+14	0.0000	3.56	q Q				
6+15	0.0000	3.56	q Q				
6+16	0.0000	3.55	q Q				
6+17	0.0000	3.55	q Q				
6+18	0.0000	3.54	q Q				
6+19	0.0000	3.54	q Q				
6+20	0.0000	3.53	q Q				
6+21	0.0000	3.53	q Q				
6+22	0.0000	3.52	qQ				
6+23	0.0000	3.52	qQ				
6+24	0.0000	3.51	qQ				
6+25	0.0000	3.51	qQ				
6+26	0.0000	3.50	qQ				
6+27	0.0000	3.50	qQ				
6+28	0.0000	3.49	qQ				
6+29	0.0000	3.49	qQ				
6+30	0.0000	3.49	qQ				
6+31	0.0000	3.48	qQ				
6+32	0.0000	3.48	qQ				
6+33	0.0000	3.47	qQ				
6+34	0.0000	3.47	qQ				
6+35	0.0000	3.46	qQ				
6+36	0.0000	3.46	qQ				
6+37	0.0000	3.45	qQ				
6+38	0.0000	3.45	qQ				
6+39	0.0000	3.44	qQ				
6+40	0.0000	3.44	qQ				
6+41	0.0000	3.43	qQ				
6+42	0.0000	3.43	qQ				
6+43	0.0000	3.42	qQ				
6+44	0.0000	3.42	qQ				
6+45	0.0000	3.41	qQ				
6+46	0.0000	3.41	qQ				
6+47	0.0000	3.40	qQ				
6+48	0.0000	3.40	qQ				
6+49	0.0000	3.40	qQ				
6+50	0.0000	3.39	qQ				
6+51	0.0000	3.39	qQ				

6+52	0.0000	3.38	qQ				
6+53	0.0000	3.38	qQ				
6+54	0.0000	3.37	qQ				
6+55	0.0000	3.37	qQ				
6+56	0.0000	3.36	qQ				
6+57	0.0000	3.36	qQ				
6+58	0.0000	3.35	qQ				
6+59	0.0000	3.35	qQ				
7+ 0	0.0000	3.34	qQ				
7+ 1	0.0000	3.34	qQ				
7+ 2	0.0000	3.33	qQ				
7+ 3	0.0000	3.33	qQ				
7+ 4	0.0000	3.33	qQ				
7+ 5	0.0000	3.32	qQ				
7+ 6	0.0000	3.32	qQ				
7+ 7	0.0000	3.31	qQ				
7+ 8	0.0000	3.31	qQ				
7+ 9	0.0000	3.30	qQ				
7+10	0.0000	3.30	qQ				
7+11	0.0000	3.29	qQ				
7+12	0.0000	3.29	qQ				
7+13	0.0000	3.28	qQ				
7+14	0.0000	3.28	qQ				
7+15	0.0000	3.27	qQ				
7+16	0.0000	3.26	qQ				
7+17	0.0000	3.26	qQ				
7+18	0.0000	3.25	qQ				
7+19	0.0000	3.25	qQ				
7+20	0.0000	3.24	qQ				
7+21	0.0000	3.24	qQ				
7+22	0.0000	3.23	qQ				
7+23	0.0000	3.22	qQ				
7+24	0.0000	3.22	qQ				
7+25	0.0000	3.21	qQ				
7+26	0.0000	3.21	qQ				
7+27	0.0000	3.20	qQ				
7+28	0.0000	3.20	qQ				
7+29	0.0000	3.19	qQ				
7+30	0.0000	3.19	qQ				
7+31	0.0000	3.18	qQ				
7+32	0.0000	3.18	qQ				
7+33	0.0000	3.17	qQ				
7+34	0.0000	3.16	qQ				
7+35	0.0000	3.16	qQ				
7+36	0.0000	3.15	qQ				
7+37	0.0000	3.15	qQ				
7+38	0.0000	3.14	qQ				
7+39	0.0000	3.14	qQ				
7+40	0.0000	3.13	qQ				
7+41	0.0000	3.13	qQ				
7+42	0.0000	3.12	qQ				
7+43	0.0000	3.12	qQ				
7+44	0.0000	3.11	qQ				
7+45	0.0000	3.10	qQ				
7+46	0.0000	3.10	qQ				
7+47	0.0000	3.09	qQ				
7+48	0.0000	3.09	qQ				
7+49	0.0000	3.08	qQ				
7+50	0.0000	3.08	qQ				
7+51	0.0000	3.07	qQ				
7+52	0.0000	3.07	qQ				
7+53	0.0000	3.06	qQ				
7+54	0.0000	3.06	qQ				
7+55	0.0000	3.05	qQ				
7+56	0.0000	3.05	qQ				
7+57	0.0000	3.04	qQ				
7+58	0.0000	3.04	qQ				
7+59	0.0000	3.03	qQ				
8+ 0	0.0000	3.03	qQ				
8+ 1	0.0000	3.02	qQ				
8+ 2	0.0000	3.02	qQ				

8+ 3	0.0000	3.01	qQ				
8+ 4	0.0000	3.01	qQ				
8+ 5	0.0000	3.00	qQ				
8+ 6	0.0000	2.99	qQ				
8+ 7	0.0000	2.99	qQ				
8+ 8	0.0000	2.98	qQ				
8+ 9	0.0000	2.98	qQ				
8+10	0.0000	2.97	qQ				
8+11	0.0000	2.97	qQ				
8+12	0.0000	2.96	qQ				
8+13	0.0000	2.96	qQ				
8+14	0.0000	2.95	qQ				
8+15	0.0000	2.95	qQ				
8+16	0.0000	2.94	qQ				
8+17	0.0000	2.94	qQ				
8+18	0.0000	2.93	qQ				
8+19	0.0000	2.93	qQ				
8+20	0.0000	2.92	qQ				
8+21	0.0000	2.92	qQ				
8+22	0.0000	2.91	qQ				
8+23	0.0000	2.91	qQ				
8+24	0.0000	2.90	qQ				
8+25	0.0000	2.90	qQ				
8+26	0.0000	2.89	qQ				
8+27	0.0000	2.89	qQ				
8+28	0.0000	2.88	qQ				
8+29	0.0000	2.88	qQ				
8+30	0.0000	2.87	qQ				
8+31	0.0000	2.87	qQ				
8+32	0.0000	2.86	qQ				
8+33	0.0000	2.86	qQ				
8+34	0.0000	2.85	qQ				
8+35	0.0000	2.85	qQ				
8+36	0.0000	2.84	qQ				
8+37	0.0000	2.84	qQ				
8+38	0.0000	2.83	qQ				
8+39	0.0000	2.83	qQ				
8+40	0.0000	2.82	qQ				
8+41	0.0000	2.82	qQ				
8+42	0.0000	2.81	qQ				
8+43	0.0000	2.81	qQ				
8+44	0.0000	2.81	qQ				
8+45	0.0000	2.80	qQ				
8+46	0.0000	2.80	qQ				
8+47	0.0000	2.79	qQ				
8+48	0.0000	2.79	qQ				
8+49	0.0000	2.78	qQ				
8+50	0.0000	2.78	qQ				
8+51	0.0000	2.77	qQ				
8+52	0.0000	2.77	qQ				
8+53	0.0000	2.76	qQ				
8+54	0.0000	2.76	qQ				
8+55	0.0000	2.75	qQ				
8+56	0.0000	2.75	qQ				
8+57	0.0000	2.75	qQ				
8+58	0.0000	2.74	qQ				
8+59	0.0000	2.74	qQ				
9+ 0	0.0000	2.73	qQ				
9+ 1	0.0000	2.73	qQ				
9+ 2	0.0000	2.72	qQ				
9+ 3	0.0000	2.72	qQ				
9+ 4	0.0000	2.71	qQ				
9+ 5	0.0000	2.71	qQ				
9+ 6	0.0000	2.70	qQ				
9+ 7	0.0000	2.70	qQ				
9+ 8	0.0000	2.70	qQ				
9+ 9	0.0000	2.69	qQ				
9+10	0.0000	2.69	qQ				
9+11	0.0000	2.68	qQ				
9+12	0.0000	2.68	qQ				
9+13	0.0000	2.67	qQ				

9+14	0.0000	2.67	qQ				
9+15	0.0000	2.66	qQ				
9+16	0.0000	2.66	qQ				
9+17	0.0000	2.66	qQ				
9+18	0.0000	2.65	qQ				
9+19	0.0000	2.65	qQ				
9+20	0.0000	2.64	qQ				
9+21	0.0000	2.64	qQ				
9+22	0.0000	2.63	qQ				
9+23	0.0000	2.63	qQ				
9+24	0.0000	2.63	qQ				
9+25	0.0000	2.62	qQ				
9+26	0.0000	2.62	qQ				
9+27	0.0000	2.61	qQ				
9+28	0.0000	2.61	qQ				
9+29	0.0000	2.60	qQ				
9+30	0.0000	2.60	qQ				
9+31	0.0000	2.60	qQ				
9+32	0.0000	2.59	qQ				
9+33	0.0000	2.59	qQ				
9+34	0.0000	2.58	qQ				
9+35	0.0000	2.58	qQ				
9+36	0.0000	2.57	qQ				
9+37	0.0000	2.57	qQ				
9+38	0.0000	2.57	qQ				
9+39	0.0000	2.56	qQ				
9+40	0.0000	2.56	qQ				
9+41	0.0000	2.55	qQ				
9+42	0.0000	2.55	qQ				
9+43	0.0000	2.54	qQ				
9+44	0.0000	2.54	qQ				
9+45	0.0000	2.54	qQ				
9+46	0.0000	2.53	qQ				
9+47	0.0000	2.53	qQ				
9+48	0.0000	2.52	qQ				
9+49	0.0000	2.52	qQ				
9+50	0.0000	2.51	qQ				
9+51	0.0000	2.51	qQ				
9+52	0.0000	2.51	qQ				
9+53	0.0000	2.50	qQ				
9+54	0.0000	2.50	qQ				
9+55	0.0000	2.49	qQ				
9+56	0.0000	2.49	qQ				
9+57	0.0000	2.49	qQ				
9+58	0.0000	2.48	qQ				
9+59	0.0000	2.48	qQ				
10+ 0	0.0000	2.47	qQ				
10+ 1	0.0000	2.47	qQ				
10+ 2	0.0000	2.47	qQ				
10+ 3	0.0000	2.46	qQ				
10+ 4	0.0000	2.46	qQ				
10+ 5	0.0000	2.45	qQ				
10+ 6	0.0000	2.45	qQ				
10+ 7	0.0000	2.45	qQ				
10+ 8	0.0000	2.44	qQ				
10+ 9	0.0000	2.44	qQ				
10+10	0.0000	2.43	qQ				
10+11	0.0000	2.43	qQ				
10+12	0.0000	2.43	qQ				
10+13	0.0000	2.42	qQ				
10+14	0.0000	2.42	qQ				
10+15	0.0000	2.41	qQ				
10+16	0.0000	2.41	qQ				
10+17	0.0000	2.41	qQ				
10+18	0.0000	2.40	qQ				
10+19	0.0000	2.40	qQ				
10+20	0.0000	2.39	qQ				
10+21	0.0000	2.39	qQ				
10+22	0.0000	2.39	qQ				
10+23	0.0000	2.38	qQ				
10+24	0.0000	2.38	qQ				

10+25	0.0000	2.37	qQ				
10+26	0.0000	2.37	qQ				
10+27	0.0000	2.37	qQ				
10+28	0.0000	2.36	qQ				
10+29	0.0000	2.36	qQ				
10+30	0.0000	2.35	qQ				
10+31	0.0000	2.35	qQ				
10+32	0.0000	2.35	qQ				
10+33	0.0000	2.34	qQ				
10+34	0.0000	2.34	qQ				
10+35	0.0000	2.33	qQ				
10+36	0.0000	2.33	qQ				
10+37	0.0000	2.33	qQ				
10+38	0.0000	2.32	qQ				
10+39	0.0000	2.32	qQ				
10+40	0.0000	2.32	qQ				
10+41	0.0000	2.31	qQ				
10+42	0.0000	2.31	qQ				
10+43	0.0000	2.30	qQ				
10+44	0.0000	2.30	qQ				
10+45	0.0000	2.30	qQ				
10+46	0.0000	2.29	qQ				
10+47	0.0000	2.29	qQ				
10+48	0.0000	2.29	qQ				
10+49	0.0000	2.28	qQ				
10+50	0.0000	2.28	qQ				
10+51	0.0000	2.27	qQ				
10+52	0.0000	2.27	qQ				
10+53	0.0000	2.27	qQ				
10+54	0.0000	2.26	qQ				
10+55	0.0000	2.26	qQ				
10+56	0.0000	2.26	qQ				
10+57	0.0000	2.25	qQ				
10+58	0.0000	2.25	qQ				
10+59	0.0000	2.24	qQ				
11+ 0	0.0000	2.24	qQ				
11+ 1	0.0000	2.24	qQ				
11+ 2	0.0000	2.23	qQ				
11+ 3	0.0000	2.23	qQ				
11+ 4	0.0000	2.23	qQ				
11+ 5	0.0000	2.22	qQ				
11+ 6	0.0000	2.22	qQ				
11+ 7	0.0000	2.21	qQ				
11+ 8	0.0000	2.21	qQ				
11+ 9	0.0000	2.21	qQ				
11+10	0.0000	2.20	qQ				
11+11	0.0000	2.20	qQ				
11+12	0.0000	2.20	qQ				
11+13	0.0000	2.19	qQ				
11+14	0.0000	2.19	qQ				
11+15	0.0000	2.18	qQ				
11+16	0.0000	2.18	qQ				
11+17	0.0000	2.18	qQ				
11+18	0.0000	2.17	qQ				
11+19	0.0000	2.17	qQ				
11+20	0.0000	2.16	qQ				
11+21	0.0000	2.16	qQ				
11+22	0.0000	2.16	qQ				
11+23	0.0000	2.15	qQ				
11+24	0.0000	2.15	qQ				
11+25	0.0000	2.14	qQ				
11+26	0.0000	2.14	qQ				
11+27	0.0000	2.14	qQ				
11+28	0.0000	2.13	qQ				
11+29	0.0000	2.13	qQ				
11+30	0.0000	2.12	qQ				
11+31	0.0000	2.12	qQ				
11+32	0.0000	2.12	qQ				
11+33	0.0000	2.11	qQ				
11+34	0.0000	2.11	qQ				
11+35	0.0000	2.10	qQ				

11+36	0.0000	2.10	qQ				
11+37	0.0000	2.10	qQ				
11+38	0.0000	2.09	qQ				
11+39	0.0000	2.09	qQ				
11+40	0.0000	2.09	qQ				
11+41	0.0000	2.08	qQ				
11+42	0.0000	2.08	qQ				
11+43	0.0000	2.07	qQ				
11+44	0.0000	2.07	qQ				
11+45	0.0000	2.07	qQ				
11+46	0.0000	2.06	qQ				
11+47	0.0000	2.06	qQ				
11+48	0.0000	2.06	qQ				
11+49	0.0000	2.05	qQ				
11+50	0.0000	2.05	qQ				
11+51	0.0000	2.04	qQ				
11+52	0.0000	2.04	qQ				
11+53	0.0000	2.04	qQ				
11+54	0.0000	2.03	qQ				
11+55	0.0000	2.03	qQ				
11+56	0.0000	2.03	qQ				
11+57	0.0000	2.02	qQ				
11+58	0.0000	2.02	qQ				
11+59	0.0000	2.01	qQ				
12+ 0	0.0000	2.01	qQ				
12+ 1	0.0000	2.01	qQ				
12+ 2	0.0000	2.00	qQ				
12+ 3	0.0000	2.00	qQ				
12+ 4	0.0000	2.00	qQ				
12+ 5	0.0000	1.99	qQ				
12+ 6	0.0000	1.99	qQ				
12+ 7	0.0000	1.98	qQ				
12+ 8	0.0000	1.98	qQ				
12+ 9	0.0000	1.98	qQ				
12+10	0.0000	1.97	qQ				
12+11	0.0000	1.97	qQ				
12+12	0.0000	1.97	qQ				
12+13	0.0000	1.96	qQ				
12+14	0.0000	1.96	qQ				
12+15	0.0000	1.96	qQ				
12+16	0.0000	1.95	qQ				
12+17	0.0000	1.95	qQ				
12+18	0.0000	1.95	qQ				
12+19	0.0000	1.94	qQ				
12+20	0.0000	1.94	qQ				
12+21	0.0000	1.93	qQ				
12+22	0.0000	1.93	qQ				
12+23	0.0000	1.93	qQ				
12+24	0.0000	1.92	qQ				
12+25	0.0000	1.92	qQ				
12+26	0.0000	1.92	qQ				
12+27	0.0000	1.91	qQ				
12+28	0.0000	1.91	qQ				
12+29	0.0000	1.91	qQ				
12+30	0.0000	1.90	qQ				
12+31	0.0000	1.90	qQ				
12+32	0.0000	1.90	qQ				
12+33	0.0000	1.89	qQ				
12+34	0.0000	1.89	qQ				
12+35	0.0000	1.89	qQ				
12+36	0.0000	1.88	qQ				
12+37	0.0000	1.88	qQ				
12+38	0.0000	1.87	qQ				
12+39	0.0000	1.87	qQ				
12+40	0.0000	1.87	qQ				
12+41	0.0000	1.86	qQ				
12+42	0.0000	1.86	qQ				
12+43	0.0000	1.86	qQ				
12+44	0.0000	1.85	qQ				
12+45	0.0000	1.85	qQ				
12+46	0.0000	1.85	qQ				

12+47	0.0000	1.84	qQ				
12+48	0.0000	1.84	qQ				
12+49	0.0000	1.84	qQ				
12+50	0.0000	1.83	qQ				
12+51	0.0000	1.83	qQ				
12+52	0.0000	1.83	qQ				
12+53	0.0000	1.82	qQ				
12+54	0.0000	1.82	qQ				
12+55	0.0000	1.82	qQ				
12+56	0.0000	1.81	qQ				
12+57	0.0000	1.81	qQ				
12+58	0.0000	1.81	qQ				
12+59	0.0000	1.80	qQ				
13+ 0	0.0000	1.80	qQ				
13+ 1	0.0000	1.79	qQ				
13+ 2	0.0000	1.78	qQ				
13+ 3	0.0000	1.77	qQ				
13+ 4	0.0000	1.76	Q				
13+ 5	0.0000	1.75	Q				
13+ 6	0.0000	1.74	Q				
13+ 7	0.0000	1.73	Q				
13+ 8	0.0000	1.72	Q				
13+ 9	0.0000	1.70	Q				
13+10	0.0000	1.69	Q				
13+11	0.0000	1.68	Q				
13+12	0.0000	1.67	Q				
13+13	0.0000	1.66	Q				
13+14	0.0000	1.65	Q				
13+15	0.0000	1.64	Q				
13+16	0.0000	1.63	Q				
13+17	0.0000	1.62	Q				
13+18	0.0000	1.61	Q				
13+19	0.0000	1.60	Q				
13+20	0.0000	1.59	Q				
13+21	0.0000	1.58	Q				
13+22	0.0000	1.57	Q				
13+23	0.0000	1.56	Q				
13+24	0.0000	1.55	Q				
13+25	0.0000	1.54	Q				
13+26	0.0000	1.53	Q				
13+27	0.0000	1.52	Q				
13+28	0.0000	1.52	Q				
13+29	0.0000	1.51	Q				
13+30	0.0000	1.50	Q				
13+31	0.0000	1.49	Q				
13+32	0.0000	1.48	Q				
13+33	0.0000	1.47	Q				
13+34	0.0000	1.46	Q				
13+35	0.0000	1.45	Q				
13+36	0.0000	1.44	Q				
13+37	0.0000	1.43	Q				
13+38	0.0000	1.42	Q				
13+39	0.0000	1.42	Q				
13+40	0.0000	1.41	Q				
13+41	0.0000	1.40	Q				
13+42	0.0000	1.39	Q				
13+43	0.0000	1.38	Q				
13+44	0.0000	1.37	Q				
13+45	0.0000	1.36	Q				
13+46	0.0000	1.36	Q				
13+47	0.0000	1.35	Q				
13+48	0.0000	1.34	Q				
13+49	0.0000	1.33	Q				
13+50	0.0000	1.32	Q				
13+51	0.0000	1.31	Q				
13+52	0.0000	1.31	Q				
13+53	0.0000	1.30	Q				
13+54	0.0000	1.29	Q				
13+55	0.0000	1.28	Q				
13+56	0.0000	1.27	Q				
13+57	0.0000	1.27	Q				

13+58	0.0000	1.26	Q				
13+59	0.0000	1.25	Q				
14+ 0	0.0000	1.24	Q				
14+ 1	0.0000	1.23	Q				
14+ 2	0.0000	1.23	Q				
14+ 3	0.0000	1.22	Q				
14+ 4	0.0000	1.21	Q				
14+ 5	0.0000	1.20	Q				
14+ 6	0.0000	1.20	Q				
14+ 7	0.0000	1.19	Q				
14+ 8	0.0000	1.18	Q				
14+ 9	0.0000	1.18	Q				
14+10	0.0000	1.17	Q				
14+11	0.0000	1.16	Q				
14+12	0.0000	1.15	Q				
14+13	0.0000	1.15	Q				
14+14	0.0000	1.14	Q				
14+15	0.0000	1.13	Q				
14+16	0.0000	1.13	Q				
14+17	0.0000	1.12	Q				
14+18	0.0000	1.11	Q				
14+19	0.0000	1.10	Q				
14+20	0.0000	1.10	Q				
14+21	0.0000	1.09	Q				
14+22	0.0000	1.08	Q				
14+23	0.0000	1.08	Q				
14+24	0.0000	1.07	Q				
14+25	0.0000	1.06	Q				
14+26	0.0000	1.06	Q				
14+27	0.0000	1.05	Q				
14+28	0.0000	1.04	Q				
14+29	0.0000	1.04	Q				
14+30	0.0000	1.03	Q				
14+31	0.0000	1.03	Q				
14+32	0.0000	1.02	Q				
14+33	0.0000	1.01	Q				
14+34	0.0000	1.01	Q				
14+35	0.0000	1.00	Q				
14+36	0.0000	0.99	Q				
14+37	0.0000	0.99	Q				
14+38	0.0000	0.98	Q				
14+39	0.0000	0.98	Q				
14+40	0.0000	0.97	Q				
14+41	0.0000	0.96	Q				
14+42	0.0000	0.96	Q				
14+43	0.0000	0.95	Q				
14+44	0.0000	0.95	Q				
14+45	0.0000	0.94	Q				
14+46	0.0000	0.93	Q				
14+47	0.0000	0.93	Q				
14+48	0.0000	0.92	Q				
14+49	0.0000	0.92	Q				
14+50	0.0000	0.91	Q				
14+51	0.0000	0.91	Q				
14+52	0.0000	0.90	Q				
14+53	0.0000	0.89	Q				
14+54	0.0000	0.89	Q				
14+55	0.0000	0.88	Q				
14+56	0.0000	0.88	Q				
14+57	0.0000	0.87	Q				
14+58	0.0000	0.87	Q				
14+59	0.0000	0.86	Q				
15+ 0	0.0000	0.86	Q				
15+ 1	0.0000	0.85	Q				
15+ 2	0.0000	0.85	Q				
15+ 3	0.0000	0.84	Q				
15+ 4	0.0000	0.84	Q				
15+ 5	0.0000	0.83	Q				
15+ 6	0.0000	0.83	Q				
15+ 7	0.0000	0.82	Q				
15+ 8	0.0000	0.82	Q				

15+ 9	0.0000	0.81	Q				
15+10	0.0000	0.81	Q				
15+11	0.0000	0.80	Q				
15+12	0.0000	0.80	Q				
15+13	0.0000	0.79	Q				
15+14	0.0000	0.79	Q				
15+15	0.0000	0.78	Q				
15+16	0.0000	0.78	Q				
15+17	0.0000	0.77	Q				
15+18	0.0000	0.77	Q				
15+19	0.0000	0.76	Q				
15+20	0.0000	0.76	Q				
15+21	0.0000	0.75	Q				
15+22	0.0000	0.75	Q				
15+23	0.0000	0.74	Q				
15+24	0.0000	0.74	Q				
15+25	0.0000	0.73	Q				
15+26	0.0000	0.73	Q				
15+27	0.0000	0.72	Q				
15+28	0.0000	0.72	Q				
15+29	0.0000	0.72	Q				
15+30	0.0000	0.71	Q				
15+31	0.0000	0.71	Q				
15+32	0.0000	0.70	Q				
15+33	0.0000	0.70	Q				
15+34	0.0000	0.69	Q				
15+35	0.0000	0.69	Q				
15+36	0.0000	0.69	Q				
15+37	0.0000	0.68	Q				
15+38	0.0000	0.68	Q				
15+39	0.0000	0.67	Q				
15+40	0.0000	0.67	Q				
15+41	0.0000	0.66	Q				
15+42	0.0000	0.66	Q				
15+43	0.0000	0.66	Q				
15+44	0.0000	0.65	Q				
15+45	0.0000	0.65	Q				
15+46	0.0000	0.64	Q				
15+47	0.0000	0.64	Q				
15+48	0.0000	0.64	Q				
15+49	0.0000	0.63	Q				
15+50	0.0000	0.63	Q				
15+51	0.0000	0.62	Q				
15+52	0.0000	0.62	Q				
15+53	0.0000	0.62	Q				
15+54	0.0000	0.61	Q				
15+55	0.0000	0.61	Q				
15+56	0.0000	0.61	Q				
15+57	0.0000	0.60	Q				
15+58	0.0000	0.60	Q				
15+59	0.0000	0.59	Q				
16+ 0	0.0000	0.59	Q				
16+ 1	0.0000	0.59	Q				
16+ 2	0.0000	0.58	Q				
16+ 3	0.0000	0.58	Q				
16+ 4	0.0000	0.58	Q				
16+ 5	0.0000	0.57	Q				
16+ 6	0.0000	0.57	Q				
16+ 7	0.0000	0.57	Q				
16+ 8	0.0000	0.56	Q				
16+ 9	0.0000	0.56	Q				
16+10	0.0000	0.56	Q				
16+11	0.0000	0.55	Q				
16+12	0.0000	0.55	Q				
16+13	0.0000	0.54	Q				
16+14	0.0000	0.54	Q				
16+15	0.0000	0.54	Q				
16+16	0.0000	0.53	Q				
16+17	0.0000	0.53	Q				
16+18	0.0000	0.53	Q				
16+19	0.0000	0.52	Q				

16+20	0.0000	0.52	Q				
16+21	0.0000	0.52	Q				
16+22	0.0000	0.52	Q				
16+23	0.0000	0.51	Q				
16+24	0.0000	0.51	Q				
16+25	0.0000	0.51	Q				
16+26	0.0000	0.50	Q				
16+27	0.0000	0.50	Q				
16+28	0.0000	0.50	Q				
16+29	0.0000	0.49	Q				
16+30	0.0000	0.49	Q				
16+31	0.0000	0.49	Q				
16+32	0.0000	0.48	Q				
16+33	0.0000	0.48	Q				
16+34	0.0000	0.48	Q				
16+35	0.0000	0.48	Q				
16+36	0.0000	0.47	Q				
16+37	0.0000	0.47	Q				
16+38	0.0000	0.47	Q				
16+39	0.0000	0.46	Q				
16+40	0.0000	0.46	Q				
16+41	0.0000	0.46	Q				
16+42	0.0000	0.46	Q				
16+43	0.0000	0.45	Q				
16+44	0.0000	0.45	Q				
16+45	0.0000	0.45	Q				
16+46	0.0000	0.44	Q				
16+47	0.0000	0.44	Q				
16+48	0.0000	0.44	Q				
16+49	0.0000	0.44	Q				
16+50	0.0000	0.43	Q				
16+51	0.0000	0.43	Q				
16+52	0.0000	0.43	Q				
16+53	0.0000	0.43	Q				
16+54	0.0000	0.42	Q				
16+55	0.0000	0.42	Q				
16+56	0.0000	0.42	Q				
16+57	0.0000	0.41	Q				
16+58	0.0000	0.41	Q				
16+59	0.0000	0.41	Q				
17+ 0	0.0000	0.41	Q				
17+ 1	0.0000	0.40	Q				
17+ 2	0.0000	0.40	Q				
17+ 3	0.0000	0.40	Q				
17+ 4	0.0000	0.40	Q				
17+ 5	0.0000	0.39	Q				
17+ 6	0.0000	0.39	Q				
17+ 7	0.0000	0.39	Q				
17+ 8	0.0000	0.39	Q				
17+ 9	0.0000	0.39	Q				
17+10	0.0000	0.38	Q				
17+11	0.0000	0.38	Q				
17+12	0.0000	0.38	Q				
17+13	0.0000	0.38	Q				
17+14	0.0000	0.37	Q				
17+15	0.0000	0.37	Q				
17+16	0.0000	0.37	Q				
17+17	0.0000	0.37	Q				
17+18	0.0000	0.36	Q				
17+19	0.0000	0.36	Q				
17+20	0.0000	0.36	Q				
17+21	0.0000	0.36	Q				
17+22	0.0000	0.36	Q				
17+23	0.0000	0.35	Q				
17+24	0.0000	0.35	Q				
17+25	0.0000	0.35	Q				
17+26	0.0000	0.35	Q				
17+27	0.0000	0.34	Q				
17+28	0.0000	0.34	Q				
17+29	0.0000	0.34	Q				
17+30	0.0000	0.34	Q				

17+31	0.0000	0.34	Q				
17+32	0.0000	0.33	Q				
17+33	0.0000	0.33	Q				
17+34	0.0000	0.33	Q				
17+35	0.0000	0.33	Q				
17+36	0.0000	0.33	Q				
17+37	0.0000	0.32	Q				
17+38	0.0000	0.32	Q				
17+39	0.0000	0.32	Q				
17+40	0.0000	0.32	Q				
17+41	0.0000	0.32	Q				
17+42	0.0000	0.31	Q				
17+43	0.0000	0.31	Q				
17+44	0.0000	0.31	Q				
17+45	0.0000	0.31	Q				
17+46	0.0000	0.31	Q				
17+47	0.0000	0.30	Q				
17+48	0.0000	0.30	Q				
17+49	0.0000	0.30	Q				
17+50	0.0000	0.30	Q				
17+51	0.0000	0.30	Q				
17+52	0.0000	0.29	Q				
17+53	0.0000	0.29	Q				
17+54	0.0000	0.29	Q				
17+55	0.0000	0.29	Q				
17+56	0.0000	0.29	Q				
17+57	0.0000	0.29	Q				
17+58	0.0000	0.28	Q				
17+59	0.0000	0.28	Q				
18+ 0	0.0000	0.28	Q				
18+ 1	0.0000	0.28	Q				
18+ 2	0.0000	0.28	Q				
18+ 3	0.0000	0.28	Q				
18+ 4	0.0000	0.27	Q				
18+ 5	0.0000	0.27	Q				
18+ 6	0.0000	0.27	Q				
18+ 7	0.0000	0.27	Q				
18+ 8	0.0000	0.27	Q				
18+ 9	0.0000	0.27	Q				
18+10	0.0000	0.26	Q				
18+11	0.0000	0.26	Q				
18+12	0.0000	0.26	Q				
18+13	0.0000	0.26	Q				
18+14	0.0000	0.26	Q				
18+15	0.0000	0.26	Q				
18+16	0.0000	0.25	Q				
18+17	0.0000	0.25	Q				
18+18	0.0000	0.25	Q				
18+19	0.0000	0.25	Q				
18+20	0.0000	0.25	Q				
18+21	0.0000	0.25	Q				
18+22	0.0000	0.24	Q				
18+23	0.0000	0.24	Q				
18+24	0.0000	0.24	Q				
18+25	0.0000	0.24	Q				
18+26	0.0000	0.24	Q				
18+27	0.0000	0.24	Q				
18+28	0.0000	0.24	Q				
18+29	0.0000	0.23	Q				
18+30	0.0000	0.23	Q				
18+31	0.0000	0.23	Q				
18+32	0.0000	0.23	Q				
18+33	0.0000	0.23	Q				
18+34	0.0000	0.23	Q				
18+35	0.0000	0.23	Q				
18+36	0.0000	0.22	Q				
18+37	0.0000	0.22	Q				
18+38	0.0000	0.22	Q				
18+39	0.0000	0.22	Q				
18+40	0.0000	0.22	Q				
18+41	0.0000	0.22	Q				

18+42	0.0000	0.22	Q				
18+43	0.0000	0.22	Q				
18+44	0.0000	0.21	Q				
18+45	0.0000	0.21	Q				
18+46	0.0000	0.21	Q				
18+47	0.0000	0.21	Q				
18+48	0.0000	0.21	Q				
18+49	0.0000	0.21	Q				
18+50	0.0000	0.21	Q				
18+51	0.0000	0.20	Q				
18+52	0.0000	0.20	Q				
18+53	0.0000	0.20	Q				
18+54	0.0000	0.20	Q				
18+55	0.0000	0.20	Q				
18+56	0.0000	0.20	Q				
18+57	0.0000	0.20	Q				
18+58	0.0000	0.20	Q				
18+59	0.0000	0.19	Q				
19+ 0	0.0000	0.19	Q				
19+ 1	0.0000	0.19	Q				
19+ 2	0.0000	0.19	Q				
19+ 3	0.0000	0.19	Q				
19+ 4	0.0000	0.19	Q				
19+ 5	0.0000	0.19	Q				
19+ 6	0.0000	0.19	Q				
19+ 7	0.0000	0.19	Q				
19+ 8	0.0000	0.18	Q				
19+ 9	0.0000	0.18	Q				
19+10	0.0000	0.18	Q				
19+11	0.0000	0.18	Q				
19+12	0.0000	0.18	Q				
19+13	0.0000	0.18	Q				
19+14	0.0000	0.18	Q				
19+15	0.0000	0.18	Q				
19+16	0.0000	0.18	Q				
19+17	0.0000	0.17	Q				
19+18	0.0000	0.17	Q				
19+19	0.0000	0.17	Q				
19+20	0.0000	0.17	Q				
19+21	0.0000	0.17	Q				
19+22	0.0000	0.17	Q				
19+23	0.0000	0.17	Q				
19+24	0.0000	0.17	Q				
19+25	0.0000	0.17	Q				
19+26	0.0000	0.16	Q				
19+27	0.0000	0.16	Q				
19+28	0.0000	0.16	Q				
19+29	0.0000	0.16	Q				
19+30	0.0000	0.16	Q				
19+31	0.0000	0.16	Q				
19+32	0.0000	0.16	Q				
19+33	0.0000	0.16	Q				
19+34	0.0000	0.16	Q				
19+35	0.0000	0.16	Q				
19+36	0.0000	0.15	Q				
19+37	0.0000	0.15	Q				
19+38	0.0000	0.15	Q				
19+39	0.0000	0.15	Q				
19+40	0.0000	0.15	Q				
19+41	0.0000	0.15	Q				
19+42	0.0000	0.15	Q				
19+43	0.0000	0.15	Q				
19+44	0.0000	0.15	Q				
19+45	0.0000	0.15	Q				
19+46	0.0000	0.15	Q				
19+47	0.0000	0.14	Q				
19+48	0.0000	0.14	Q				
19+49	0.0000	0.14	Q				
19+50	0.0000	0.14	Q				
19+51	0.0000	0.14	Q				
19+52	0.0000	0.14	Q				

19+53	0.0000	0.14	Q				
19+54	0.0000	0.14	Q				
19+55	0.0000	0.14	Q				
19+56	0.0000	0.14	Q				
19+57	0.0000	0.14	Q				
19+58	0.0000	0.14	Q				
19+59	0.0000	0.13	Q				
20+ 0	0.0000	0.13	Q				
20+ 1	0.0000	0.13	Q				
20+ 2	0.0000	0.13	Q				
20+ 3	0.0000	0.13	Q				
20+ 4	0.0000	0.13	Q				
20+ 5	0.0000	0.13	Q				
20+ 6	0.0000	0.13	Q				
20+ 7	0.0000	0.13	Q				
20+ 8	0.0000	0.13	Q				
20+ 9	0.0000	0.13	Q				
20+10	0.0000	0.13	Q				
20+11	0.0000	0.12	Q				
20+12	0.0000	0.12	Q				
20+13	0.0000	0.12	Q				
20+14	0.0000	0.12	Q				
20+15	0.0000	0.12	Q				
20+16	0.0000	0.12	Q				
20+17	0.0000	0.12	Q				
20+18	0.0000	0.12	Q				
20+19	0.0000	0.12	Q				
20+20	0.0000	0.12	Q				
20+21	0.0000	0.12	Q				
20+22	0.0000	0.12	Q				
20+23	0.0000	0.12	Q				
20+24	0.0000	0.11	Q				
20+25	0.0000	0.11	Q				
20+26	0.0000	0.11	Q				
20+27	0.0000	0.11	Q				
20+28	0.0000	0.11	Q				
20+29	0.0000	0.11	Q				
20+30	0.0000	0.11	Q				
20+31	0.0000	0.11	Q				
20+32	0.0000	0.11	Q				
20+33	0.0000	0.11	Q				
20+34	0.0000	0.11	Q				
20+35	0.0000	0.11	Q				
20+36	0.0000	0.11	Q				
20+37	0.0000	0.11	Q				
20+38	0.0000	0.11	Q				
20+39	0.0000	0.10	Q				
20+40	0.0000	0.10	Q				
20+41	0.0000	0.10	Q				
20+42	0.0000	0.10	Q				
20+43	0.0000	0.10	Q				
20+44	0.0000	0.10	Q				
20+45	0.0000	0.10	Q				
20+46	0.0000	0.10	Q				
20+47	0.0000	0.10	Q				
20+48	0.0000	0.10	Q				
20+49	0.0000	0.10	Q				
20+50	0.0000	0.10	Q				
20+51	0.0000	0.10	Q				
20+52	0.0000	0.10	Q				
20+53	0.0000	0.10	Q				
20+54	0.0000	0.10	Q				
20+55	0.0000	0.09	Q				
20+56	0.0000	0.09	Q				
20+57	0.0000	0.09	Q				
20+58	0.0000	0.09	Q				
20+59	0.0000	0.09	Q				
21+ 0	0.0000	0.09	Q				
21+ 1	0.0000	0.09	Q				
21+ 2	0.0000	0.09	Q				
21+ 3	0.0000	0.09	Q				

21+ 4	0.0000	0.09	Q				
21+ 5	0.0000	0.09	Q				
21+ 6	0.0000	0.09	Q				
21+ 7	0.0000	0.09	Q				
21+ 8	0.0000	0.09	Q				
21+ 9	0.0000	0.09	Q				
21+10	0.0000	0.09	Q				
21+11	0.0000	0.09	Q				
21+12	0.0000	0.09	Q				
21+13	0.0000	0.08	Q				
21+14	0.0000	0.08	Q				
21+15	0.0000	0.08	Q				
21+16	0.0000	0.08	Q				
21+17	0.0000	0.08	Q				
21+18	0.0000	0.08	Q				
21+19	0.0000	0.08	Q				
21+20	0.0000	0.08	Q				
21+21	0.0000	0.08	Q				
21+22	0.0000	0.08	Q				
21+23	0.0000	0.08	Q				
21+24	0.0000	0.08	Q				
21+25	0.0000	0.08	Q				
21+26	0.0000	0.08	Q				
21+27	0.0000	0.08	Q				
21+28	0.0000	0.08	Q				
21+29	0.0000	0.08	Q				
21+30	0.0000	0.08	Q				
21+31	0.0000	0.08	Q				
21+32	0.0000	0.08	Q				
21+33	0.0000	0.07	Q				
21+34	0.0000	0.07	Q				
21+35	0.0000	0.07	Q				
21+36	0.0000	0.07	Q				
21+37	0.0000	0.07	Q				
21+38	0.0000	0.07	Q				
21+39	0.0000	0.07	Q				
21+40	0.0000	0.07	Q				
21+41	0.0000	0.07	Q				
21+42	0.0000	0.07	Q				
21+43	0.0000	0.07	Q				
21+44	0.0000	0.07	Q				
21+45	0.0000	0.07	Q				
21+46	0.0000	0.07	Q				
21+47	0.0000	0.07	Q				
21+48	0.0000	0.07	Q				
21+49	0.0000	0.07	Q				
21+50	0.0000	0.07	Q				
21+51	0.0000	0.07	Q				
21+52	0.0000	0.07	Q				
21+53	0.0000	0.07	Q				
21+54	0.0000	0.07	Q				
21+55	0.0000	0.07	Q				
21+56	0.0000	0.07	Q				
21+57	0.0000	0.06	Q				
21+58	0.0000	0.06	Q				
21+59	0.0000	0.06	Q				
22+ 0	0.0000	0.06	Q				
22+ 1	0.0000	0.06	Q				
22+ 2	0.0000	0.06	Q				
22+ 3	0.0000	0.06	Q				
22+ 4	0.0000	0.06	Q				
22+ 5	0.0000	0.06	Q				
22+ 6	0.0000	0.06	Q				
22+ 7	0.0000	0.06	Q				
22+ 8	0.0000	0.06	Q				
22+ 9	0.0000	0.06	Q				
22+10	0.0000	0.06	Q				
22+11	0.0000	0.06	Q				
22+12	0.0000	0.06	Q				
22+13	0.0000	0.06	Q				
22+14	0.0000	0.06	Q				

24+37	0.0000	0.02	Q				
24+38	0.0000	0.02	Q				
24+39	0.0000	0.02	Q				
24+40	0.0000	0.02	Q				
24+41	0.0000	0.02	Q				
24+42	0.0000	0.02	Q				
24+43	0.0000	0.02	Q				
24+44	0.0000	0.02	Q				
24+45	0.0000	0.02	Q				
24+46	0.0000	0.02	Q				
24+47	0.0000	0.02	Q				
24+48	0.0000	0.02	Q				
24+49	0.0000	0.02	Q				
24+50	0.0000	0.02	Q				
24+51	0.0000	0.02	Q				
24+52	0.0000	0.02	Q				
24+53	0.0000	0.02	Q				
24+54	0.0000	0.02	Q				
24+55	0.0000	0.02	Q				
24+56	0.0000	0.02	Q				
24+57	0.0000	0.02	Q				
24+58	0.0000	0.02	Q				
24+59	0.0000	0.02	Q				
25+ 0	0.0000	0.02	Q				
25+ 1	0.0000	0.02	Q				
25+ 2	0.0000	0.02	Q				
25+ 3	0.0000	0.02	Q				
25+ 4	0.0000	0.02	Q				
25+ 5	0.0000	0.02	Q				
25+ 6	0.0000	0.02	Q				
25+ 7	0.0000	0.02	Q				
25+ 8	0.0000	0.02	Q				
25+ 9	0.0000	0.02	Q				
25+10	0.0000	0.02	Q				
25+11	0.0000	0.02	Q				
25+12	0.0000	0.02	Q				
25+13	0.0000	0.02	Q				
25+14	0.0000	0.02	Q				
25+15	0.0000	0.02	Q				
25+16	0.0000	0.02	Q				
25+17	0.0000	0.02	Q				
25+18	0.0000	0.02	Q				
25+19	0.0000	0.02	Q				
25+20	0.0000	0.02	Q				
25+21	0.0000	0.02	Q				
25+22	0.0000	0.02	Q				
25+23	0.0000	0.02	Q				
25+24	0.0000	0.02	Q				
25+25	0.0000	0.02	Q				
25+26	0.0000	0.02	Q				
25+27	0.0000	0.02	Q				
25+28	0.0000	0.02	Q				
25+29	0.0000	0.02	Q				
25+30	0.0000	0.02	Q				
25+31	0.0000	0.02	Q				
25+32	0.0000	0.02	Q				
25+33	0.0000	0.02	Q				
25+34	0.0000	0.02	Q				
25+35	0.0000	0.02	Q				
25+36	0.0000	0.02	Q				
25+37	0.0000	0.02	Q				
25+38	0.0000	0.02	Q				
25+39	0.0000	0.02	Q				
25+40	0.0000	0.02	Q				
25+41	0.0000	0.02	Q				
25+42	0.0000	0.02	Q				
25+43	0.0000	0.02	Q				
25+44	0.0000	0.02	Q				
25+45	0.0000	0.02	Q				
25+46	0.0000	0.02	Q				
25+47	0.0000	0.02	Q				

28+10	0.0000	0.01	Q				
28+11	0.0000	0.01	Q				
28+12	0.0000	0.01	Q				
28+13	0.0000	0.01	Q				
28+14	0.0000	0.01	Q				
28+15	0.0000	0.01	Q				
28+16	0.0000	0.01	Q				
28+17	0.0000	0.01	Q				
28+18	0.0000	0.01	Q				
28+19	0.0000	0.01	Q				
28+20	0.0000	0.01	Q				
28+21	0.0000	0.01	Q				
28+22	0.0000	0.01	Q				
28+23	0.0000	0.01	Q				
28+24	0.0000	0.01	Q				
28+25	0.0000	0.01	Q				
28+26	0.0000	0.01	Q				
28+27	0.0000	0.01	Q				
28+28	0.0000	0.01	Q				
28+29	0.0000	0.01	Q				
28+30	0.0000	0.01	Q				
28+31	0.0000	0.01	Q				
28+32	0.0000	0.01	Q				
28+33	0.0000	0.01	Q				
28+34	0.0000	0.01	Q				
28+35	0.0000	0.01	Q				
28+36	0.0000	0.01	Q				
28+37	0.0000	0.01	Q				
28+38	0.0000	0.01	Q				
28+39	0.0000	0.01	Q				
28+40	0.0000	0.01	Q				
28+41	0.0000	0.01	Q				
28+42	0.0000	0.01	Q				
28+43	0.0000	0.01	Q				
28+44	0.0000	0.01	Q				
28+45	0.0000	0.01	Q				
28+46	0.0000	0.01	Q				
28+47	0.0000	0.01	Q				
28+48	0.0000	0.01	Q				
28+49	0.0000	0.01	Q				
28+50	0.0000	0.00	Q				
28+51	0.0000	0.00	Q				
28+52	0.0000	0.00	Q				
28+53	0.0000	0.00	Q				
28+54	0.0000	0.00	Q				
28+55	0.0000	0.00	Q				
28+56	0.0000	0.00	Q				
28+57	0.0000	0.00	Q				
28+58	0.0000	0.00	Q				
28+59	0.0000	0.00	Q				
29+ 0	0.0000	0.00	Q				
29+ 1	0.0000	0.00	Q				
29+ 2	0.0000	0.00	Q				
29+ 3	0.0000	0.00	Q				
29+ 4	0.0000	0.00	Q				
29+ 5	0.0000	0.00	Q				
29+ 6	0.0000	0.00	Q				
29+ 7	0.0000	0.00	Q				
29+ 8	0.0000	0.00	Q				
29+ 9	0.0000	0.00	Q				
29+10	0.0000	0.00	Q				
29+11	0.0000	0.00	Q				
29+12	0.0000	0.00	Q				
29+13	0.0000	0.00	Q				
29+14	0.0000	0.00	Q				
29+15	0.0000	0.00	Q				
29+16	0.0000	0.00	Q				
29+17	0.0000	0.00	Q				
29+18	0.0000	0.00	Q				
29+19	0.0000	0.00	Q				
29+20	0.0000	0.00	Q				

31+43	0.0000	0.00	Q				
31+44	0.0000	0.00	Q				
31+45	0.0000	0.00	Q				
31+46	0.0000	0.00	Q				
31+47	0.0000	0.00	Q				
31+48	0.0000	0.00	Q				
31+49	0.0000	0.00	Q				
31+50	0.0000	0.00	Q				
31+51	0.0000	0.00	Q				
31+52	0.0000	0.00	Q				
31+53	0.0000	0.00	Q				
31+54	0.0000	0.00	Q				
31+55	0.0000	0.00	Q				
31+56	0.0000	0.00	Q				
31+57	0.0000	0.00	Q				
31+58	0.0000	0.00	Q				
31+59	0.0000	0.00	Q				
32+ 0	0.0000	0.00	Q				
32+ 1	0.0000	0.00	Q				
32+ 2	0.0000	0.00	Q				
32+ 3	0.0000	0.00	Q				
32+ 4	0.0000	0.00	Q				
32+ 5	0.0000	0.00	Q				
32+ 6	0.0000	0.00	Q				
32+ 7	0.0000	0.00	Q				
32+ 8	0.0000	0.00	Q				
32+ 9	0.0000	0.00	Q				
32+10	0.0000	0.00	Q				
32+11	0.0000	0.00	Q				
32+12	0.0000	0.00	Q				
32+13	0.0000	0.00	Q				
32+14	0.0000	0.00	Q				
32+15	0.0000	0.00	Q				
32+16	0.0000	0.00	Q				
32+17	0.0000	0.00	Q				
32+18	0.0000	0.00	Q				
32+19	0.0000	0.00	Q				
32+20	0.0000	0.00	Q				
32+21	0.0000	0.00	Q				
32+22	0.0000	0.00	Q				
32+23	0.0000	0.00	Q				
32+24	0.0000	0.00	Q				
32+25	0.0000	0.00	Q				
32+26	0.0000	0.00	Q				
32+27	0.0000	0.00	Q				
32+28	0.0000	0.00	Q				
32+29	0.0000	0.00	Q				
32+30	0.0000	0.00	Q				
32+31	0.0000	0.00	Q				

 *****HYDROGRAPH DATA*****

Number of intervals = 1951
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 70.554 (CFS)
 Total volume = 6.214 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

 ++++++
 Process from Point/Station 724.000 to Point/Station 724.000
 **** STORE OR DELETE CURRENT HYDROGRAPH ****

 Current stream hydrograph saved in file 100160rteundbas1bas5.rte

*****HYDROGRAPH DATA*****

Number of intervals = 0

Time interval = 0.0 (Min.)
Maximum/Peak flow rate = 0.000 (CFS)
Total volume = 0.000 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/16/24

 Majestic Otay
 Otay Mesa, San Diego County
 Proposed Condition Underground Basin 2
 100160rteundbas2

Program License Serial Number 6490

 ***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratundbas2.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 368
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 251.711 (CFS)
 Total volume = 10.569 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 0.000 to Point/Station 0.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

 Total number of inflow hydrograph intervals = 368
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 0.00 (Ft.)

 Initial basin depth = 0.00 (Ft.)
 Initial basin storage = 0.00 (Ac.Ft)
 Initial basin outflow = 0.00 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.710	2.200	0.708	0.712
2.000	1.990	3.400	1.988	1.992
3.000	3.220	4.400	3.217	3.223
4.000	4.370	5.100	4.366	4.374
5.000	5.380	9.300	5.374	5.386
6.000	6.120	16.000	6.109	6.131
7.000	6.720	26.300	6.702	6.738
8.000	7.270	39.500	7.243	7.297

Hydrograph Detention Basin Routing

 Graph values: 'I'= unit inflow; 'O'=outflow at time shown

 Time Inflow Outflow Storage Depth

(Hours)	(CFS)	(CFS)	(Ac.Ft)	.0	62.9	125.86	188.78	251.71	(Ft.)
0.017	0.94	0.00	0.001	O					0.00
0.033	1.89	0.01	0.003	O					0.00
0.050	2.83	0.02	0.006	O					0.01
0.067	3.77	0.03	0.010	O					0.01
0.083	4.71	0.05	0.016	O					0.02
0.100	5.66	0.07	0.023	O					0.03
0.117	6.60	0.10	0.031	O					0.04
0.133	7.54	0.13	0.041	O					0.06
0.150	7.55	0.16	0.051	O					0.07
0.167	7.57	0.19	0.061	O					0.09
0.183	7.58	0.22	0.072	O					0.10
0.200	7.60	0.25	0.082	O					0.12
0.217	7.61	0.28	0.092	O					0.13
0.233	7.62	0.32	0.102	O					0.14
0.250	7.64	0.35	0.112	O					0.16
0.267	7.65	0.38	0.122	O					0.17
0.283	7.68	0.41	0.132	O					0.19
0.300	7.71	0.44	0.142	O					0.20
0.317	7.74	0.47	0.152	O					0.21
0.333	7.77	0.50	0.162	O					0.23
0.350	7.80	0.53	0.172	O					0.24
0.367	7.83	0.56	0.182	O					0.26
0.383	7.86	0.60	0.192	O					0.27
0.400	7.89	0.63	0.202	OI					0.28
0.417	7.90	0.66	0.212	OI					0.30
0.433	7.92	0.69	0.222	OI					0.31
0.450	7.93	0.72	0.232	OI					0.33
0.467	7.95	0.75	0.242	OI					0.34
0.483	7.97	0.78	0.252	OI					0.35
0.500	7.98	0.81	0.262	OI					0.37
0.517	8.00	0.84	0.272	OI					0.38
0.533	8.01	0.87	0.281	OI					0.40
0.550	8.05	0.90	0.291	OI					0.41
0.567	8.08	0.93	0.301	OI					0.42
0.583	8.11	0.96	0.311	OI					0.44
0.600	8.15	0.99	0.321	OI					0.45
0.617	8.18	1.02	0.331	OI					0.47
0.633	8.21	1.06	0.340	OI					0.48
0.650	8.25	1.09	0.350	OI					0.49
0.667	8.28	1.12	0.360	OI					0.51
0.683	8.30	1.15	0.370	OI					0.52
0.700	8.31	1.18	0.380	OI					0.54
0.717	8.33	1.21	0.390	OI					0.55
0.733	8.35	1.24	0.400	OI					0.56
0.750	8.37	1.27	0.409	OI					0.58
0.767	8.38	1.30	0.419	OI					0.59
0.783	8.40	1.33	0.429	OI					0.60
0.800	8.42	1.36	0.439	OI					0.62
0.817	8.46	1.39	0.448	OI					0.63
0.833	8.50	1.42	0.458	OI					0.65
0.850	8.53	1.45	0.468	OI					0.66
0.867	8.57	1.48	0.478	OI					0.67
0.883	8.61	1.51	0.487	OI					0.69
0.900	8.65	1.54	0.497	OI					0.70
0.917	8.69	1.57	0.507	OI					0.71
0.933	8.72	1.60	0.517	OI					0.73
0.950	8.74	1.63	0.527	OI					0.74
0.967	8.76	1.66	0.536	OI					0.76
0.983	8.78	1.69	0.546	OI					0.77
1.000	8.80	1.72	0.556	OI					0.78
1.017	8.82	1.75	0.566	OI					0.80
1.033	8.85	1.78	0.575	OI					0.81
1.050	8.87	1.81	0.585	OI					0.82
1.067	8.89	1.84	0.595	OI					0.84
1.083	8.93	1.87	0.604	OI					0.85
1.100	8.97	1.90	0.614	OI					0.87
1.117	9.02	1.93	0.624	OI					0.88
1.133	9.06	1.96	0.634	OI					0.89
1.150	9.10	1.99	0.644	OI					0.91
1.167	9.15	2.02	0.653	OI					0.92

1.183	9.19	2.05	0.663	OI					0.93
1.200	9.23	2.09	0.673	OI					0.95
1.217	9.26	2.12	0.683	OI					0.96
1.233	9.28	2.15	0.693	OI					0.98
1.250	9.31	2.18	0.702	OI					0.99
1.267	9.33	2.20	0.712	OI					1.00
1.283	9.35	2.21	0.722	OI					1.01
1.300	9.38	2.22	0.732	OI					1.02
1.317	9.40	2.23	0.742	OI					1.02
1.333	9.42	2.24	0.752	OI					1.03
1.350	9.47	2.25	0.762	OI					1.04
1.367	9.52	2.26	0.772	OI					1.05
1.383	9.58	2.27	0.782	OI					1.06
1.400	9.63	2.28	0.792	OI					1.06
1.417	9.68	2.29	0.802	OI					1.07
1.433	9.73	2.30	0.812	OI					1.08
1.450	9.78	2.31	0.822	OI					1.09
1.467	9.83	2.32	0.833	OI					1.10
1.483	9.86	2.32	0.843	OI					1.10
1.500	9.89	2.33	0.853	OI					1.11
1.517	9.91	2.34	0.864	OI					1.12
1.533	9.94	2.35	0.874	OI					1.13
1.550	9.97	2.36	0.885	OI					1.14
1.567	10.00	2.37	0.895	OI					1.14
1.583	10.02	2.38	0.906	OI					1.15
1.600	10.05	2.39	0.916	OI					1.16
1.617	10.11	2.40	0.927	OI					1.17
1.633	10.17	2.41	0.938	OI					1.18
1.650	10.23	2.42	0.948	OI					1.19
1.667	10.29	2.43	0.959	OI					1.19
1.683	10.35	2.44	0.970	OI					1.20
1.700	10.41	2.45	0.981	OI					1.21
1.717	10.47	2.46	0.992	OI					1.22
1.733	10.53	2.47	1.003	OI					1.23
1.750	10.57	2.49	1.014	OI					1.24
1.767	10.60	2.50	1.025	OI					1.25
1.783	10.63	2.51	1.036	OI					1.25
1.800	10.67	2.52	1.048	OI					1.26
1.817	10.70	2.53	1.059	OI					1.27
1.833	10.73	2.54	1.070	OI					1.28
1.850	10.77	2.55	1.081	OI					1.29
1.867	10.80	2.56	1.093	OI					1.30
1.883	10.87	2.57	1.104	OI					1.31
1.900	10.94	2.58	1.116	OI					1.32
1.917	11.02	2.59	1.127	OI					1.33
1.933	11.09	2.60	1.139	OI					1.33
1.950	11.16	2.61	1.151	OI					1.34
1.967	11.24	2.62	1.162	OI					1.35
1.983	11.31	2.64	1.174	OI					1.36
2.000	11.38	2.65	1.186	OI					1.37
2.017	11.42	2.66	1.198	OI					1.38
2.033	11.46	2.67	1.210	OI					1.39
2.050	11.50	2.68	1.223	OI					1.40
2.067	11.55	2.69	1.235	OI					1.41
2.083	11.59	2.70	1.247	OI					1.42
2.100	11.63	2.71	1.259	OI					1.43
2.117	11.67	2.73	1.271	OI					1.44
2.133	11.71	2.74	1.284	OI					1.45
2.150	11.80	2.75	1.296	OI					1.46
2.167	11.89	2.76	1.309	OI					1.47
2.183	11.98	2.77	1.321	OI					1.48
2.200	12.07	2.79	1.334	OI					1.49
2.217	12.16	2.80	1.347	OI					1.50
2.233	12.25	2.81	1.360	OI					1.51
2.250	12.34	2.82	1.373	OI					1.52
2.267	12.43	2.83	1.386	OI					1.53
2.283	12.48	2.85	1.399	OI					1.54
2.300	12.53	2.86	1.413	OI					1.55
2.317	12.58	2.87	1.426	OI					1.56
2.333	12.64	2.88	1.439	OI					1.57
2.350	12.69	2.90	1.453	OI					1.58

2.367	12.74	2.91	1.466	OI					1.59
2.383	12.79	2.92	1.480	OI					1.60
2.400	12.84	2.93	1.494	OI					1.61
2.417	12.96	2.95	1.507	OI					1.62
2.433	13.07	2.96	1.521	OI					1.63
2.450	13.19	2.97	1.535	OI					1.64
2.467	13.30	2.99	1.549	OI					1.66
2.483	13.42	3.00	1.564	OI					1.67
2.500	13.54	3.01	1.578	OI					1.68
2.517	13.65	3.03	1.593	OI					1.69
2.533	13.77	3.04	1.607	OI					1.70
2.550	13.83	3.06	1.622	OI					1.71
2.567	13.90	3.07	1.637	OI					1.72
2.583	13.97	3.08	1.652	OI					1.74
2.600	14.03	3.10	1.667	OI					1.75
2.617	14.10	3.11	1.682	OI					1.76
2.633	14.17	3.13	1.697	OI					1.77
2.650	14.23	3.14	1.712	OI					1.78
2.667	14.30	3.15	1.728	OI					1.80
2.683	14.46	3.17	1.743	OI					1.81
2.700	14.61	3.18	1.759	OI					1.82
2.717	14.77	3.20	1.775	OI					1.83
2.733	14.92	3.21	1.791	OI					1.84
2.750	15.08	3.23	1.807	OI					1.86
2.767	15.23	3.24	1.823	OI					1.87
2.783	15.39	3.26	1.840	OI					1.88
2.800	15.54	3.28	1.857	OI					1.90
2.817	15.64	3.29	1.874	OI					1.91
2.833	15.73	3.31	1.891	OI					1.92
2.850	15.82	3.32	1.908	O I					1.94
2.867	15.91	3.34	1.925	O I					1.95
2.883	16.00	3.36	1.943	O I					1.96
2.900	16.09	3.37	1.960	O I					1.98
2.917	16.19	3.39	1.978	O I					1.99
2.933	16.28	3.40	1.995	O I					2.00
2.950	16.50	3.42	2.013	O I					2.02
2.967	16.72	3.43	2.031	O I					2.03
2.983	16.94	3.45	2.050	O I					2.05
3.000	17.17	3.46	2.069	O I					2.06
3.017	17.39	3.48	2.088	O I					2.08
3.033	17.61	3.49	2.107	O I					2.09
3.050	17.83	3.51	2.126	O I					2.11
3.067	18.05	3.53	2.146	O I					2.13
3.083	18.19	3.54	2.166	O I					2.14
3.100	18.33	3.56	2.187	O I					2.16
3.117	18.46	3.58	2.207	O I					2.18
3.133	18.60	3.59	2.228	O I					2.19
3.150	18.74	3.61	2.248	O I					2.21
3.167	18.87	3.63	2.269	O I					2.23
3.183	19.01	3.64	2.290	O I					2.24
3.200	19.15	3.66	2.312	O I					2.26
3.217	19.50	3.68	2.333	O I					2.28
3.233	19.85	3.70	2.355	O I					2.30
3.250	20.20	3.72	2.378	O I					2.32
3.267	20.55	3.73	2.401	O I					2.33
3.283	20.90	3.75	2.424	O I					2.35
3.300	21.25	3.77	2.448	O I					2.37
3.317	21.60	3.79	2.472	O I					2.39
3.333	21.95	3.81	2.497	O I					2.41
3.350	22.18	3.83	2.522	O I					2.43
3.367	22.41	3.85	2.547	O I					2.45
3.383	22.64	3.87	2.573	O I					2.47
3.400	22.87	3.90	2.599	O I					2.50
3.417	23.10	3.92	2.625	O I					2.52
3.433	23.33	3.94	2.652	O I					2.54
3.450	23.56	3.96	2.679	O I					2.56
3.467	23.80	3.98	2.706	O I					2.58
3.483	24.46	4.00	2.734	O I					2.60
3.500	25.12	4.03	2.762	O I					2.63
3.517	25.78	4.05	2.792	O I					2.65
3.533	26.44	4.08	2.822	O I					2.68

3.550	27.10	4.10	2.853	O	I						2.70
3.567	27.76	4.13	2.886	O	I						2.73
3.583	28.42	4.15	2.919	O	I						2.75
3.600	29.09	4.18	2.952	O	I						2.78
3.617	29.59	4.21	2.987	O	I						2.81
3.633	30.10	4.24	3.022	O	I						2.84
3.650	30.60	4.27	3.058	O	I						2.87
3.667	31.11	4.30	3.095	O	I						2.90
3.683	31.61	4.33	3.132	O	I						2.93
3.700	32.12	4.36	3.170	O	I						2.96
3.717	32.62	4.39	3.209	O	I						2.99
3.733	33.13	4.42	3.248	O	I						3.02
3.750	35.07	4.44	3.289	O	I						3.06
3.767	37.01	4.47	3.332	O	I						3.10
3.783	38.95	4.50	3.378	O	I						3.14
3.800	40.89	4.53	3.427	O	I						3.18
3.817	42.82	4.56	3.478	O	I						3.22
3.833	44.76	4.59	3.532	O	I						3.27
3.850	46.70	4.62	3.589	O	I						3.32
3.867	48.64	4.66	3.648	O	I						3.37
3.883	51.13	4.70	3.711	O	I						3.43
3.900	53.62	4.74	3.776	O	I						3.48
3.917	56.10	4.78	3.845	O	I						3.54
3.933	58.59	4.82	3.918	O	I						3.61
3.950	61.08	4.87	3.993	O	I						3.67
3.967	63.56	4.92	4.073	O	I						3.74
3.983	66.05	4.97	4.155	O	I						3.81
4.000	68.54	5.02	4.241	O	I						3.89
4.017	91.43	5.08	4.344	O	I		I				3.98
4.033	114.33	5.55	4.478	O	I		I				4.11
4.050	137.23	6.24	4.644	O	I		I		I		4.27
4.067	160.12	7.05	4.839	O	I		I		I		4.46
4.083	183.02	7.99	5.065	O	I		I		I		4.69
4.100	205.92	9.06	5.321	O	I		I		I		4.94
4.117	228.81	11.35	5.607	O	I		I		I		5.31
4.133	251.71	14.19	5.920	O	I		I		I		5.73
4.150	225.12	17.82	6.226	O	I		I		I		6.18
4.167	198.54	22.36	6.490	O	I		I		I		6.62
4.183	171.95	26.17	6.712	O	I		I		I		6.99
4.200	145.36	30.42	6.892	O	I		I		I		7.31
4.217	118.78	33.73	7.029	O	I		I		I		7.56
4.233	92.19	36.06	7.127	O	I		I		I		7.74
4.250	65.60	37.45	7.185	O	I		I		I		7.84
4.267	39.01	37.94	7.205	O	I		I		I		7.88
4.283	37.40	37.94	7.205	O	I		I		I		7.88
4.300	35.79	37.90	7.203	O	I		I		I		7.88
4.317	34.17	37.81	7.199	O	I		I		I		7.87
4.333	32.56	37.66	7.193	O	I		I		I		7.86
4.350	30.94	37.47	7.185	O	I		I		I		7.85
4.367	29.33	37.23	7.175	O	I		I		I		7.83
4.383	27.72	36.95	7.164	O	I		I		I		7.81
4.400	26.10	36.62	7.150	O	I		I		I		7.78
4.417	25.39	36.27	7.135	O	I		I		I		7.76
4.433	24.68	35.90	7.120	O	I		I		I		7.73
4.450	23.97	35.53	7.104	O	I		I		I		7.70
4.467	23.26	35.14	7.088	O	I		I		I		7.67
4.483	22.55	34.74	7.072	O	I		I		I		7.64
4.500	21.84	34.33	7.055	O	I		I		I		7.61
4.517	21.13	33.92	7.037	O	I		I		I		7.58
4.533	20.42	33.49	7.020	O	I		I		I		7.54
4.550	20.01	33.06	7.002	O	I		I		I		7.51
4.567	19.60	32.63	6.984	O	I		I		I		7.48
4.583	19.18	32.20	6.966	O	I		I		I		7.45
4.600	18.77	31.77	6.948	O	I		I		I		7.41
4.617	18.35	31.34	6.930	O	I		I		I		7.38
4.633	17.94	30.91	6.912	O	I		I		I		7.35
4.650	17.52	30.48	6.894	O	I		I		I		7.32
4.667	17.11	30.05	6.876	O	I		I		I		7.28
4.683	16.83	29.62	6.859	O	I		I		I		7.25
4.700	16.55	29.20	6.841	O	I		I		I		7.22
4.717	16.28	28.79	6.824	O	I		I		I		7.19

4.733	16.00	28.38	6.807	IO					7.16
4.750	15.72	27.97	6.790	I O					7.13
4.767	15.44	27.57	6.773	I O					7.10
4.783	15.17	27.17	6.756	I O					7.07
4.800	14.89	26.77	6.740	I O					7.04
4.817	14.69	26.38	6.723	I O					7.01
4.833	14.49	26.08	6.707	I O					6.98
4.850	14.29	25.81	6.692	I O					6.95
4.867	14.09	25.54	6.676	I O					6.93
4.883	13.89	25.27	6.660	I O					6.90
4.900	13.68	25.00	6.644	I O					6.87
4.917	13.48	24.73	6.629	I O					6.85
4.933	13.28	24.47	6.613	I O					6.82
4.950	13.13	24.21	6.598	I O					6.80
4.967	12.98	23.95	6.583	I O					6.77
4.983	12.82	23.69	6.568	I O					6.75
5.000	12.67	23.43	6.553	IO					6.72
5.017	12.52	23.18	6.538	IO					6.70
5.033	12.36	22.93	6.524	IO					6.67
5.050	12.21	22.68	6.509	IO					6.65
5.067	12.06	22.43	6.495	IO					6.62
5.083	11.93	22.19	6.480	IO					6.60
5.100	11.81	21.95	6.466	IO					6.58
5.117	11.69	21.71	6.453	IO					6.55
5.133	11.57	21.47	6.439	IO					6.53
5.150	11.45	21.24	6.425	IO					6.51
5.167	11.32	21.01	6.412	IO					6.49
5.183	11.20	20.78	6.399	IO					6.46
5.200	11.08	20.56	6.385	IO					6.44
5.217	10.98	20.33	6.372	IO					6.42
5.233	10.88	20.11	6.360	IO					6.40
5.250	10.78	19.90	6.347	IO					6.38
5.267	10.68	19.68	6.335	IO					6.36
5.283	10.58	19.47	6.322	IO					6.34
5.300	10.48	19.26	6.310	IO					6.32
5.317	10.38	19.06	6.298	IO					6.30
5.333	10.29	18.85	6.286	IO					6.28
5.350	10.20	18.65	6.274	IO					6.26
5.367	10.12	18.45	6.263	IO					6.24
5.383	10.04	18.26	6.252	IO					6.22
5.400	9.95	18.06	6.240	IO					6.20
5.417	9.87	17.87	6.229	IO					6.18
5.433	9.79	17.69	6.218	IO					6.16
5.450	9.70	17.50	6.207	IO					6.15
5.467	9.62	17.32	6.197	IO					6.13
5.483	9.55	17.14	6.186	IO					6.11
5.500	9.48	16.96	6.176	IO					6.09
5.517	9.41	16.78	6.166	IO					6.08
5.533	9.34	16.61	6.156	IO					6.06
5.550	9.27	16.44	6.146	IO					6.04
5.567	9.20	16.27	6.136	IO					6.03
5.583	9.13	16.10	6.126	IO					6.01
5.600	9.06	15.97	6.117	IO					6.00
5.617	8.99	15.88	6.107	IO					5.98
5.633	8.93	15.80	6.098	IO					5.97
5.650	8.87	15.71	6.088	O					5.96
5.667	8.81	15.63	6.079	O					5.94
5.683	8.75	15.54	6.069	O					5.93
5.700	8.69	15.46	6.060	O					5.92
5.717	8.63	15.37	6.051	O					5.91
5.733	8.57	15.29	6.041	O					5.89
5.750	8.52	15.20	6.032	O					5.88
5.767	8.46	15.12	6.023	O					5.87
5.783	8.41	15.04	6.014	O					5.86
5.800	8.36	14.96	6.005	O					5.84
5.817	8.30	14.87	5.996	O					5.83
5.833	8.25	14.79	5.987	O					5.82
5.850	8.20	14.71	5.978	O					5.81
5.867	8.14	14.63	5.969	O					5.80
5.883	8.10	14.55	5.960	O					5.78
5.900	8.05	14.47	5.951	O					5.77

5.917	8.00	14.39	5.942	IO					5.76
5.933	7.96	14.31	5.933	IO					5.75
5.950	7.91	14.23	5.925	IO					5.74
5.967	7.86	14.15	5.916	IO					5.72
5.983	7.81	14.07	5.907	IO					5.71
6.000	7.77	14.00	5.899	IO					5.70
6.017	7.73	13.92	5.890	IO					5.69
6.033	7.68	13.84	5.882	IO					5.68
6.050	7.64	13.76	5.873	IO					5.67
6.067	7.60	13.69	5.865	IO					5.66
6.083	7.56	13.61	5.856	IO					5.64
6.100	7.52	13.54	5.848	IO					5.63
6.117	7.47	13.46	5.840	IO					5.62
6.133	7.43	13.39	5.832	IO					5.61
6.150	0.00	13.27	5.818	IO					5.59
6.167	0.00	13.10	5.800	IO					5.57
6.183	0.00	12.94	5.782	IO					5.54
6.200	0.00	12.78	5.764	IO					5.52
6.217	0.00	12.62	5.747	IO					5.50
6.233	0.00	12.47	5.730	IO					5.47
6.250	0.00	12.31	5.713	IO					5.45
6.267	0.00	12.16	5.696	IO					5.43
6.283	0.00	12.01	5.679	IO					5.40
6.300	0.00	11.86	5.663	IO					5.38
6.317	0.00	11.71	5.646	IO					5.36
6.333	0.00	11.57	5.630	IO					5.34
6.350	0.00	11.42	5.615	IO					5.32
6.367	0.00	11.28	5.599	IO					5.30
6.383	0.00	11.14	5.584	IO					5.28
6.400	0.00	11.00	5.568	IO					5.25
6.417	0.00	10.87	5.553	IO					5.23
6.433	0.00	10.73	5.538	IO					5.21
6.450	0.00	10.60	5.524	IO					5.19
6.467	0.00	10.47	5.509	IO					5.17
6.483	0.00	10.34	5.495	IO					5.16
6.500	0.00	10.21	5.481	IO					5.14
6.517	0.00	10.08	5.467	IO					5.12
6.533	0.00	9.96	5.453	IO					5.10
6.550	0.00	9.84	5.439	IO					5.08
6.567	0.00	9.71	5.426	IO					5.06
6.583	0.00	9.59	5.412	IO					5.04
6.600	0.00	9.48	5.399	IO					5.03
6.617	0.00	9.36	5.386	IO					5.01
6.633	0.00	9.27	5.374	IO					4.99
6.650	0.00	9.22	5.361	IO					4.98
6.667	0.00	9.17	5.348	IO					4.97
6.683	0.00	9.12	5.336	IO					4.96
6.700	0.00	9.06	5.323	IO					4.94
6.717	0.00	9.01	5.311	IO					4.93
6.733	0.00	8.96	5.298	IO					4.92
6.750	0.00	8.91	5.286	IO					4.91
6.767	0.00	8.86	5.274	IO					4.89
6.783	0.00	8.81	5.261	IO					4.88
6.800	0.00	8.76	5.249	IO					4.87
6.817	0.00	8.71	5.237	IO					4.86
6.833	0.00	8.66	5.225	IO					4.85
6.850	0.00	8.61	5.214	IO					4.84
6.867	0.00	8.56	5.202	IO					4.82
6.883	0.00	8.51	5.190	IO					4.81
6.900	0.00	8.46	5.178	IO					4.80
6.917	0.00	8.41	5.167	IO					4.79
6.933	0.00	8.36	5.155	IO					4.78
6.950	0.00	8.32	5.144	IO					4.77
6.967	0.00	8.27	5.132	IO					4.75
6.983	0.00	8.22	5.121	IO					4.74
7.000	0.00	8.18	5.110	IO					4.73
7.017	0.00	8.13	5.098	IO					4.72
7.033	0.00	8.08	5.087	IO					4.71
7.050	0.00	8.04	5.076	IO					4.70
7.067	0.00	7.99	5.065	IO					4.69
7.083	0.00	7.94	5.054	IO					4.68

7.100	0.00	7.90	5.043	IO					4.67
7.117	0.00	7.85	5.032	O					4.66
7.133	0.00	7.81	5.021	O					4.65
7.150	0.00	7.76	5.011	O					4.63
7.167	0.00	7.72	5.000	O					4.62
7.183	0.00	7.68	4.989	O					4.61
7.200	0.00	7.63	4.979	O					4.60
7.217	0.00	7.59	4.968	O					4.59
7.233	0.00	7.55	4.958	O					4.58
7.250	0.00	7.50	4.948	O					4.57
7.267	0.00	7.46	4.937	O					4.56
7.283	0.00	7.42	4.927	O					4.55
7.300	0.00	7.37	4.917	O					4.54
7.317	0.00	7.33	4.907	O					4.53
7.333	0.00	7.29	4.897	O					4.52
7.350	0.00	7.25	4.887	O					4.51
7.367	0.00	7.21	4.877	O					4.50
7.383	0.00	7.17	4.867	O					4.49
7.400	0.00	7.13	4.857	O					4.48
7.417	0.00	7.08	4.847	O					4.47
7.433	0.00	7.04	4.837	O					4.46
7.450	0.00	7.00	4.828	O					4.45
7.467	0.00	6.96	4.818	O					4.44
7.483	0.00	6.92	4.809	O					4.43
7.500	0.00	6.88	4.799	O					4.42
7.517	0.00	6.85	4.790	O					4.42
7.533	0.00	6.81	4.780	O					4.41
7.550	0.00	6.77	4.771	O					4.40
7.567	0.00	6.73	4.762	O					4.39
7.583	0.00	6.69	4.752	O					4.38
7.600	0.00	6.65	4.743	O					4.37
7.617	0.00	6.61	4.734	O					4.36
7.633	0.00	6.58	4.725	O					4.35
7.650	0.00	6.54	4.716	O					4.34
7.667	0.00	6.50	4.707	O					4.33
7.683	0.00	6.46	4.698	O					4.32
7.700	0.00	6.43	4.689	O					4.32
7.717	0.00	6.39	4.680	O					4.31
7.733	0.00	6.35	4.672	O					4.30
7.750	0.00	6.32	4.663	O					4.29
7.767	0.00	6.28	4.654	O					4.28
7.783	0.00	6.25	4.646	O					4.27
7.800	0.00	6.21	4.637	O					4.26
7.817	0.00	6.17	4.628	O					4.26
7.833	0.00	6.14	4.620	O					4.25
7.850	0.00	6.10	4.611	O					4.24
7.867	0.00	6.07	4.603	O					4.23
7.883	0.00	6.03	4.595	O					4.22
7.900	0.00	6.00	4.586	O					4.21
7.917	0.00	5.97	4.578	O					4.21
7.933	0.00	5.93	4.570	O					4.20
7.950	0.00	5.90	4.562	O					4.19
7.967	0.00	5.86	4.554	O					4.18
7.983	0.00	5.83	4.546	O					4.17
8.000	0.00	5.80	4.538	O					4.17
8.017	0.00	5.76	4.530	O					4.16
8.033	0.00	5.73	4.522	O					4.15
8.050	0.00	5.70	4.514	O					4.14
8.067	0.00	5.67	4.506	O					4.13
8.083	0.00	5.63	4.498	O					4.13
8.100	0.00	5.60	4.491	O					4.12
8.117	0.00	5.57	4.483	O					4.11
8.133	0.00	5.54	4.475	O					4.10
8.150	0.00	5.51	4.468	O					4.10
8.167	0.00	5.47	4.460	O					4.09
8.183	0.00	5.44	4.453	O					4.08
8.200	0.00	5.41	4.445	O					4.07
8.217	0.00	5.38	4.438	O					4.07
8.233	0.00	5.35	4.430	O					4.06
8.250	0.00	5.32	4.423	O					4.05
8.267	0.00	5.29	4.416	O					4.05

8.283	0.00	5.26	4.408	0					4.04
8.300	0.00	5.23	4.401	0					4.03
8.317	0.00	5.20	4.394	0					4.02
8.333	0.00	5.17	4.387	0					4.02
8.350	0.00	5.14	4.380	0					4.01
8.367	0.00	5.11	4.373	0					4.00
8.383	0.00	5.10	4.366	0					4.00
8.400	0.00	5.09	4.359	0					3.99
8.417	0.00	5.09	4.352	0					3.98
8.433	0.00	5.08	4.345	0					3.98
8.450	0.00	5.08	4.338	0					3.97
8.467	0.00	5.08	4.331	0					3.97
8.483	0.00	5.07	4.324	0					3.96
8.500	0.00	5.07	4.317	0					3.95
8.517	0.00	5.06	4.310	0					3.95
8.533	0.00	5.06	4.303	0					3.94
8.550	0.00	5.05	4.296	0					3.94
8.567	0.00	5.05	4.289	0					3.93
8.583	0.00	5.05	4.282	0					3.92
8.600	0.00	5.04	4.275	0					3.92
8.617	0.00	5.04	4.268	0					3.91
8.633	0.00	5.03	4.261	0					3.91
8.650	0.00	5.03	4.254	0					3.90
8.667	0.00	5.03	4.247	0					3.89
8.683	0.00	5.02	4.240	0					3.89
8.700	0.00	5.02	4.233	0					3.88
8.717	0.00	5.01	4.226	0					3.88
8.733	0.00	5.01	4.219	0					3.87
8.750	0.00	5.00	4.213	0					3.86
8.767	0.00	5.00	4.206	0					3.86
8.783	0.00	5.00	4.199	0					3.85
8.800	0.00	4.99	4.192	0					3.85
8.817	0.00	4.99	4.185	0					3.84
8.833	0.00	4.98	4.178	0					3.83
8.850	0.00	4.98	4.171	0					3.83
8.867	0.00	4.97	4.164	0					3.82
8.883	0.00	4.97	4.158	0					3.82
8.900	0.00	4.97	4.151	0					3.81
8.917	0.00	4.96	4.144	0					3.80
8.933	0.00	4.96	4.137	0					3.80
8.950	0.00	4.95	4.130	0					3.79
8.967	0.00	4.95	4.123	0					3.79
8.983	0.00	4.95	4.117	0					3.78
9.000	0.00	4.94	4.110	0					3.77
9.017	0.00	4.94	4.103	0					3.77
9.033	0.00	4.93	4.096	0					3.76
9.050	0.00	4.93	4.089	0					3.76
9.067	0.00	4.93	4.083	0					3.75
9.083	0.00	4.92	4.076	0					3.74
9.100	0.00	4.92	4.069	0					3.74
9.117	0.00	4.91	4.062	0					3.73
9.133	0.00	4.91	4.056	0					3.73
9.150	0.00	4.90	4.049	0					3.72
9.167	0.00	4.90	4.042	0					3.71
9.183	0.00	4.90	4.035	0					3.71
9.200	0.00	4.89	4.029	0					3.70
9.217	0.00	4.89	4.022	0					3.70
9.233	0.00	4.88	4.015	0					3.69
9.250	0.00	4.88	4.008	0					3.69
9.267	0.00	4.88	4.002	0					3.68
9.283	0.00	4.87	3.995	0					3.67
9.300	0.00	4.87	3.988	0					3.67
9.317	0.00	4.86	3.982	0					3.66
9.333	0.00	4.86	3.975	0					3.66
9.350	0.00	4.86	3.968	0					3.65
9.367	0.00	4.85	3.961	0					3.64
9.383	0.00	4.85	3.955	0					3.64
9.400	0.00	4.84	3.948	0					3.63
9.417	0.00	4.84	3.941	0					3.63
9.433	0.00	4.84	3.935	0					3.62
9.450	0.00	4.83	3.928	0					3.62

9.467	0.00	4.83	3.921	0					3.61
9.483	0.00	4.82	3.915	0					3.60
9.500	0.00	4.82	3.908	0					3.60
9.517	0.00	4.81	3.902	0					3.59
9.533	0.00	4.81	3.895	0					3.59
9.550	0.00	4.81	3.888	0					3.58
9.567	0.00	4.80	3.882	0					3.58
9.583	0.00	4.80	3.875	0					3.57
9.600	0.00	4.79	3.868	0					3.56
9.617	0.00	4.79	3.862	0					3.56
9.633	0.00	4.79	3.855	0					3.55
9.650	0.00	4.78	3.849	0					3.55
9.667	0.00	4.78	3.842	0					3.54
9.683	0.00	4.77	3.836	0					3.54
9.700	0.00	4.77	3.829	0					3.53
9.717	0.00	4.77	3.822	0					3.52
9.733	0.00	4.76	3.816	0					3.52
9.750	0.00	4.76	3.809	0					3.51
9.767	0.00	4.75	3.803	0					3.51
9.783	0.00	4.75	3.796	0					3.50
9.800	0.00	4.75	3.790	0					3.50
9.817	0.00	4.74	3.783	0					3.49
9.833	0.00	4.74	3.777	0					3.48
9.850	0.00	4.73	3.770	0					3.48
9.867	0.00	4.73	3.764	0					3.47
9.883	0.00	4.73	3.757	0					3.47
9.900	0.00	4.72	3.750	0					3.46
9.917	0.00	4.72	3.744	0					3.46
9.933	0.00	4.71	3.737	0					3.45
9.950	0.00	4.71	3.731	0					3.44
9.967	0.00	4.71	3.725	0					3.44
9.983	0.00	4.70	3.718	0					3.43
10.000	0.00	4.70	3.712	0					3.43
10.017	0.00	4.70	3.705	0					3.42
10.033	0.00	4.69	3.699	0					3.42
10.050	0.00	4.69	3.692	0					3.41
10.067	0.00	4.68	3.686	0					3.40
10.083	0.00	4.68	3.679	0					3.40
10.100	0.00	4.68	3.673	0					3.39
10.117	0.00	4.67	3.666	0					3.39
10.133	0.00	4.67	3.660	0					3.38
10.150	0.00	4.66	3.654	0					3.38
10.167	0.00	4.66	3.647	0					3.37
10.183	0.00	4.66	3.641	0					3.37
10.200	0.00	4.65	3.634	0					3.36
10.217	0.00	4.65	3.628	0					3.35
10.233	0.00	4.64	3.621	0					3.35
10.250	0.00	4.64	3.615	0					3.34
10.267	0.00	4.64	3.609	0					3.34
10.283	0.00	4.63	3.602	0					3.33
10.300	0.00	4.63	3.596	0					3.33
10.317	0.00	4.62	3.590	0					3.32
10.333	0.00	4.62	3.583	0					3.32
10.350	0.00	4.62	3.577	0					3.31
10.367	0.00	4.61	3.570	0					3.30
10.383	0.00	4.61	3.564	0					3.30
10.400	0.00	4.61	3.558	0					3.29
10.417	0.00	4.60	3.551	0					3.29
10.433	0.00	4.60	3.545	0					3.28
10.450	0.00	4.59	3.539	0					3.28
10.467	0.00	4.59	3.532	0					3.27
10.483	0.00	4.59	3.526	0					3.27
10.500	0.00	4.58	3.520	0					3.26
10.517	0.00	4.58	3.513	0					3.26
10.533	0.00	4.57	3.507	0					3.25
10.550	0.00	4.57	3.501	0					3.24
10.567	0.00	4.57	3.495	0					3.24
10.583	0.00	4.56	3.488	0					3.23
10.600	0.00	4.56	3.482	0					3.23
10.617	0.00	4.56	3.476	0					3.22
10.633	0.00	4.55	3.469	0					3.22

10.650	0.00	4.55	3.463	0					3.21
10.667	0.00	4.54	3.457	0					3.21
10.683	0.00	4.54	3.451	0					3.20
10.700	0.00	4.54	3.444	0					3.20
10.717	0.00	4.53	3.438	0					3.19
10.733	0.00	4.53	3.432	0					3.18
10.750	0.00	4.53	3.426	0					3.18
10.767	0.00	4.52	3.419	0					3.17
10.783	0.00	4.52	3.413	0					3.17
10.800	0.00	4.51	3.407	0					3.16
10.817	0.00	4.51	3.401	0					3.16
10.833	0.00	4.51	3.395	0					3.15
10.850	0.00	4.50	3.388	0					3.15
10.867	0.00	4.50	3.382	0					3.14
10.883	0.00	4.49	3.376	0					3.14
10.900	0.00	4.49	3.370	0					3.13
10.917	0.00	4.49	3.364	0					3.12
10.933	0.00	4.48	3.357	0					3.12
10.950	0.00	4.48	3.351	0					3.11
10.967	0.00	4.48	3.345	0					3.11
10.983	0.00	4.47	3.339	0					3.10
11.000	0.00	4.47	3.333	0					3.10
11.017	0.00	4.46	3.327	0					3.09
11.033	0.00	4.46	3.320	0					3.09
11.050	0.00	4.46	3.314	0					3.08
11.067	0.00	4.45	3.308	0					3.08
11.083	0.00	4.45	3.302	0					3.07
11.100	0.00	4.45	3.296	0					3.07
11.117	0.00	4.44	3.290	0					3.06
11.133	0.00	4.44	3.284	0					3.06
11.150	0.00	4.44	3.278	0					3.05
11.167	0.00	4.43	3.272	0					3.04
11.183	0.00	4.43	3.265	0					3.04
11.200	0.00	4.42	3.259	0					3.03
11.217	0.00	4.42	3.253	0					3.03
11.233	0.00	4.42	3.247	0					3.02
11.250	0.00	4.41	3.241	0					3.02
11.267	0.00	4.41	3.235	0					3.01
11.283	0.00	4.41	3.229	0					3.01
11.300	0.00	4.40	3.223	0					3.00
11.317	0.00	4.40	3.217	0					3.00
11.333	0.00	4.39	3.211	0					2.99
11.350	0.00	4.39	3.205	0					2.99
11.367	0.00	4.38	3.199	0					2.98
11.383	0.00	4.38	3.193	0					2.98
11.400	0.00	4.37	3.187	0					2.97
11.417	0.00	4.37	3.181	0					2.97
11.433	0.00	4.36	3.175	0					2.96
11.450	0.00	4.36	3.169	0					2.96
11.467	0.00	4.35	3.163	0					2.95
11.483	0.00	4.35	3.157	0					2.95
11.500	0.00	4.34	3.151	0					2.94
11.517	0.00	4.34	3.145	0					2.94
11.533	0.00	4.33	3.139	0					2.93
11.550	0.00	4.33	3.133	0					2.93
11.567	0.00	4.32	3.127	0					2.92
11.583	0.00	4.32	3.121	0					2.92
11.600	0.00	4.31	3.115	0					2.91
11.617	0.00	4.31	3.109	0					2.91
11.633	0.00	4.30	3.103	0					2.90
11.650	0.00	4.30	3.097	0					2.90
11.667	0.00	4.30	3.091	0					2.90
11.683	0.00	4.29	3.085	0					2.89
11.700	0.00	4.29	3.079	0					2.89
11.717	0.00	4.28	3.073	0					2.88
11.733	0.00	4.28	3.067	0					2.88
11.750	0.00	4.27	3.062	0					2.87
11.767	0.00	4.27	3.056	0					2.87
11.783	0.00	4.26	3.050	0					2.86
11.800	0.00	4.26	3.044	0					2.86
11.817	0.00	4.25	3.038	0					2.85

11.833	0.00	4.25	3.032	0					2.85
11.850	0.00	4.24	3.026	0					2.84
11.867	0.00	4.24	3.021	0					2.84
11.883	0.00	4.23	3.015	0					2.83
11.900	0.00	4.23	3.009	0					2.83
11.917	0.00	4.22	3.003	0					2.82
11.933	0.00	4.22	2.997	0					2.82
11.950	0.00	4.21	2.991	0					2.81
11.967	0.00	4.21	2.986	0					2.81
11.983	0.00	4.20	2.980	0					2.80
12.000	0.00	4.20	2.974	0					2.80
12.017	0.00	4.20	2.968	0					2.80
12.033	0.00	4.19	2.962	0					2.79
12.050	0.00	4.19	2.957	0					2.79
12.067	0.00	4.18	2.951	0					2.78
12.083	0.00	4.18	2.945	0					2.78
12.100	0.00	4.17	2.939	0					2.77
12.117	0.00	4.17	2.934	0					2.77
12.133	0.00	4.16	2.928	0					2.76
12.150	0.00	4.16	2.922	0					2.76
12.167	0.00	4.15	2.917	0					2.75
12.183	0.00	4.15	2.911	0					2.75
12.200	0.00	4.14	2.905	0					2.74
12.217	0.00	4.14	2.899	0					2.74
12.233	0.00	4.13	2.894	0					2.73
12.250	0.00	4.13	2.888	0					2.73
12.267	0.00	4.13	2.882	0					2.73
12.283	0.00	4.12	2.877	0					2.72
12.300	0.00	4.12	2.871	0					2.72
12.317	0.00	4.11	2.865	0					2.71
12.333	0.00	4.11	2.860	0					2.71
12.350	0.00	4.10	2.854	0					2.70
12.367	0.00	4.10	2.848	0					2.70
12.383	0.00	4.09	2.843	0					2.69
12.400	0.00	4.09	2.837	0					2.69
12.417	0.00	4.08	2.831	0					2.68
12.433	0.00	4.08	2.826	0					2.68
12.450	0.00	4.07	2.820	0					2.67
12.467	0.00	4.07	2.815	0					2.67
12.483	0.00	4.07	2.809	0					2.67
12.500	0.00	4.06	2.803	0					2.66
12.517	0.00	4.06	2.798	0					2.66
12.533	0.00	4.05	2.792	0					2.65
12.550	0.00	4.05	2.787	0					2.65
12.567	0.00	4.04	2.781	0					2.64
12.583	0.00	4.04	2.775	0					2.64
12.600	0.00	4.03	2.770	0					2.63
12.617	0.00	4.03	2.764	0					2.63
12.633	0.00	4.03	2.759	0					2.63
12.650	0.00	4.02	2.753	0					2.62
12.667	0.00	4.02	2.748	0					2.62
12.683	0.00	4.01	2.742	0					2.61
12.700	0.00	4.01	2.737	0					2.61
12.717	0.00	4.00	2.731	0					2.60
12.733	0.00	4.00	2.726	0					2.60
12.750	0.00	3.99	2.720	0					2.59
12.767	0.00	3.99	2.715	0					2.59
12.783	0.00	3.98	2.709	0					2.58
12.800	0.00	3.98	2.704	0					2.58
12.817	0.00	3.98	2.698	0					2.58
12.833	0.00	3.97	2.693	0					2.57
12.850	0.00	3.97	2.687	0					2.57
12.867	0.00	3.96	2.682	0					2.56
12.883	0.00	3.96	2.676	0					2.56
12.900	0.00	3.95	2.671	0					2.55
12.917	0.00	3.95	2.665	0					2.55
12.933	0.00	3.94	2.660	0					2.54
12.950	0.00	3.94	2.655	0					2.54
12.967	0.00	3.94	2.649	0					2.54
12.983	0.00	3.93	2.644	0					2.53
13.000	0.00	3.93	2.638	0					2.53

13.017	0.00	3.92	2.633	0					2.52
13.033	0.00	3.92	2.628	0					2.52
13.050	0.00	3.91	2.622	0					2.51
13.067	0.00	3.91	2.617	0					2.51
13.083	0.00	3.91	2.611	0					2.51
13.100	0.00	3.90	2.606	0					2.50
13.117	0.00	3.90	2.601	0					2.50
13.133	0.00	3.89	2.595	0					2.49
13.150	0.00	3.89	2.590	0					2.49
13.167	0.00	3.88	2.585	0					2.48
13.183	0.00	3.88	2.579	0					2.48
13.200	0.00	3.87	2.574	0					2.47
13.217	0.00	3.87	2.569	0					2.47
13.233	0.00	3.87	2.563	0					2.47
13.250	0.00	3.86	2.558	0					2.46
13.267	0.00	3.86	2.553	0					2.46
13.283	0.00	3.85	2.547	0					2.45
13.300	0.00	3.85	2.542	0					2.45
13.317	0.00	3.84	2.537	0					2.44
13.333	0.00	3.84	2.531	0					2.44
13.350	0.00	3.84	2.526	0					2.44
13.367	0.00	3.83	2.521	0					2.43
13.383	0.00	3.83	2.516	0					2.43
13.400	0.00	3.82	2.510	0					2.42
13.417	0.00	3.82	2.505	0					2.42
13.433	0.00	3.81	2.500	0					2.41
13.450	0.00	3.81	2.494	0					2.41
13.467	0.00	3.81	2.489	0					2.41
13.483	0.00	3.80	2.484	0					2.40
13.500	0.00	3.80	2.479	0					2.40
13.517	0.00	3.79	2.474	0					2.39
13.533	0.00	3.79	2.468	0					2.39
13.550	0.00	3.78	2.463	0					2.38
13.567	0.00	3.78	2.458	0					2.38
13.583	0.00	3.78	2.453	0					2.38
13.600	0.00	3.77	2.447	0					2.37
13.617	0.00	3.77	2.442	0					2.37
13.633	0.00	3.76	2.437	0					2.36
13.650	0.00	3.76	2.432	0					2.36
13.667	0.00	3.76	2.427	0					2.36
13.683	0.00	3.75	2.422	0					2.35
13.700	0.00	3.75	2.416	0					2.35
13.717	0.00	3.74	2.411	0					2.34
13.733	0.00	3.74	2.406	0					2.34
13.750	0.00	3.73	2.401	0					2.33
13.767	0.00	3.73	2.396	0					2.33
13.783	0.00	3.73	2.391	0					2.33
13.800	0.00	3.72	2.386	0					2.32
13.817	0.00	3.72	2.380	0					2.32
13.833	0.00	3.71	2.375	0					2.31
13.850	0.00	3.71	2.370	0					2.31
13.867	0.00	3.70	2.365	0					2.30
13.883	0.00	3.70	2.360	0					2.30
13.900	0.00	3.70	2.355	0					2.30
13.917	0.00	3.69	2.350	0					2.29
13.933	0.00	3.69	2.345	0					2.29
13.950	0.00	3.68	2.340	0					2.28
13.967	0.00	3.68	2.335	0					2.28
13.983	0.00	3.68	2.330	0					2.28
14.000	0.00	3.67	2.324	0					2.27
14.017	0.00	3.67	2.319	0					2.27
14.033	0.00	3.66	2.314	0					2.26
14.050	0.00	3.66	2.309	0					2.26
14.067	0.00	3.66	2.304	0					2.26
14.083	0.00	3.65	2.299	0					2.25
14.100	0.00	3.65	2.294	0					2.25
14.117	0.00	3.64	2.289	0					2.24
14.133	0.00	3.64	2.284	0					2.24
14.150	0.00	3.64	2.279	0					2.24
14.167	0.00	3.63	2.274	0					2.23
14.183	0.00	3.63	2.269	0					2.23

14.200	0.00	3.62	2.264	0					2.22
14.217	0.00	3.62	2.259	0					2.22
14.233	0.00	3.61	2.254	0					2.21
14.250	0.00	3.61	2.249	0					2.21
14.267	0.00	3.61	2.244	0					2.21
14.283	0.00	3.60	2.239	0					2.20
14.300	0.00	3.60	2.234	0					2.20
14.317	0.00	3.59	2.229	0					2.19
14.333	0.00	3.59	2.224	0					2.19
14.350	0.00	3.59	2.219	0					2.19
14.367	0.00	3.58	2.215	0					2.18
14.383	0.00	3.58	2.210	0					2.18
14.400	0.00	3.57	2.205	0					2.17
14.417	0.00	3.57	2.200	0					2.17
14.433	0.00	3.57	2.195	0					2.17
14.450	0.00	3.56	2.190	0					2.16
14.467	0.00	3.56	2.185	0					2.16
14.483	0.00	3.55	2.180	0					2.15
14.500	0.00	3.55	2.175	0					2.15
14.517	0.00	3.55	2.170	0					2.15
14.533	0.00	3.54	2.165	0					2.14
14.550	0.00	3.54	2.161	0					2.14
14.567	0.00	3.53	2.156	0					2.13
14.583	0.00	3.53	2.151	0					2.13
14.600	0.00	3.53	2.146	0					2.13
14.617	0.00	3.52	2.141	0					2.12
14.633	0.00	3.52	2.136	0					2.12
14.650	0.00	3.51	2.131	0					2.11
14.667	0.00	3.51	2.127	0					2.11
14.683	0.00	3.51	2.122	0					2.11
14.700	0.00	3.50	2.117	0					2.10
14.717	0.00	3.50	2.112	0					2.10
14.733	0.00	3.50	2.107	0					2.10
14.750	0.00	3.49	2.102	0					2.09
14.767	0.00	3.49	2.098	0					2.09
14.783	0.00	3.48	2.093	0					2.08
14.800	0.00	3.48	2.088	0					2.08
14.817	0.00	3.48	2.083	0					2.08
14.833	0.00	3.47	2.079	0					2.07
14.850	0.00	3.47	2.074	0					2.07
14.867	0.00	3.46	2.069	0					2.06
14.883	0.00	3.46	2.064	0					2.06
14.900	0.00	3.46	2.059	0					2.06
14.917	0.00	3.45	2.055	0					2.05
14.933	0.00	3.45	2.050	0					2.05
14.950	0.00	3.44	2.045	0					2.04
14.967	0.00	3.44	2.040	0					2.04
14.983	0.00	3.44	2.036	0					2.04
15.000	0.00	3.43	2.031	0					2.03
15.017	0.00	3.43	2.026	0					2.03
15.033	0.00	3.43	2.022	0					2.03
15.050	0.00	3.42	2.017	0					2.02
15.067	0.00	3.42	2.012	0					2.02
15.083	0.00	3.41	2.007	0					2.01
15.100	0.00	3.41	2.003	0					2.01
15.117	0.00	3.41	1.998	0					2.01
15.133	0.00	3.40	1.993	0					2.00
15.150	0.00	3.40	1.989	0					2.00
15.167	0.00	3.39	1.984	0					2.00
15.183	0.00	3.39	1.979	0					1.99
15.200	0.00	3.39	1.975	0					1.99
15.217	0.00	3.38	1.970	0					1.98
15.233	0.00	3.38	1.965	0					1.98
15.250	0.00	3.37	1.961	0					1.98
15.267	0.00	3.37	1.956	0					1.97
15.283	0.00	3.36	1.951	0					1.97
15.300	0.00	3.36	1.947	0					1.97
15.317	0.00	3.36	1.942	0					1.96
15.333	0.00	3.35	1.937	0					1.96
15.350	0.00	3.35	1.933	0					1.96
15.367	0.00	3.34	1.928	0					1.95

15.383	0.00	3.34	1.924	0					1.95
15.400	0.00	3.33	1.919	0					1.94
15.417	0.00	3.33	1.914	0					1.94
15.433	0.00	3.32	1.910	0					1.94
15.450	0.00	3.32	1.905	0					1.93
15.467	0.00	3.32	1.901	0					1.93
15.483	0.00	3.31	1.896	0					1.93
15.500	0.00	3.31	1.892	0					1.92
15.517	0.00	3.30	1.887	0					1.92
15.533	0.00	3.30	1.883	0					1.92
15.550	0.00	3.29	1.878	0					1.91
15.567	0.00	3.29	1.873	0					1.91
15.583	0.00	3.29	1.869	0					1.91
15.600	0.00	3.28	1.864	0					1.90
15.617	0.00	3.28	1.860	0					1.90
15.633	0.00	3.27	1.855	0					1.89
15.650	0.00	3.27	1.851	0					1.89
15.667	0.00	3.27	1.846	0					1.89
15.683	0.00	3.26	1.842	0					1.88
15.700	0.00	3.26	1.837	0					1.88
15.717	0.00	3.25	1.833	0					1.88
15.733	0.00	3.25	1.828	0					1.87
15.750	0.00	3.24	1.824	0					1.87
15.767	0.00	3.24	1.819	0					1.87
15.783	0.00	3.24	1.815	0					1.86
15.800	0.00	3.23	1.811	0					1.86
15.817	0.00	3.23	1.806	0					1.86
15.833	0.00	3.22	1.802	0					1.85
15.850	0.00	3.22	1.797	0					1.85
15.867	0.00	3.22	1.793	0					1.85
15.883	0.00	3.21	1.788	0					1.84
15.900	0.00	3.21	1.784	0					1.84
15.917	0.00	3.20	1.780	0					1.84
15.933	0.00	3.20	1.775	0					1.83
15.950	0.00	3.19	1.771	0					1.83
15.967	0.00	3.19	1.766	0					1.83
15.983	0.00	3.19	1.762	0					1.82
16.000	0.00	3.18	1.758	0					1.82
16.017	0.00	3.18	1.753	0					1.81
16.033	0.00	3.17	1.749	0					1.81
16.050	0.00	3.17	1.744	0					1.81
16.067	0.00	3.17	1.740	0					1.80
16.083	0.00	3.16	1.736	0					1.80
16.100	0.00	3.16	1.731	0					1.80
16.117	0.00	3.15	1.727	0					1.79
16.133	0.00	3.15	1.723	0					1.79
16.150	0.00	3.15	1.718	0					1.79
16.167	0.00	3.14	1.714	0					1.78
16.183	0.00	3.14	1.710	0					1.78
16.200	0.00	3.13	1.705	0					1.78
16.217	0.00	3.13	1.701	0					1.77
16.233	0.00	3.13	1.697	0					1.77
16.250	0.00	3.12	1.692	0					1.77
16.267	0.00	3.12	1.688	0					1.76
16.283	0.00	3.11	1.684	0					1.76
16.300	0.00	3.11	1.680	0					1.76
16.317	0.00	3.10	1.675	0					1.75
16.333	0.00	3.10	1.671	0					1.75
16.350	0.00	3.10	1.667	0					1.75
16.367	0.00	3.09	1.662	0					1.74
16.383	0.00	3.09	1.658	0					1.74
16.400	0.00	3.08	1.654	0					1.74
16.417	0.00	3.08	1.650	0					1.73
16.433	0.00	3.08	1.645	0					1.73
16.450	0.00	3.07	1.641	0					1.73
16.467	0.00	3.07	1.637	0					1.72
16.483	0.00	3.07	1.633	0					1.72
16.500	0.00	3.06	1.629	0					1.72
16.517	0.00	3.06	1.624	0					1.71
16.533	0.00	3.05	1.620	0					1.71
16.550	0.00	3.05	1.616	0					1.71

16.567	0.00	3.05	1.612	0					1.70
16.583	0.00	3.04	1.608	0					1.70
16.600	0.00	3.04	1.603	0					1.70
16.617	0.00	3.03	1.599	0					1.69
16.633	0.00	3.03	1.595	0					1.69
16.650	0.00	3.03	1.591	0					1.69
16.667	0.00	3.02	1.587	0					1.68
16.683	0.00	3.02	1.583	0					1.68
16.700	0.00	3.01	1.578	0					1.68
16.717	0.00	3.01	1.574	0					1.68
16.733	0.00	3.01	1.570	0					1.67
16.750	0.00	3.00	1.566	0					1.67
16.767	0.00	3.00	1.562	0					1.67
16.783	0.00	2.99	1.558	0					1.66
16.800	0.00	2.99	1.554	0					1.66
16.817	0.00	2.99	1.549	0					1.66
16.833	0.00	2.98	1.545	0					1.65
16.850	0.00	2.98	1.541	0					1.65
16.867	0.00	2.98	1.537	0					1.65
16.883	0.00	2.97	1.533	0					1.64
16.900	0.00	2.97	1.529	0					1.64
16.917	0.00	2.96	1.525	0					1.64
16.933	0.00	2.96	1.521	0					1.63
16.950	0.00	2.96	1.517	0					1.63
16.967	0.00	2.95	1.513	0					1.63
16.983	0.00	2.95	1.509	0					1.62
17.000	0.00	2.94	1.505	0					1.62
17.017	0.00	2.94	1.500	0					1.62
17.033	0.00	2.94	1.496	0					1.61
17.050	0.00	2.93	1.492	0					1.61
17.067	0.00	2.93	1.488	0					1.61
17.083	0.00	2.93	1.484	0					1.60
17.100	0.00	2.92	1.480	0					1.60
17.117	0.00	2.92	1.476	0					1.60
17.133	0.00	2.91	1.472	0					1.60
17.150	0.00	2.91	1.468	0					1.59
17.167	0.00	2.91	1.464	0					1.59
17.183	0.00	2.90	1.460	0					1.59
17.200	0.00	2.90	1.456	0					1.58
17.217	0.00	2.90	1.452	0					1.58
17.233	0.00	2.89	1.448	0					1.58
17.250	0.00	2.89	1.444	0					1.57
17.267	0.00	2.88	1.440	0					1.57
17.283	0.00	2.88	1.436	0					1.57
17.300	0.00	2.88	1.432	0					1.56
17.317	0.00	2.87	1.428	0					1.56
17.333	0.00	2.87	1.424	0					1.56
17.350	0.00	2.87	1.420	0					1.56
17.367	0.00	2.86	1.417	0					1.55
17.383	0.00	2.86	1.413	0					1.55
17.400	0.00	2.85	1.409	0					1.55
17.417	0.00	2.85	1.405	0					1.54
17.433	0.00	2.85	1.401	0					1.54
17.450	0.00	2.84	1.397	0					1.54
17.467	0.00	2.84	1.393	0					1.53
17.483	0.00	2.84	1.389	0					1.53
17.500	0.00	2.83	1.385	0					1.53
17.517	0.00	2.83	1.381	0					1.52
17.533	0.00	2.83	1.377	0					1.52
17.550	0.00	2.82	1.373	0					1.52
17.567	0.00	2.82	1.370	0					1.52
17.583	0.00	2.81	1.366	0					1.51
17.600	0.00	2.81	1.362	0					1.51
17.617	0.00	2.81	1.358	0					1.51
17.633	0.00	2.80	1.354	0					1.50
17.650	0.00	2.80	1.350	0					1.50
17.667	0.00	2.80	1.346	0					1.50
17.683	0.00	2.79	1.343	0					1.49
17.700	0.00	2.79	1.339	0					1.49
17.717	0.00	2.79	1.335	0					1.49
17.733	0.00	2.78	1.331	0					1.49

17.750	0.00	2.78	1.327	0					1.48
17.767	0.00	2.78	1.323	0					1.48
17.783	0.00	2.77	1.320	0					1.48
17.800	0.00	2.77	1.316	0					1.47
17.817	0.00	2.76	1.312	0					1.47
17.833	0.00	2.76	1.308	0					1.47
17.850	0.00	2.76	1.304	0					1.46
17.867	0.00	2.75	1.301	0					1.46
17.883	0.00	2.75	1.297	0					1.46
17.900	0.00	2.75	1.293	0					1.46
17.917	0.00	2.74	1.289	0					1.45
17.933	0.00	2.74	1.285	0					1.45
17.950	0.00	2.74	1.282	0					1.45
17.967	0.00	2.73	1.278	0					1.44
17.983	0.00	2.73	1.274	0					1.44
18.000	0.00	2.73	1.270	0					1.44
18.017	0.00	2.72	1.267	0					1.43
18.033	0.00	2.72	1.263	0					1.43
18.050	0.00	2.71	1.259	0					1.43
18.067	0.00	2.71	1.255	0					1.43
18.083	0.00	2.71	1.252	0					1.42
18.100	0.00	2.70	1.248	0					1.42
18.117	0.00	2.70	1.244	0					1.42
18.133	0.00	2.70	1.240	0					1.41
18.150	0.00	2.69	1.237	0					1.41
18.167	0.00	2.69	1.233	0					1.41
18.183	0.00	2.69	1.229	0					1.41
18.200	0.00	2.68	1.226	0					1.40
18.217	0.00	2.68	1.222	0					1.40
18.233	0.00	2.68	1.218	0					1.40
18.250	0.00	2.67	1.215	0					1.39
18.267	0.00	2.67	1.211	0					1.39
18.283	0.00	2.67	1.207	0					1.39
18.300	0.00	2.66	1.204	0					1.39
18.317	0.00	2.66	1.200	0					1.38
18.333	0.00	2.66	1.196	0					1.38
18.350	0.00	2.65	1.193	0					1.38
18.367	0.00	2.65	1.189	0					1.37
18.383	0.00	2.65	1.185	0					1.37
18.400	0.00	2.64	1.182	0					1.37
18.417	0.00	2.64	1.178	0					1.37
18.433	0.00	2.64	1.174	0					1.36
18.450	0.00	2.63	1.171	0					1.36
18.467	0.00	2.63	1.167	0					1.36
18.483	0.00	2.63	1.163	0					1.35
18.500	0.00	2.62	1.160	0					1.35
18.517	0.00	2.62	1.156	0					1.35
18.533	0.00	2.61	1.153	0					1.35
18.550	0.00	2.61	1.149	0					1.34
18.567	0.00	2.61	1.145	0					1.34
18.583	0.00	2.60	1.142	0					1.34
18.600	0.00	2.60	1.138	0					1.33
18.617	0.00	2.60	1.135	0					1.33
18.633	0.00	2.59	1.131	0					1.33
18.650	0.00	2.59	1.128	0					1.33
18.667	0.00	2.59	1.124	0					1.32
18.683	0.00	2.58	1.120	0					1.32
18.700	0.00	2.58	1.117	0					1.32
18.717	0.00	2.58	1.113	0					1.32
18.733	0.00	2.57	1.110	0					1.31
18.750	0.00	2.57	1.106	0					1.31
18.767	0.00	2.57	1.103	0					1.31
18.783	0.00	2.56	1.099	0					1.30
18.800	0.00	2.56	1.096	0					1.30
18.817	0.00	2.56	1.092	0					1.30
18.833	0.00	2.55	1.089	0					1.30
18.850	0.00	2.55	1.085	0					1.29
18.867	0.00	2.55	1.082	0					1.29
18.883	0.00	2.55	1.078	0					1.29
18.900	0.00	2.54	1.075	0					1.28
18.917	0.00	2.54	1.071	0					1.28

18.933	0.00	2.54	1.068	0					1.28
18.950	0.00	2.53	1.064	0					1.28
18.967	0.00	2.53	1.061	0					1.27
18.983	0.00	2.53	1.057	0					1.27
19.000	0.00	2.52	1.054	0					1.27
19.017	0.00	2.52	1.050	0					1.27
19.033	0.00	2.52	1.047	0					1.26
19.050	0.00	2.51	1.043	0					1.26
19.067	0.00	2.51	1.040	0					1.26
19.083	0.00	2.51	1.036	0					1.25
19.100	0.00	2.50	1.033	0					1.25
19.117	0.00	2.50	1.029	0					1.25
19.133	0.00	2.50	1.026	0					1.25
19.150	0.00	2.49	1.023	0					1.24
19.167	0.00	2.49	1.019	0					1.24
19.183	0.00	2.49	1.016	0					1.24
19.200	0.00	2.48	1.012	0					1.24
19.217	0.00	2.48	1.009	0					1.23
19.233	0.00	2.48	1.005	0					1.23
19.250	0.00	2.47	1.002	0					1.23
19.267	0.00	2.47	0.999	0					1.23
19.283	0.00	2.47	0.995	0					1.22
19.300	0.00	2.46	0.992	0					1.22
19.317	0.00	2.46	0.988	0					1.22
19.333	0.00	2.46	0.985	0					1.21
19.350	0.00	2.45	0.982	0					1.21
19.367	0.00	2.45	0.978	0					1.21
19.383	0.00	2.45	0.975	0					1.21
19.400	0.00	2.45	0.971	0					1.20
19.417	0.00	2.44	0.968	0					1.20
19.433	0.00	2.44	0.965	0					1.20
19.450	0.00	2.44	0.961	0					1.20
19.467	0.00	2.43	0.958	0					1.19
19.483	0.00	2.43	0.955	0					1.19
19.500	0.00	2.43	0.951	0					1.19
19.517	0.00	2.42	0.948	0					1.19
19.533	0.00	2.42	0.945	0					1.18
19.550	0.00	2.42	0.941	0					1.18
19.567	0.00	2.41	0.938	0					1.18
19.583	0.00	2.41	0.935	0					1.18
19.600	0.00	2.41	0.931	0					1.17
19.617	0.00	2.40	0.928	0					1.17
19.633	0.00	2.40	0.925	0					1.17
19.650	0.00	2.40	0.921	0					1.17
19.667	0.00	2.40	0.918	0					1.16
19.683	0.00	2.39	0.915	0					1.16
19.700	0.00	2.39	0.912	0					1.16
19.717	0.00	2.39	0.908	0					1.15
19.733	0.00	2.38	0.905	0					1.15
19.750	0.00	2.38	0.902	0					1.15
19.767	0.00	2.38	0.898	0					1.15
19.783	0.00	2.37	0.895	0					1.14
19.800	0.00	2.37	0.892	0					1.14
19.817	0.00	2.37	0.889	0					1.14
19.833	0.00	2.36	0.885	0					1.14
19.850	0.00	2.36	0.882	0					1.13
19.867	0.00	2.36	0.879	0					1.13
19.883	0.00	2.36	0.876	0					1.13
19.900	0.00	2.35	0.872	0					1.13
19.917	0.00	2.35	0.869	0					1.12
19.933	0.00	2.35	0.866	0					1.12
19.950	0.00	2.34	0.863	0					1.12
19.967	0.00	2.34	0.859	0					1.12
19.983	0.00	2.34	0.856	0					1.11
20.000	0.00	2.33	0.853	0					1.11
20.017	0.00	2.33	0.850	0					1.11
20.033	0.00	2.33	0.847	0					1.11
20.050	0.00	2.33	0.843	0					1.10
20.067	0.00	2.32	0.840	0					1.10
20.083	0.00	2.32	0.837	0					1.10
20.100	0.00	2.32	0.834	0					1.10

20.117	0.00	2.31	0.831	0					1.09
20.133	0.00	2.31	0.827	0					1.09
20.150	0.00	2.31	0.824	0					1.09
20.167	0.00	2.30	0.821	0					1.09
20.183	0.00	2.30	0.818	0					1.08
20.200	0.00	2.30	0.815	0					1.08
20.217	0.00	2.30	0.812	0					1.08
20.233	0.00	2.29	0.808	0					1.08
20.250	0.00	2.29	0.805	0					1.07
20.267	0.00	2.29	0.802	0					1.07
20.283	0.00	2.28	0.799	0					1.07
20.300	0.00	2.28	0.796	0					1.07
20.317	0.00	2.28	0.793	0					1.06
20.333	0.00	2.27	0.790	0					1.06
20.350	0.00	2.27	0.786	0					1.06
20.367	0.00	2.27	0.783	0					1.06
20.383	0.00	2.27	0.780	0					1.05
20.400	0.00	2.26	0.777	0					1.05
20.417	0.00	2.26	0.774	0					1.05
20.433	0.00	2.26	0.771	0					1.05
20.450	0.00	2.25	0.768	0					1.05
20.467	0.00	2.25	0.765	0					1.04
20.483	0.00	2.25	0.762	0					1.04
20.500	0.00	2.25	0.758	0					1.04
20.517	0.00	2.24	0.755	0					1.04
20.533	0.00	2.24	0.752	0					1.03
20.550	0.00	2.24	0.749	0					1.03
20.567	0.00	2.23	0.746	0					1.03
20.583	0.00	2.23	0.743	0					1.03
20.600	0.00	2.23	0.740	0					1.02
20.617	0.00	2.23	0.737	0					1.02
20.633	0.00	2.22	0.734	0					1.02
20.650	0.00	2.22	0.731	0					1.02
20.667	0.00	2.22	0.728	0					1.01
20.683	0.00	2.21	0.725	0					1.01
20.700	0.00	2.21	0.722	0					1.01
20.717	0.00	2.21	0.719	0					1.01
20.733	0.00	2.21	0.716	0					1.00
20.750	0.00	2.20	0.712	0					1.00
20.767	0.00	2.20	0.709	0					1.00
20.783	0.00	2.19	0.706	0					0.99
20.800	0.00	2.18	0.703	0					0.99
20.817	0.00	2.17	0.700	0					0.99
20.833	0.00	2.16	0.697	0					0.98
20.850	0.00	2.15	0.694	0					0.98
20.867	0.00	2.14	0.692	0					0.97
20.883	0.00	2.13	0.689	0					0.97
20.900	0.00	2.12	0.686	0					0.97
20.917	0.00	2.12	0.683	0					0.96
20.933	0.00	2.11	0.680	0					0.96
20.950	0.00	2.10	0.677	0					0.95
20.967	0.00	2.09	0.674	0					0.95
20.983	0.00	2.08	0.671	0					0.95
21.000	0.00	2.07	0.668	0					0.94
21.017	0.00	2.06	0.665	0					0.94
21.033	0.00	2.05	0.663	0					0.93
21.050	0.00	2.04	0.660	0					0.93
21.067	0.00	2.04	0.657	0					0.93
21.083	0.00	2.03	0.654	0					0.92
21.100	0.00	2.02	0.651	0					0.92
21.117	0.00	2.01	0.649	0					0.91
21.133	0.00	2.00	0.646	0					0.91
21.150	0.00	1.99	0.643	0					0.91
21.167	0.00	1.98	0.640	0					0.90
21.183	0.00	1.98	0.638	0					0.90
21.200	0.00	1.97	0.635	0					0.89
21.217	0.00	1.96	0.632	0					0.89
21.233	0.00	1.95	0.630	0					0.89
21.250	0.00	1.94	0.627	0					0.88
21.267	0.00	1.93	0.624	0					0.88
21.283	0.00	1.93	0.622	0					0.88

21.300	0.00	1.92	0.619	0					0.87
21.317	0.00	1.91	0.616	0					0.87
21.333	0.00	1.90	0.614	0					0.86
21.350	0.00	1.89	0.611	0					0.86
21.367	0.00	1.89	0.608	0					0.86
21.383	0.00	1.88	0.606	0					0.85
21.400	0.00	1.87	0.603	0					0.85
21.417	0.00	1.86	0.601	0					0.85
21.433	0.00	1.85	0.598	0					0.84
21.450	0.00	1.85	0.596	0					0.84
21.467	0.00	1.84	0.593	0					0.84
21.483	0.00	1.83	0.590	0					0.83
21.500	0.00	1.82	0.588	0					0.83
21.517	0.00	1.81	0.585	0					0.82
21.533	0.00	1.81	0.583	0					0.82
21.550	0.00	1.80	0.580	0					0.82
21.567	0.00	1.79	0.578	0					0.81
21.583	0.00	1.78	0.576	0					0.81
21.600	0.00	1.78	0.573	0					0.81
21.617	0.00	1.77	0.571	0					0.80
21.633	0.00	1.76	0.568	0					0.80
21.650	0.00	1.75	0.566	0					0.80
21.667	0.00	1.75	0.563	0					0.79
21.683	0.00	1.74	0.561	0					0.79
21.700	0.00	1.73	0.559	0					0.79
21.717	0.00	1.72	0.556	0					0.78
21.733	0.00	1.72	0.554	0					0.78
21.750	0.00	1.71	0.552	0					0.78
21.767	0.00	1.70	0.549	0					0.77
21.783	0.00	1.69	0.547	0					0.77
21.800	0.00	1.69	0.544	0					0.77
21.817	0.00	1.68	0.542	0					0.76
21.833	0.00	1.67	0.540	0					0.76
21.850	0.00	1.67	0.538	0					0.76
21.867	0.00	1.66	0.535	0					0.75
21.883	0.00	1.65	0.533	0					0.75
21.900	0.00	1.64	0.531	0					0.75
21.917	0.00	1.64	0.528	0					0.74
21.933	0.00	1.63	0.526	0					0.74
21.950	0.00	1.62	0.524	0					0.74
21.967	0.00	1.62	0.522	0					0.73
21.983	0.00	1.61	0.520	0					0.73
22.000	0.00	1.60	0.517	0					0.73
22.017	0.00	1.60	0.515	0					0.73
22.033	0.00	1.59	0.513	0					0.72
22.050	0.00	1.58	0.511	0					0.72
22.067	0.00	1.58	0.509	0					0.72
22.083	0.00	1.57	0.506	0					0.71
22.100	0.00	1.56	0.504	0					0.71
22.117	0.00	1.56	0.502	0					0.71
22.133	0.00	1.55	0.500	0					0.70
22.150	0.00	1.54	0.498	0					0.70
22.167	0.00	1.54	0.496	0					0.70
22.183	0.00	1.53	0.494	0					0.70
22.200	0.00	1.52	0.491	0					0.69
22.217	0.00	1.52	0.489	0					0.69
22.233	0.00	1.51	0.487	0					0.69
22.250	0.00	1.50	0.485	0					0.68
22.267	0.00	1.50	0.483	0					0.68
22.283	0.00	1.49	0.481	0					0.68
22.300	0.00	1.48	0.479	0					0.67
22.317	0.00	1.48	0.477	0					0.67
22.333	0.00	1.47	0.475	0					0.67
22.350	0.00	1.47	0.473	0					0.67
22.367	0.00	1.46	0.471	0					0.66
22.383	0.00	1.45	0.469	0					0.66
22.400	0.00	1.45	0.467	0					0.66
22.417	0.00	1.44	0.465	0					0.65
22.433	0.00	1.43	0.463	0					0.65
22.450	0.00	1.43	0.461	0					0.65
22.467	0.00	1.42	0.459	0					0.65

22.483	0.00	1.42	0.457	0					0.64
22.500	0.00	1.41	0.455	0					0.64
22.517	0.00	1.40	0.453	0					0.64
22.533	0.00	1.40	0.451	0					0.64
22.550	0.00	1.39	0.449	0					0.63
22.567	0.00	1.39	0.447	0					0.63
22.583	0.00	1.38	0.446	0					0.63
22.600	0.00	1.37	0.444	0					0.62
22.617	0.00	1.37	0.442	0					0.62
22.633	0.00	1.36	0.440	0					0.62
22.650	0.00	1.36	0.438	0					0.62
22.667	0.00	1.35	0.436	0					0.61
22.683	0.00	1.35	0.434	0					0.61
22.700	0.00	1.34	0.432	0					0.61
22.717	0.00	1.33	0.431	0					0.61
22.733	0.00	1.33	0.429	0					0.60
22.750	0.00	1.32	0.427	0					0.60
22.767	0.00	1.32	0.425	0					0.60
22.783	0.00	1.31	0.423	0					0.60
22.800	0.00	1.31	0.421	0					0.59
22.817	0.00	1.30	0.420	0					0.59
22.833	0.00	1.29	0.418	0					0.59
22.850	0.00	1.29	0.416	0					0.59
22.867	0.00	1.28	0.414	0					0.58
22.883	0.00	1.28	0.413	0					0.58
22.900	0.00	1.27	0.411	0					0.58
22.917	0.00	1.27	0.409	0					0.58
22.933	0.00	1.26	0.407	0					0.57
22.950	0.00	1.26	0.406	0					0.57
22.967	0.00	1.25	0.404	0					0.57
22.983	0.00	1.25	0.402	0					0.57
23.000	0.00	1.24	0.400	0					0.56
23.017	0.00	1.24	0.399	0					0.56
23.033	0.00	1.23	0.397	0					0.56
23.050	0.00	1.23	0.395	0					0.56
23.067	0.00	1.22	0.394	0					0.55
23.083	0.00	1.21	0.392	0					0.55
23.100	0.00	1.21	0.390	0					0.55
23.117	0.00	1.20	0.389	0					0.55
23.133	0.00	1.20	0.387	0					0.55
23.150	0.00	1.19	0.385	0					0.54
23.167	0.00	1.19	0.384	0					0.54
23.183	0.00	1.18	0.382	0					0.54
23.200	0.00	1.18	0.380	0					0.54
23.217	0.00	1.17	0.379	0					0.53
23.233	0.00	1.17	0.377	0					0.53
23.250	0.00	1.16	0.376	0					0.53
23.267	0.00	1.16	0.374	0					0.53
23.283	0.00	1.15	0.372	0					0.52
23.300	0.00	1.15	0.371	0					0.52
23.317	0.00	1.14	0.369	0					0.52
23.333	0.00	1.14	0.368	0					0.52
23.350	0.00	1.13	0.366	0					0.52
23.367	0.00	1.13	0.365	0					0.51
23.383	0.00	1.12	0.363	0					0.51
23.400	0.00	1.12	0.361	0					0.51
23.417	0.00	1.12	0.360	0					0.51
23.433	0.00	1.11	0.358	0					0.50
23.450	0.00	1.11	0.357	0					0.50
23.467	0.00	1.10	0.355	0					0.50
23.483	0.00	1.10	0.354	0					0.50
23.500	0.00	1.09	0.352	0					0.50
23.517	0.00	1.09	0.351	0					0.49
23.533	0.00	1.08	0.349	0					0.49
23.550	0.00	1.08	0.348	0					0.49
23.567	0.00	1.07	0.346	0					0.49
23.583	0.00	1.07	0.345	0					0.49
23.600	0.00	1.06	0.343	0					0.48
23.617	0.00	1.06	0.342	0					0.48
23.633	0.00	1.06	0.340	0					0.48
23.650	0.00	1.05	0.339	0					0.48

23.667	0.00	1.05	0.338	0					0.48
23.683	0.00	1.04	0.336	0					0.47
23.700	0.00	1.04	0.335	0					0.47
23.717	0.00	1.03	0.333	0					0.47
23.733	0.00	1.03	0.332	0					0.47
23.750	0.00	1.02	0.330	0					0.47
23.767	0.00	1.02	0.329	0					0.46
23.783	0.00	1.02	0.328	0					0.46
23.800	0.00	1.01	0.326	0					0.46
23.817	0.00	1.01	0.325	0					0.46
23.833	0.00	1.00	0.323	0					0.46
23.850	0.00	1.00	0.322	0					0.45
23.867	0.00	0.99	0.321	0					0.45
23.883	0.00	0.99	0.319	0					0.45
23.900	0.00	0.99	0.318	0					0.45
23.917	0.00	0.98	0.317	0					0.45
23.933	0.00	0.98	0.315	0					0.44
23.950	0.00	0.97	0.314	0					0.44
23.967	0.00	0.97	0.313	0					0.44
23.983	0.00	0.96	0.311	0					0.44
24.000	0.00	0.96	0.310	0					0.44
24.017	0.00	0.96	0.309	0					0.43
24.033	0.00	0.95	0.307	0					0.43
24.050	0.00	0.95	0.306	0					0.43
24.067	0.00	0.94	0.305	0					0.43
24.083	0.00	0.94	0.303	0					0.43
24.100	0.00	0.94	0.302	0					0.43
24.117	0.00	0.93	0.301	0					0.42
24.133	0.00	0.93	0.300	0					0.42
24.150	0.00	0.92	0.298	0					0.42
24.167	0.00	0.92	0.297	0					0.42
24.183	0.00	0.92	0.296	0					0.42
24.200	0.00	0.91	0.294	0					0.41
24.217	0.00	0.91	0.293	0					0.41
24.233	0.00	0.90	0.292	0					0.41
24.250	0.00	0.90	0.291	0					0.41
24.267	0.00	0.90	0.290	0					0.41
24.283	0.00	0.89	0.288	0					0.41
24.300	0.00	0.89	0.287	0					0.40
24.317	0.00	0.89	0.286	0					0.40
24.333	0.00	0.88	0.285	0					0.40
24.350	0.00	0.88	0.283	0					0.40
24.367	0.00	0.87	0.282	0					0.40
24.383	0.00	0.87	0.281	0					0.40
24.400	0.00	0.87	0.280	0					0.39
24.417	0.00	0.86	0.279	0					0.39
24.433	0.00	0.86	0.277	0					0.39
24.450	0.00	0.86	0.276	0					0.39
24.467	0.00	0.85	0.275	0					0.39
24.483	0.00	0.85	0.274	0					0.39
24.500	0.00	0.85	0.273	0					0.38
24.517	0.00	0.84	0.272	0					0.38
24.533	0.00	0.84	0.270	0					0.38
24.550	0.00	0.83	0.269	0					0.38
24.567	0.00	0.83	0.268	0					0.38
24.583	0.00	0.83	0.267	0					0.38
24.600	0.00	0.82	0.266	0					0.37
24.617	0.00	0.82	0.265	0					0.37
24.633	0.00	0.82	0.264	0					0.37
24.650	0.00	0.81	0.262	0					0.37
24.667	0.00	0.81	0.261	0					0.37
24.683	0.00	0.81	0.260	0					0.37
24.700	0.00	0.80	0.259	0					0.36
24.717	0.00	0.80	0.258	0					0.36
24.733	0.00	0.80	0.257	0					0.36
24.750	0.00	0.79	0.256	0					0.36
24.767	0.00	0.79	0.255	0					0.36
24.783	0.00	0.79	0.254	0					0.36
24.800	0.00	0.78	0.253	0					0.36
24.817	0.00	0.78	0.251	0					0.35
24.833	0.00	0.78	0.250	0					0.35

24.850	0.00	0.77	0.249	0					0.35
24.867	0.00	0.77	0.248	0					0.35
24.883	0.00	0.77	0.247	0					0.35
24.900	0.00	0.76	0.246	0					0.35
24.917	0.00	0.76	0.245	0					0.35
24.933	0.00	0.76	0.244	0					0.34
24.950	0.00	0.75	0.243	0					0.34
24.967	0.00	0.75	0.242	0					0.34
24.983	0.00	0.75	0.241	0					0.34
25.000	0.00	0.74	0.240	0					0.34
25.017	0.00	0.74	0.239	0					0.34
25.033	0.00	0.74	0.238	0					0.34
25.050	0.00	0.73	0.237	0					0.33
25.067	0.00	0.73	0.236	0					0.33
25.083	0.00	0.73	0.235	0					0.33
25.100	0.00	0.72	0.234	0					0.33
25.117	0.00	0.72	0.233	0					0.33
25.133	0.00	0.72	0.232	0					0.33
25.150	0.00	0.72	0.231	0					0.33
25.167	0.00	0.71	0.230	0					0.32
25.183	0.00	0.71	0.229	0					0.32
25.200	0.00	0.71	0.228	0					0.32
25.217	0.00	0.70	0.227	0					0.32
25.233	0.00	0.70	0.226	0					0.32
25.250	0.00	0.70	0.225	0					0.32
25.267	0.00	0.69	0.224	0					0.32
25.283	0.00	0.69	0.223	0					0.31
25.300	0.00	0.69	0.222	0					0.31
25.317	0.00	0.69	0.221	0					0.31
25.333	0.00	0.68	0.220	0					0.31
25.350	0.00	0.68	0.219	0					0.31
25.367	0.00	0.68	0.218	0					0.31
25.383	0.00	0.67	0.218	0					0.31
25.400	0.00	0.67	0.217	0					0.31
25.417	0.00	0.67	0.216	0					0.30
25.433	0.00	0.67	0.215	0					0.30
25.450	0.00	0.66	0.214	0					0.30
25.467	0.00	0.66	0.213	0					0.30
25.483	0.00	0.66	0.212	0					0.30
25.500	0.00	0.65	0.211	0					0.30
25.517	0.00	0.65	0.210	0					0.30
25.533	0.00	0.65	0.209	0					0.29
25.550	0.00	0.65	0.208	0					0.29
25.567	0.00	0.64	0.208	0					0.29
25.583	0.00	0.64	0.207	0					0.29
25.600	0.00	0.64	0.206	0					0.29
25.617	0.00	0.63	0.205	0					0.29
25.633	0.00	0.63	0.204	0					0.29
25.650	0.00	0.63	0.203	0					0.29
25.667	0.00	0.63	0.202	0					0.28
25.683	0.00	0.62	0.201	0					0.28
25.700	0.00	0.62	0.201	0					0.28
25.717	0.00	0.62	0.200	0					0.28
25.733	0.00	0.62	0.199	0					0.28
25.750	0.00	0.61	0.198	0					0.28
25.767	0.00	0.61	0.197	0					0.28
25.783	0.00	0.61	0.196	0					0.28
25.800	0.00	0.61	0.195	0					0.28
25.817	0.00	0.60	0.195	0					0.27
25.833	0.00	0.60	0.194	0					0.27
25.850	0.00	0.60	0.193	0					0.27
25.867	0.00	0.60	0.192	0					0.27
25.883	0.00	0.59	0.191	0					0.27
25.900	0.00	0.59	0.191	0					0.27
25.917	0.00	0.59	0.190	0					0.27
25.933	0.00	0.59	0.189	0					0.27
25.950	0.00	0.58	0.188	0					0.26
25.967	0.00	0.58	0.187	0					0.26
25.983	0.00	0.58	0.187	0					0.26
26.000	0.00	0.58	0.186	0					0.26
26.017	0.00	0.57	0.185	0					0.26

26.033	0.00	0.57	0.184	0					0.26
26.050	0.00	0.57	0.183	0					0.26
26.067	0.00	0.57	0.183	0					0.26
26.083	0.00	0.56	0.182	0					0.26
26.100	0.00	0.56	0.181	0					0.25
26.117	0.00	0.56	0.180	0					0.25
26.133	0.00	0.56	0.179	0					0.25
26.150	0.00	0.55	0.179	0					0.25
26.167	0.00	0.55	0.178	0					0.25
26.183	0.00	0.55	0.177	0					0.25
26.200	0.00	0.55	0.176	0					0.25
26.217	0.00	0.54	0.176	0					0.25
26.233	0.00	0.54	0.175	0					0.25
26.250	0.00	0.54	0.174	0					0.25
26.267	0.00	0.54	0.173	0					0.24
26.283	0.00	0.54	0.173	0					0.24
26.300	0.00	0.53	0.172	0					0.24
26.317	0.00	0.53	0.171	0					0.24
26.333	0.00	0.53	0.171	0					0.24
26.350	0.00	0.53	0.170	0					0.24
26.367	0.00	0.52	0.169	0					0.24
26.383	0.00	0.52	0.168	0					0.24
26.400	0.00	0.52	0.168	0					0.24
26.417	0.00	0.52	0.167	0					0.24
26.433	0.00	0.52	0.166	0					0.23
26.450	0.00	0.51	0.166	0					0.23
26.467	0.00	0.51	0.165	0					0.23
26.483	0.00	0.51	0.164	0					0.23
26.500	0.00	0.51	0.163	0					0.23
26.517	0.00	0.50	0.163	0					0.23
26.533	0.00	0.50	0.162	0					0.23
26.550	0.00	0.50	0.161	0					0.23
26.567	0.00	0.50	0.161	0					0.23
26.583	0.00	0.50	0.160	0					0.23
26.600	0.00	0.49	0.159	0					0.22
26.617	0.00	0.49	0.159	0					0.22
26.633	0.00	0.49	0.158	0					0.22
26.650	0.00	0.49	0.157	0					0.22
26.667	0.00	0.49	0.157	0					0.22
26.683	0.00	0.48	0.156	0					0.22
26.700	0.00	0.48	0.155	0					0.22
26.717	0.00	0.48	0.155	0					0.22
26.733	0.00	0.48	0.154	0					0.22
26.750	0.00	0.47	0.153	0					0.22
26.767	0.00	0.47	0.153	0					0.21
26.783	0.00	0.47	0.152	0					0.21
26.800	0.00	0.47	0.151	0					0.21
26.817	0.00	0.47	0.151	0					0.21
26.833	0.00	0.46	0.150	0					0.21
26.850	0.00	0.46	0.149	0					0.21
26.867	0.00	0.46	0.149	0					0.21
26.883	0.00	0.46	0.148	0					0.21
26.900	0.00	0.46	0.148	0					0.21
26.917	0.00	0.46	0.147	0					0.21
26.933	0.00	0.45	0.146	0					0.21
26.950	0.00	0.45	0.146	0					0.21
26.967	0.00	0.45	0.145	0					0.20
26.983	0.00	0.45	0.144	0					0.20
27.000	0.00	0.45	0.144	0					0.20
27.017	0.00	0.44	0.143	0					0.20
27.033	0.00	0.44	0.143	0					0.20
27.050	0.00	0.44	0.142	0					0.20
27.067	0.00	0.44	0.141	0					0.20
27.083	0.00	0.44	0.141	0					0.20
27.100	0.00	0.43	0.140	0					0.20
27.117	0.00	0.43	0.140	0					0.20
27.133	0.00	0.43	0.139	0					0.20
27.150	0.00	0.43	0.138	0					0.19
27.167	0.00	0.43	0.138	0					0.19
27.183	0.00	0.43	0.137	0					0.19
27.200	0.00	0.42	0.137	0					0.19

27.217	0.00	0.42	0.136	0					0.19
27.233	0.00	0.42	0.135	0					0.19
27.250	0.00	0.42	0.135	0					0.19
27.267	0.00	0.42	0.134	0					0.19
27.283	0.00	0.41	0.134	0					0.19
27.300	0.00	0.41	0.133	0					0.19
27.317	0.00	0.41	0.133	0					0.19
27.333	0.00	0.41	0.132	0					0.19
27.350	0.00	0.41	0.131	0					0.19
27.367	0.00	0.41	0.131	0					0.18
27.383	0.00	0.40	0.130	0					0.18
27.400	0.00	0.40	0.130	0					0.18
27.417	0.00	0.40	0.129	0					0.18
27.433	0.00	0.40	0.129	0					0.18
27.450	0.00	0.40	0.128	0					0.18
27.467	0.00	0.40	0.128	0					0.18
27.483	0.00	0.39	0.127	0					0.18
27.500	0.00	0.39	0.126	0					0.18
27.517	0.00	0.39	0.126	0					0.18
27.533	0.00	0.39	0.125	0					0.18
27.550	0.00	0.39	0.125	0					0.18
27.567	0.00	0.39	0.124	0					0.18
27.583	0.00	0.38	0.124	0					0.17
27.600	0.00	0.38	0.123	0					0.17
27.617	0.00	0.38	0.123	0					0.17
27.633	0.00	0.38	0.122	0					0.17
27.650	0.00	0.38	0.122	0					0.17
27.667	0.00	0.38	0.121	0					0.17
27.683	0.00	0.37	0.121	0					0.17
27.700	0.00	0.37	0.120	0					0.17
27.717	0.00	0.37	0.120	0					0.17
27.733	0.00	0.37	0.119	0					0.17
27.750	0.00	0.37	0.119	0					0.17
27.767	0.00	0.37	0.118	0					0.17
27.783	0.00	0.36	0.118	0					0.17
27.800	0.00	0.36	0.117	0					0.16
27.817	0.00	0.36	0.117	0					0.16
27.833	0.00	0.36	0.116	0					0.16
27.850	0.00	0.36	0.116	0					0.16
27.867	0.00	0.36	0.115	0					0.16
27.883	0.00	0.36	0.115	0					0.16
27.900	0.00	0.35	0.114	0					0.16
27.917	0.00	0.35	0.114	0					0.16
27.933	0.00	0.35	0.113	0					0.16
27.950	0.00	0.35	0.113	0					0.16
27.967	0.00	0.35	0.112	0					0.16
27.983	0.00	0.35	0.112	0					0.16
28.000	0.00	0.34	0.111	0					0.16
28.017	0.00	0.34	0.111	0					0.16
28.033	0.00	0.34	0.110	0					0.16
28.050	0.00	0.34	0.110	0					0.15
28.067	0.00	0.34	0.109	0					0.15
28.083	0.00	0.34	0.109	0					0.15
28.100	0.00	0.34	0.108	0					0.15
28.117	0.00	0.33	0.108	0					0.15
28.133	0.00	0.33	0.108	0					0.15
28.150	0.00	0.33	0.107	0					0.15
28.167	0.00	0.33	0.107	0					0.15
28.183	0.00	0.33	0.106	0					0.15
28.200	0.00	0.33	0.106	0					0.15
28.217	0.00	0.33	0.105	0					0.15
28.233	0.00	0.32	0.105	0					0.15
28.250	0.00	0.32	0.104	0					0.15
28.267	0.00	0.32	0.104	0					0.15
28.283	0.00	0.32	0.104	0					0.15
28.300	0.00	0.32	0.103	0					0.15
28.317	0.00	0.32	0.103	0					0.14
28.333	0.00	0.32	0.102	0					0.14
28.350	0.00	0.32	0.102	0					0.14
28.367	0.00	0.31	0.101	0					0.14
28.383	0.00	0.31	0.101	0					0.14

28.400	0.00	0.31	0.100	0					0.14
28.417	0.00	0.31	0.100	0					0.14
28.433	0.00	0.31	0.100	0					0.14
28.450	0.00	0.31	0.099	0					0.14
28.467	0.00	0.31	0.099	0					0.14
28.483	0.00	0.30	0.098	0					0.14
28.500	0.00	0.30	0.098	0					0.14
28.517	0.00	0.30	0.097	0					0.14
28.533	0.00	0.30	0.097	0					0.14
28.550	0.00	0.30	0.097	0					0.14
28.567	0.00	0.30	0.096	0					0.14
28.583	0.00	0.30	0.096	0					0.13
28.600	0.00	0.30	0.095	0					0.13
28.617	0.00	0.29	0.095	0					0.13
28.633	0.00	0.29	0.095	0					0.13
28.650	0.00	0.29	0.094	0					0.13
28.667	0.00	0.29	0.094	0					0.13
28.683	0.00	0.29	0.093	0					0.13
28.700	0.00	0.29	0.093	0					0.13
28.717	0.00	0.29	0.093	0					0.13
28.733	0.00	0.29	0.092	0					0.13
28.750	0.00	0.28	0.092	0					0.13
28.767	0.00	0.28	0.091	0					0.13
28.783	0.00	0.28	0.091	0					0.13
28.800	0.00	0.28	0.091	0					0.13
28.817	0.00	0.28	0.090	0					0.13
28.833	0.00	0.28	0.090	0					0.13
28.850	0.00	0.28	0.090	0					0.13
28.867	0.00	0.28	0.089	0					0.13
28.883	0.00	0.28	0.089	0					0.13
28.900	0.00	0.27	0.088	0					0.12
28.917	0.00	0.27	0.088	0					0.12
28.933	0.00	0.27	0.088	0					0.12
28.950	0.00	0.27	0.087	0					0.12
28.967	0.00	0.27	0.087	0					0.12
28.983	0.00	0.27	0.087	0					0.12
29.000	0.00	0.27	0.086	0					0.12
29.017	0.00	0.27	0.086	0					0.12
29.033	0.00	0.26	0.085	0					0.12
29.050	0.00	0.26	0.085	0					0.12
29.067	0.00	0.26	0.085	0					0.12
29.083	0.00	0.26	0.084	0					0.12
29.100	0.00	0.26	0.084	0					0.12
29.117	0.00	0.26	0.084	0					0.12
29.133	0.00	0.26	0.083	0					0.12
29.150	0.00	0.26	0.083	0					0.12
29.167	0.00	0.26	0.083	0					0.12
29.183	0.00	0.25	0.082	0					0.12
29.200	0.00	0.25	0.082	0					0.12
29.217	0.00	0.25	0.081	0					0.11
29.233	0.00	0.25	0.081	0					0.11
29.250	0.00	0.25	0.081	0					0.11
29.267	0.00	0.25	0.080	0					0.11
29.283	0.00	0.25	0.080	0					0.11
29.300	0.00	0.25	0.080	0					0.11
29.317	0.00	0.25	0.079	0					0.11
29.333	0.00	0.25	0.079	0					0.11
29.350	0.00	0.24	0.079	0					0.11
29.367	0.00	0.24	0.078	0					0.11
29.383	0.00	0.24	0.078	0					0.11
29.400	0.00	0.24	0.078	0					0.11
29.417	0.00	0.24	0.077	0					0.11
29.433	0.00	0.24	0.077	0					0.11
29.450	0.00	0.24	0.077	0					0.11
29.467	0.00	0.24	0.076	0					0.11
29.483	0.00	0.24	0.076	0					0.11
29.500	0.00	0.23	0.076	0					0.11
29.517	0.00	0.23	0.075	0					0.11
29.533	0.00	0.23	0.075	0					0.11
29.550	0.00	0.23	0.075	0					0.11
29.567	0.00	0.23	0.075	0					0.10

29.583	0.00	0.23	0.074	0					0.10
29.600	0.00	0.23	0.074	0					0.10
29.617	0.00	0.23	0.074	0					0.10
29.633	0.00	0.23	0.073	0					0.10
29.650	0.00	0.23	0.073	0					0.10
29.667	0.00	0.23	0.073	0					0.10
29.683	0.00	0.22	0.072	0					0.10
29.700	0.00	0.22	0.072	0					0.10
29.717	0.00	0.22	0.072	0					0.10
29.733	0.00	0.22	0.071	0					0.10
29.750	0.00	0.22	0.071	0					0.10
29.767	0.00	0.22	0.071	0					0.10
29.783	0.00	0.22	0.070	0					0.10
29.800	0.00	0.22	0.070	0					0.10
29.817	0.00	0.22	0.070	0					0.10
29.833	0.00	0.22	0.070	0					0.10
29.850	0.00	0.21	0.069	0					0.10
29.867	0.00	0.21	0.069	0					0.10
29.883	0.00	0.21	0.069	0					0.10
29.900	0.00	0.21	0.068	0					0.10
29.917	0.00	0.21	0.068	0					0.10
29.933	0.00	0.21	0.068	0					0.10
29.950	0.00	0.21	0.068	0					0.10
29.967	0.00	0.21	0.067	0					0.09
29.983	0.00	0.21	0.067	0					0.09
30.000	0.00	0.21	0.067	0					0.09
30.017	0.00	0.21	0.066	0					0.09
30.033	0.00	0.20	0.066	0					0.09
30.050	0.00	0.20	0.066	0					0.09
30.067	0.00	0.20	0.066	0					0.09
30.083	0.00	0.20	0.065	0					0.09
30.100	0.00	0.20	0.065	0					0.09
30.117	0.00	0.20	0.065	0					0.09
30.133	0.00	0.20	0.064	0					0.09
30.150	0.00	0.20	0.064	0					0.09
30.167	0.00	0.20	0.064	0					0.09
30.183	0.00	0.20	0.064	0					0.09
30.200	0.00	0.20	0.063	0					0.09
30.217	0.00	0.20	0.063	0					0.09
30.233	0.00	0.19	0.063	0					0.09
30.250	0.00	0.19	0.063	0					0.09
30.267	0.00	0.19	0.062	0					0.09
30.283	0.00	0.19	0.062	0					0.09
30.300	0.00	0.19	0.062	0					0.09
30.317	0.00	0.19	0.061	0					0.09
30.333	0.00	0.19	0.061	0					0.09
30.350	0.00	0.19	0.061	0					0.09
30.367	0.00	0.19	0.061	0					0.09
30.383	0.00	0.19	0.060	0					0.09
30.400	0.00	0.19	0.060	0					0.08
30.417	0.00	0.19	0.060	0					0.08
30.433	0.00	0.18	0.060	0					0.08
30.450	0.00	0.18	0.059	0					0.08
30.467	0.00	0.18	0.059	0					0.08
30.483	0.00	0.18	0.059	0					0.08
30.500	0.00	0.18	0.059	0					0.08
30.517	0.00	0.18	0.058	0					0.08
30.533	0.00	0.18	0.058	0					0.08
30.550	0.00	0.18	0.058	0					0.08
30.567	0.00	0.18	0.058	0					0.08
30.583	0.00	0.18	0.057	0					0.08
30.600	0.00	0.18	0.057	0					0.08
30.617	0.00	0.18	0.057	0					0.08
30.633	0.00	0.18	0.057	0					0.08
30.650	0.00	0.17	0.056	0					0.08
30.667	0.00	0.17	0.056	0					0.08
30.683	0.00	0.17	0.056	0					0.08
30.700	0.00	0.17	0.056	0					0.08
30.717	0.00	0.17	0.056	0					0.08
30.733	0.00	0.17	0.055	0					0.08
30.750	0.00	0.17	0.055	0					0.08

31.950	0.00	0.13	0.040	0					0.06
31.967	0.00	0.12	0.040	0					0.06
31.983	0.00	0.12	0.040	0					0.06
32.000	0.00	0.12	0.040	0					0.06
32.017	0.00	0.12	0.040	0					0.06
32.033	0.00	0.12	0.040	0					0.06
32.050	0.00	0.12	0.039	0					0.06
32.067	0.00	0.12	0.039	0					0.06
32.083	0.00	0.12	0.039	0					0.06
32.100	0.00	0.12	0.039	0					0.05
32.117	0.00	0.12	0.039	0					0.05
32.133	0.00	0.12	0.039	0					0.05
32.150	0.00	0.12	0.038	0					0.05
32.167	0.00	0.12	0.038	0					0.05
32.183	0.00	0.12	0.038	0					0.05
32.200	0.00	0.12	0.038	0					0.05
32.217	0.00	0.12	0.038	0					0.05
32.233	0.00	0.12	0.038	0					0.05
32.250	0.00	0.12	0.037	0					0.05
32.267	0.00	0.12	0.037	0					0.05
32.283	0.00	0.12	0.037	0					0.05
32.300	0.00	0.11	0.037	0					0.05
32.317	0.00	0.11	0.037	0					0.05
32.333	0.00	0.11	0.037	0					0.05
32.350	0.00	0.11	0.037	0					0.05
32.367	0.00	0.11	0.036	0					0.05
32.383	0.00	0.11	0.036	0					0.05
32.400	0.00	0.11	0.036	0					0.05
32.417	0.00	0.11	0.036	0					0.05
32.433	0.00	0.11	0.036	0					0.05
32.450	0.00	0.11	0.036	0					0.05
32.467	0.00	0.11	0.035	0					0.05
32.483	0.00	0.11	0.035	0					0.05
32.500	0.00	0.11	0.035	0					0.05
32.517	0.00	0.11	0.035	0					0.05
32.533	0.00	0.11	0.035	0					0.05
32.550	0.00	0.11	0.035	0					0.05
32.567	0.00	0.11	0.035	0					0.05
32.583	0.00	0.11	0.034	0					0.05
32.600	0.00	0.11	0.034	0					0.05
32.617	0.00	0.11	0.034	0					0.05
32.633	0.00	0.11	0.034	0					0.05
32.650	0.00	0.10	0.034	0					0.05
32.667	0.00	0.10	0.034	0					0.05
32.683	0.00	0.10	0.034	0					0.05
32.700	0.00	0.10	0.033	0					0.05
32.717	0.00	0.10	0.033	0					0.05
32.733	0.00	0.10	0.033	0					0.05
32.750	0.00	0.10	0.033	0					0.05
32.767	0.00	0.10	0.033	0					0.05
32.783	0.00	0.10	0.033	0					0.05
32.800	0.00	0.10	0.033	0					0.05
32.817	0.00	0.10	0.032	0					0.05
32.833	0.00	0.10	0.032	0					0.05
32.850	0.00	0.10	0.032	0					0.05
32.867	0.00	0.10	0.032	0					0.05
32.883	0.00	0.10	0.032	0					0.04
32.900	0.00	0.10	0.032	0					0.04
32.917	0.00	0.10	0.032	0					0.04
32.933	0.00	0.10	0.031	0					0.04
32.950	0.00	0.10	0.031	0					0.04
32.967	0.00	0.10	0.031	0					0.04
32.983	0.00	0.10	0.031	0					0.04
33.000	0.00	0.10	0.031	0					0.04
33.017	0.00	0.10	0.031	0					0.04
33.033	0.00	0.10	0.031	0					0.04
33.050	0.00	0.09	0.031	0					0.04
33.067	0.00	0.09	0.030	0					0.04
33.083	0.00	0.09	0.030	0					0.04
33.100	0.00	0.09	0.030	0					0.04
33.117	0.00	0.09	0.030	0					0.04

47.333	0.00	0.00	0.001	O					0.00
47.350	0.00	0.00	0.001	O					0.00
47.367	0.00	0.00	0.001	O					0.00
47.383	0.00	0.00	0.001	O					0.00
47.400	0.00	0.00	0.001	O					0.00
47.417	0.00	0.00	0.001	O					0.00
47.433	0.00	0.00	0.001	O					0.00
47.450	0.00	0.00	0.001	O					0.00
47.467	0.00	0.00	0.001	O					0.00
47.483	0.00	0.00	0.001	O					0.00
47.500	0.00	0.00	0.001	O					0.00
47.517	0.00	0.00	0.001	O					0.00
47.533	0.00	0.00	0.001	O					0.00
47.550	0.00	0.00	0.001	O					0.00
47.567	0.00	0.00	0.001	O					0.00
47.583	0.00	0.00	0.001	O					0.00
47.600	0.00	0.00	0.001	O					0.00
47.617	0.00	0.00	0.001	O					0.00
47.633	0.00	0.00	0.001	O					0.00
47.650	0.00	0.00	0.001	O					0.00
47.667	0.00	0.00	0.001	O					0.00
47.683	0.00	0.00	0.001	O					0.00
47.700	0.00	0.00	0.001	O					0.00
47.717	0.00	0.00	0.001	O					0.00
47.733	0.00	0.00	0.001	O					0.00
47.750	0.00	0.00	0.001	O					0.00

*****HYDROGRAPH DATA*****

Number of intervals = 2865
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 37.945 (CFS)
Total volume = 10.568 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
Process from Point/Station 0.000 to Point/Station 0.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

Current stream hydrograph saved in file 100160rteundbas2.rte
*****HYDROGRAPH DATA*****

Number of intervals = 0
Time interval = 0.0 (Min.)
Maximum/Peak flow rate = 0.000 (CFS)
Total volume = 0.000 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/16/24

 Majestic Otay
 Otay Mesa, San Diego County
 Proposed Condition Basin
 100160rtebas6

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rteundbas2bas6.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 2867
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 55.840 (CFS)
 Total volume = 12.401 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 0.000 to Point/Station 0.000
 **** RETARDING BASIN ROUTING ****

 User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 2867
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 4.50(Ft.)

Initial basin depth = 4.50 (Ft.)
 Initial basin storage = 2.09 (Ac.Ft)
 Initial basin outflow = 0.74 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.350	0.590	0.350	0.350
1.500	0.520	0.620	0.520	0.520
2.500	0.870	0.660	0.870	0.870
3.500	1.220	0.700	1.220	1.220
5.000	2.520	0.760	2.519	2.521
5.500	2.980	2.410	2.978	2.982
6.500	3.980	8.000	3.974	3.986
7.500	5.080	15.380	5.069	5.091
8.500	6.290	25.660	6.272	6.308
9.500	7.600	66.870	7.554	7.646

 Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	14.0	27.92	41.88	55.84	Depth (Ft.)
0.017	0.22	0.74	2.085	O					4.50
0.033	0.45	0.74	2.085	O					4.50
0.050	0.68	0.74	2.084	O					4.50
0.067	0.91	0.74	2.085	O					4.50
0.083	1.15	0.74	2.085	O					4.50
0.100	1.39	0.74	2.086	O					4.50
0.117	1.42	0.74	2.087	O					4.50
0.133	1.45	0.74	2.088	O					4.50
0.150	1.48	0.74	2.089	O					4.50
0.167	1.51	0.74	2.090	O					4.50
0.183	1.55	0.74	2.091	O					4.50
0.200	1.58	0.74	2.092	O					4.51
0.217	1.62	0.74	2.093	O					4.51
0.233	1.65	0.74	2.094	O					4.51
0.250	1.69	0.74	2.096	O					4.51
0.267	1.73	0.74	2.097	O					4.51
0.283	1.76	0.74	2.098	OI					4.51
0.300	1.80	0.74	2.100	OI					4.52
0.317	1.83	0.74	2.101	OI					4.52
0.333	1.87	0.74	2.103	OI					4.52
0.350	1.90	0.74	2.104	OI					4.52
0.367	1.93	0.74	2.106	OI					4.52
0.383	1.97	0.74	2.108	OI					4.52
0.400	2.00	0.74	2.109	OI					4.53
0.417	2.04	0.74	2.111	OI					4.53
0.433	2.07	0.74	2.113	OI					4.53
0.450	2.11	0.74	2.115	OI					4.53
0.467	2.15	0.74	2.117	OI					4.53
0.483	2.18	0.74	2.119	OI					4.54
0.500	2.22	0.74	2.121	OI					4.54
0.517	2.25	0.74	2.123	OI					4.54
0.533	2.29	0.74	2.125	OI					4.54
0.550	2.32	0.74	2.127	OI					4.55
0.567	2.35	0.74	2.129	OI					4.55
0.583	2.39	0.74	2.131	OI					4.55
0.600	2.42	0.74	2.134	OI					4.55
0.617	2.46	0.74	2.136	OI					4.56
0.633	2.49	0.74	2.138	OI					4.56
0.650	2.53	0.74	2.141	OI					4.56
0.667	2.57	0.74	2.143	OI					4.57
0.683	2.60	0.74	2.146	OI					4.57
0.700	2.64	0.74	2.148	OI					4.57
0.717	2.68	0.74	2.151	OI					4.57
0.733	2.71	0.74	2.154	OI					4.58
0.750	2.74	0.74	2.156	OI					4.58
0.767	2.78	0.74	2.159	OI					4.58
0.783	2.81	0.74	2.162	OI					4.59
0.800	2.84	0.74	2.165	OI					4.59
0.817	2.88	0.74	2.168	OI					4.59
0.833	2.92	0.74	2.171	OI					4.60
0.850	2.95	0.74	2.174	OI					4.60
0.867	2.99	0.74	2.177	OI					4.60
0.883	3.03	0.74	2.180	OI					4.61
0.900	3.06	0.74	2.183	OI					4.61
0.917	3.10	0.74	2.186	OI					4.62
0.933	3.13	0.74	2.190	OI					4.62
0.950	3.17	0.74	2.193	OI					4.62
0.967	3.20	0.75	2.196	OI					4.63
0.983	3.23	0.75	2.200	OI					4.63
1.000	3.27	0.75	2.203	OI					4.63
1.017	3.31	0.75	2.207	OI					4.64
1.033	3.34	0.75	2.210	OI					4.64
1.050	3.38	0.75	2.214	OI					4.65
1.067	3.42	0.75	2.218	OI					4.65
1.083	3.46	0.75	2.221	OI					4.66
1.100	3.49	0.75	2.225	O I					4.66
1.117	3.53	0.75	2.229	O I					4.66
1.133	3.56	0.75	2.233	O I					4.67

1.150	3.60	0.75	2.237	O I					4.67
1.167	3.63	0.75	2.241	O I					4.68
1.183	3.67	0.75	2.245	O I					4.68
1.200	3.70	0.75	2.249	O I					4.69
1.217	3.74	0.75	2.253	O I					4.69
1.233	3.78	0.75	2.257	O I					4.70
1.250	3.82	0.75	2.261	O I					4.70
1.267	3.86	0.75	2.265	O I					4.71
1.283	3.89	0.75	2.270	O I					4.71
1.300	3.91	0.75	2.274	O I					4.72
1.317	3.92	0.75	2.278	O I					4.72
1.333	3.93	0.75	2.283	O I					4.73
1.350	3.95	0.75	2.287	O I					4.73
1.367	3.96	0.75	2.291	O I					4.74
1.383	3.98	0.75	2.296	O I					4.74
1.400	3.99	0.75	2.300	O I					4.75
1.417	4.01	0.75	2.305	O I					4.75
1.433	4.03	0.75	2.309	O I					4.76
1.450	4.05	0.75	2.314	O I					4.76
1.467	4.07	0.75	2.318	O I					4.77
1.483	4.09	0.75	2.323	O I					4.77
1.500	4.10	0.75	2.328	O I					4.78
1.517	4.12	0.75	2.332	O I					4.78
1.533	4.13	0.75	2.337	O I					4.79
1.550	4.15	0.75	2.342	O I					4.79
1.567	4.16	0.75	2.346	O I					4.80
1.583	4.18	0.75	2.351	O I					4.80
1.600	4.19	0.75	2.356	O I					4.81
1.617	4.21	0.75	2.360	O I					4.82
1.633	4.24	0.75	2.365	O I					4.82
1.650	4.26	0.75	2.370	O I					4.83
1.667	4.28	0.75	2.375	O I					4.83
1.683	4.30	0.75	2.380	O I					4.84
1.700	4.32	0.75	2.385	O I					4.84
1.717	4.34	0.75	2.390	O I					4.85
1.733	4.35	0.75	2.394	O I					4.86
1.750	4.37	0.75	2.399	O I					4.86
1.767	4.38	0.75	2.404	O I					4.87
1.783	4.40	0.75	2.409	O I					4.87
1.800	4.42	0.76	2.414	O I					4.88
1.817	4.44	0.76	2.420	O I					4.88
1.833	4.46	0.76	2.425	O I					4.89
1.850	4.49	0.76	2.430	O I					4.90
1.867	4.51	0.76	2.435	O I					4.90
1.883	4.53	0.76	2.440	O I					4.91
1.900	4.55	0.76	2.445	O I					4.91
1.917	4.57	0.76	2.451	O I					4.92
1.933	4.59	0.76	2.456	O I					4.93
1.950	4.61	0.76	2.461	O I					4.93
1.967	4.63	0.76	2.466	O I					4.94
1.983	4.64	0.76	2.472	O I					4.94
2.000	4.66	0.76	2.477	O I					4.95
2.017	4.69	0.76	2.483	O I					4.96
2.033	4.71	0.76	2.488	O I					4.96
2.050	4.74	0.76	2.493	O I					4.97
2.067	4.76	0.76	2.499	O I					4.98
2.083	4.79	0.76	2.504	O I					4.98
2.100	4.82	0.76	2.510	O I					4.99
2.117	4.84	0.76	2.516	O I					4.99
2.133	4.86	0.76	2.521	O I					5.00
2.150	4.88	0.78	2.527	O I					5.01
2.167	4.89	0.80	2.533	O I					5.01
2.183	4.91	0.83	2.538	O I					5.02
2.200	4.93	0.85	2.544	O I					5.03
2.217	4.96	0.87	2.549	O I					5.03
2.233	4.99	0.89	2.555	O I					5.04
2.250	5.02	0.91	2.561	O I					5.04
2.267	5.05	0.93	2.566	O I					5.05
2.283	5.08	0.95	2.572	O I					5.06
2.300	5.11	0.97	2.578	O I					5.06
2.317	5.13	0.99	2.584	O I					5.07

2.333	5.16	1.01	2.589	O I					5.08
2.350	5.18	1.03	2.595	O I					5.08
2.367	5.20	1.05	2.601	O I					5.09
2.383	5.22	1.07	2.606	O I					5.09
2.400	5.24	1.09	2.612	O I					5.10
2.417	5.28	1.11	2.618	O I					5.11
2.433	5.31	1.13	2.624	O I					5.11
2.450	5.34	1.15	2.629	O I					5.12
2.467	5.38	1.17	2.635	O I					5.13
2.483	5.41	1.19	2.641	O I					5.13
2.500	5.45	1.21	2.647	O I					5.14
2.517	5.47	1.24	2.653	O I					5.14
2.533	5.50	1.26	2.658	O I					5.15
2.550	5.52	1.28	2.664	O I					5.16
2.567	5.55	1.30	2.670	O I					5.16
2.583	5.57	1.32	2.676	O I					5.17
2.600	5.60	1.34	2.682	O I					5.18
2.617	5.64	1.36	2.688	O I					5.18
2.633	5.68	1.38	2.694	O I					5.19
2.650	5.72	1.40	2.700	O I					5.20
2.667	5.76	1.43	2.706	O I					5.20
2.683	5.80	1.45	2.711	O I					5.21
2.700	5.84	1.47	2.718	O I					5.21
2.717	5.87	1.49	2.724	O I					5.22
2.733	5.90	1.51	2.730	O I					5.23
2.750	5.93	1.53	2.736	O I					5.23
2.767	5.96	1.56	2.742	O I					5.24
2.783	5.99	1.58	2.748	O I					5.25
2.800	6.02	1.60	2.754	O I					5.25
2.817	6.07	1.62	2.760	O I					5.26
2.833	6.12	1.64	2.766	O I					5.27
2.850	6.17	1.66	2.772	O I					5.27
2.867	6.22	1.69	2.779	O I					5.28
2.883	6.27	1.71	2.785	O I					5.29
2.900	6.32	1.73	2.791	O I					5.29
2.917	6.35	1.75	2.797	O I					5.30
2.933	6.39	1.78	2.804	O I					5.31
2.950	6.42	1.80	2.810	O I					5.32
2.967	6.46	1.82	2.816	O I					5.32
2.983	6.49	1.85	2.823	O I					5.33
3.000	6.52	1.87	2.829	O I					5.34
3.017	6.58	1.89	2.836	O I					5.34
3.033	6.64	1.92	2.842	O I					5.35
3.050	6.70	1.94	2.849	O I					5.36
3.067	6.76	1.96	2.855	O I					5.36
3.083	6.82	1.99	2.862	O I					5.37
3.100	6.89	2.01	2.869	O I					5.38
3.117	6.93	2.03	2.875	O I					5.39
3.133	6.97	2.06	2.882	O I					5.39
3.150	7.01	2.08	2.889	O I					5.40
3.167	7.06	2.11	2.896	O I					5.41
3.183	7.10	2.13	2.903	O I					5.42
3.200	7.14	2.16	2.909	O I					5.42
3.217	7.22	2.18	2.916	O I					5.43
3.233	7.31	2.21	2.923	O I					5.44
3.250	7.39	2.23	2.930	O I					5.45
3.267	7.47	2.26	2.937	O I					5.45
3.283	7.55	2.28	2.945	O I					5.46
3.300	7.63	2.31	2.952	O I					5.47
3.317	7.69	2.34	2.959	O I					5.48
3.333	7.75	2.36	2.967	O I					5.49
3.350	7.81	2.39	2.974	O I					5.49
3.367	7.87	2.42	2.982	O I					5.50
3.383	7.93	2.46	2.989	O I					5.51
3.400	7.99	2.50	2.997	O I					5.52
3.417	8.11	2.55	3.004	O I					5.52
3.433	8.23	2.59	3.012	O I					5.53
3.450	8.36	2.63	3.020	O I					5.54
3.467	8.48	2.68	3.028	O I					5.55
3.483	8.60	2.72	3.036	O I					5.56
3.500	8.72	2.77	3.044	O I					5.56

3.517	8.81	2.81	3.052	O	I						5.57
3.533	8.90	2.86	3.061	O	I						5.58
3.550	8.99	2.91	3.069	O	I						5.59
3.567	9.09	2.95	3.077	O	I						5.60
3.583	9.18	3.00	3.086	O	I						5.61
3.600	9.27	3.05	3.094	O	I						5.61
3.617	9.49	3.10	3.103	O	I						5.62
3.633	9.71	3.15	3.112	O	I						5.63
3.650	9.92	3.20	3.121	O	I						5.64
3.667	10.14	3.25	3.130	O	I						5.65
3.683	10.36	3.30	3.140	O	I						5.66
3.700	10.58	3.36	3.150	O	I						5.67
3.717	10.76	3.42	3.160	O	I						5.68
3.733	10.93	3.47	3.170	O	I						5.69
3.750	11.10	3.53	3.180	O	I						5.70
3.767	11.27	3.59	3.191	O	I						5.71
3.783	11.45	3.65	3.202	O	I						5.72
3.800	11.62	3.71	3.212	O	I						5.73
3.817	12.20	3.77	3.224	O	I						5.74
3.833	12.79	3.84	3.236	O	I						5.76
3.850	13.38	3.91	3.248	O	I						5.77
3.867	13.97	3.99	3.262	O	I						5.78
3.883	14.56	4.06	3.276	O	I						5.80
3.900	15.16	4.15	3.291	O	I						5.81
3.917	15.91	4.23	3.306	O	I						5.83
3.933	16.66	4.33	3.323	O	I						5.84
3.950	17.42	4.42	3.340	O	I						5.86
3.967	18.18	4.53	3.359	O	I						5.88
3.983	18.94	4.63	3.378	O	I						5.90
4.000	19.70	4.75	3.398	O	I						5.92
4.017	25.27	4.88	3.422	O	I		I				5.94
4.033	30.89	5.06	3.454	O	I		I				5.97
4.050	36.86	5.28	3.494	O	I		I				6.01
4.067	43.06	5.55	3.541	O	I		I				6.06
4.083	49.38	5.86	3.597	O	I		I		I		6.12
4.100	55.84	6.22	3.661	O	I		I		I		6.18
4.117	50.47	6.58	3.726	O	I		I		I		6.25
4.133	46.16	6.90	3.783	O	I		I		I		6.30
4.150	42.46	7.19	3.834	O	I		I		I		6.35
4.167	39.56	7.45	3.881	O	I		I		I		6.40
4.183	37.35	7.68	3.923	O	I		I		I		6.44
4.200	34.69	7.90	3.962	O	I		I		I		6.48
4.217	38.34	8.14	4.001	O	I		I		I		6.52
4.233	41.14	8.43	4.045	O	I		I		I		6.56
4.250	42.99	8.74	4.091	O	I		I		I		6.60
4.267	43.90	9.06	4.138	O	I		I		I		6.64
4.283	43.95	9.38	4.186	O	I		I		I		6.69
4.300	43.54	9.70	4.233	O	I		I		I		6.73
4.317	43.30	10.01	4.280	O	I		I		I		6.77
4.333	43.00	10.31	4.325	O	I		I		I		6.81
4.350	42.65	10.61	4.370	O	I		I		I		6.85
4.367	42.26	10.91	4.413	O	I		I		I		6.89
4.383	41.81	11.19	4.456	O	I		I		I		6.93
4.400	41.33	11.47	4.498	O	I		I		I		6.97
4.417	40.88	11.75	4.538	O	I		I		I		7.01
4.433	40.41	12.01	4.578	O	I		I		I		7.04
4.450	39.93	12.27	4.616	O	I		I		I		7.08
4.467	39.43	12.52	4.654	O	I		I		I		7.11
4.483	38.92	12.77	4.691	O	I		I		I		7.15
4.500	38.41	13.01	4.726	O	I		I		I		7.18
4.517	37.92	13.24	4.761	O	I		I		I		7.21
4.533	37.42	13.46	4.794	O	I		I		I		7.24
4.550	36.92	13.68	4.827	O	I		I		I		7.27
4.567	36.41	13.89	4.858	O	I		I		I		7.30
4.583	35.90	14.10	4.889	O	I		I		I		7.33
4.600	35.39	14.29	4.918	O	I		I		I		7.35
4.617	34.90	14.49	4.947	O	I		I		I		7.38
4.633	34.41	14.67	4.974	O	I		I		I		7.40
4.650	33.92	14.85	5.001	O	I		I		I		7.43
4.667	33.44	15.02	5.027	O	I		I		I		7.45
4.683	32.95	15.19	5.052	O	I		I		I		7.47

4.700	32.47	15.35	5.076		O		I			7.50
4.717	32.01	15.54	5.099		O		I			7.52
4.733	31.55	15.73	5.121		IO		I			7.53
4.750	31.09	15.91	5.143		IO		I			7.55
4.767	30.64	16.09	5.163		IO		I			7.57
4.783	30.19	16.25	5.183		IO		I			7.58
4.800	29.75	16.41	5.201		IO		I			7.60
4.817	29.32	16.56	5.219		IO		I			7.62
4.833	28.91	16.71	5.237		IO		I			7.63
4.850	28.57	16.85	5.253		IO		I			7.64
4.867	28.26	16.99	5.269		IO		I			7.66
4.883	27.95	17.11	5.284		IO		I			7.67
4.900	27.65	17.24	5.299		IO		I			7.68
4.917	27.35	17.36	5.313		IO		I			7.69
4.933	27.05	17.47	5.326		IO		I			7.70
4.950	26.76	17.58	5.339		IO		I			7.71
4.967	26.47	17.69	5.352		IO		I			7.72
4.983	26.18	17.79	5.363		IO		I			7.73
5.000	25.89	17.88	5.375		IO		I			7.74
5.017	25.61	17.98	5.385		IO		I			7.75
5.033	25.34	18.06	5.396		IO		I			7.76
5.050	25.06	18.15	5.406		IO		I			7.77
5.067	24.79	18.22	5.415		IO		I			7.78
5.083	24.52	18.30	5.424		IO		I			7.78
5.100	24.25	18.37	5.432		IO		I			7.79
5.117	23.99	18.44	5.440		IO		I			7.80
5.133	23.73	18.50	5.447		IO		I			7.80
5.150	23.48	18.56	5.454		IO		I			7.81
5.167	23.22	18.62	5.461		IO		I			7.81
5.183	22.97	18.67	5.467		IO		I			7.82
5.200	22.72	18.72	5.473		IO		I			7.82
5.217	22.48	18.76	5.478		IO		I			7.83
5.233	22.24	18.80	5.483		IO		I			7.83
5.250	22.00	18.84	5.487		IO		I			7.84
5.267	21.77	18.88	5.492		IO		I			7.84
5.283	21.54	18.91	5.495		IO		I			7.84
5.300	21.31	18.94	5.499		IO		I			7.85
5.317	21.09	18.96	5.502		IO		I			7.85
5.333	20.86	18.99	5.505		IO		I			7.85
5.350	20.64	19.01	5.507		IO		I			7.85
5.367	20.43	19.03	5.509		IO		I			7.85
5.383	20.21	19.04	5.511		IO		I			7.86
5.400	20.00	19.05	5.512		IO		I			7.86
5.417	19.80	19.06	5.514		IO		I			7.86
5.433	19.59	19.07	5.514		IO		I			7.86
5.450	19.39	19.08	5.515		IO		I			7.86
5.467	19.19	19.08	5.515		IO		I			7.86
5.483	19.00	19.08	5.515		IO		I			7.86
5.500	18.80	19.08	5.515		IO		I			7.86
5.517	18.61	19.07	5.515		IO		I			7.86
5.533	18.42	19.07	5.514		IO		I			7.86
5.550	18.24	19.06	5.513		IO		I			7.86
5.567	18.06	19.05	5.512		IO		I			7.86
5.583	17.88	19.03	5.510		IO		I			7.86
5.600	17.70	19.02	5.508		IO		I			7.85
5.617	17.56	19.00	5.507		IO		I			7.85
5.633	17.46	18.99	5.504		IO		I			7.85
5.650	17.36	18.97	5.502		IO		I			7.85
5.667	17.26	18.95	5.500		IO		I			7.85
5.683	17.17	18.93	5.498		IO		I			7.85
5.700	17.07	18.91	5.495		IO		I			7.84
5.717	16.98	18.89	5.493		IO		I			7.84
5.733	16.88	18.86	5.490		IO		I			7.84
5.750	16.79	18.84	5.487		IO		I			7.84
5.767	16.70	18.81	5.484		IO		I			7.83
5.783	16.60	18.79	5.481		IO		I			7.83
5.800	16.51	18.76	5.478		IO		I			7.83
5.817	16.42	18.74	5.475		IO		I			7.83
5.833	16.33	18.71	5.472		IO		I			7.82
5.850	16.24	18.68	5.469		IO		I			7.82
5.867	16.15	18.65	5.465		IO		I			7.82

5.883	16.06	18.62	5.462		IO				7.82
5.900	15.97	18.59	5.458		IO				7.81
5.917	15.88	18.56	5.454		IO				7.81
5.933	15.79	18.53	5.451		IO				7.81
5.950	15.71	18.50	5.447		IO				7.80
5.967	15.62	18.46	5.443		I O				7.80
5.983	15.53	18.43	5.439		I O				7.80
6.000	15.45	18.40	5.435		I O				7.79
6.017	15.36	18.36	5.431		I O				7.79
6.033	15.28	18.33	5.427		I O				7.79
6.050	15.19	18.29	5.423		I O				7.78
6.067	15.11	18.25	5.418		I O				7.78
6.083	15.02	18.22	5.414		I O				7.78
6.100	14.94	18.18	5.409		I O				7.77
6.117	13.54	18.13	5.404		I O				7.77
6.133	13.46	18.08	5.398		I O				7.76
6.150	13.38	18.03	5.391		I O				7.76
6.167	13.26	17.97	5.385		I O				7.75
6.183	13.10	17.91	5.378		I O				7.75
6.200	12.94	17.86	5.372		I O				7.74
6.217	12.78	17.80	5.365		I O				7.74
6.233	12.62	17.74	5.358		I O				7.73
6.250	12.46	17.68	5.351		I O				7.72
6.267	12.31	17.62	5.343		I O				7.72
6.283	12.16	17.56	5.336		I O				7.71
6.300	12.01	17.49	5.329		I O				7.71
6.317	11.86	17.43	5.321		I O				7.70
6.333	11.71	17.36	5.313		I O				7.69
6.350	11.56	17.29	5.305		I O				7.69
6.367	11.42	17.23	5.297		I O				7.68
6.383	11.28	17.16	5.289		I O				7.67
6.400	11.14	17.09	5.281		I O				7.67
6.417	11.00	17.02	5.273		I O				7.66
6.433	10.87	16.95	5.265		I O				7.65
6.450	10.73	16.88	5.256		I O				7.65
6.467	10.60	16.80	5.248		I O				7.64
6.483	10.47	16.73	5.239		I O				7.63
6.500	10.34	16.66	5.230		I O				7.62
6.517	10.21	16.58	5.222		I O				7.62
6.533	10.08	16.51	5.213		I O				7.61
6.550	9.96	16.43	5.204		I O				7.60
6.567	9.83	16.36	5.195		I O				7.60
6.583	9.71	16.28	5.186		I O				7.59
6.600	9.59	16.20	5.177		I O				7.58
6.617	9.47	16.13	5.168		I O				7.57
6.633	9.36	16.05	5.159		I O				7.56
6.650	9.28	15.97	5.149		I O				7.56
6.667	9.22	15.89	5.140		I O				7.55
6.683	9.17	15.81	5.131		I O				7.54
6.700	9.11	15.74	5.122		I O				7.53
6.717	9.06	15.66	5.113		I O				7.53
6.733	9.01	15.58	5.104		I O				7.52
6.750	8.96	15.50	5.095		I O				7.51
6.767	8.91	15.43	5.086		I O				7.50
6.783	8.86	15.36	5.077		I O				7.50
6.800	8.81	15.30	5.068		I O				7.49
6.817	8.76	15.24	5.059		I O				7.48
6.833	8.71	15.18	5.050		I O				7.47
6.850	8.66	15.12	5.041		I O				7.46
6.867	8.61	15.06	5.032		I O				7.46
6.883	8.56	15.00	5.023		I O				7.45
6.900	8.51	14.94	5.014		I O				7.44
6.917	8.46	14.88	5.006		I O				7.43
6.933	8.41	14.82	4.997		I O				7.42
6.950	8.36	14.76	4.988		I O				7.42
6.967	8.32	14.70	4.979		I O				7.41
6.983	8.27	14.64	4.970		I O				7.40
7.000	8.22	14.58	4.961		I O				7.39
7.017	8.17	14.53	4.953		I O				7.38
7.033	8.13	14.47	4.944		I O				7.38
7.050	8.08	14.41	4.935		I O				7.37

7.067	8.03	14.35	4.927	I	O					7.36
7.083	7.99	14.29	4.918	I	O					7.35
7.100	7.94	14.23	4.909	I	O					7.34
7.117	7.90	14.18	4.901	I	O					7.34
7.133	7.85	14.12	4.892	I	O					7.33
7.150	7.81	14.06	4.883	I	O					7.32
7.167	7.76	14.00	4.875	I	O					7.31
7.183	7.72	13.94	4.866	I	O					7.31
7.200	7.67	13.89	4.858	I	O					7.30
7.217	7.63	13.83	4.849	I	O					7.29
7.233	7.59	13.77	4.840	I	O					7.28
7.250	7.54	13.72	4.832	I	O					7.27
7.267	7.50	13.66	4.823	I	O					7.27
7.283	7.46	13.60	4.815	I	O					7.26
7.300	7.42	13.55	4.807	I	O					7.25
7.317	7.37	13.49	4.798	I	O					7.24
7.333	7.33	13.43	4.790	I	O					7.24
7.350	7.29	13.38	4.781	I	O					7.23
7.367	7.25	13.32	4.773	I	O					7.22
7.383	7.21	13.26	4.765	I	O					7.21
7.400	7.17	13.21	4.756	I	O					7.21
7.417	7.12	13.15	4.748	I	O					7.20
7.433	7.08	13.10	4.740	I	O					7.19
7.450	7.04	13.04	4.731	I	O					7.18
7.467	7.00	12.99	4.723	I	O					7.18
7.483	6.96	12.93	4.715	I	O					7.17
7.500	6.92	12.88	4.707	I	O					7.16
7.517	6.88	12.82	4.698	I	O					7.15
7.533	6.84	12.77	4.690	I	O					7.15
7.550	6.81	12.71	4.682	I	O					7.14
7.567	6.77	12.66	4.674	I	O					7.13
7.583	6.73	12.60	4.666	I	O					7.12
7.600	6.69	12.55	4.658	I	O					7.12
7.617	6.65	12.49	4.650	I	O					7.11
7.633	6.61	12.44	4.642	I	O					7.10
7.650	6.58	12.39	4.634	I	O					7.09
7.667	6.54	12.33	4.626	I	O					7.09
7.683	6.50	12.28	4.618	I	O					7.08
7.700	6.46	12.23	4.610	I	O					7.07
7.717	6.43	12.17	4.602	I	O					7.07
7.733	6.39	12.12	4.594	I	O					7.06
7.750	6.35	12.07	4.586	I	O					7.05
7.767	6.32	12.01	4.578	I	O					7.04
7.783	6.28	11.96	4.570	I	O					7.04
7.800	6.24	11.91	4.563	I	O					7.03
7.817	6.21	11.86	4.555	I	O					7.02
7.833	6.17	11.80	4.547	I	O					7.02
7.850	6.14	11.75	4.539	I	O					7.01
7.867	6.10	11.70	4.532	I	O					7.00
7.883	6.07	11.65	4.524	I	O					6.99
7.900	6.03	11.60	4.516	I	O					6.99
7.917	6.00	11.55	4.509	I	O					6.98
7.933	5.97	11.50	4.501	I	O					6.97
7.950	5.93	11.44	4.493	I	O					6.97
7.967	5.90	11.39	4.486	I	O					6.96
7.983	5.86	11.34	4.478	I	O					6.95
8.000	5.83	11.29	4.471	I	O					6.95
8.017	5.80	11.24	4.463	I	O					6.94
8.033	5.76	11.19	4.456	I	O					6.93
8.050	5.73	11.14	4.448	I	O					6.93
8.067	5.70	11.09	4.441	I	O					6.92
8.083	5.67	11.04	4.433	I	O					6.91
8.100	5.63	10.99	4.426	I	O					6.91
8.117	5.60	10.94	4.419	I	O					6.90
8.133	5.57	10.89	4.411	I	O					6.89
8.150	5.54	10.84	4.404	I	O					6.89
8.167	5.51	10.80	4.397	I	O					6.88
8.183	5.47	10.75	4.389	I	O					6.87
8.200	5.44	10.70	4.382	I	O					6.87
8.217	5.41	10.65	4.375	I	O					6.86
8.233	5.38	10.60	4.368	I	O					6.85

8.250	5.35	10.55	4.360		I	O					6.85
8.267	5.32	10.50	4.353		I	O					6.84
8.283	5.29	10.46	4.346		I	O					6.83
8.300	5.26	10.41	4.339		I	O					6.83
8.317	5.23	10.36	4.332		I	O					6.82
8.333	5.20	10.31	4.325		I	O					6.81
8.350	5.17	10.27	4.318		I	O					6.81
8.367	5.14	10.22	4.311		I	O					6.80
8.383	5.11	10.17	4.304		I	O					6.79
8.400	5.10	10.13	4.297		I	O					6.79
8.417	5.09	10.08	4.290		I	O					6.78
8.433	5.09	10.03	4.283		I	O					6.78
8.450	5.08	9.99	4.276		I	O					6.77
8.467	5.08	9.94	4.270		I	O					6.76
8.483	5.08	9.90	4.263		I	O					6.76
8.500	5.07	9.85	4.256		I	O					6.75
8.517	5.07	9.81	4.250		I	O					6.75
8.533	5.06	9.77	4.243		I	O					6.74
8.550	5.06	9.72	4.237		I	O					6.73
8.567	5.05	9.68	4.231		I	O					6.73
8.583	5.05	9.64	4.224		I	O					6.72
8.600	5.05	9.60	4.218		I	O					6.72
8.617	5.04	9.55	4.212		I	O					6.71
8.633	5.04	9.51	4.205		I	O					6.70
8.650	5.03	9.47	4.199		I	O					6.70
8.667	5.03	9.43	4.193		I	O					6.69
8.683	5.03	9.39	4.187		I	O					6.69
8.700	5.02	9.35	4.181		I	O					6.68
8.717	5.02	9.31	4.175		I	O					6.68
8.733	5.01	9.27	4.169		I	O					6.67
8.750	5.01	9.23	4.164		I	O					6.67
8.767	5.00	9.19	4.158		I	O					6.66
8.783	5.00	9.15	4.152		I	O					6.66
8.800	5.00	9.12	4.146		I	O					6.65
8.817	4.99	9.08	4.141		I	O					6.65
8.833	4.99	9.04	4.135		I	O					6.64
8.850	4.98	9.00	4.129		I	O					6.64
8.867	4.98	8.97	4.124		I	O					6.63
8.883	4.97	8.93	4.118		I	O					6.63
8.900	4.97	8.89	4.113		I	O					6.62
8.917	4.97	8.86	4.108		I	O					6.62
8.933	4.96	8.82	4.102		I	O					6.61
8.950	4.96	8.79	4.097		I	O					6.61
8.967	4.95	8.75	4.092		I	O					6.60
8.983	4.95	8.72	4.087		I	O					6.60
9.000	4.95	8.68	4.081		I	O					6.59
9.017	4.94	8.65	4.076		I	O					6.59
9.033	4.94	8.61	4.071		I	O					6.58
9.050	4.93	8.58	4.066		I	O					6.58
9.067	4.93	8.54	4.061		I	O					6.57
9.083	4.93	8.51	4.056		I	O					6.57
9.100	4.92	8.48	4.051		I	O					6.56
9.117	4.92	8.45	4.046		I	O					6.56
9.133	4.91	8.41	4.042		I	O					6.56
9.150	4.91	8.38	4.037		I	O					6.55
9.167	4.90	8.35	4.032		I	O					6.55
9.183	4.90	8.32	4.027		I	O					6.54
9.200	4.90	8.29	4.023		I	O					6.54
9.217	4.89	8.25	4.018		I	O					6.53
9.233	4.89	8.22	4.013		I	O					6.53
9.250	4.88	8.19	4.009		I	O					6.53
9.267	4.88	8.16	4.004		I	O					6.52
9.283	4.88	8.13	4.000		I	O					6.52
9.300	4.87	8.10	3.995		I	O					6.51
9.317	4.87	8.07	3.991		I	O					6.51
9.333	4.86	8.04	3.986		I	O					6.51
9.350	4.86	8.01	3.982		I	O					6.50
9.367	4.86	7.99	3.978		I	O					6.50
9.383	4.85	7.96	3.973		I	O					6.49
9.400	4.85	7.94	3.969		I	O					6.49
9.417	4.84	7.92	3.965		I	O					6.48

9.433	4.84	7.89	3.961	I O				6.48
9.450	4.83	7.87	3.957	I O				6.48
9.467	4.83	7.85	3.952	I O				6.47
9.483	4.83	7.82	3.948	I O				6.47
9.500	4.82	7.80	3.944	I O				6.46
9.517	4.82	7.78	3.940	I O				6.46
9.533	4.81	7.75	3.936	I O				6.46
9.550	4.81	7.73	3.932	I O				6.45
9.567	4.81	7.71	3.928	I O				6.45
9.583	4.80	7.69	3.924	I O				6.44
9.600	4.80	7.66	3.920	I O				6.44
9.617	4.79	7.64	3.916	I O				6.44
9.633	4.79	7.62	3.912	I O				6.43
9.650	4.79	7.60	3.908	I O				6.43
9.667	4.78	7.58	3.904	I O				6.42
9.683	4.78	7.56	3.901	I O				6.42
9.700	4.77	7.53	3.897	I O				6.42
9.717	4.77	7.51	3.893	I O				6.41
9.733	4.77	7.49	3.889	I O				6.41
9.750	4.76	7.47	3.885	I O				6.41
9.767	4.76	7.45	3.882	I O				6.40
9.783	4.75	7.43	3.878	I O				6.40
9.800	4.75	7.41	3.874	I O				6.39
9.817	4.75	7.39	3.871	I O				6.39
9.833	4.74	7.37	3.867	I O				6.39
9.850	4.74	7.35	3.863	I O				6.38
9.867	4.73	7.33	3.860	I O				6.38
9.883	4.73	7.31	3.856	I O				6.38
9.900	4.73	7.29	3.853	I O				6.37
9.917	4.72	7.27	3.849	I O				6.37
9.933	4.72	7.25	3.846	I O				6.37
9.950	4.71	7.23	3.842	I O				6.36
9.967	4.71	7.21	3.839	I O				6.36
9.983	4.71	7.19	3.835	I O				6.36
10.000	4.70	7.17	3.832	I O				6.35
10.017	4.70	7.15	3.829	I O				6.35
10.033	4.70	7.13	3.825	I O				6.35
10.050	4.69	7.12	3.822	I O				6.34
10.067	4.69	7.10	3.819	I O				6.34
10.083	4.68	7.08	3.815	I O				6.34
10.100	4.68	7.06	3.812	I O				6.33
10.117	4.68	7.04	3.809	I O				6.33
10.133	4.67	7.02	3.805	I O				6.33
10.150	4.67	7.01	3.802	I O				6.32
10.167	4.66	6.99	3.799	I O				6.32
10.183	4.66	6.97	3.796	IO				6.32
10.200	4.66	6.95	3.793	IO				6.31
10.217	4.65	6.93	3.789	IO				6.31
10.233	4.65	6.92	3.786	IO				6.31
10.250	4.64	6.90	3.783	IO				6.30
10.267	4.64	6.88	3.780	IO				6.30
10.283	4.64	6.87	3.777	IO				6.30
10.300	4.63	6.85	3.774	IO				6.29
10.317	4.63	6.83	3.771	IO				6.29
10.333	4.62	6.81	3.768	IO				6.29
10.350	4.62	6.80	3.765	IO				6.28
10.367	4.62	6.78	3.762	IO				6.28
10.383	4.61	6.76	3.759	IO				6.28
10.400	4.61	6.75	3.756	IO				6.28
10.417	4.61	6.73	3.753	IO				6.27
10.433	4.60	6.71	3.750	IO				6.27
10.450	4.60	6.70	3.747	IO				6.27
10.467	4.59	6.68	3.744	IO				6.26
10.483	4.59	6.67	3.741	IO				6.26
10.500	4.59	6.65	3.739	IO				6.26
10.517	4.58	6.63	3.736	IO				6.26
10.533	4.58	6.62	3.733	IO				6.25
10.550	4.57	6.60	3.730	IO				6.25
10.567	4.57	6.59	3.727	IO				6.25
10.583	4.57	6.57	3.725	IO				6.24
10.600	4.56	6.56	3.722	IO				6.24

10.617	4.56	6.54	3.719	IO					6.24
10.633	4.56	6.53	3.716	IO					6.24
10.650	4.55	6.51	3.714	IO					6.23
10.667	4.55	6.50	3.711	IO					6.23
10.683	4.54	6.48	3.708	IO					6.23
10.700	4.54	6.47	3.706	IO					6.23
10.717	4.54	6.45	3.703	IO					6.22
10.733	4.53	6.44	3.700	IO					6.22
10.750	4.53	6.42	3.698	IO					6.22
10.767	4.53	6.41	3.695	IO					6.22
10.783	4.52	6.39	3.693	IO					6.21
10.800	4.52	6.38	3.690	IO					6.21
10.817	4.51	6.36	3.687	IO					6.21
10.833	4.51	6.35	3.685	IO					6.20
10.850	4.51	6.34	3.682	IO					6.20
10.867	4.50	6.32	3.680	IO					6.20
10.883	4.50	6.31	3.677	IO					6.20
10.900	4.49	6.29	3.675	IO					6.19
10.917	4.49	6.28	3.672	IO					6.19
10.933	4.49	6.27	3.670	IO					6.19
10.950	4.48	6.25	3.667	IO					6.19
10.967	4.48	6.24	3.665	IO					6.19
10.983	4.48	6.23	3.663	IO					6.18
11.000	4.47	6.21	3.660	IO					6.18
11.017	4.47	6.20	3.658	IO					6.18
11.033	4.46	6.19	3.655	IO					6.18
11.050	4.46	6.17	3.653	IO					6.17
11.067	4.46	6.16	3.651	IO					6.17
11.083	4.45	6.15	3.648	IO					6.17
11.100	4.45	6.13	3.646	IO					6.17
11.117	4.45	6.12	3.644	IO					6.16
11.133	4.44	6.11	3.641	IO					6.16
11.150	4.44	6.09	3.639	IO					6.16
11.167	4.43	6.08	3.637	IO					6.16
11.183	4.43	6.07	3.635	IO					6.15
11.200	4.43	6.06	3.632	IO					6.15
11.217	4.42	6.04	3.630	IO					6.15
11.233	4.42	6.03	3.628	IO					6.15
11.250	4.42	6.02	3.626	IO					6.15
11.267	4.41	6.01	3.624	IO					6.14
11.283	4.41	6.00	3.621	IO					6.14
11.300	4.41	5.98	3.619	IO					6.14
11.317	4.40	5.97	3.617	IO					6.14
11.333	4.40	5.96	3.615	IO					6.13
11.350	4.39	5.95	3.613	IO					6.13
11.367	4.39	5.93	3.611	IO					6.13
11.383	4.38	5.92	3.608	IO					6.13
11.400	4.38	5.91	3.606	IO					6.13
11.417	4.37	5.90	3.604	IO					6.12
11.433	4.37	5.89	3.602	IO					6.12
11.450	4.36	5.88	3.600	IO					6.12
11.467	4.36	5.86	3.598	IO					6.12
11.483	4.35	5.85	3.596	IO					6.12
11.500	4.35	5.84	3.594	IO					6.11
11.517	4.34	5.83	3.592	IO					6.11
11.533	4.34	5.82	3.590	IO					6.11
11.550	4.33	5.81	3.588	IO					6.11
11.567	4.33	5.80	3.586	IO					6.11
11.583	4.32	5.78	3.584	IO					6.10
11.600	4.32	5.77	3.582	IO					6.10
11.617	4.31	5.76	3.580	IO					6.10
11.633	4.31	5.75	3.578	IO					6.10
11.650	4.30	5.74	3.576	IO					6.10
11.667	4.30	5.73	3.574	IO					6.09
11.683	4.30	5.72	3.572	IO					6.09
11.700	4.29	5.71	3.570	IO					6.09
11.717	4.29	5.70	3.568	IO					6.09
11.733	4.28	5.69	3.566	IO					6.09
11.750	4.28	5.67	3.564	IO					6.08
11.767	4.27	5.66	3.562	IO					6.08
11.783	4.27	5.65	3.560	IO					6.08

11.800	4.26	5.64	3.558	IO				6.08
11.817	4.26	5.63	3.556	IO				6.08
11.833	4.25	5.62	3.554	IO				6.07
11.850	4.25	5.61	3.553	IO				6.07
11.867	4.24	5.60	3.551	IO				6.07
11.883	4.24	5.59	3.549	IO				6.07
11.900	4.23	5.58	3.547	IO				6.07
11.917	4.23	5.57	3.545	IO				6.07
11.933	4.22	5.56	3.543	IO				6.06
11.950	4.22	5.55	3.541	IO				6.06
11.967	4.21	5.54	3.540	IO				6.06
11.983	4.21	5.53	3.538	IO				6.06
12.000	4.20	5.52	3.536	IO				6.06
12.017	4.20	5.51	3.534	IO				6.05
12.033	4.20	5.50	3.532	IO				6.05
12.050	4.19	5.49	3.531	IO				6.05
12.067	4.19	5.48	3.529	IO				6.05
12.083	4.18	5.47	3.527	IO				6.05
12.100	4.18	5.46	3.525	IO				6.05
12.117	4.17	5.45	3.523	IO				6.04
12.133	4.17	5.44	3.522	IO				6.04
12.150	4.16	5.43	3.520	IO				6.04
12.167	4.16	5.42	3.518	IO				6.04
12.183	4.15	5.41	3.516	IO				6.04
12.200	4.15	5.40	3.515	IO				6.03
12.217	4.14	5.39	3.513	IO				6.03
12.233	4.14	5.38	3.511	IO				6.03
12.250	4.13	5.37	3.510	IO				6.03
12.267	4.13	5.36	3.508	IO				6.03
12.283	4.13	5.35	3.506	IO				6.03
12.300	4.12	5.34	3.505	IO				6.02
12.317	4.12	5.33	3.503	IO				6.02
12.333	4.11	5.32	3.501	IO				6.02
12.350	4.11	5.31	3.500	IO				6.02
12.367	4.10	5.30	3.498	IO				6.02
12.383	4.10	5.30	3.496	IO				6.02
12.400	4.09	5.29	3.495	IO				6.01
12.417	4.09	5.28	3.493	IO				6.01
12.433	4.08	5.27	3.491	IO				6.01
12.450	4.08	5.26	3.490	IO				6.01
12.467	4.07	5.25	3.488	IO				6.01
12.483	4.07	5.24	3.486	IO				6.01
12.500	4.07	5.23	3.485	O				6.00
12.517	4.06	5.22	3.483	O				6.00
12.533	4.06	5.21	3.482	O				6.00
12.550	4.05	5.21	3.480	O				6.00
12.567	4.05	5.20	3.478	O				6.00
12.583	4.04	5.19	3.477	O				6.00
12.600	4.04	5.18	3.475	O				6.00
12.617	4.03	5.17	3.474	O				5.99
12.633	4.03	5.16	3.472	O				5.99
12.650	4.02	5.15	3.471	O				5.99
12.667	4.02	5.14	3.469	O				5.99
12.683	4.02	5.14	3.468	O				5.99
12.700	4.01	5.13	3.466	O				5.99
12.717	4.01	5.12	3.464	O				5.98
12.733	4.00	5.11	3.463	O				5.98
12.750	4.00	5.10	3.461	O				5.98
12.767	3.99	5.09	3.460	O				5.98
12.783	3.99	5.08	3.458	O				5.98
12.800	3.98	5.08	3.457	O				5.98
12.817	3.98	5.07	3.455	O				5.98
12.833	3.98	5.06	3.454	O				5.97
12.850	3.97	5.05	3.452	O				5.97
12.867	3.97	5.04	3.451	O				5.97
12.883	3.96	5.03	3.449	O				5.97
12.900	3.96	5.03	3.448	O				5.97
12.917	3.95	5.02	3.446	O				5.97
12.933	3.95	5.01	3.445	O				5.97
12.950	3.94	5.00	3.444	O				5.96
12.967	3.94	4.99	3.442	O				5.96

12.983	3.94	4.99	3.441		O					5.96
13.000	3.93	4.98	3.439		O					5.96
13.017	3.93	4.97	3.438		O					5.96
13.033	3.92	4.96	3.436		O					5.96
13.050	3.92	4.95	3.435		O					5.95
13.067	3.91	4.94	3.433		O					5.95
13.083	3.91	4.94	3.432		O					5.95
13.100	3.91	4.93	3.431		O					5.95
13.117	3.90	4.92	3.429		O					5.95
13.133	3.90	4.91	3.428		O					5.95
13.150	3.89	4.91	3.426		O					5.95
13.167	3.89	4.90	3.425		O					5.95
13.183	3.88	4.89	3.424		O					5.94
13.200	3.88	4.88	3.422		O					5.94
13.217	3.87	4.87	3.421		O					5.94
13.233	3.87	4.87	3.420		O					5.94
13.250	3.87	4.86	3.418		O					5.94
13.267	3.86	4.85	3.417		O					5.94
13.283	3.86	4.84	3.415		O					5.94
13.300	3.85	4.84	3.414		O					5.93
13.317	3.85	4.83	3.413		O					5.93
13.333	3.84	4.82	3.411		O					5.93
13.350	3.84	4.81	3.410		O					5.93
13.367	3.84	4.81	3.409		O					5.93
13.383	3.83	4.80	3.407		O					5.93
13.400	3.83	4.79	3.406		O					5.93
13.417	3.82	4.78	3.405		O					5.92
13.433	3.82	4.78	3.403		O					5.92
13.450	3.81	4.77	3.402		O					5.92
13.467	3.81	4.76	3.401		O					5.92
13.483	3.81	4.75	3.399		O					5.92
13.500	3.80	4.75	3.398		O					5.92
13.517	3.80	4.74	3.397		O					5.92
13.533	3.79	4.73	3.396		O					5.92
13.550	3.79	4.73	3.394		O					5.91
13.567	3.78	4.72	3.393		O					5.91
13.583	3.78	4.71	3.392		O					5.91
13.600	3.78	4.70	3.390		O					5.91
13.617	3.77	4.70	3.389		O					5.91
13.633	3.77	4.69	3.388		O					5.91
13.650	3.76	4.68	3.387		O					5.91
13.667	3.76	4.68	3.385		O					5.91
13.683	3.75	4.67	3.384		O					5.90
13.700	3.75	4.66	3.383		O					5.90
13.717	3.75	4.65	3.382		O					5.90
13.733	3.74	4.65	3.380		O					5.90
13.750	3.74	4.64	3.379		O					5.90
13.767	3.73	4.63	3.378		O					5.90
13.783	3.73	4.63	3.377		O					5.90
13.800	3.73	4.62	3.375		O					5.90
13.817	3.72	4.61	3.374		O					5.89
13.833	3.72	4.61	3.373		O					5.89
13.850	3.71	4.60	3.372		O					5.89
13.867	3.71	4.59	3.370		O					5.89
13.883	3.70	4.59	3.369		O					5.89
13.900	3.70	4.58	3.368		O					5.89
13.917	3.70	4.57	3.367		O					5.89
13.933	3.69	4.57	3.366		O					5.89
13.950	3.69	4.56	3.364		O					5.88
13.967	3.68	4.55	3.363		O					5.88
13.983	3.68	4.55	3.362		O					5.88
14.000	3.68	4.54	3.361		O					5.88
14.017	3.67	4.53	3.360		O					5.88
14.033	3.67	4.53	3.358		O					5.88
14.050	3.66	4.52	3.357		O					5.88
14.067	3.66	4.51	3.356		O					5.88
14.083	3.66	4.51	3.355		O					5.87
14.100	3.65	4.50	3.354		O					5.87
14.117	3.65	4.49	3.353		O					5.87
14.133	3.64	4.49	3.351		O					5.87
14.150	3.64	4.48	3.350		O					5.87

14.167	3.63	4.47	3.349	O					5.87
14.183	3.63	4.47	3.348	O					5.87
14.200	3.63	4.46	3.347	O					5.87
14.217	3.62	4.45	3.346	O					5.87
14.233	3.62	4.45	3.345	O					5.86
14.250	3.61	4.44	3.343	O					5.86
14.267	3.61	4.43	3.342	O					5.86
14.283	3.61	4.43	3.341	O					5.86
14.300	3.60	4.42	3.340	O					5.86
14.317	3.60	4.42	3.339	O					5.86
14.333	3.59	4.41	3.338	O					5.86
14.350	3.59	4.40	3.337	O					5.86
14.367	3.59	4.40	3.335	O					5.86
14.383	3.58	4.39	3.334	O					5.85
14.400	3.58	4.38	3.333	O					5.85
14.417	3.57	4.38	3.332	O					5.85
14.433	3.57	4.37	3.331	O					5.85
14.450	3.57	4.37	3.330	O					5.85
14.467	3.56	4.36	3.329	O					5.85
14.483	3.56	4.35	3.328	O					5.85
14.500	3.55	4.35	3.327	O					5.85
14.517	3.55	4.34	3.326	O					5.85
14.533	3.55	4.34	3.324	O					5.84
14.550	3.54	4.33	3.323	O					5.84
14.567	3.54	4.32	3.322	O					5.84
14.583	3.53	4.32	3.321	O					5.84
14.600	3.53	4.31	3.320	O					5.84
14.617	3.53	4.31	3.319	O					5.84
14.633	3.52	4.30	3.318	O					5.84
14.650	3.52	4.29	3.317	O					5.84
14.667	3.51	4.29	3.316	O					5.84
14.683	3.51	4.28	3.315	O					5.83
14.700	3.51	4.28	3.314	O					5.83
14.717	3.50	4.27	3.313	O					5.83
14.733	3.50	4.26	3.312	O					5.83
14.750	3.50	4.26	3.311	O					5.83
14.767	3.49	4.25	3.310	O					5.83
14.783	3.49	4.25	3.308	IO					5.83
14.800	3.48	4.24	3.307	IO					5.83
14.817	3.48	4.23	3.306	IO					5.83
14.833	3.48	4.23	3.305	IO					5.83
14.850	3.47	4.22	3.304	IO					5.82
14.867	3.47	4.22	3.303	IO					5.82
14.883	3.46	4.21	3.302	IO					5.82
14.900	3.46	4.21	3.301	IO					5.82
14.917	3.46	4.20	3.300	IO					5.82
14.933	3.45	4.19	3.299	IO					5.82
14.950	3.45	4.19	3.298	IO					5.82
14.967	3.44	4.18	3.297	IO					5.82
14.983	3.44	4.18	3.296	IO					5.82
15.000	3.44	4.17	3.295	IO					5.82
15.017	3.43	4.17	3.294	IO					5.81
15.033	3.43	4.16	3.293	IO					5.81
15.050	3.43	4.15	3.292	IO					5.81
15.067	3.42	4.15	3.291	IO					5.81
15.083	3.42	4.14	3.290	IO					5.81
15.100	3.41	4.14	3.289	IO					5.81
15.117	3.41	4.13	3.288	IO					5.81
15.133	3.41	4.13	3.287	IO					5.81
15.150	3.40	4.12	3.286	IO					5.81
15.167	3.40	4.12	3.285	IO					5.81
15.183	3.39	4.11	3.284	IO					5.80
15.200	3.39	4.10	3.283	IO					5.80
15.217	3.39	4.10	3.282	IO					5.80
15.233	3.38	4.09	3.281	IO					5.80
15.250	3.38	4.09	3.280	IO					5.80
15.267	3.37	4.08	3.279	IO					5.80
15.283	3.37	4.08	3.278	IO					5.80
15.300	3.36	4.07	3.277	IO					5.80
15.317	3.36	4.07	3.276	IO					5.80
15.333	3.35	4.06	3.275	IO					5.80

15.350	3.35	4.06	3.274	IO					5.79
15.367	3.35	4.05	3.273	IO					5.79
15.383	3.34	4.04	3.272	IO					5.79
15.400	3.34	4.04	3.271	IO					5.79
15.417	3.33	4.03	3.270	IO					5.79
15.433	3.33	4.03	3.270	IO					5.79
15.450	3.32	4.02	3.269	IO					5.79
15.467	3.32	4.02	3.268	IO					5.79
15.483	3.32	4.01	3.267	IO					5.79
15.500	3.31	4.01	3.266	IO					5.79
15.517	3.31	4.00	3.265	IO					5.78
15.533	3.30	4.00	3.264	IO					5.78
15.550	3.30	3.99	3.263	IO					5.78
15.567	3.29	3.99	3.262	IO					5.78
15.583	3.29	3.98	3.261	IO					5.78
15.600	3.29	3.97	3.260	IO					5.78
15.617	3.28	3.97	3.259	IO					5.78
15.633	3.28	3.96	3.258	IO					5.78
15.650	3.27	3.96	3.257	IO					5.78
15.667	3.27	3.95	3.256	IO					5.78
15.683	3.27	3.95	3.255	IO					5.78
15.700	3.26	3.94	3.254	IO					5.77
15.717	3.26	3.94	3.253	IO					5.77
15.733	3.25	3.93	3.252	IO					5.77
15.750	3.25	3.93	3.251	IO					5.77
15.767	3.24	3.92	3.251	IO					5.77
15.783	3.24	3.92	3.250	IO					5.77
15.800	3.24	3.91	3.249	IO					5.77
15.817	3.23	3.91	3.248	IO					5.77
15.833	3.23	3.90	3.247	IO					5.77
15.850	3.22	3.90	3.246	IO					5.77
15.867	3.22	3.89	3.245	IO					5.76
15.883	3.22	3.89	3.244	IO					5.76
15.900	3.21	3.88	3.243	IO					5.76
15.917	3.21	3.88	3.242	IO					5.76
15.933	3.20	3.87	3.241	IO					5.76
15.950	3.20	3.87	3.240	IO					5.76
15.967	3.19	3.86	3.239	IO					5.76
15.983	3.19	3.86	3.239	IO					5.76
16.000	3.19	3.85	3.238	IO					5.76
16.017	3.18	3.84	3.237	IO					5.76
16.033	3.18	3.84	3.236	IO					5.76
16.050	3.17	3.83	3.235	IO					5.75
16.067	3.17	3.83	3.234	IO					5.75
16.083	3.17	3.82	3.233	IO					5.75
16.100	3.16	3.82	3.232	IO					5.75
16.117	3.16	3.81	3.231	IO					5.75
16.133	3.15	3.81	3.230	IO					5.75
16.150	3.15	3.80	3.229	IO					5.75
16.167	3.15	3.80	3.229	IO					5.75
16.183	3.14	3.79	3.228	IO					5.75
16.200	3.14	3.79	3.227	IO					5.75
16.217	3.13	3.78	3.226	IO					5.75
16.233	3.13	3.78	3.225	IO					5.74
16.250	3.12	3.77	3.224	IO					5.74
16.267	3.12	3.77	3.223	IO					5.74
16.283	3.12	3.76	3.222	IO					5.74
16.300	3.11	3.76	3.221	IO					5.74
16.317	3.11	3.75	3.220	IO					5.74
16.333	3.10	3.75	3.220	IO					5.74
16.350	3.10	3.74	3.219	IO					5.74
16.367	3.10	3.74	3.218	IO					5.74
16.383	3.09	3.73	3.217	IO					5.74
16.400	3.09	3.73	3.216	IO					5.74
16.417	3.08	3.72	3.215	IO					5.74
16.433	3.08	3.72	3.214	IO					5.73
16.450	3.08	3.71	3.213	IO					5.73
16.467	3.07	3.71	3.213	IO					5.73
16.483	3.07	3.70	3.212	IO					5.73
16.500	3.07	3.70	3.211	IO					5.73
16.517	3.06	3.70	3.210	IO					5.73

16.533	3.06	3.69	3.209	IO					5.73
16.550	3.05	3.69	3.208	IO					5.73
16.567	3.05	3.68	3.207	IO					5.73
16.583	3.05	3.68	3.206	IO					5.73
16.600	3.04	3.67	3.206	IO					5.73
16.617	3.04	3.67	3.205	IO					5.72
16.633	3.03	3.66	3.204	IO					5.72
16.650	3.03	3.66	3.203	IO					5.72
16.667	3.03	3.65	3.202	IO					5.72
16.683	3.02	3.65	3.201	IO					5.72
16.700	3.02	3.64	3.200	IO					5.72
16.717	3.01	3.64	3.200	IO					5.72
16.733	3.01	3.63	3.199	IO					5.72
16.750	3.01	3.63	3.198	IO					5.72
16.767	3.00	3.62	3.197	IO					5.72
16.783	3.00	3.62	3.196	IO					5.72
16.800	2.99	3.61	3.195	IO					5.72
16.817	2.99	3.61	3.194	IO					5.71
16.833	2.99	3.60	3.194	IO					5.71
16.850	2.98	3.60	3.193	IO					5.71
16.867	2.98	3.59	3.192	IO					5.71
16.883	2.98	3.59	3.191	IO					5.71
16.900	2.97	3.58	3.190	IO					5.71
16.917	2.97	3.58	3.189	IO					5.71
16.933	2.96	3.58	3.188	IO					5.71
16.950	2.96	3.57	3.188	IO					5.71
16.967	2.96	3.57	3.187	IO					5.71
16.983	2.95	3.56	3.186	IO					5.71
17.000	2.95	3.56	3.185	IO					5.71
17.017	2.94	3.55	3.184	IO					5.70
17.033	2.94	3.55	3.183	IO					5.70
17.050	2.94	3.54	3.183	IO					5.70
17.067	2.93	3.54	3.182	IO					5.70
17.083	2.93	3.53	3.181	IO					5.70
17.100	2.93	3.53	3.180	IO					5.70
17.117	2.92	3.52	3.179	IO					5.70
17.133	2.92	3.52	3.178	IO					5.70
17.150	2.91	3.51	3.178	IO					5.70
17.167	2.91	3.51	3.177	IO					5.70
17.183	2.91	3.51	3.176	IO					5.70
17.200	2.90	3.50	3.175	IO					5.70
17.217	2.90	3.50	3.174	IO					5.69
17.233	2.90	3.49	3.173	IO					5.69
17.250	2.89	3.49	3.173	IO					5.69
17.267	2.89	3.48	3.172	IO					5.69
17.283	2.88	3.48	3.171	IO					5.69
17.300	2.88	3.47	3.170	IO					5.69
17.317	2.88	3.47	3.169	IO					5.69
17.333	2.87	3.46	3.169	IO					5.69
17.350	2.87	3.46	3.168	IO					5.69
17.367	2.87	3.46	3.167	IO					5.69
17.383	2.86	3.45	3.166	IO					5.69
17.400	2.86	3.45	3.165	IO					5.69
17.417	2.85	3.44	3.165	IO					5.68
17.433	2.85	3.44	3.164	IO					5.68
17.450	2.85	3.43	3.163	IO					5.68
17.467	2.84	3.43	3.162	IO					5.68
17.483	2.84	3.42	3.161	IO					5.68
17.500	2.84	3.42	3.161	IO					5.68
17.517	2.83	3.41	3.160	IO					5.68
17.533	2.83	3.41	3.159	IO					5.68
17.550	2.83	3.41	3.158	IO					5.68
17.567	2.82	3.40	3.157	IO					5.68
17.583	2.82	3.40	3.157	IO					5.68
17.600	2.81	3.39	3.156	IO					5.68
17.617	2.81	3.39	3.155	IO					5.67
17.633	2.81	3.38	3.154	IO					5.67
17.650	2.80	3.38	3.153	IO					5.67
17.667	2.80	3.37	3.153	IO					5.67
17.683	2.80	3.37	3.152	IO					5.67
17.700	2.79	3.37	3.151	IO					5.67

17.717	2.79	3.36	3.150	10					5.67
17.733	2.79	3.36	3.149	10					5.67
17.750	2.78	3.35	3.149	10					5.67
17.767	2.78	3.35	3.148	10					5.67
17.783	2.77	3.34	3.147	10					5.67
17.800	2.77	3.34	3.146	10					5.67
17.817	2.77	3.33	3.145	10					5.67
17.833	2.76	3.33	3.145	10					5.66
17.850	2.76	3.33	3.144	10					5.66
17.867	2.76	3.32	3.143	10					5.66
17.883	2.75	3.32	3.142	10					5.66
17.900	2.75	3.31	3.142	10					5.66
17.917	2.75	3.31	3.141	10					5.66
17.933	2.74	3.30	3.140	10					5.66
17.950	2.74	3.30	3.139	10					5.66
17.967	2.74	3.30	3.138	10					5.66
17.983	2.73	3.29	3.138	10					5.66
18.000	2.73	3.29	3.137	10					5.66
18.017	2.73	3.28	3.136	10					5.66
18.033	2.72	3.28	3.135	10					5.66
18.050	2.72	3.27	3.135	10					5.65
18.067	2.71	3.27	3.134	10					5.65
18.083	2.71	3.27	3.133	10					5.65
18.100	2.71	3.26	3.132	10					5.65
18.117	2.70	3.26	3.132	10					5.65
18.133	2.70	3.25	3.131	10					5.65
18.150	2.70	3.25	3.130	10					5.65
18.167	2.69	3.24	3.129	10					5.65
18.183	2.69	3.24	3.129	10					5.65
18.200	2.69	3.24	3.128	10					5.65
18.217	2.68	3.23	3.127	10					5.65
18.233	2.68	3.23	3.126	10					5.65
18.250	2.68	3.22	3.126	10					5.65
18.267	2.67	3.22	3.125	10					5.64
18.283	2.67	3.22	3.124	10					5.64
18.300	2.67	3.21	3.123	10					5.64
18.317	2.66	3.21	3.123	10					5.64
18.333	2.66	3.20	3.122	10					5.64
18.350	2.66	3.20	3.121	10					5.64
18.367	2.65	3.19	3.120	10					5.64
18.383	2.65	3.19	3.120	10					5.64
18.400	2.65	3.19	3.119	10					5.64
18.417	2.64	3.18	3.118	10					5.64
18.433	2.64	3.18	3.117	10					5.64
18.450	2.64	3.17	3.117	10					5.64
18.467	2.63	3.17	3.116	10					5.64
18.483	2.63	3.17	3.115	10					5.64
18.500	2.63	3.16	3.114	10					5.63
18.517	2.62	3.16	3.114	10					5.63
18.533	2.62	3.15	3.113	10					5.63
18.550	2.61	3.15	3.112	10					5.63
18.567	2.61	3.14	3.111	10					5.63
18.583	2.61	3.14	3.111	10					5.63
18.600	2.60	3.14	3.110	10					5.63
18.617	2.60	3.13	3.109	10					5.63
18.633	2.60	3.13	3.108	10					5.63
18.650	2.59	3.12	3.108	10					5.63
18.667	2.59	3.12	3.107	10					5.63
18.683	2.59	3.12	3.106	10					5.63
18.700	2.58	3.11	3.106	10					5.63
18.717	2.58	3.11	3.105	10					5.62
18.733	2.58	3.10	3.104	10					5.62
18.750	2.57	3.10	3.103	10					5.62
18.767	2.57	3.10	3.103	10					5.62
18.783	2.57	3.09	3.102	10					5.62
18.800	2.56	3.09	3.101	10					5.62
18.817	2.56	3.08	3.100	10					5.62
18.833	2.56	3.08	3.100	10					5.62
18.850	2.55	3.08	3.099	10					5.62
18.867	2.55	3.07	3.098	10					5.62
18.883	2.55	3.07	3.098	10					5.62

18.900	2.54	3.06	3.097	10					5.62
18.917	2.54	3.06	3.096	10					5.62
18.933	2.54	3.06	3.095	10					5.62
18.950	2.54	3.05	3.095	10					5.61
18.967	2.53	3.05	3.094	10					5.61
18.983	2.53	3.04	3.093	10					5.61
19.000	2.53	3.04	3.093	10					5.61
19.017	2.52	3.04	3.092	10					5.61
19.033	2.52	3.03	3.091	10					5.61
19.050	2.52	3.03	3.091	10					5.61
19.067	2.51	3.02	3.090	10					5.61
19.083	2.51	3.02	3.089	10					5.61
19.100	2.51	3.02	3.088	10					5.61
19.117	2.50	3.01	3.088	10					5.61
19.133	2.50	3.01	3.087	10					5.61
19.150	2.50	3.00	3.086	10					5.61
19.167	2.49	3.00	3.086	10					5.61
19.183	2.49	3.00	3.085	10					5.60
19.200	2.49	2.99	3.084	10					5.60
19.217	2.48	2.99	3.084	10					5.60
19.233	2.48	2.98	3.083	10					5.60
19.250	2.48	2.98	3.082	10					5.60
19.267	2.47	2.98	3.081	10					5.60
19.283	2.47	2.97	3.081	10					5.60
19.300	2.47	2.97	3.080	10					5.60
19.317	2.46	2.97	3.079	10					5.60
19.333	2.46	2.96	3.079	10					5.60
19.350	2.46	2.96	3.078	10					5.60
19.367	2.45	2.95	3.077	10					5.60
19.383	2.45	2.95	3.077	10					5.60
19.400	2.45	2.95	3.076	10					5.60
19.417	2.45	2.94	3.075	10					5.60
19.433	2.44	2.94	3.075	10					5.59
19.450	2.44	2.93	3.074	10					5.59
19.467	2.44	2.93	3.073	10					5.59
19.483	2.43	2.93	3.072	10					5.59
19.500	2.43	2.92	3.072	10					5.59
19.517	2.43	2.92	3.071	10					5.59
19.533	2.42	2.92	3.070	10					5.59
19.550	2.42	2.91	3.070	10					5.59
19.567	2.42	2.91	3.069	10					5.59
19.583	2.41	2.90	3.068	10					5.59
19.600	2.41	2.90	3.068	10					5.59
19.617	2.41	2.90	3.067	10					5.59
19.633	2.40	2.89	3.066	10					5.59
19.650	2.40	2.89	3.066	10					5.59
19.667	2.40	2.89	3.065	10					5.59
19.683	2.40	2.88	3.064	10					5.58
19.700	2.39	2.88	3.064	10					5.58
19.717	2.39	2.87	3.063	10					5.58
19.733	2.39	2.87	3.062	10					5.58
19.750	2.38	2.87	3.062	10					5.58
19.767	2.38	2.86	3.061	10					5.58
19.783	2.38	2.86	3.060	10					5.58
19.800	2.37	2.86	3.060	10					5.58
19.817	2.37	2.85	3.059	10					5.58
19.833	2.37	2.85	3.058	10					5.58
19.850	2.36	2.84	3.058	10					5.58
19.867	2.36	2.84	3.057	10					5.58
19.883	2.36	2.84	3.056	10					5.58
19.900	2.36	2.83	3.056	10					5.58
19.917	2.35	2.83	3.055	10					5.58
19.933	2.35	2.83	3.054	10					5.57
19.950	2.35	2.82	3.054	10					5.57
19.967	2.34	2.82	3.053	10					5.57
19.983	2.34	2.82	3.052	10					5.57
20.000	2.34	2.81	3.052	10					5.57
20.017	2.33	2.81	3.051	10					5.57
20.033	2.33	2.80	3.051	10					5.57
20.050	2.33	2.80	3.050	10					5.57
20.067	2.32	2.80	3.049	10					5.57

20.083	2.32	2.79	3.049	10					5.57
20.100	2.32	2.79	3.048	10					5.57
20.117	2.32	2.79	3.047	10					5.57
20.133	2.31	2.78	3.047	10					5.57
20.150	2.31	2.78	3.046	10					5.57
20.167	2.31	2.78	3.045	10					5.57
20.183	2.30	2.77	3.045	10					5.56
20.200	2.30	2.77	3.044	10					5.56
20.217	2.30	2.76	3.043	10					5.56
20.233	2.30	2.76	3.043	10					5.56
20.250	2.29	2.76	3.042	10					5.56
20.267	2.29	2.75	3.041	10					5.56
20.283	2.29	2.75	3.041	10					5.56
20.300	2.28	2.75	3.040	10					5.56
20.317	2.28	2.74	3.040	10					5.56
20.333	2.28	2.74	3.039	10					5.56
20.350	2.27	2.74	3.038	10					5.56
20.367	2.27	2.73	3.038	10					5.56
20.383	2.27	2.73	3.037	10					5.56
20.400	2.27	2.73	3.036	10					5.56
20.417	2.26	2.72	3.036	10					5.56
20.433	2.26	2.72	3.035	10					5.56
20.450	2.26	2.71	3.034	10					5.55
20.467	2.25	2.71	3.034	10					5.55
20.483	2.25	2.71	3.033	10					5.55
20.500	2.25	2.70	3.033	10					5.55
20.517	2.25	2.70	3.032	10					5.55
20.533	2.24	2.70	3.031	10					5.55
20.550	2.24	2.69	3.031	10					5.55
20.567	2.24	2.69	3.030	10					5.55
20.583	2.23	2.69	3.029	10					5.55
20.600	2.23	2.68	3.029	10					5.55
20.617	2.23	2.68	3.028	10					5.55
20.633	2.23	2.68	3.028	10					5.55
20.650	2.22	2.67	3.027	10					5.55
20.667	2.22	2.67	3.026	10					5.55
20.683	2.22	2.67	3.026	10					5.55
20.700	2.21	2.66	3.025	10					5.55
20.717	2.21	2.66	3.024	10					5.54
20.733	2.21	2.66	3.024	10					5.54
20.750	2.21	2.65	3.023	10					5.54
20.767	2.20	2.65	3.023	10					5.54
20.783	2.20	2.64	3.022	10					5.54
20.800	2.19	2.64	3.021	10					5.54
20.817	2.18	2.64	3.021	10					5.54
20.833	2.17	2.63	3.020	10					5.54
20.850	2.16	2.63	3.020	10					5.54
20.867	2.15	2.63	3.019	10					5.54
20.883	2.14	2.62	3.018	10					5.54
20.900	2.13	2.62	3.018	10					5.54
20.917	2.12	2.62	3.017	10					5.54
20.933	2.12	2.61	3.016	10					5.54
20.950	2.11	2.61	3.015	10					5.54
20.967	2.10	2.60	3.015	10					5.53
20.983	2.09	2.60	3.014	10					5.53
21.000	2.08	2.60	3.013	10					5.53
21.017	2.07	2.59	3.013	10					5.53
21.033	2.06	2.59	3.012	10					5.53
21.050	2.05	2.58	3.011	10					5.53
21.067	2.04	2.58	3.010	10					5.53
21.083	2.04	2.58	3.010	10					5.53
21.100	2.03	2.57	3.009	10					5.53
21.117	2.02	2.57	3.008	10					5.53
21.133	2.01	2.56	3.007	10					5.53
21.150	2.00	2.56	3.007	10					5.53
21.167	1.99	2.56	3.006	10					5.53
21.183	1.98	2.55	3.005	10					5.53
21.200	1.98	2.55	3.004	10					5.52
21.217	1.97	2.54	3.004	10					5.52
21.233	1.96	2.54	3.003	10					5.52
21.250	1.95	2.53	3.002	10					5.52

21.267	1.94	2.53	3.001	IO					5.52
21.283	1.93	2.52	3.000	IO					5.52
21.300	1.93	2.52	3.000	IO					5.52
21.317	1.92	2.51	2.999	IO					5.52
21.333	1.91	2.51	2.998	IO					5.52
21.350	1.90	2.51	2.997	IO					5.52
21.367	1.89	2.50	2.996	IO					5.52
21.383	1.88	2.50	2.995	IO					5.52
21.400	1.88	2.49	2.995	IO					5.51
21.417	1.87	2.49	2.994	IO					5.51
21.433	1.86	2.48	2.993	IO					5.51
21.450	1.85	2.48	2.992	IO					5.51
21.467	1.85	2.47	2.991	IO					5.51
21.483	1.84	2.47	2.990	IO					5.51
21.500	1.83	2.46	2.989	IO					5.51
21.517	1.82	2.46	2.989	IO					5.51
21.533	1.81	2.45	2.988	IO					5.51
21.550	1.81	2.45	2.987	IO					5.51
21.567	1.80	2.44	2.986	IO					5.51
21.583	1.79	2.44	2.985	IO					5.51
21.600	1.78	2.43	2.984	IO					5.50
21.617	1.78	2.43	2.983	IO					5.50
21.633	1.77	2.42	2.982	IO					5.50
21.650	1.76	2.42	2.981	IO					5.50
21.667	1.75	2.41	2.981	IO					5.50
21.683	1.75	2.41	2.980	IO					5.50
21.700	1.74	2.41	2.979	IO					5.50
21.717	1.73	2.40	2.978	IO					5.50
21.733	1.72	2.40	2.977	IO					5.50
21.750	1.72	2.40	2.976	IO					5.50
21.767	1.71	2.39	2.975	IO					5.49
21.783	1.70	2.39	2.974	IO					5.49
21.800	1.69	2.39	2.973	IO					5.49
21.817	1.69	2.38	2.972	IO					5.49
21.833	1.68	2.38	2.971	IO					5.49
21.850	1.67	2.37	2.970	IO					5.49
21.867	1.67	2.37	2.969	IO					5.49
21.883	1.66	2.37	2.968	IO					5.49
21.900	1.65	2.36	2.967	IO					5.49
21.917	1.64	2.36	2.966	IO					5.49
21.933	1.64	2.36	2.965	IO					5.48
21.950	1.63	2.35	2.964	IO					5.48
21.967	1.62	2.35	2.963	IO					5.48
21.983	1.62	2.35	2.962	IO					5.48
22.000	1.61	2.34	2.961	IO					5.48
22.017	1.60	2.34	2.960	IO					5.48
22.033	1.60	2.34	2.959	IO					5.48
22.050	1.59	2.33	2.958	IO					5.48
22.067	1.58	2.33	2.957	IO					5.48
22.083	1.58	2.32	2.956	IO					5.47
22.100	1.57	2.32	2.955	IO					5.47
22.117	1.56	2.32	2.954	IO					5.47
22.133	1.56	2.31	2.953	IO					5.47
22.150	1.55	2.31	2.952	IO					5.47
22.167	1.54	2.31	2.951	IO					5.47
22.183	1.54	2.30	2.950	IO					5.47
22.200	1.53	2.30	2.949	IO					5.47
22.217	1.52	2.29	2.948	IO					5.46
22.233	1.52	2.29	2.947	IO					5.46
22.250	1.51	2.29	2.946	IO					5.46
22.267	1.50	2.28	2.945	IO					5.46
22.283	1.50	2.28	2.944	IO					5.46
22.300	1.49	2.28	2.942	IO					5.46
22.317	1.48	2.27	2.941	IO					5.46
22.333	1.48	2.27	2.940	IO					5.46
22.350	1.47	2.26	2.939	IO					5.46
22.367	1.47	2.26	2.938	IO					5.45
22.383	1.46	2.26	2.937	IO					5.45
22.400	1.45	2.25	2.936	IO					5.45
22.417	1.45	2.25	2.935	IO					5.45
22.433	1.44	2.24	2.934	IO					5.45

22.450	1.43	2.24	2.933	IO					5.45
22.467	1.43	2.24	2.931	IO					5.45
22.483	1.42	2.23	2.930	IO					5.45
22.500	1.42	2.23	2.929	IO					5.44
22.517	1.41	2.22	2.928	IO					5.44
22.533	1.40	2.22	2.927	IO					5.44
22.550	1.40	2.22	2.926	IO					5.44
22.567	1.39	2.21	2.925	IO					5.44
22.583	1.39	2.21	2.924	IO					5.44
22.600	1.38	2.20	2.922	IO					5.44
22.617	1.37	2.20	2.921	IO					5.44
22.633	1.37	2.20	2.920	IO					5.44
22.650	1.36	2.19	2.919	IO					5.43
22.667	1.36	2.19	2.918	IO					5.43
22.683	1.35	2.18	2.917	IO					5.43
22.700	1.35	2.18	2.916	IO					5.43
22.717	1.34	2.17	2.914	IO					5.43
22.733	1.33	2.17	2.913	IO					5.43
22.750	1.33	2.17	2.912	IO					5.43
22.767	1.32	2.16	2.911	IO					5.43
22.783	1.32	2.16	2.910	IO					5.42
22.800	1.31	2.15	2.909	IO					5.42
22.817	1.31	2.15	2.908	IO					5.42
22.833	1.30	2.15	2.906	IO					5.42
22.850	1.29	2.14	2.905	IO					5.42
22.867	1.29	2.14	2.904	IO					5.42
22.883	1.28	2.13	2.903	IO					5.42
22.900	1.28	2.13	2.902	IO					5.41
22.917	1.27	2.12	2.901	IO					5.41
22.933	1.27	2.12	2.899	IO					5.41
22.950	1.26	2.12	2.898	IO					5.41
22.967	1.26	2.11	2.897	IO					5.41
22.983	1.25	2.11	2.896	IO					5.41
23.000	1.25	2.10	2.895	IO					5.41
23.017	1.24	2.10	2.893	IO					5.41
23.033	1.24	2.10	2.892	IO					5.40
23.050	1.23	2.09	2.891	IO					5.40
23.067	1.22	2.09	2.890	IO					5.40
23.083	1.22	2.08	2.889	IO					5.40
23.100	1.21	2.08	2.888	IO					5.40
23.117	1.21	2.07	2.886	IO					5.40
23.133	1.20	2.07	2.885	IO					5.40
23.150	1.20	2.07	2.884	IO					5.40
23.167	1.19	2.06	2.883	IO					5.39
23.183	1.19	2.06	2.882	IO					5.39
23.200	1.18	2.05	2.880	IO					5.39
23.217	1.18	2.05	2.879	IO					5.39
23.233	1.17	2.04	2.878	IO					5.39
23.250	1.17	2.04	2.877	IO					5.39
23.267	1.16	2.04	2.876	IO					5.39
23.283	1.16	2.03	2.874	IO					5.39
23.300	1.15	2.03	2.873	IO					5.38
23.317	1.15	2.02	2.872	IO					5.38
23.333	1.14	2.02	2.871	IO					5.38
23.350	1.14	2.01	2.870	IO					5.38
23.367	1.13	2.01	2.868	IO					5.38
23.383	1.13	2.01	2.867	IO					5.38
23.400	1.12	2.00	2.866	IO					5.38
23.417	1.12	2.00	2.865	IO					5.37
23.433	1.12	1.99	2.864	IO					5.37
23.450	1.11	1.99	2.862	IO					5.37
23.467	1.11	1.98	2.861	IO					5.37
23.483	1.10	1.98	2.860	IO					5.37
23.500	1.10	1.97	2.859	IO					5.37
23.517	1.09	1.97	2.857	IO					5.37
23.533	1.09	1.97	2.856	IO					5.37
23.550	1.08	1.96	2.855	IO					5.36
23.567	1.08	1.96	2.854	IO					5.36
23.583	1.07	1.95	2.853	IO					5.36
23.600	1.07	1.95	2.851	IO					5.36
23.617	1.06	1.94	2.850	IO					5.36

23.633	1.06	1.94	2.849	IO					5.36
23.650	1.05	1.94	2.848	IO					5.36
23.667	1.05	1.93	2.847	IO					5.35
23.683	1.05	1.93	2.845	IO					5.35
23.700	1.04	1.92	2.844	IO					5.35
23.717	1.04	1.92	2.843	IO					5.35
23.733	1.03	1.91	2.842	IO					5.35
23.750	1.03	1.91	2.840	IO					5.35
23.767	1.02	1.91	2.839	IO					5.35
23.783	1.02	1.90	2.838	IO					5.35
23.800	1.02	1.90	2.837	IO					5.34
23.817	1.01	1.89	2.836	IO					5.34
23.833	1.01	1.89	2.834	IO					5.34
23.850	1.00	1.88	2.833	IO					5.34
23.867	1.00	1.88	2.832	IO					5.34
23.883	0.99	1.87	2.831	IO					5.34
23.900	0.99	1.87	2.830	IO					5.34
23.917	0.99	1.87	2.828	IO					5.34
23.933	0.98	1.86	2.827	IO					5.33
23.950	0.98	1.86	2.826	IO					5.33
23.967	0.97	1.85	2.825	IO					5.33
23.983	0.97	1.85	2.824	IO					5.33
24.000	0.96	1.84	2.822	IO					5.33
24.017	0.96	1.84	2.821	IO					5.33
24.033	0.96	1.84	2.820	IO					5.33
24.050	0.95	1.83	2.819	IO					5.32
24.067	0.95	1.83	2.817	IO					5.32
24.083	0.94	1.82	2.816	IO					5.32
24.100	0.94	1.82	2.815	IO					5.32
24.117	0.94	1.81	2.814	IO					5.32
24.133	0.93	1.81	2.813	IO					5.32
24.150	0.93	1.81	2.811	IO					5.32
24.167	0.92	1.80	2.810	IO					5.32
24.183	0.92	1.80	2.809	IO					5.31
24.200	0.92	1.79	2.808	IO					5.31
24.217	0.91	1.79	2.807	IO					5.31
24.233	0.91	1.78	2.805	IO					5.31
24.250	0.90	1.78	2.804	IO					5.31
24.267	0.90	1.77	2.803	IO					5.31
24.283	0.90	1.77	2.802	IO					5.31
24.300	0.89	1.77	2.801	IO					5.30
24.317	0.89	1.76	2.799	IO					5.30
24.333	0.89	1.76	2.798	IO					5.30
24.350	0.88	1.75	2.797	IO					5.30
24.367	0.88	1.75	2.796	IO					5.30
24.383	0.87	1.74	2.795	O					5.30
24.400	0.87	1.74	2.793	O					5.30
24.417	0.87	1.74	2.792	O					5.30
24.433	0.86	1.73	2.791	O					5.29
24.450	0.86	1.73	2.790	O					5.29
24.467	0.86	1.72	2.789	O					5.29
24.483	0.85	1.72	2.787	O					5.29
24.500	0.85	1.71	2.786	O					5.29
24.517	0.84	1.71	2.785	O					5.29
24.533	0.84	1.71	2.784	O					5.29
24.550	0.84	1.70	2.783	O					5.29
24.567	0.83	1.70	2.781	O					5.28
24.583	0.83	1.69	2.780	O					5.28
24.600	0.83	1.69	2.779	O					5.28
24.617	0.82	1.68	2.778	O					5.28
24.633	0.82	1.68	2.777	O					5.28
24.650	0.82	1.68	2.775	O					5.28
24.667	0.81	1.67	2.774	O					5.28
24.683	0.81	1.67	2.773	O					5.28
24.700	0.81	1.66	2.772	O					5.27
24.717	0.80	1.66	2.771	O					5.27
24.733	0.80	1.66	2.770	O					5.27
24.750	0.80	1.65	2.768	O					5.27
24.767	0.79	1.65	2.767	O					5.27
24.783	0.79	1.64	2.766	O					5.27
24.800	0.79	1.64	2.765	O					5.27

24.817	0.78	1.63	2.764	0					5.26
24.833	0.78	1.63	2.763	0					5.26
24.850	0.78	1.63	2.761	0					5.26
24.867	0.77	1.62	2.760	0					5.26
24.883	0.77	1.62	2.759	0					5.26
24.900	0.77	1.61	2.758	0					5.26
24.917	0.76	1.61	2.757	0					5.26
24.933	0.76	1.60	2.756	0					5.26
24.950	0.76	1.60	2.754	0					5.25
24.967	0.75	1.60	2.753	0					5.25
24.983	0.75	1.59	2.752	0					5.25
25.000	0.75	1.59	2.751	0					5.25
25.017	0.74	1.58	2.750	0					5.25
25.033	0.74	1.58	2.749	0					5.25
25.050	0.74	1.58	2.747	0					5.25
25.067	0.73	1.57	2.746	0					5.25
25.083	0.73	1.57	2.745	0					5.24
25.100	0.73	1.56	2.744	0					5.24
25.117	0.72	1.56	2.743	0					5.24
25.133	0.72	1.55	2.742	0					5.24
25.150	0.72	1.55	2.740	0					5.24
25.167	0.72	1.55	2.739	0					5.24
25.183	0.71	1.54	2.738	0					5.24
25.200	0.71	1.54	2.737	0					5.24
25.217	0.71	1.53	2.736	0					5.23
25.233	0.70	1.53	2.735	0					5.23
25.250	0.70	1.53	2.734	0					5.23
25.267	0.70	1.52	2.732	0					5.23
25.283	0.69	1.52	2.731	0					5.23
25.300	0.69	1.51	2.730	0					5.23
25.317	0.69	1.51	2.729	0					5.23
25.333	0.69	1.51	2.728	0					5.23
25.350	0.68	1.50	2.727	0					5.22
25.367	0.68	1.50	2.726	0					5.22
25.383	0.68	1.49	2.725	0					5.22
25.400	0.67	1.49	2.723	0					5.22
25.417	0.67	1.49	2.722	0					5.22
25.433	0.67	1.48	2.721	0					5.22
25.450	0.67	1.48	2.720	0					5.22
25.467	0.66	1.47	2.719	0					5.22
25.483	0.66	1.47	2.718	0					5.22
25.500	0.66	1.47	2.717	0					5.21
25.517	0.65	1.46	2.716	0					5.21
25.533	0.65	1.46	2.715	0					5.21
25.550	0.65	1.45	2.713	0					5.21
25.567	0.65	1.45	2.712	0					5.21
25.583	0.64	1.45	2.711	0					5.21
25.600	0.64	1.44	2.710	0					5.21
25.617	0.64	1.44	2.709	0					5.21
25.633	0.63	1.43	2.708	0					5.20
25.650	0.63	1.43	2.707	0					5.20
25.667	0.63	1.43	2.706	0					5.20
25.683	0.63	1.42	2.705	0					5.20
25.700	0.62	1.42	2.703	0					5.20
25.717	0.62	1.41	2.702	0					5.20
25.733	0.62	1.41	2.701	0					5.20
25.750	0.62	1.41	2.700	0					5.20
25.767	0.61	1.40	2.699	0					5.19
25.783	0.61	1.40	2.698	0					5.19
25.800	0.61	1.39	2.697	0					5.19
25.817	0.61	1.39	2.696	0					5.19
25.833	0.60	1.39	2.695	0					5.19
25.850	0.60	1.38	2.694	0					5.19
25.867	0.60	1.38	2.693	0					5.19
25.883	0.60	1.38	2.692	0					5.19
25.900	0.59	1.37	2.690	0					5.19
25.917	0.59	1.37	2.689	0					5.18
25.933	0.59	1.36	2.688	0					5.18
25.950	0.59	1.36	2.687	0					5.18
25.967	0.58	1.36	2.686	0					5.18
25.983	0.58	1.35	2.685	0					5.18

26.000	0.58	1.35	2.684	0					5.18
26.017	0.58	1.34	2.683	0					5.18
26.033	0.57	1.34	2.682	0					5.18
26.050	0.57	1.34	2.681	0					5.17
26.067	0.57	1.33	2.680	0					5.17
26.083	0.57	1.33	2.679	0					5.17
26.100	0.56	1.33	2.678	0					5.17
26.117	0.56	1.32	2.677	0					5.17
26.133	0.56	1.32	2.676	0					5.17
26.150	0.56	1.31	2.675	0					5.17
26.167	0.55	1.31	2.674	0					5.17
26.183	0.55	1.31	2.673	0					5.17
26.200	0.55	1.30	2.671	0					5.16
26.217	0.55	1.30	2.670	0					5.16
26.233	0.54	1.30	2.669	0					5.16
26.250	0.54	1.29	2.668	0					5.16
26.267	0.54	1.29	2.667	0					5.16
26.283	0.54	1.28	2.666	0					5.16
26.300	0.54	1.28	2.665	0					5.16
26.317	0.53	1.28	2.664	0					5.16
26.333	0.53	1.27	2.663	0					5.16
26.350	0.53	1.27	2.662	0					5.15
26.367	0.53	1.27	2.661	0					5.15
26.383	0.52	1.26	2.660	0					5.15
26.400	0.52	1.26	2.659	0					5.15
26.417	0.52	1.26	2.658	0					5.15
26.433	0.52	1.25	2.657	0					5.15
26.450	0.52	1.25	2.656	0					5.15
26.467	0.51	1.24	2.655	0					5.15
26.483	0.51	1.24	2.654	0					5.15
26.500	0.51	1.24	2.653	0					5.14
26.517	0.51	1.23	2.652	0					5.14
26.533	0.50	1.23	2.651	0					5.14
26.550	0.50	1.23	2.650	0					5.14
26.567	0.50	1.22	2.649	0					5.14
26.583	0.50	1.22	2.648	0					5.14
26.600	0.50	1.22	2.647	0					5.14
26.617	0.49	1.21	2.646	0					5.14
26.633	0.49	1.21	2.645	0					5.14
26.650	0.49	1.21	2.644	0					5.13
26.667	0.49	1.20	2.643	0					5.13
26.683	0.49	1.20	2.642	0					5.13
26.700	0.48	1.19	2.641	0					5.13
26.717	0.48	1.19	2.640	0					5.13
26.733	0.48	1.19	2.639	0					5.13
26.750	0.48	1.18	2.638	0					5.13
26.767	0.47	1.18	2.637	0					5.13
26.783	0.47	1.18	2.636	0					5.13
26.800	0.47	1.17	2.635	0					5.13
26.817	0.47	1.17	2.634	0					5.12
26.833	0.47	1.17	2.633	0					5.12
26.850	0.46	1.16	2.632	0					5.12
26.867	0.46	1.16	2.631	0					5.12
26.883	0.46	1.16	2.631	0					5.12
26.900	0.46	1.15	2.630	0					5.12
26.917	0.46	1.15	2.629	0					5.12
26.933	0.46	1.15	2.628	0					5.12
26.950	0.45	1.14	2.627	0					5.12
26.967	0.45	1.14	2.626	0					5.11
26.983	0.45	1.14	2.625	0					5.11
27.000	0.45	1.13	2.624	0					5.11
27.017	0.45	1.13	2.623	0					5.11
27.033	0.44	1.13	2.622	0					5.11
27.050	0.44	1.12	2.621	0					5.11
27.067	0.44	1.12	2.620	0					5.11
27.083	0.44	1.12	2.619	0					5.11
27.100	0.44	1.11	2.618	0					5.11
27.117	0.43	1.11	2.617	0					5.11
27.133	0.43	1.11	2.616	0					5.10
27.150	0.43	1.10	2.615	0					5.10
27.167	0.43	1.10	2.615	0					5.10

27.183	0.43	1.10	2.614	0					5.10
27.200	0.43	1.09	2.613	0					5.10
27.217	0.42	1.09	2.612	0					5.10
27.233	0.42	1.09	2.611	0					5.10
27.250	0.42	1.08	2.610	0					5.10
27.267	0.42	1.08	2.609	0					5.10
27.283	0.42	1.08	2.608	0					5.10
27.300	0.41	1.07	2.607	0					5.09
27.317	0.41	1.07	2.606	0					5.09
27.333	0.41	1.07	2.605	0					5.09
27.350	0.41	1.06	2.605	0					5.09
27.367	0.41	1.06	2.604	0					5.09
27.383	0.41	1.06	2.603	0					5.09
27.400	0.40	1.05	2.602	0					5.09
27.417	0.40	1.05	2.601	0					5.09
27.433	0.40	1.05	2.600	0					5.09
27.450	0.40	1.04	2.599	0					5.09
27.467	0.40	1.04	2.598	0					5.09
27.483	0.40	1.04	2.597	0					5.08
27.500	0.39	1.03	2.596	0					5.08
27.517	0.39	1.03	2.596	0					5.08
27.533	0.39	1.03	2.595	0					5.08
27.550	0.39	1.02	2.594	0					5.08
27.567	0.39	1.02	2.593	0					5.08
27.583	0.39	1.02	2.592	0					5.08
27.600	0.38	1.02	2.591	0					5.08
27.617	0.38	1.01	2.590	0					5.08
27.633	0.38	1.01	2.589	0					5.08
27.650	0.38	1.01	2.589	0					5.07
27.667	0.38	1.00	2.588	0					5.07
27.683	0.38	1.00	2.587	0					5.07
27.700	0.37	1.00	2.586	0					5.07
27.717	0.37	0.99	2.585	0					5.07
27.733	0.37	0.99	2.584	0					5.07
27.750	0.37	0.99	2.583	0					5.07
27.767	0.37	0.98	2.583	0					5.07
27.783	0.37	0.98	2.582	0					5.07
27.800	0.36	0.98	2.581	0					5.07
27.817	0.36	0.98	2.580	0					5.07
27.833	0.36	0.97	2.579	0					5.06
27.850	0.36	0.97	2.578	0					5.06
27.867	0.36	0.97	2.578	0					5.06
27.883	0.36	0.96	2.577	0					5.06
27.900	0.36	0.96	2.576	0					5.06
27.917	0.35	0.96	2.575	0					5.06
27.933	0.35	0.95	2.574	0					5.06
27.950	0.35	0.95	2.573	0					5.06
27.967	0.35	0.95	2.573	0					5.06
27.983	0.35	0.95	2.572	0					5.06
28.000	0.35	0.94	2.571	0					5.06
28.017	0.34	0.94	2.570	0					5.05
28.033	0.34	0.94	2.569	0					5.05
28.050	0.34	0.93	2.568	0					5.05
28.067	0.34	0.93	2.568	0					5.05
28.083	0.34	0.93	2.567	0					5.05
28.100	0.34	0.93	2.566	0					5.05
28.117	0.34	0.92	2.565	0					5.05
28.133	0.33	0.92	2.564	0					5.05
28.150	0.33	0.92	2.564	0					5.05
28.167	0.33	0.91	2.563	0					5.05
28.183	0.33	0.91	2.562	0					5.05
28.200	0.33	0.91	2.561	0					5.04
28.217	0.33	0.90	2.560	0					5.04
28.233	0.33	0.90	2.560	0					5.04
28.250	0.32	0.90	2.559	0					5.04
28.267	0.32	0.90	2.558	0					5.04
28.283	0.32	0.89	2.557	0					5.04
28.300	0.32	0.89	2.556	0					5.04
28.317	0.32	0.89	2.556	0					5.04
28.333	0.32	0.89	2.555	0					5.04
28.350	0.32	0.88	2.554	0					5.04

28.367	0.32	0.88	2.553	0					5.04
28.383	0.31	0.88	2.553	0					5.04
28.400	0.31	0.87	2.552	0					5.03
28.417	0.31	0.87	2.551	0					5.03
28.433	0.31	0.87	2.550	0					5.03
28.450	0.31	0.87	2.549	0					5.03
28.467	0.31	0.86	2.549	0					5.03
28.483	0.31	0.86	2.548	0					5.03
28.500	0.30	0.86	2.547	0					5.03
28.517	0.30	0.85	2.546	0					5.03
28.533	0.30	0.85	2.546	0					5.03
28.550	0.30	0.85	2.545	0					5.03
28.567	0.30	0.85	2.544	0					5.03
28.583	0.30	0.84	2.543	0					5.03
28.600	0.30	0.84	2.543	0					5.02
28.617	0.30	0.84	2.542	0					5.02
28.633	0.29	0.84	2.541	0					5.02
28.650	0.29	0.83	2.540	0					5.02
28.667	0.29	0.83	2.540	0					5.02
28.683	0.29	0.83	2.539	0					5.02
28.700	0.29	0.83	2.538	0					5.02
28.717	0.29	0.82	2.537	0					5.02
28.733	0.29	0.82	2.537	0					5.02
28.750	0.29	0.82	2.536	0					5.02
28.767	0.28	0.81	2.535	0					5.02
28.783	0.28	0.81	2.535	0					5.02
28.800	0.28	0.81	2.534	0					5.01
28.817	0.28	0.81	2.533	0					5.01
28.833	0.28	0.80	2.532	0					5.01
28.850	0.28	0.80	2.532	0					5.01
28.867	0.28	0.80	2.531	0					5.01
28.883	0.28	0.80	2.530	0					5.01
28.900	0.28	0.79	2.529	0					5.01
28.917	0.27	0.79	2.529	0					5.01
28.933	0.27	0.79	2.528	0					5.01
28.950	0.27	0.79	2.527	0					5.01
28.967	0.27	0.78	2.527	0					5.01
28.983	0.27	0.78	2.526	0					5.01
29.000	0.27	0.78	2.525	0					5.01
29.017	0.27	0.78	2.525	0					5.00
29.033	0.27	0.77	2.524	0					5.00
29.050	0.26	0.77	2.523	0					5.00
29.067	0.26	0.77	2.522	0					5.00
29.083	0.26	0.77	2.522	0					5.00
29.100	0.26	0.76	2.521	0					5.00
29.117	0.26	0.76	2.520	0					5.00
29.133	0.26	0.76	2.520	0					5.00
29.150	0.26	0.76	2.519	0					5.00
29.167	0.26	0.76	2.518	0					5.00
29.183	0.26	0.76	2.518	0					5.00
29.200	0.25	0.76	2.517	0					5.00
29.217	0.25	0.76	2.516	0					5.00
29.233	0.25	0.76	2.515	0					4.99
29.250	0.25	0.76	2.515	0					4.99
29.267	0.25	0.76	2.514	0					4.99
29.283	0.25	0.76	2.513	0					4.99
29.300	0.25	0.76	2.513	0					4.99
29.317	0.25	0.76	2.512	0					4.99
29.333	0.25	0.76	2.511	0					4.99
29.350	0.25	0.76	2.511	0					4.99
29.367	0.24	0.76	2.510	0					4.99
29.383	0.24	0.76	2.509	0					4.99
29.400	0.24	0.76	2.508	0					4.99
29.417	0.24	0.76	2.508	0					4.99
29.433	0.24	0.76	2.507	0					4.98
29.450	0.24	0.76	2.506	0					4.98
29.467	0.24	0.76	2.506	0					4.98
29.483	0.24	0.76	2.505	0					4.98
29.500	0.24	0.76	2.504	0					4.98
29.517	0.23	0.76	2.503	0					4.98
29.533	0.23	0.76	2.503	0					4.98

29.550	0.23	0.76	2.502	0					4.98
29.567	0.23	0.76	2.501	0					4.98
29.583	0.23	0.76	2.500	0					4.98
29.600	0.23	0.76	2.500	0					4.98
29.617	0.23	0.76	2.499	0					4.98
29.633	0.23	0.76	2.498	0					4.97
29.650	0.23	0.76	2.498	0					4.97
29.667	0.23	0.76	2.497	0					4.97
29.683	0.23	0.76	2.496	0					4.97
29.700	0.22	0.76	2.495	0					4.97
29.717	0.22	0.76	2.495	0					4.97
29.733	0.22	0.76	2.494	0					4.97
29.750	0.22	0.76	2.493	0					4.97
29.767	0.22	0.76	2.492	0					4.97
29.783	0.22	0.76	2.492	0					4.97
29.800	0.22	0.76	2.491	0					4.97
29.817	0.22	0.76	2.490	0					4.97
29.833	0.22	0.76	2.489	0					4.96
29.850	0.22	0.76	2.489	0					4.96
29.867	0.21	0.76	2.488	0					4.96
29.883	0.21	0.76	2.487	0					4.96
29.900	0.21	0.76	2.486	0					4.96
29.917	0.21	0.76	2.486	0					4.96
29.933	0.21	0.76	2.485	0					4.96
29.950	0.21	0.76	2.484	0					4.96
29.967	0.21	0.76	2.483	0					4.96
29.983	0.21	0.76	2.483	0					4.96
30.000	0.21	0.76	2.482	0					4.96
30.017	0.21	0.76	2.481	0					4.96
30.033	0.21	0.76	2.480	0					4.95
30.050	0.20	0.76	2.480	0					4.95
30.067	0.20	0.76	2.479	0					4.95
30.083	0.20	0.76	2.478	0					4.95
30.100	0.20	0.76	2.477	0					4.95
30.117	0.20	0.76	2.477	0					4.95
30.133	0.20	0.76	2.476	0					4.95
30.150	0.20	0.76	2.475	0					4.95
30.167	0.20	0.76	2.474	0					4.95
30.183	0.20	0.76	2.473	0					4.95
30.200	0.20	0.76	2.473	0					4.95
30.217	0.20	0.76	2.472	0					4.94
30.233	0.20	0.76	2.471	0					4.94
30.250	0.19	0.76	2.470	0					4.94
30.267	0.19	0.76	2.470	0					4.94
30.283	0.19	0.76	2.469	0					4.94
30.300	0.19	0.76	2.468	0					4.94
30.317	0.19	0.76	2.467	0					4.94
30.333	0.19	0.76	2.467	0					4.94
30.350	0.19	0.76	2.466	0					4.94
30.367	0.19	0.76	2.465	0					4.94
30.383	0.19	0.76	2.464	0					4.94
30.400	0.19	0.76	2.463	0					4.93
30.417	0.19	0.76	2.463	0					4.93
30.433	0.19	0.76	2.462	0					4.93
30.450	0.18	0.76	2.461	0					4.93
30.467	0.18	0.76	2.460	0					4.93
30.483	0.18	0.76	2.459	0					4.93
30.500	0.18	0.76	2.459	0					4.93
30.517	0.18	0.76	2.458	0					4.93
30.533	0.18	0.76	2.457	0					4.93
30.550	0.18	0.76	2.456	0					4.93
30.567	0.18	0.76	2.455	0					4.93
30.583	0.18	0.76	2.455	0					4.92
30.600	0.18	0.76	2.454	0					4.92
30.617	0.18	0.76	2.453	0					4.92
30.633	0.18	0.76	2.452	0					4.92
30.650	0.18	0.76	2.451	0					4.92
30.667	0.17	0.76	2.451	0					4.92
30.683	0.17	0.76	2.450	0					4.92
30.700	0.17	0.76	2.449	0					4.92
30.717	0.17	0.76	2.448	0					4.92

30.733	0.17	0.76	2.447	0					4.92
30.750	0.17	0.76	2.447	0					4.92
30.767	0.17	0.76	2.446	0					4.91
30.783	0.17	0.76	2.445	0					4.91
30.800	0.17	0.76	2.444	0					4.91
30.817	0.17	0.76	2.443	0					4.91
30.833	0.17	0.76	2.443	0					4.91
30.850	0.17	0.76	2.442	0					4.91
30.867	0.17	0.76	2.441	0					4.91
30.883	0.17	0.76	2.440	0					4.91
30.900	0.16	0.76	2.439	0					4.91
30.917	0.16	0.76	2.439	0					4.91
30.933	0.16	0.76	2.438	0					4.91
30.950	0.16	0.76	2.437	0					4.90
30.967	0.16	0.76	2.436	0					4.90
30.983	0.16	0.76	2.435	0					4.90
31.000	0.16	0.76	2.434	0					4.90
31.017	0.16	0.76	2.434	0					4.90
31.033	0.16	0.76	2.433	0					4.90
31.050	0.16	0.76	2.432	0					4.90
31.067	0.16	0.76	2.431	0					4.90
31.083	0.16	0.76	2.430	0					4.90
31.100	0.16	0.76	2.430	0					4.90
31.117	0.16	0.76	2.429	0					4.89
31.133	0.16	0.76	2.428	0					4.89
31.150	0.15	0.76	2.427	0					4.89
31.167	0.15	0.76	2.426	0					4.89
31.183	0.15	0.76	2.425	0					4.89
31.200	0.15	0.76	2.425	0					4.89
31.217	0.15	0.76	2.424	0					4.89
31.233	0.15	0.76	2.423	0					4.89
31.250	0.15	0.76	2.422	0					4.89
31.267	0.15	0.76	2.421	0					4.89
31.283	0.15	0.76	2.420	0					4.89
31.300	0.15	0.76	2.420	0					4.88
31.317	0.15	0.76	2.419	0					4.88
31.333	0.15	0.76	2.418	0					4.88
31.350	0.15	0.76	2.417	0					4.88
31.367	0.15	0.76	2.416	0					4.88
31.383	0.15	0.76	2.415	0					4.88
31.400	0.14	0.76	2.415	0					4.88
31.417	0.14	0.76	2.414	0					4.88
31.433	0.14	0.76	2.413	0					4.88
31.450	0.14	0.76	2.412	0					4.88
31.467	0.14	0.75	2.411	0					4.87
31.483	0.14	0.75	2.410	0					4.87
31.500	0.14	0.75	2.409	0					4.87
31.517	0.14	0.75	2.409	0					4.87
31.533	0.14	0.75	2.408	0					4.87
31.550	0.14	0.75	2.407	0					4.87
31.567	0.14	0.75	2.406	0					4.87
31.583	0.14	0.75	2.405	0					4.87
31.600	0.14	0.75	2.404	0					4.87
31.617	0.14	0.75	2.404	0					4.87
31.633	0.14	0.75	2.403	0					4.86
31.650	0.14	0.75	2.402	0					4.86
31.667	0.14	0.75	2.401	0					4.86
31.683	0.13	0.75	2.400	0					4.86
31.700	0.13	0.75	2.399	0					4.86
31.717	0.13	0.75	2.398	0					4.86
31.733	0.13	0.75	2.398	0					4.86
31.750	0.13	0.75	2.397	0					4.86
31.767	0.13	0.75	2.396	0					4.86
31.783	0.13	0.75	2.395	0					4.86
31.800	0.13	0.75	2.394	0					4.85
31.817	0.13	0.75	2.393	0					4.85
31.833	0.13	0.75	2.392	0					4.85
31.850	0.13	0.75	2.392	0					4.85
31.867	0.13	0.75	2.391	0					4.85
31.883	0.13	0.75	2.390	0					4.85
31.900	0.13	0.75	2.389	0					4.85

31.917	0.13	0.75	2.388	0					4.85
31.933	0.13	0.75	2.387	0					4.85
31.950	0.13	0.75	2.386	0					4.85
31.967	0.13	0.75	2.386	0					4.84
31.983	0.12	0.75	2.385	0					4.84
32.000	0.12	0.75	2.384	0					4.84
32.017	0.12	0.75	2.383	0					4.84
32.033	0.12	0.75	2.382	0					4.84
32.050	0.12	0.75	2.381	0					4.84
32.067	0.12	0.75	2.380	0					4.84
32.083	0.12	0.75	2.379	0					4.84
32.100	0.12	0.75	2.379	0					4.84
32.117	0.12	0.75	2.378	0					4.84
32.133	0.12	0.75	2.377	0					4.83
32.150	0.12	0.75	2.376	0					4.83
32.167	0.12	0.75	2.375	0					4.83
32.183	0.12	0.75	2.374	0					4.83
32.200	0.12	0.75	2.373	0					4.83
32.217	0.12	0.75	2.372	0					4.83
32.233	0.12	0.75	2.372	0					4.83
32.250	0.12	0.75	2.371	0					4.83
32.267	0.12	0.75	2.370	0					4.83
32.283	0.12	0.75	2.369	0					4.83
32.300	0.12	0.75	2.368	0					4.82
32.317	0.11	0.75	2.367	0					4.82
32.333	0.11	0.75	2.366	0					4.82
32.350	0.11	0.75	2.365	0					4.82
32.367	0.11	0.75	2.365	0					4.82
32.383	0.11	0.75	2.364	0					4.82
32.400	0.11	0.75	2.363	0					4.82
32.417	0.11	0.75	2.362	0					4.82
32.433	0.11	0.75	2.361	0					4.82
32.450	0.11	0.75	2.360	0					4.82
32.467	0.11	0.75	2.359	0					4.81
32.483	0.11	0.75	2.358	0					4.81
32.500	0.11	0.75	2.357	0					4.81
32.517	0.11	0.75	2.357	0					4.81
32.533	0.11	0.75	2.356	0					4.81
32.550	0.11	0.75	2.355	0					4.81
32.567	0.11	0.75	2.354	0					4.81
32.583	0.11	0.75	2.353	0					4.81
32.600	0.11	0.75	2.352	0					4.81
32.617	0.11	0.75	2.351	0					4.81
32.633	0.11	0.75	2.350	0					4.80
32.650	0.11	0.75	2.349	0					4.80
32.667	0.10	0.75	2.349	0					4.80
32.683	0.10	0.75	2.348	0					4.80
32.700	0.10	0.75	2.347	0					4.80
32.717	0.10	0.75	2.346	0					4.80
32.733	0.10	0.75	2.345	0					4.80
32.750	0.10	0.75	2.344	0					4.80
32.767	0.10	0.75	2.343	0					4.80
32.783	0.10	0.75	2.342	0					4.80
32.800	0.10	0.75	2.341	0					4.79
32.817	0.10	0.75	2.341	0					4.79
32.833	0.10	0.75	2.340	0					4.79
32.850	0.10	0.75	2.339	0					4.79
32.867	0.10	0.75	2.338	0					4.79
32.883	0.10	0.75	2.337	0					4.79
32.900	0.10	0.75	2.336	0					4.79
32.917	0.10	0.75	2.335	0					4.79
32.933	0.10	0.75	2.334	0					4.79
32.950	0.10	0.75	2.333	0					4.78
32.967	0.10	0.75	2.332	0					4.78
32.983	0.10	0.75	2.332	0					4.78
33.000	0.10	0.75	2.331	0					4.78
33.017	0.10	0.75	2.330	0					4.78
33.033	0.10	0.75	2.329	0					4.78
33.050	0.10	0.75	2.328	0					4.78
33.067	0.09	0.75	2.327	0					4.78
33.083	0.09	0.75	2.326	0					4.78

33.100	0.09	0.75	2.325	0					4.78
33.117	0.09	0.75	2.324	0					4.77
33.133	0.09	0.75	2.323	0					4.77
33.150	0.09	0.75	2.323	0					4.77
33.167	0.09	0.75	2.322	0					4.77
33.183	0.09	0.75	2.321	0					4.77
33.200	0.09	0.75	2.320	0					4.77
33.217	0.09	0.75	2.319	0					4.77
33.233	0.09	0.75	2.318	0					4.77
33.250	0.09	0.75	2.317	0					4.77
33.267	0.09	0.75	2.316	0					4.76
33.283	0.09	0.75	2.315	0					4.76
33.300	0.09	0.75	2.314	0					4.76
33.317	0.09	0.75	2.313	0					4.76
33.333	0.09	0.75	2.313	0					4.76
33.350	0.09	0.75	2.312	0					4.76
33.367	0.09	0.75	2.311	0					4.76
33.383	0.09	0.75	2.310	0					4.76
33.400	0.09	0.75	2.309	0					4.76
33.417	0.09	0.75	2.308	0					4.76
33.433	0.09	0.75	2.307	0					4.75
33.450	0.09	0.75	2.306	0					4.75
33.467	0.09	0.75	2.305	0					4.75
33.483	0.09	0.75	2.304	0					4.75
33.500	0.08	0.75	2.303	0					4.75
33.517	0.08	0.75	2.302	0					4.75
33.533	0.08	0.75	2.302	0					4.75
33.550	0.08	0.75	2.301	0					4.75
33.567	0.08	0.75	2.300	0					4.75
33.583	0.08	0.75	2.299	0					4.74
33.600	0.08	0.75	2.298	0					4.74
33.617	0.08	0.75	2.297	0					4.74
33.633	0.08	0.75	2.296	0					4.74
33.650	0.08	0.75	2.295	0					4.74
33.667	0.08	0.75	2.294	0					4.74
33.683	0.08	0.75	2.293	0					4.74
33.700	0.08	0.75	2.292	0					4.74
33.717	0.08	0.75	2.291	0					4.74
33.733	0.08	0.75	2.291	0					4.74
33.750	0.08	0.75	2.290	0					4.73
33.767	0.08	0.75	2.289	0					4.73
33.783	0.08	0.75	2.288	0					4.73
33.800	0.08	0.75	2.287	0					4.73
33.817	0.08	0.75	2.286	0					4.73
33.833	0.08	0.75	2.285	0					4.73
33.850	0.08	0.75	2.284	0					4.73
33.867	0.08	0.75	2.283	0					4.73
33.883	0.08	0.75	2.282	0					4.73
33.900	0.08	0.75	2.281	0					4.72
33.917	0.08	0.75	2.280	0					4.72
33.933	0.08	0.75	2.279	0					4.72
33.950	0.08	0.75	2.278	0					4.72
33.967	0.08	0.75	2.278	0					4.72
33.983	0.07	0.75	2.277	0					4.72
34.000	0.07	0.75	2.276	0					4.72
34.017	0.07	0.75	2.275	0					4.72
34.033	0.07	0.75	2.274	0					4.72
34.050	0.07	0.75	2.273	0					4.71
34.067	0.07	0.75	2.272	0					4.71
34.083	0.07	0.75	2.271	0					4.71
34.100	0.07	0.75	2.270	0					4.71
34.117	0.07	0.75	2.269	0					4.71
34.133	0.07	0.75	2.268	0					4.71
34.150	0.07	0.75	2.267	0					4.71
34.167	0.07	0.75	2.266	0					4.71
34.183	0.07	0.75	2.265	0					4.71
34.200	0.07	0.75	2.265	0					4.71
34.217	0.07	0.75	2.264	0					4.70
34.233	0.07	0.75	2.263	0					4.70
34.250	0.07	0.75	2.262	0					4.70
34.267	0.07	0.75	2.261	0					4.70

34.283	0.07	0.75	2.260	0					4.70
34.300	0.07	0.75	2.259	0					4.70
34.317	0.07	0.75	2.258	0					4.70
34.333	0.07	0.75	2.257	0					4.70
34.350	0.07	0.75	2.256	0					4.70
34.367	0.07	0.75	2.255	0					4.69
34.383	0.07	0.75	2.254	0					4.69
34.400	0.07	0.75	2.253	0					4.69
34.417	0.07	0.75	2.252	0					4.69
34.433	0.07	0.75	2.251	0					4.69
34.450	0.07	0.75	2.250	0					4.69
34.467	0.07	0.75	2.250	0					4.69
34.483	0.07	0.75	2.249	0					4.69
34.500	0.07	0.75	2.248	0					4.69
34.517	0.07	0.75	2.247	0					4.68
34.533	0.06	0.75	2.246	0					4.68
34.550	0.06	0.75	2.245	0					4.68
34.567	0.06	0.75	2.244	0					4.68
34.583	0.06	0.75	2.243	0					4.68
34.600	0.06	0.75	2.242	0					4.68
34.617	0.06	0.75	2.241	0					4.68
34.633	0.06	0.75	2.240	0					4.68
34.650	0.06	0.75	2.239	0					4.68
34.667	0.06	0.75	2.238	0					4.67
34.683	0.06	0.75	2.237	0					4.67
34.700	0.06	0.75	2.236	0					4.67
34.717	0.06	0.75	2.235	0					4.67
34.733	0.06	0.75	2.234	0					4.67
34.750	0.06	0.75	2.234	0					4.67
34.767	0.06	0.75	2.233	0					4.67
34.783	0.06	0.75	2.232	0					4.67
34.800	0.06	0.75	2.231	0					4.67
34.817	0.06	0.75	2.230	0					4.67
34.833	0.06	0.75	2.229	0					4.66
34.850	0.06	0.75	2.228	0					4.66
34.867	0.06	0.75	2.227	0					4.66
34.883	0.06	0.75	2.226	0					4.66
34.900	0.06	0.75	2.225	0					4.66
34.917	0.06	0.75	2.224	0					4.66
34.933	0.06	0.75	2.223	0					4.66
34.950	0.06	0.75	2.222	0					4.66
34.967	0.06	0.75	2.221	0					4.66
34.983	0.06	0.75	2.220	0					4.65
35.000	0.06	0.75	2.219	0					4.65
35.017	0.06	0.75	2.218	0					4.65
35.033	0.06	0.75	2.217	0					4.65
35.050	0.06	0.75	2.217	0					4.65
35.067	0.06	0.75	2.216	0					4.65
35.083	0.06	0.75	2.215	0					4.65
35.100	0.06	0.75	2.214	0					4.65
35.117	0.06	0.75	2.213	0					4.65
35.133	0.06	0.75	2.212	0					4.64
35.150	0.06	0.75	2.211	0					4.64
35.167	0.06	0.75	2.210	0					4.64
35.183	0.06	0.75	2.209	0					4.64
35.200	0.05	0.75	2.208	0					4.64
35.217	0.05	0.75	2.207	0					4.64
35.233	0.05	0.75	2.206	0					4.64
35.250	0.05	0.75	2.205	0					4.64
35.267	0.05	0.75	2.204	0					4.64
35.283	0.05	0.75	2.203	0					4.63
35.300	0.05	0.75	2.202	0					4.63
35.317	0.05	0.75	2.201	0					4.63
35.333	0.05	0.75	2.200	0					4.63
35.350	0.05	0.75	2.199	0					4.63
35.367	0.05	0.75	2.198	0					4.63
35.383	0.05	0.75	2.197	0					4.63
35.400	0.05	0.75	2.197	0					4.63
35.417	0.05	0.75	2.196	0					4.63
35.433	0.05	0.74	2.195	0					4.62
35.450	0.05	0.74	2.194	0					4.62

35.467	0.05	0.74	2.193	0					4.62
35.483	0.05	0.74	2.192	0					4.62
35.500	0.05	0.74	2.191	0					4.62
35.517	0.05	0.74	2.190	0					4.62
35.533	0.05	0.74	2.189	0					4.62
35.550	0.05	0.74	2.188	0					4.62
35.567	0.05	0.74	2.187	0					4.62
35.583	0.05	0.74	2.186	0					4.61
35.600	0.05	0.74	2.185	0					4.61
35.617	0.05	0.74	2.184	0					4.61
35.633	0.05	0.74	2.183	0					4.61
35.650	0.05	0.74	2.182	0					4.61
35.667	0.05	0.74	2.181	0					4.61
35.683	0.05	0.74	2.180	0					4.61
35.700	0.05	0.74	2.179	0					4.61
35.717	0.05	0.74	2.178	0					4.61
35.733	0.05	0.74	2.177	0					4.60
35.750	0.05	0.74	2.176	0					4.60
35.767	0.05	0.74	2.175	0					4.60
35.783	0.05	0.74	2.175	0					4.60
35.800	0.05	0.74	2.174	0					4.60
35.817	0.05	0.74	2.173	0					4.60
35.833	0.05	0.74	2.172	0					4.60
35.850	0.05	0.74	2.171	0					4.60
35.867	0.05	0.74	2.170	0					4.60
35.883	0.05	0.74	2.169	0					4.59
35.900	0.05	0.74	2.168	0					4.59
35.917	0.05	0.74	2.167	0					4.59
35.933	0.05	0.74	2.166	0					4.59
35.950	0.05	0.74	2.165	0					4.59
35.967	0.05	0.74	2.164	0					4.59
35.983	0.04	0.74	2.163	0					4.59
36.000	0.04	0.74	2.162	0					4.59
36.017	0.04	0.74	2.161	0					4.59
36.033	0.04	0.74	2.160	0					4.58
36.050	0.04	0.74	2.159	0					4.58
36.067	0.04	0.74	2.158	0					4.58
36.083	0.04	0.74	2.157	0					4.58
36.100	0.04	0.74	2.156	0					4.58
36.117	0.04	0.74	2.155	0					4.58
36.133	0.04	0.74	2.154	0					4.58
36.150	0.04	0.74	2.153	0					4.58
36.167	0.04	0.74	2.152	0					4.58
36.183	0.04	0.74	2.151	0					4.57
36.200	0.04	0.74	2.150	0					4.57
36.217	0.04	0.74	2.149	0					4.57
36.233	0.04	0.74	2.149	0					4.57
36.250	0.04	0.74	2.148	0					4.57
36.267	0.04	0.74	2.147	0					4.57
36.283	0.04	0.74	2.146	0					4.57
36.300	0.04	0.74	2.145	0					4.57
36.317	0.04	0.74	2.144	0					4.57
36.333	0.04	0.74	2.143	0					4.56
36.350	0.04	0.74	2.142	0					4.56
36.367	0.04	0.74	2.141	0					4.56
36.383	0.04	0.74	2.140	0					4.56
36.400	0.04	0.74	2.139	0					4.56
36.417	0.04	0.74	2.138	0					4.56
36.433	0.04	0.74	2.137	0					4.56
36.450	0.04	0.74	2.136	0					4.56
36.467	0.04	0.74	2.135	0					4.56
36.483	0.04	0.74	2.134	0					4.55
36.500	0.04	0.74	2.133	0					4.55
36.517	0.04	0.74	2.132	0					4.55
36.533	0.04	0.74	2.131	0					4.55
36.550	0.04	0.74	2.130	0					4.55
36.567	0.04	0.74	2.129	0					4.55
36.583	0.04	0.74	2.128	0					4.55
36.600	0.04	0.74	2.127	0					4.55
36.617	0.04	0.74	2.126	0					4.55
36.633	0.04	0.74	2.125	0					4.54

36.650	0.04	0.74	2.124	0					4.54
36.667	0.04	0.74	2.123	0					4.54
36.683	0.04	0.74	2.122	0					4.54
36.700	0.04	0.74	2.121	0					4.54
36.717	0.04	0.74	2.120	0					4.54
36.733	0.04	0.74	2.119	0					4.54
36.750	0.04	0.74	2.119	0					4.54
36.767	0.04	0.74	2.118	0					4.54
36.783	0.04	0.74	2.117	0					4.53
36.800	0.04	0.74	2.116	0					4.53
36.817	0.04	0.74	2.115	0					4.53
36.833	0.04	0.74	2.114	0					4.53
36.850	0.04	0.74	2.113	0					4.53
36.867	0.04	0.74	2.112	0					4.53
36.883	0.04	0.74	2.111	0					4.53
36.900	0.04	0.74	2.110	0					4.53
36.917	0.04	0.74	2.109	0					4.53
36.933	0.04	0.74	2.108	0					4.52
36.950	0.03	0.74	2.107	0					4.52
36.967	0.03	0.74	2.106	0					4.52
36.983	0.03	0.74	2.105	0					4.52
37.000	0.03	0.74	2.104	0					4.52
37.017	0.03	0.74	2.103	0					4.52
37.033	0.03	0.74	2.102	0					4.52
37.050	0.03	0.74	2.101	0					4.52
37.067	0.03	0.74	2.100	0					4.52
37.083	0.03	0.74	2.099	0					4.51
37.100	0.03	0.74	2.098	0					4.51
37.117	0.03	0.74	2.097	0					4.51
37.133	0.03	0.74	2.096	0					4.51
37.150	0.03	0.74	2.095	0					4.51
37.167	0.03	0.74	2.094	0					4.51
37.183	0.03	0.74	2.093	0					4.51
37.200	0.03	0.74	2.092	0					4.51
37.217	0.03	0.74	2.091	0					4.51
37.233	0.03	0.74	2.090	0					4.50
37.250	0.03	0.74	2.089	0					4.50
37.267	0.03	0.74	2.088	0					4.50
37.283	0.03	0.74	2.087	0					4.50
37.300	0.03	0.74	2.086	0					4.50
37.317	0.03	0.74	2.085	0					4.50
37.333	0.03	0.74	2.084	0					4.50
37.350	0.03	0.74	2.083	0					4.50
37.367	0.03	0.74	2.082	0					4.50
37.383	0.03	0.74	2.082	0					4.49
37.400	0.03	0.74	2.081	0					4.49
37.417	0.03	0.74	2.080	0					4.49
37.433	0.03	0.74	2.079	0					4.49
37.450	0.03	0.74	2.078	0					4.49
37.467	0.03	0.74	2.077	0					4.49
37.483	0.03	0.74	2.076	0					4.49
37.500	0.03	0.74	2.075	0					4.49
37.517	0.03	0.74	2.074	0					4.49
37.533	0.03	0.74	2.073	0					4.48
37.550	0.03	0.74	2.072	0					4.48
37.567	0.03	0.74	2.071	0					4.48
37.583	0.03	0.74	2.070	0					4.48
37.600	0.03	0.74	2.069	0					4.48
37.617	0.03	0.74	2.068	0					4.48
37.633	0.03	0.74	2.067	0					4.48
37.650	0.03	0.74	2.066	0					4.48
37.667	0.03	0.74	2.065	0					4.47
37.683	0.03	0.74	2.064	0					4.47
37.700	0.03	0.74	2.063	0					4.47
37.717	0.03	0.74	2.062	0					4.47
37.733	0.03	0.74	2.061	0					4.47
37.750	0.03	0.74	2.060	0					4.47
37.767	0.03	0.74	2.059	0					4.47
37.783	0.03	0.74	2.058	0					4.47
37.800	0.03	0.74	2.057	0					4.47
37.817	0.03	0.74	2.056	0					4.46

37.833	0.03	0.74	2.055	0					4.46
37.850	0.03	0.74	2.054	0					4.46
37.867	0.03	0.74	2.053	0					4.46
37.883	0.03	0.74	2.052	0					4.46
37.900	0.03	0.74	2.051	0					4.46
37.917	0.03	0.74	2.050	0					4.46
37.933	0.03	0.74	2.049	0					4.46
37.950	0.03	0.74	2.048	0					4.46
37.967	0.03	0.74	2.047	0					4.45
37.983	0.03	0.74	2.046	0					4.45
38.000	0.03	0.74	2.045	0					4.45
38.017	0.03	0.74	2.044	0					4.45
38.033	0.03	0.74	2.043	0					4.45
38.050	0.03	0.74	2.042	0					4.45
38.067	0.03	0.74	2.041	0					4.45
38.083	0.03	0.74	2.040	0					4.45
38.100	0.03	0.74	2.039	0					4.45
38.117	0.03	0.74	2.038	0					4.44
38.133	0.03	0.74	2.037	0					4.44
38.150	0.03	0.74	2.037	0					4.44
38.167	0.03	0.74	2.036	0					4.44
38.183	0.03	0.74	2.035	0					4.44
38.200	0.03	0.74	2.034	0					4.44
38.217	0.03	0.74	2.033	0					4.44
38.233	0.03	0.74	2.032	0					4.44
38.250	0.03	0.74	2.031	0					4.44
38.267	0.02	0.74	2.030	0					4.43
38.283	0.02	0.74	2.029	0					4.43
38.300	0.02	0.74	2.028	0					4.43
38.317	0.02	0.74	2.027	0					4.43
38.333	0.02	0.74	2.026	0					4.43
38.350	0.02	0.74	2.025	0					4.43
38.367	0.02	0.74	2.024	0					4.43
38.383	0.02	0.74	2.023	0					4.43
38.400	0.02	0.74	2.022	0					4.43
38.417	0.02	0.74	2.021	0					4.42
38.433	0.02	0.74	2.020	0					4.42
38.450	0.02	0.74	2.019	0					4.42
38.467	0.02	0.74	2.018	0					4.42
38.483	0.02	0.74	2.017	0					4.42
38.500	0.02	0.74	2.016	0					4.42
38.517	0.02	0.74	2.015	0					4.42
38.533	0.02	0.74	2.014	0					4.42
38.550	0.02	0.74	2.013	0					4.41
38.567	0.02	0.74	2.012	0					4.41
38.583	0.02	0.74	2.011	0					4.41
38.600	0.02	0.74	2.010	0					4.41
38.617	0.02	0.74	2.009	0					4.41
38.633	0.02	0.74	2.008	0					4.41
38.650	0.02	0.74	2.007	0					4.41
38.667	0.02	0.74	2.006	0					4.41
38.683	0.02	0.74	2.005	0					4.41
38.700	0.02	0.74	2.004	0					4.40
38.717	0.02	0.74	2.003	0					4.40
38.733	0.02	0.74	2.002	0					4.40
38.750	0.02	0.74	2.001	0					4.40
38.767	0.02	0.74	2.000	0					4.40
38.783	0.02	0.74	1.999	0					4.40
38.800	0.02	0.74	1.998	0					4.40
38.817	0.02	0.74	1.997	0					4.40
38.833	0.02	0.74	1.996	0					4.40
38.850	0.02	0.74	1.995	0					4.39
38.867	0.02	0.74	1.994	0					4.39
38.883	0.02	0.74	1.993	0					4.39
38.900	0.02	0.74	1.992	0					4.39
38.917	0.02	0.74	1.991	0					4.39
38.933	0.02	0.74	1.990	0					4.39
38.950	0.02	0.74	1.989	0					4.39
38.967	0.02	0.74	1.988	0					4.39
38.983	0.02	0.74	1.987	0					4.39
39.000	0.02	0.74	1.986	0					4.38

39.017	0.02	0.74	1.985	0					4.38
39.033	0.02	0.74	1.984	0					4.38
39.050	0.02	0.74	1.983	0					4.38
39.067	0.02	0.74	1.982	0					4.38
39.083	0.02	0.74	1.981	0					4.38
39.100	0.02	0.74	1.980	0					4.38
39.117	0.02	0.74	1.980	0					4.38
39.133	0.02	0.74	1.979	0					4.38
39.150	0.02	0.73	1.978	0					4.37
39.167	0.02	0.73	1.977	0					4.37
39.183	0.02	0.73	1.976	0					4.37
39.200	0.02	0.73	1.975	0					4.37
39.217	0.02	0.73	1.974	0					4.37
39.233	0.02	0.73	1.973	0					4.37
39.250	0.02	0.73	1.972	0					4.37
39.267	0.02	0.73	1.971	0					4.37
39.283	0.02	0.73	1.970	0					4.36
39.300	0.02	0.73	1.969	0					4.36
39.317	0.02	0.73	1.968	0					4.36
39.333	0.02	0.73	1.967	0					4.36
39.350	0.02	0.73	1.966	0					4.36
39.367	0.02	0.73	1.965	0					4.36
39.383	0.02	0.73	1.964	0					4.36
39.400	0.02	0.73	1.963	0					4.36
39.417	0.02	0.73	1.962	0					4.36
39.433	0.02	0.73	1.961	0					4.35
39.450	0.02	0.73	1.960	0					4.35
39.467	0.02	0.73	1.959	0					4.35
39.483	0.02	0.73	1.958	0					4.35
39.500	0.02	0.73	1.957	0					4.35
39.517	0.02	0.73	1.956	0					4.35
39.533	0.02	0.73	1.955	0					4.35
39.550	0.02	0.73	1.954	0					4.35
39.567	0.02	0.73	1.953	0					4.35
39.583	0.02	0.73	1.952	0					4.34
39.600	0.02	0.73	1.951	0					4.34
39.617	0.02	0.73	1.950	0					4.34
39.633	0.02	0.73	1.949	0					4.34
39.650	0.02	0.73	1.948	0					4.34
39.667	0.02	0.73	1.947	0					4.34
39.683	0.02	0.73	1.946	0					4.34
39.700	0.02	0.73	1.945	0					4.34
39.717	0.02	0.73	1.944	0					4.34
39.733	0.02	0.73	1.943	0					4.33
39.750	0.02	0.73	1.942	0					4.33
39.767	0.02	0.73	1.941	0					4.33
39.783	0.02	0.73	1.940	0					4.33
39.800	0.02	0.73	1.939	0					4.33
39.817	0.02	0.73	1.938	0					4.33
39.833	0.02	0.73	1.937	0					4.33
39.850	0.02	0.73	1.936	0					4.33
39.867	0.02	0.73	1.935	0					4.33
39.883	0.02	0.73	1.934	0					4.32
39.900	0.02	0.73	1.933	0					4.32
39.917	0.02	0.73	1.932	0					4.32
39.933	0.02	0.73	1.931	0					4.32
39.950	0.02	0.73	1.930	0					4.32
39.967	0.02	0.73	1.929	0					4.32
39.983	0.02	0.73	1.928	0					4.32
40.000	0.02	0.73	1.927	0					4.32
40.017	0.02	0.73	1.926	0					4.31
40.033	0.02	0.73	1.925	0					4.31
40.050	0.02	0.73	1.924	0					4.31
40.067	0.02	0.73	1.923	0					4.31
40.083	0.02	0.73	1.922	0					4.31
40.100	0.02	0.73	1.921	0					4.31
40.117	0.02	0.73	1.920	0					4.31
40.133	0.02	0.73	1.919	0					4.31
40.150	0.02	0.73	1.918	0					4.31
40.167	0.02	0.73	1.917	0					4.30
40.183	0.02	0.73	1.916	0					4.30

40.200	0.02	0.73	1.915	0					4.30
40.217	0.02	0.73	1.914	0					4.30
40.233	0.02	0.73	1.913	0					4.30
40.250	0.02	0.73	1.912	0					4.30
40.267	0.01	0.73	1.911	0					4.30
40.283	0.01	0.73	1.910	0					4.30
40.300	0.01	0.73	1.909	0					4.30
40.317	0.01	0.73	1.908	0					4.29
40.333	0.01	0.73	1.908	0					4.29
40.350	0.01	0.73	1.907	0					4.29
40.367	0.01	0.73	1.906	0					4.29
40.383	0.01	0.73	1.905	0					4.29
40.400	0.01	0.73	1.904	0					4.29
40.417	0.01	0.73	1.903	0					4.29
40.433	0.01	0.73	1.902	0					4.29
40.450	0.01	0.73	1.901	0					4.29
40.467	0.01	0.73	1.900	0					4.28
40.483	0.01	0.73	1.899	0					4.28
40.500	0.01	0.73	1.898	0					4.28
40.517	0.01	0.73	1.897	0					4.28
40.533	0.01	0.73	1.896	0					4.28
40.550	0.01	0.73	1.895	0					4.28
40.567	0.01	0.73	1.894	0					4.28
40.583	0.01	0.73	1.893	0					4.28
40.600	0.01	0.73	1.892	0					4.28
40.617	0.01	0.73	1.891	0					4.27
40.633	0.01	0.73	1.890	0					4.27
40.650	0.01	0.73	1.889	0					4.27
40.667	0.01	0.73	1.888	0					4.27
40.683	0.01	0.73	1.887	0					4.27
40.700	0.01	0.73	1.886	0					4.27
40.717	0.01	0.73	1.885	0					4.27
40.733	0.01	0.73	1.884	0					4.27
40.750	0.01	0.73	1.883	0					4.26
40.767	0.01	0.73	1.882	0					4.26
40.783	0.01	0.73	1.881	0					4.26
40.800	0.01	0.73	1.880	0					4.26
40.817	0.01	0.73	1.879	0					4.26
40.833	0.01	0.73	1.878	0					4.26
40.850	0.01	0.73	1.877	0					4.26
40.867	0.01	0.73	1.876	0					4.26
40.883	0.01	0.73	1.875	0					4.26
40.900	0.01	0.73	1.874	0					4.25
40.917	0.01	0.73	1.873	0					4.25
40.933	0.01	0.73	1.872	0					4.25
40.950	0.01	0.73	1.871	0					4.25
40.967	0.01	0.73	1.870	0					4.25
40.983	0.01	0.73	1.869	0					4.25
41.000	0.01	0.73	1.868	0					4.25
41.017	0.01	0.73	1.867	0					4.25
41.033	0.01	0.73	1.866	0					4.25
41.050	0.01	0.73	1.865	0					4.24
41.067	0.01	0.73	1.864	0					4.24
41.083	0.01	0.73	1.863	0					4.24
41.100	0.01	0.73	1.862	0					4.24
41.117	0.01	0.73	1.861	0					4.24
41.133	0.01	0.73	1.860	0					4.24
41.150	0.01	0.73	1.859	0					4.24
41.167	0.01	0.73	1.858	0					4.24
41.183	0.01	0.73	1.857	0					4.24
41.200	0.01	0.73	1.856	0					4.23
41.217	0.01	0.73	1.855	0					4.23
41.233	0.01	0.73	1.854	0					4.23
41.250	0.01	0.73	1.853	0					4.23
41.267	0.01	0.73	1.852	0					4.23
41.283	0.01	0.73	1.851	0					4.23
41.300	0.01	0.73	1.850	0					4.23
41.317	0.01	0.73	1.849	0					4.23
41.333	0.01	0.73	1.848	0					4.22
41.350	0.01	0.73	1.847	0					4.22
41.367	0.01	0.73	1.846	0					4.22

41.383	0.01	0.73	1.845	0					4.22
41.400	0.01	0.73	1.844	0					4.22
41.417	0.01	0.73	1.843	0					4.22
41.433	0.01	0.73	1.842	0					4.22
41.450	0.01	0.73	1.841	0					4.22
41.467	0.01	0.73	1.840	0					4.22
41.483	0.01	0.73	1.839	0					4.21
41.500	0.01	0.73	1.838	0					4.21
41.517	0.01	0.73	1.837	0					4.21
41.533	0.01	0.73	1.836	0					4.21
41.550	0.01	0.73	1.835	0					4.21
41.567	0.01	0.73	1.834	0					4.21
41.583	0.01	0.73	1.833	0					4.21
41.600	0.01	0.73	1.832	0					4.21
41.617	0.01	0.73	1.831	0					4.21
41.633	0.01	0.73	1.830	0					4.20
41.650	0.01	0.73	1.829	0					4.20
41.667	0.01	0.73	1.828	0					4.20
41.683	0.01	0.73	1.827	0					4.20
41.700	0.01	0.73	1.826	0					4.20
41.717	0.01	0.73	1.825	0					4.20
41.733	0.01	0.73	1.824	0					4.20
41.750	0.01	0.73	1.824	0					4.20
41.767	0.01	0.73	1.823	0					4.20
41.783	0.01	0.73	1.822	0					4.19
41.800	0.01	0.73	1.821	0					4.19
41.817	0.01	0.73	1.820	0					4.19
41.833	0.01	0.73	1.819	0					4.19
41.850	0.01	0.73	1.818	0					4.19
41.867	0.01	0.73	1.817	0					4.19
41.883	0.01	0.73	1.816	0					4.19
41.900	0.01	0.73	1.815	0					4.19
41.917	0.01	0.73	1.814	0					4.18
41.933	0.01	0.73	1.813	0					4.18
41.950	0.01	0.73	1.812	0					4.18
41.967	0.01	0.73	1.811	0					4.18
41.983	0.01	0.73	1.810	0					4.18
42.000	0.01	0.73	1.809	0					4.18
42.017	0.01	0.73	1.808	0					4.18
42.033	0.01	0.73	1.807	0					4.18
42.050	0.01	0.73	1.806	0					4.18
42.067	0.01	0.73	1.805	0					4.17
42.083	0.01	0.73	1.804	0					4.17
42.100	0.01	0.73	1.803	0					4.17
42.117	0.01	0.73	1.802	0					4.17
42.133	0.01	0.73	1.801	0					4.17
42.150	0.01	0.73	1.800	0					4.17
42.167	0.01	0.73	1.799	0					4.17
42.183	0.01	0.73	1.798	0					4.17
42.200	0.01	0.73	1.797	0					4.17
42.217	0.01	0.73	1.796	0					4.16
42.233	0.01	0.73	1.795	0					4.16
42.250	0.01	0.73	1.794	0					4.16
42.267	0.01	0.73	1.793	0					4.16
42.283	0.01	0.73	1.792	0					4.16
42.300	0.01	0.73	1.791	0					4.16
42.317	0.01	0.73	1.790	0					4.16
42.333	0.01	0.73	1.789	0					4.16
42.350	0.01	0.73	1.788	0					4.16
42.367	0.01	0.73	1.787	0					4.15
42.383	0.01	0.73	1.786	0					4.15
42.400	0.01	0.73	1.785	0					4.15
42.417	0.01	0.73	1.784	0					4.15
42.433	0.01	0.73	1.783	0					4.15
42.450	0.01	0.73	1.782	0					4.15
42.467	0.01	0.73	1.781	0					4.15
42.483	0.01	0.73	1.780	0					4.15
42.500	0.01	0.73	1.779	0					4.15
42.517	0.01	0.73	1.778	0					4.14
42.533	0.01	0.73	1.777	0					4.14
42.550	0.01	0.73	1.776	0					4.14

42.567	0.01	0.73	1.775	0					4.14
42.583	0.01	0.73	1.774	0					4.14
42.600	0.01	0.73	1.773	0					4.14
42.617	0.01	0.73	1.772	0					4.14
42.633	0.01	0.73	1.771	0					4.14
42.650	0.01	0.73	1.770	0					4.13
42.667	0.01	0.73	1.769	0					4.13
42.683	0.01	0.73	1.768	0					4.13
42.700	0.01	0.73	1.767	0					4.13
42.717	0.01	0.73	1.766	0					4.13
42.733	0.01	0.73	1.765	0					4.13
42.750	0.01	0.73	1.764	0					4.13
42.767	0.01	0.73	1.763	0					4.13
42.783	0.01	0.73	1.762	0					4.13
42.800	0.01	0.72	1.761	0					4.12
42.817	0.01	0.72	1.760	0					4.12
42.833	0.01	0.72	1.759	0					4.12
42.850	0.01	0.72	1.758	0					4.12
42.867	0.01	0.72	1.757	0					4.12
42.883	0.01	0.72	1.756	0					4.12
42.900	0.01	0.72	1.755	0					4.12
42.917	0.01	0.72	1.754	0					4.12
42.933	0.01	0.72	1.753	0					4.12
42.950	0.01	0.72	1.752	0					4.11
42.967	0.01	0.72	1.751	0					4.11
42.983	0.01	0.72	1.750	0					4.11
43.000	0.01	0.72	1.749	0					4.11
43.017	0.01	0.72	1.748	0					4.11
43.033	0.01	0.72	1.747	0					4.11
43.050	0.01	0.72	1.746	0					4.11
43.067	0.01	0.72	1.745	0					4.11
43.083	0.01	0.72	1.744	0					4.11
43.100	0.01	0.72	1.743	0					4.10
43.117	0.01	0.72	1.742	0					4.10
43.133	0.01	0.72	1.741	0					4.10
43.150	0.01	0.72	1.741	0					4.10
43.167	0.01	0.72	1.740	0					4.10
43.183	0.01	0.72	1.739	0					4.10
43.200	0.01	0.72	1.738	0					4.10
43.217	0.01	0.72	1.737	0					4.10
43.233	0.01	0.72	1.736	0					4.09
43.250	0.01	0.72	1.735	0					4.09
43.267	0.01	0.72	1.734	0					4.09
43.283	0.01	0.72	1.733	0					4.09
43.300	0.01	0.72	1.732	0					4.09
43.317	0.01	0.72	1.731	0					4.09
43.333	0.01	0.72	1.730	0					4.09
43.350	0.01	0.72	1.729	0					4.09
43.367	0.01	0.72	1.728	0					4.09
43.383	0.01	0.72	1.727	0					4.08
43.400	0.01	0.72	1.726	0					4.08
43.417	0.01	0.72	1.725	0					4.08
43.433	0.01	0.72	1.724	0					4.08
43.450	0.01	0.72	1.723	0					4.08
43.467	0.01	0.72	1.722	0					4.08
43.483	0.01	0.72	1.721	0					4.08
43.500	0.01	0.72	1.720	0					4.08
43.517	0.01	0.72	1.719	0					4.08
43.533	0.01	0.72	1.718	0					4.07
43.550	0.01	0.72	1.717	0					4.07
43.567	0.01	0.72	1.716	0					4.07
43.583	0.01	0.72	1.715	0					4.07
43.600	0.01	0.72	1.714	0					4.07
43.617	0.01	0.72	1.713	0					4.07
43.633	0.01	0.72	1.712	0					4.07
43.650	0.01	0.72	1.711	0					4.07
43.667	0.01	0.72	1.710	0					4.07
43.683	0.01	0.72	1.709	0					4.06
43.700	0.01	0.72	1.708	0					4.06
43.717	0.01	0.72	1.707	0					4.06
43.733	0.01	0.72	1.706	0					4.06

43.750	0.01	0.72	1.705	O					4.06
43.767	0.01	0.72	1.704	O					4.06
43.783	0.01	0.72	1.703	O					4.06
43.800	0.01	0.72	1.702	O					4.06
43.817	0.01	0.72	1.701	O					4.06
43.833	0.01	0.72	1.700	O					4.05
43.850	0.01	0.72	1.699	O					4.05
43.867	0.01	0.72	1.698	O					4.05
43.883	0.01	0.72	1.697	O					4.05
43.900	0.01	0.72	1.696	O					4.05
43.917	0.01	0.72	1.695	O					4.05
43.933	0.01	0.72	1.694	O					4.05
43.950	0.01	0.72	1.693	O					4.05
43.967	0.01	0.72	1.692	O					4.04
43.983	0.01	0.72	1.691	O					4.04
44.000	0.01	0.72	1.690	O					4.04
44.017	0.01	0.72	1.689	O					4.04
44.033	0.01	0.72	1.688	O					4.04
44.050	0.01	0.72	1.687	O					4.04
44.067	0.01	0.72	1.686	O					4.04
44.083	0.01	0.72	1.685	O					4.04
44.100	0.01	0.72	1.684	O					4.04
44.117	0.01	0.72	1.683	O					4.03
44.133	0.01	0.72	1.682	O					4.03
44.150	0.01	0.72	1.681	O					4.03
44.167	0.01	0.72	1.680	O					4.03
44.183	0.01	0.72	1.679	O					4.03
44.200	0.01	0.72	1.678	O					4.03
44.217	0.01	0.72	1.677	O					4.03
44.233	0.01	0.72	1.676	O					4.03
44.250	0.01	0.72	1.675	O					4.03
44.267	0.01	0.72	1.674	O					4.02
44.283	0.01	0.72	1.673	O					4.02
44.300	0.01	0.72	1.672	O					4.02
44.317	0.01	0.72	1.671	O					4.02
44.333	0.01	0.72	1.670	O					4.02
44.350	0.01	0.72	1.669	O					4.02
44.367	0.01	0.72	1.668	O					4.02
44.383	0.01	0.72	1.668	O					4.02
44.400	0.01	0.72	1.667	O					4.02
44.417	0.01	0.72	1.666	O					4.01
44.433	0.01	0.72	1.665	O					4.01
44.450	0.01	0.72	1.664	O					4.01
44.467	0.01	0.72	1.663	O					4.01
44.483	0.01	0.72	1.662	O					4.01
44.500	0.01	0.72	1.661	O					4.01
44.517	0.01	0.72	1.660	O					4.01
44.533	0.01	0.72	1.659	O					4.01
44.550	0.00	0.72	1.658	O					4.00
44.567	0.00	0.72	1.657	O					4.00
44.583	0.00	0.72	1.656	O					4.00
44.600	0.00	0.72	1.655	O					4.00
44.617	0.00	0.72	1.654	O					4.00
44.633	0.00	0.72	1.653	O					4.00
44.650	0.00	0.72	1.652	O					4.00
44.667	0.00	0.72	1.651	O					4.00
44.683	0.00	0.72	1.650	O					4.00
44.700	0.00	0.72	1.649	O					3.99
44.717	0.00	0.72	1.648	O					3.99
44.733	0.00	0.72	1.647	O					3.99
44.750	0.00	0.72	1.646	O					3.99
44.767	0.00	0.72	1.645	O					3.99
44.783	0.00	0.72	1.644	O					3.99
44.800	0.00	0.72	1.643	O					3.99
44.817	0.00	0.72	1.642	O					3.99
44.833	0.00	0.72	1.641	O					3.99
44.850	0.00	0.72	1.640	O					3.98
44.867	0.00	0.72	1.639	O					3.98
44.883	0.00	0.72	1.638	O					3.98
44.900	0.00	0.72	1.637	O					3.98
44.917	0.00	0.72	1.636	O					3.98

44.933	0.00	0.72	1.635	0					3.98
44.950	0.00	0.72	1.634	0					3.98
44.967	0.00	0.72	1.633	0					3.98
44.983	0.00	0.72	1.632	0					3.98
45.000	0.00	0.72	1.631	0					3.97
45.017	0.00	0.72	1.630	0					3.97
45.033	0.00	0.72	1.629	0					3.97
45.050	0.00	0.72	1.628	0					3.97
45.067	0.00	0.72	1.627	0					3.97
45.083	0.00	0.72	1.626	0					3.97
45.100	0.00	0.72	1.625	0					3.97
45.117	0.00	0.72	1.624	0					3.97
45.133	0.00	0.72	1.623	0					3.97
45.150	0.00	0.72	1.622	0					3.96
45.167	0.00	0.72	1.621	0					3.96
45.183	0.00	0.72	1.620	0					3.96
45.200	0.00	0.72	1.619	0					3.96
45.217	0.00	0.72	1.618	0					3.96
45.233	0.00	0.72	1.617	0					3.96
45.250	0.00	0.72	1.616	0					3.96
45.267	0.00	0.72	1.615	0					3.96
45.283	0.00	0.72	1.614	0					3.96
45.300	0.00	0.72	1.613	0					3.95
45.317	0.00	0.72	1.612	0					3.95
45.333	0.00	0.72	1.611	0					3.95
45.350	0.00	0.72	1.610	0					3.95
45.367	0.00	0.72	1.609	0					3.95
45.383	0.00	0.72	1.608	0					3.95
45.400	0.00	0.72	1.607	0					3.95
45.417	0.00	0.72	1.606	0					3.95
45.433	0.00	0.72	1.605	0					3.94
45.450	0.00	0.72	1.605	0					3.94
45.467	0.00	0.72	1.604	0					3.94
45.483	0.00	0.72	1.603	0					3.94
45.500	0.00	0.72	1.602	0					3.94
45.517	0.00	0.72	1.601	0					3.94
45.533	0.00	0.72	1.600	0					3.94
45.550	0.00	0.72	1.599	0					3.94
45.567	0.00	0.72	1.598	0					3.94
45.583	0.00	0.72	1.597	0					3.93
45.600	0.00	0.72	1.596	0					3.93
45.617	0.00	0.72	1.595	0					3.93
45.633	0.00	0.72	1.594	0					3.93
45.650	0.00	0.72	1.593	0					3.93
45.667	0.00	0.72	1.592	0					3.93
45.683	0.00	0.72	1.591	0					3.93
45.700	0.00	0.72	1.590	0					3.93
45.717	0.00	0.72	1.589	0					3.93
45.733	0.00	0.72	1.588	0					3.92
45.750	0.00	0.72	1.587	0					3.92
45.767	0.00	0.72	1.586	0					3.92
45.783	0.00	0.72	1.585	0					3.92
45.800	0.00	0.72	1.584	0					3.92
45.817	0.00	0.72	1.583	0					3.92
45.833	0.00	0.72	1.582	0					3.92
45.850	0.00	0.72	1.581	0					3.92
45.867	0.00	0.72	1.580	0					3.92
45.883	0.00	0.72	1.579	0					3.91
45.900	0.00	0.72	1.578	0					3.91
45.917	0.00	0.72	1.577	0					3.91
45.933	0.00	0.72	1.576	0					3.91
45.950	0.00	0.72	1.575	0					3.91
45.967	0.00	0.72	1.574	0					3.91
45.983	0.00	0.72	1.573	0					3.91
46.000	0.00	0.72	1.572	0					3.91
46.017	0.00	0.72	1.571	0					3.91
46.033	0.00	0.72	1.570	0					3.90
46.050	0.00	0.72	1.569	0					3.90
46.067	0.00	0.72	1.568	0					3.90
46.083	0.00	0.72	1.567	0					3.90
46.100	0.00	0.72	1.566	0					3.90

46.117	0.00	0.72	1.565	0					3.90
46.133	0.00	0.72	1.564	0					3.90
46.150	0.00	0.72	1.563	0					3.90
46.167	0.00	0.72	1.562	0					3.89
46.183	0.00	0.72	1.561	0					3.89
46.200	0.00	0.72	1.560	0					3.89
46.217	0.00	0.72	1.559	0					3.89
46.233	0.00	0.72	1.558	0					3.89
46.250	0.00	0.72	1.557	0					3.89
46.267	0.00	0.72	1.556	0					3.89
46.283	0.00	0.72	1.555	0					3.89
46.300	0.00	0.72	1.554	0					3.89
46.317	0.00	0.72	1.553	0					3.88
46.333	0.00	0.72	1.552	0					3.88
46.350	0.00	0.72	1.551	0					3.88
46.367	0.00	0.72	1.550	0					3.88
46.383	0.00	0.72	1.550	0					3.88
46.400	0.00	0.72	1.549	0					3.88
46.417	0.00	0.72	1.548	0					3.88
46.433	0.00	0.72	1.547	0					3.88
46.450	0.00	0.72	1.546	0					3.88
46.467	0.00	0.71	1.545	0					3.87
46.483	0.00	0.71	1.544	0					3.87
46.500	0.00	0.71	1.543	0					3.87
46.517	0.00	0.71	1.542	0					3.87
46.533	0.00	0.71	1.541	0					3.87
46.550	0.00	0.71	1.540	0					3.87
46.567	0.00	0.71	1.539	0					3.87
46.583	0.00	0.71	1.538	0					3.87
46.600	0.00	0.71	1.537	0					3.87
46.617	0.00	0.71	1.536	0					3.86
46.633	0.00	0.71	1.535	0					3.86
46.650	0.00	0.71	1.534	0					3.86
46.667	0.00	0.71	1.533	0					3.86
46.683	0.00	0.71	1.532	0					3.86
46.700	0.00	0.71	1.531	0					3.86
46.717	0.00	0.71	1.530	0					3.86
46.733	0.00	0.71	1.529	0					3.86
46.750	0.00	0.71	1.528	0					3.86
46.767	0.00	0.71	1.527	0					3.85
46.783	0.00	0.71	1.526	0					3.85
46.800	0.00	0.71	1.525	0					3.85
46.817	0.00	0.71	1.524	0					3.85
46.833	0.00	0.71	1.523	0					3.85
46.850	0.00	0.71	1.522	0					3.85
46.867	0.00	0.71	1.521	0					3.85
46.883	0.00	0.71	1.520	0					3.85
46.900	0.00	0.71	1.519	0					3.85
46.917	0.00	0.71	1.518	0					3.84
46.933	0.00	0.71	1.517	0					3.84
46.950	0.00	0.71	1.516	0					3.84
46.967	0.00	0.71	1.515	0					3.84
46.983	0.00	0.71	1.514	0					3.84
47.000	0.00	0.71	1.513	0					3.84
47.017	0.00	0.71	1.512	0					3.84
47.033	0.00	0.71	1.511	0					3.84
47.050	0.00	0.71	1.510	0					3.83
47.067	0.00	0.71	1.509	0					3.83
47.083	0.00	0.71	1.508	0					3.83
47.100	0.00	0.71	1.507	0					3.83
47.117	0.00	0.71	1.506	0					3.83
47.133	0.00	0.71	1.505	0					3.83
47.150	0.00	0.71	1.504	0					3.83
47.167	0.00	0.71	1.503	0					3.83
47.183	0.00	0.71	1.502	0					3.83
47.200	0.00	0.71	1.502	0					3.82
47.217	0.00	0.71	1.501	0					3.82
47.233	0.00	0.71	1.500	0					3.82
47.250	0.00	0.71	1.499	0					3.82
47.267	0.00	0.71	1.498	0					3.82
47.283	0.00	0.71	1.497	0					3.82

47.300	0.00	0.71	1.496	0					3.82
47.317	0.00	0.71	1.495	0					3.82
47.333	0.00	0.71	1.494	0					3.82
47.350	0.00	0.71	1.493	0					3.81
47.367	0.00	0.71	1.492	0					3.81
47.383	0.00	0.71	1.491	0					3.81
47.400	0.00	0.71	1.490	0					3.81
47.417	0.00	0.71	1.489	0					3.81
47.433	0.00	0.71	1.488	0					3.81
47.450	0.00	0.71	1.487	0					3.81
47.467	0.00	0.71	1.486	0					3.81
47.483	0.00	0.71	1.485	0					3.81
47.500	0.00	0.71	1.484	0					3.80
47.517	0.00	0.71	1.483	0					3.80
47.533	0.00	0.71	1.482	0					3.80
47.550	0.00	0.71	1.481	0					3.80
47.567	0.00	0.71	1.480	0					3.80
47.583	0.00	0.71	1.479	0					3.80
47.600	0.00	0.71	1.478	0					3.80
47.617	0.00	0.71	1.477	0					3.80
47.633	0.00	0.71	1.476	0					3.80
47.650	0.00	0.71	1.475	0					3.79
47.667	0.00	0.71	1.474	0					3.79
47.683	0.00	0.71	1.473	0					3.79
47.700	0.00	0.71	1.472	0					3.79
47.717	0.00	0.71	1.471	0					3.79
47.733	0.00	0.71	1.470	0					3.79
47.750	0.00	0.71	1.469	0					3.79
47.767	0.00	0.71	1.468	0					3.79
47.783	0.00	0.71	1.467	0					3.79
47.800	0.00	0.71	1.466	0					3.78
47.817	0.00	0.71	1.465	0					3.78
47.833	0.00	0.71	1.464	0					3.78
47.850	0.00	0.71	1.463	0					3.78
47.867	0.00	0.71	1.462	0					3.78
47.883	0.00	0.71	1.461	0					3.78
47.900	0.00	0.71	1.460	0					3.78
47.917	0.00	0.71	1.459	0					3.78
47.933	0.00	0.71	1.458	0					3.78
47.950	0.00	0.71	1.457	0					3.77
47.967	0.00	0.71	1.457	0					3.77
47.983	0.00	0.71	1.456	0					3.77
48.000	0.00	0.71	1.455	0					3.77
48.017	0.00	0.71	1.454	0					3.77
48.033	0.00	0.71	1.453	0					3.77
48.050	0.00	0.71	1.452	0					3.77
48.067	0.00	0.71	1.451	0					3.77
48.083	0.00	0.71	1.450	0					3.76
48.100	0.00	0.71	1.449	0					3.76
48.117	0.00	0.71	1.448	0					3.76
48.133	0.00	0.71	1.447	0					3.76
48.150	0.00	0.71	1.446	0					3.76
48.167	0.00	0.71	1.445	0					3.76
48.183	0.00	0.71	1.444	0					3.76
48.200	0.00	0.71	1.443	0					3.76
48.217	0.00	0.71	1.442	0					3.76
48.233	0.00	0.71	1.441	0					3.75
48.250	0.00	0.71	1.440	0					3.75
48.267	0.00	0.71	1.439	0					3.75
48.283	0.00	0.71	1.438	0					3.75
48.300	0.00	0.71	1.437	0					3.75
48.317	0.00	0.71	1.436	0					3.75
48.333	0.00	0.71	1.435	0					3.75
48.350	0.00	0.71	1.434	0					3.75
48.367	0.00	0.71	1.433	0					3.75
48.383	0.00	0.71	1.432	0					3.74
48.400	0.00	0.71	1.431	0					3.74
48.417	0.00	0.71	1.430	0					3.74
48.433	0.00	0.71	1.429	0					3.74
48.450	0.00	0.71	1.428	0					3.74
48.467	0.00	0.71	1.427	0					3.74

48.483	0.00	0.71	1.426	0					3.74
48.500	0.00	0.71	1.425	0					3.74
48.517	0.00	0.71	1.424	0					3.74
48.533	0.00	0.71	1.423	0					3.73
48.550	0.00	0.71	1.422	0					3.73
48.567	0.00	0.71	1.421	0					3.73
48.583	0.00	0.71	1.420	0					3.73
48.600	0.00	0.71	1.419	0					3.73
48.617	0.00	0.71	1.418	0					3.73
48.633	0.00	0.71	1.417	0					3.73
48.650	0.00	0.71	1.416	0					3.73
48.667	0.00	0.71	1.415	0					3.73
48.683	0.00	0.71	1.414	0					3.72
48.700	0.00	0.71	1.413	0					3.72
48.717	0.00	0.71	1.413	0					3.72
48.733	0.00	0.71	1.412	0					3.72
48.750	0.00	0.71	1.411	0					3.72
48.767	0.00	0.71	1.410	0					3.72
48.783	0.00	0.71	1.409	0					3.72
48.800	0.00	0.71	1.408	0					3.72
48.817	0.00	0.71	1.407	0					3.72
48.833	0.00	0.71	1.406	0					3.71
48.850	0.00	0.71	1.405	0					3.71
48.867	0.00	0.71	1.404	0					3.71
48.883	0.00	0.71	1.403	0					3.71
48.900	0.00	0.71	1.402	0					3.71
48.917	0.00	0.71	1.401	0					3.71
48.933	0.00	0.71	1.400	0					3.71
48.950	0.00	0.71	1.399	0					3.71
48.967	0.00	0.71	1.398	0					3.71
48.983	0.00	0.71	1.397	0					3.70
49.000	0.00	0.71	1.396	0					3.70
49.017	0.00	0.71	1.395	0					3.70
49.033	0.00	0.71	1.394	0					3.70
49.050	0.00	0.71	1.393	0					3.70
49.067	0.00	0.71	1.392	0					3.70
49.083	0.00	0.71	1.391	0					3.70
49.100	0.00	0.71	1.390	0					3.70
49.117	0.00	0.71	1.389	0					3.70
49.133	0.00	0.71	1.388	0					3.69
49.150	0.00	0.71	1.387	0					3.69
49.167	0.00	0.71	1.386	0					3.69
49.183	0.00	0.71	1.385	0					3.69
49.200	0.00	0.71	1.384	0					3.69
49.217	0.00	0.71	1.383	0					3.69
49.233	0.00	0.71	1.382	0					3.69
49.250	0.00	0.71	1.381	0					3.69
49.267	0.00	0.71	1.380	0					3.68
49.283	0.00	0.71	1.379	0					3.68
49.300	0.00	0.71	1.378	0					3.68
49.317	0.00	0.71	1.377	0					3.68
49.333	0.00	0.71	1.376	0					3.68
49.350	0.00	0.71	1.375	0					3.68
49.367	0.00	0.71	1.374	0					3.68
49.383	0.00	0.71	1.373	0					3.68
49.400	0.00	0.71	1.373	0					3.68
49.417	0.00	0.71	1.372	0					3.67
49.433	0.00	0.71	1.371	0					3.67
49.450	0.00	0.71	1.370	0					3.67
49.467	0.00	0.71	1.369	0					3.67
49.483	0.00	0.71	1.368	0					3.67
49.500	0.00	0.71	1.367	0					3.67
49.517	0.00	0.71	1.366	0					3.67
49.533	0.00	0.71	1.365	0					3.67
49.550	0.00	0.71	1.364	0					3.67
49.567	0.00	0.71	1.363	0					3.66
49.583	0.00	0.71	1.362	0					3.66
49.600	0.00	0.71	1.361	0					3.66
49.617	0.00	0.71	1.360	0					3.66
49.633	0.00	0.71	1.359	0					3.66
49.650	0.00	0.71	1.358	0					3.66

49.667	0.00	0.71	1.357	0					3.66
49.683	0.00	0.71	1.356	0					3.66
49.700	0.00	0.71	1.355	0					3.66
49.717	0.00	0.71	1.354	0					3.65
49.733	0.00	0.71	1.353	0					3.65
49.750	0.00	0.71	1.352	0					3.65
49.767	0.00	0.71	1.351	0					3.65
49.783	0.00	0.71	1.350	0					3.65
49.800	0.00	0.71	1.349	0					3.65
49.817	0.00	0.71	1.348	0					3.65
49.833	0.00	0.71	1.347	0					3.65
49.850	0.00	0.71	1.346	0					3.65
49.867	0.00	0.71	1.345	0					3.64
49.883	0.00	0.71	1.344	0					3.64
49.900	0.00	0.71	1.343	0					3.64
49.917	0.00	0.71	1.342	0					3.64
49.933	0.00	0.71	1.341	0					3.64
49.950	0.00	0.71	1.340	0					3.64
49.967	0.00	0.71	1.339	0					3.64
49.983	0.00	0.71	1.338	0					3.64
50.000	0.00	0.71	1.338	0					3.64
50.017	0.00	0.71	1.337	0					3.63
50.033	0.00	0.71	1.336	0					3.63
50.050	0.00	0.71	1.335	0					3.63
50.067	0.00	0.71	1.334	0					3.63
50.083	0.00	0.71	1.333	0					3.63
50.100	0.00	0.71	1.332	0					3.63
50.117	0.00	0.71	1.331	0					3.63
50.133	0.00	0.71	1.330	0					3.63
50.150	0.00	0.71	1.329	0					3.63
50.167	0.00	0.70	1.328	0					3.62
50.183	0.00	0.70	1.327	0					3.62
50.200	0.00	0.70	1.326	0					3.62
50.217	0.00	0.70	1.325	0					3.62
50.233	0.00	0.70	1.324	0					3.62
50.250	0.00	0.70	1.323	0					3.62
50.267	0.00	0.70	1.322	0					3.62
50.283	0.00	0.70	1.321	0					3.62
50.300	0.00	0.70	1.320	0					3.62
50.317	0.00	0.70	1.319	0					3.61
50.333	0.00	0.70	1.318	0					3.61
50.350	0.00	0.70	1.317	0					3.61
50.367	0.00	0.70	1.316	0					3.61
50.383	0.00	0.70	1.315	0					3.61
50.400	0.00	0.70	1.314	0					3.61
50.417	0.00	0.70	1.313	0					3.61
50.433	0.00	0.70	1.312	0					3.61
50.450	0.00	0.70	1.311	0					3.61
50.467	0.00	0.70	1.310	0					3.60
50.483	0.00	0.70	1.309	0					3.60
50.500	0.00	0.70	1.308	0					3.60
50.517	0.00	0.70	1.307	0					3.60
50.533	0.00	0.70	1.306	0					3.60
50.550	0.00	0.70	1.305	0					3.60
50.567	0.00	0.70	1.305	0					3.60
50.583	0.00	0.70	1.304	0					3.60
50.600	0.00	0.70	1.303	0					3.60
50.617	0.00	0.70	1.302	0					3.59
50.633	0.00	0.70	1.301	0					3.59
50.650	0.00	0.70	1.300	0					3.59
50.667	0.00	0.70	1.299	0					3.59
50.683	0.00	0.70	1.298	0					3.59
50.700	0.00	0.70	1.297	0					3.59
50.717	0.00	0.70	1.296	0					3.59
50.733	0.00	0.70	1.295	0					3.59
50.750	0.00	0.70	1.294	0					3.59
50.767	0.00	0.70	1.293	0					3.58
50.783	0.00	0.70	1.292	0					3.58
50.800	0.00	0.70	1.291	0					3.58
50.817	0.00	0.70	1.290	0					3.58
50.833	0.00	0.70	1.289	0					3.58

50.850	0.00	0.70	1.288	0					3.58
50.867	0.00	0.70	1.287	0					3.58
50.883	0.00	0.70	1.286	0					3.58
50.900	0.00	0.70	1.285	0					3.58
50.917	0.00	0.70	1.284	0					3.57
50.933	0.00	0.70	1.283	0					3.57
50.950	0.00	0.70	1.282	0					3.57
50.967	0.00	0.70	1.281	0					3.57
50.983	0.00	0.70	1.280	0					3.57
51.000	0.00	0.70	1.279	0					3.57
51.017	0.00	0.70	1.278	0					3.57
51.033	0.00	0.70	1.277	0					3.57
51.050	0.00	0.70	1.276	0					3.57
51.067	0.00	0.70	1.275	0					3.56
51.083	0.00	0.70	1.274	0					3.56
51.100	0.00	0.70	1.274	0					3.56
51.117	0.00	0.70	1.273	0					3.56
51.133	0.00	0.70	1.272	0					3.56
51.150	0.00	0.70	1.271	0					3.56
51.167	0.00	0.70	1.270	0					3.56
51.183	0.00	0.70	1.269	0					3.56
51.200	0.00	0.70	1.268	0					3.56
51.217	0.00	0.70	1.267	0					3.55
51.233	0.00	0.70	1.266	0					3.55
51.250	0.00	0.70	1.265	0					3.55
51.267	0.00	0.70	1.264	0					3.55
51.283	0.00	0.70	1.263	0					3.55
51.300	0.00	0.70	1.262	0					3.55
51.317	0.00	0.70	1.261	0					3.55
51.333	0.00	0.70	1.260	0					3.55
51.350	0.00	0.70	1.259	0					3.55
51.367	0.00	0.70	1.258	0					3.54
51.383	0.00	0.70	1.257	0					3.54
51.400	0.00	0.70	1.256	0					3.54
51.417	0.00	0.70	1.255	0					3.54
51.433	0.00	0.70	1.254	0					3.54
51.450	0.00	0.70	1.253	0					3.54
51.467	0.00	0.70	1.252	0					3.54
51.483	0.00	0.70	1.251	0					3.54
51.500	0.00	0.70	1.250	0					3.53
51.517	0.00	0.70	1.249	0					3.53
51.533	0.00	0.70	1.248	0					3.53
51.550	0.00	0.70	1.247	0					3.53
51.567	0.00	0.70	1.246	0					3.53
51.583	0.00	0.70	1.245	0					3.53
51.600	0.00	0.70	1.245	0					3.53
51.617	0.00	0.70	1.244	0					3.53
51.633	0.00	0.70	1.243	0					3.53
51.650	0.00	0.70	1.242	0					3.52
51.667	0.00	0.70	1.241	0					3.52
51.683	0.00	0.70	1.240	0					3.52
51.700	0.00	0.70	1.239	0					3.52
51.717	0.00	0.70	1.238	0					3.52
51.733	0.00	0.70	1.237	0					3.52
51.750	0.00	0.70	1.236	0					3.52
51.767	0.00	0.70	1.235	0					3.52
51.783	0.00	0.70	1.234	0					3.52
51.800	0.00	0.70	1.233	0					3.51
51.817	0.00	0.70	1.232	0					3.51
51.833	0.00	0.70	1.231	0					3.51
51.850	0.00	0.70	1.230	0					3.51
51.867	0.00	0.70	1.229	0					3.51
51.883	0.00	0.70	1.228	0					3.51
51.900	0.00	0.70	1.227	0					3.51
51.917	0.00	0.70	1.226	0					3.51
51.933	0.00	0.70	1.225	0					3.51
51.950	0.00	0.70	1.224	0					3.50
51.967	0.00	0.70	1.223	0					3.50
51.983	0.00	0.70	1.222	0					3.50
52.000	0.00	0.70	1.221	0					3.50
52.017	0.00	0.70	1.220	0					3.50

52.033	0.00	0.70	1.219	0					3.50
52.050	0.00	0.70	1.218	0					3.50
52.067	0.00	0.70	1.217	0					3.49
52.083	0.00	0.70	1.217	0					3.49
52.100	0.00	0.70	1.216	0					3.49
52.117	0.00	0.70	1.215	0					3.48
52.133	0.00	0.70	1.214	0					3.48
52.150	0.00	0.70	1.213	0					3.48
52.167	0.00	0.70	1.212	0					3.48
52.183	0.00	0.70	1.211	0					3.47
52.200	0.00	0.70	1.210	0					3.47
52.217	0.00	0.70	1.209	0					3.47
52.233	0.00	0.70	1.208	0					3.47
52.250	0.00	0.70	1.207	0					3.46
52.267	0.00	0.70	1.206	0					3.46
52.283	0.00	0.70	1.205	0					3.46
52.300	0.00	0.70	1.204	0					3.45
52.317	0.00	0.70	1.203	0					3.45
52.333	0.00	0.70	1.202	0					3.45
52.350	0.00	0.70	1.201	0					3.45
52.367	0.00	0.70	1.200	0					3.44
52.383	0.00	0.70	1.199	0					3.44
52.400	0.00	0.70	1.198	0					3.44
52.417	0.00	0.70	1.197	0					3.44
52.433	0.00	0.70	1.196	0					3.43
52.450	0.00	0.70	1.195	0					3.43
52.467	0.00	0.70	1.194	0					3.43
52.483	0.00	0.70	1.193	0					3.42
52.500	0.00	0.70	1.192	0					3.42
52.517	0.00	0.70	1.192	0					3.42
52.533	0.00	0.70	1.191	0					3.42
52.550	0.00	0.70	1.190	0					3.41
52.567	0.00	0.70	1.189	0					3.41
52.583	0.00	0.70	1.188	0					3.41
52.600	0.00	0.70	1.187	0					3.40
52.617	0.00	0.70	1.186	0					3.40
52.633	0.00	0.70	1.185	0					3.40
52.650	0.00	0.70	1.184	0					3.40
52.667	0.00	0.70	1.183	0					3.39
52.683	0.00	0.70	1.182	0					3.39
52.700	0.00	0.70	1.181	0					3.39
52.717	0.00	0.70	1.180	0					3.39
52.733	0.00	0.70	1.179	0					3.38
52.750	0.00	0.70	1.178	0					3.38
52.767	0.00	0.70	1.177	0					3.38
52.783	0.00	0.69	1.176	0					3.37
52.800	0.00	0.69	1.175	0					3.37
52.817	0.00	0.69	1.174	0					3.37
52.833	0.00	0.69	1.173	0					3.37
52.850	0.00	0.69	1.172	0					3.36
52.867	0.00	0.69	1.171	0					3.36
52.883	0.00	0.69	1.170	0					3.36
52.900	0.00	0.69	1.169	0					3.36
52.917	0.00	0.69	1.169	0					3.35
52.933	0.00	0.69	1.168	0					3.35
52.950	0.00	0.69	1.167	0					3.35
52.967	0.00	0.69	1.166	0					3.34
52.983	0.00	0.69	1.165	0					3.34
53.000	0.00	0.69	1.164	0					3.34
53.017	0.00	0.69	1.163	0					3.34
53.033	0.00	0.69	1.162	0					3.33
53.050	0.00	0.69	1.161	0					3.33
53.067	0.00	0.69	1.160	0					3.33
53.083	0.00	0.69	1.159	0					3.33
53.100	0.00	0.69	1.158	0					3.32
53.117	0.00	0.69	1.157	0					3.32
53.133	0.00	0.69	1.156	0					3.32
53.150	0.00	0.69	1.155	0					3.31
53.167	0.00	0.69	1.154	0					3.31
53.183	0.00	0.69	1.153	0					3.31
53.200	0.00	0.69	1.152	0					3.31

53.217	0.00	0.69	1.151	O					3.30
53.233	0.00	0.69	1.150	O					3.30
53.250	0.00	0.69	1.149	O					3.30
53.267	0.00	0.69	1.148	O					3.30
53.283	0.00	0.69	1.148	O					3.29
53.300	0.00	0.69	1.147	O					3.29
53.317	0.00	0.69	1.146	O					3.29
53.333	0.00	0.69	1.145	O					3.28
53.350	0.00	0.69	1.144	O					3.28
53.367	0.00	0.69	1.143	O					3.28
53.383	0.00	0.69	1.142	O					3.28
53.400	0.00	0.69	1.141	O					3.27
53.417	0.00	0.69	1.140	O					3.27
53.433	0.00	0.69	1.139	O					3.27
53.450	0.00	0.69	1.138	O					3.27
53.467	0.00	0.69	1.137	O					3.26
53.483	0.00	0.69	1.136	O					3.26
53.500	0.00	0.69	1.135	O					3.26
53.517	0.00	0.69	1.134	O					3.25
53.533	0.00	0.69	1.133	O					3.25
53.550	0.00	0.69	1.132	O					3.25
53.567	0.00	0.69	1.131	O					3.25
53.583	0.00	0.69	1.130	O					3.24
53.600	0.00	0.69	1.129	O					3.24
53.617	0.00	0.69	1.129	O					3.24
53.633	0.00	0.69	1.128	O					3.24
53.650	0.00	0.69	1.127	O					3.23
53.667	0.00	0.69	1.126	O					3.23
53.683	0.00	0.69	1.125	O					3.23
53.700	0.00	0.69	1.124	O					3.23
53.717	0.00	0.69	1.123	O					3.22
53.733	0.00	0.69	1.122	O					3.22
53.750	0.00	0.69	1.121	O					3.22
53.767	0.00	0.69	1.120	O					3.21
53.783	0.00	0.69	1.119	O					3.21
53.800	0.00	0.69	1.118	O					3.21
53.817	0.00	0.69	1.117	O					3.21
53.833	0.00	0.69	1.116	O					3.20
53.850	0.00	0.69	1.115	O					3.20
53.867	0.00	0.69	1.114	O					3.20
53.883	0.00	0.69	1.113	O					3.20
53.900	0.00	0.69	1.112	O					3.19
53.917	0.00	0.69	1.111	O					3.19
53.933	0.00	0.69	1.110	O					3.19
53.950	0.00	0.69	1.110	O					3.18
53.967	0.00	0.69	1.109	O					3.18
53.983	0.00	0.69	1.108	O					3.18
54.000	0.00	0.69	1.107	O					3.18
54.017	0.00	0.69	1.106	O					3.17
54.033	0.00	0.69	1.105	O					3.17
54.050	0.00	0.69	1.104	O					3.17
54.067	0.00	0.69	1.103	O					3.17
54.083	0.00	0.69	1.102	O					3.16
54.100	0.00	0.69	1.101	O					3.16
54.117	0.00	0.69	1.100	O					3.16
54.133	0.00	0.69	1.099	O					3.15
54.150	0.00	0.69	1.098	O					3.15
54.167	0.00	0.69	1.097	O					3.15
54.183	0.00	0.69	1.096	O					3.15
54.200	0.00	0.69	1.095	O					3.14
54.217	0.00	0.69	1.094	O					3.14
54.233	0.00	0.69	1.093	O					3.14
54.250	0.00	0.69	1.093	O					3.14
54.267	0.00	0.69	1.092	O					3.13
54.283	0.00	0.69	1.091	O					3.13
54.300	0.00	0.69	1.090	O					3.13
54.317	0.00	0.69	1.089	O					3.13
54.333	0.00	0.68	1.088	O					3.12
54.350	0.00	0.68	1.087	O					3.12
54.367	0.00	0.68	1.086	O					3.12
54.383	0.00	0.68	1.085	O					3.11

54.400	0.00	0.68	1.084	0					3.11
54.417	0.00	0.68	1.083	0					3.11
54.433	0.00	0.68	1.082	0					3.11
54.450	0.00	0.68	1.081	0					3.10
54.467	0.00	0.68	1.080	0					3.10
54.483	0.00	0.68	1.079	0					3.10
54.500	0.00	0.68	1.078	0					3.10
54.517	0.00	0.68	1.077	0					3.09
54.533	0.00	0.68	1.076	0					3.09
54.550	0.00	0.68	1.076	0					3.09
54.567	0.00	0.68	1.075	0					3.08
54.583	0.00	0.68	1.074	0					3.08
54.600	0.00	0.68	1.073	0					3.08
54.617	0.00	0.68	1.072	0					3.08
54.633	0.00	0.68	1.071	0					3.07
54.650	0.00	0.68	1.070	0					3.07
54.667	0.00	0.68	1.069	0					3.07
54.683	0.00	0.68	1.068	0					3.07
54.700	0.00	0.68	1.067	0					3.06
54.717	0.00	0.68	1.066	0					3.06
54.733	0.00	0.68	1.065	0					3.06
54.750	0.00	0.68	1.064	0					3.06
54.767	0.00	0.68	1.063	0					3.05
54.783	0.00	0.68	1.062	0					3.05
54.800	0.00	0.68	1.061	0					3.05
54.817	0.00	0.68	1.061	0					3.04
54.833	0.00	0.68	1.060	0					3.04
54.850	0.00	0.68	1.059	0					3.04
54.867	0.00	0.68	1.058	0					3.04
54.883	0.00	0.68	1.057	0					3.03
54.900	0.00	0.68	1.056	0					3.03
54.917	0.00	0.68	1.055	0					3.03
54.933	0.00	0.68	1.054	0					3.03
54.950	0.00	0.68	1.053	0					3.02
54.967	0.00	0.68	1.052	0					3.02
54.983	0.00	0.68	1.051	0					3.02
55.000	0.00	0.68	1.050	0					3.01
55.017	0.00	0.68	1.049	0					3.01
55.033	0.00	0.68	1.048	0					3.01
55.050	0.00	0.68	1.047	0					3.01
55.067	0.00	0.68	1.046	0					3.00
55.083	0.00	0.68	1.046	0					3.00
55.100	0.00	0.68	1.045	0					3.00
55.117	0.00	0.68	1.044	0					3.00
55.133	0.00	0.68	1.043	0					2.99
55.150	0.00	0.68	1.042	0					2.99
55.167	0.00	0.68	1.041	0					2.99
55.183	0.00	0.68	1.040	0					2.99
55.200	0.00	0.68	1.039	0					2.98
55.217	0.00	0.68	1.038	0					2.98
55.233	0.00	0.68	1.037	0					2.98
55.250	0.00	0.68	1.036	0					2.97
55.267	0.00	0.68	1.035	0					2.97
55.283	0.00	0.68	1.034	0					2.97
55.300	0.00	0.68	1.033	0					2.97
55.317	0.00	0.68	1.032	0					2.96
55.333	0.00	0.68	1.031	0					2.96
55.350	0.00	0.68	1.031	0					2.96
55.367	0.00	0.68	1.030	0					2.96
55.383	0.00	0.68	1.029	0					2.95
55.400	0.00	0.68	1.028	0					2.95
55.417	0.00	0.68	1.027	0					2.95
55.433	0.00	0.68	1.026	0					2.95
55.450	0.00	0.68	1.025	0					2.94
55.467	0.00	0.68	1.024	0					2.94
55.483	0.00	0.68	1.023	0					2.94
55.500	0.00	0.68	1.022	0					2.93
55.517	0.00	0.68	1.021	0					2.93
55.533	0.00	0.68	1.020	0					2.93
55.550	0.00	0.68	1.019	0					2.93
55.567	0.00	0.68	1.018	0					2.92

55.583	0.00	0.68	1.017	0					2.92
55.600	0.00	0.68	1.017	0					2.92
55.617	0.00	0.68	1.016	0					2.92
55.633	0.00	0.68	1.015	0					2.91
55.650	0.00	0.68	1.014	0					2.91
55.667	0.00	0.68	1.013	0					2.91
55.683	0.00	0.68	1.012	0					2.91
55.700	0.00	0.68	1.011	0					2.90
55.717	0.00	0.68	1.010	0					2.90
55.733	0.00	0.68	1.009	0					2.90
55.750	0.00	0.68	1.008	0					2.89
55.767	0.00	0.68	1.007	0					2.89
55.783	0.00	0.68	1.006	0					2.89
55.800	0.00	0.68	1.005	0					2.89
55.817	0.00	0.68	1.004	0					2.88
55.833	0.00	0.68	1.004	0					2.88
55.850	0.00	0.68	1.003	0					2.88
55.867	0.00	0.68	1.002	0					2.88
55.883	0.00	0.67	1.001	0					2.87
55.900	0.00	0.67	1.000	0					2.87
55.917	0.00	0.67	0.999	0					2.87
55.933	0.00	0.67	0.998	0					2.87
55.950	0.00	0.67	0.997	0					2.86
55.967	0.00	0.67	0.996	0					2.86
55.983	0.00	0.67	0.995	0					2.86
56.000	0.00	0.67	0.994	0					2.85
56.017	0.00	0.67	0.993	0					2.85
56.033	0.00	0.67	0.992	0					2.85
56.050	0.00	0.67	0.991	0					2.85
56.067	0.00	0.67	0.990	0					2.84
56.083	0.00	0.67	0.990	0					2.84
56.100	0.00	0.67	0.989	0					2.84
56.117	0.00	0.67	0.988	0					2.84
56.133	0.00	0.67	0.987	0					2.83
56.150	0.00	0.67	0.986	0					2.83
56.167	0.00	0.67	0.985	0					2.83
56.183	0.00	0.67	0.984	0					2.83
56.200	0.00	0.67	0.983	0					2.82
56.217	0.00	0.67	0.982	0					2.82
56.233	0.00	0.67	0.981	0					2.82
56.250	0.00	0.67	0.980	0					2.82
56.267	0.00	0.67	0.979	0					2.81
56.283	0.00	0.67	0.978	0					2.81
56.300	0.00	0.67	0.978	0					2.81
56.317	0.00	0.67	0.977	0					2.80
56.333	0.00	0.67	0.976	0					2.80
56.350	0.00	0.67	0.975	0					2.80
56.367	0.00	0.67	0.974	0					2.80
56.383	0.00	0.67	0.973	0					2.79
56.400	0.00	0.67	0.972	0					2.79
56.417	0.00	0.67	0.971	0					2.79
56.433	0.00	0.67	0.970	0					2.79
56.450	0.00	0.67	0.969	0					2.78
56.467	0.00	0.67	0.968	0					2.78
56.483	0.00	0.67	0.967	0					2.78
56.500	0.00	0.67	0.966	0					2.78
56.517	0.00	0.67	0.965	0					2.77
56.533	0.00	0.67	0.965	0					2.77
56.550	0.00	0.67	0.964	0					2.77
56.567	0.00	0.67	0.963	0					2.76
56.583	0.00	0.67	0.962	0					2.76
56.600	0.00	0.67	0.961	0					2.76
56.617	0.00	0.67	0.960	0					2.76
56.633	0.00	0.67	0.959	0					2.75
56.650	0.00	0.67	0.958	0					2.75
56.667	0.00	0.67	0.957	0					2.75
56.683	0.00	0.67	0.956	0					2.75
56.700	0.00	0.67	0.955	0					2.74
56.717	0.00	0.67	0.954	0					2.74
56.733	0.00	0.67	0.953	0					2.74
56.750	0.00	0.67	0.953	0					2.74

56.767	0.00	0.67	0.952	0					2.73
56.783	0.00	0.67	0.951	0					2.73
56.800	0.00	0.67	0.950	0					2.73
56.817	0.00	0.67	0.949	0					2.73
56.833	0.00	0.67	0.948	0					2.72
56.850	0.00	0.67	0.947	0					2.72
56.867	0.00	0.67	0.946	0					2.72
56.883	0.00	0.67	0.945	0					2.71
56.900	0.00	0.67	0.944	0					2.71
56.917	0.00	0.67	0.943	0					2.71
56.933	0.00	0.67	0.942	0					2.71
56.950	0.00	0.67	0.942	0					2.70
56.967	0.00	0.67	0.941	0					2.70
56.983	0.00	0.67	0.940	0					2.70
57.000	0.00	0.67	0.939	0					2.70
57.017	0.00	0.67	0.938	0					2.69
57.033	0.00	0.67	0.937	0					2.69
57.050	0.00	0.67	0.936	0					2.69
57.067	0.00	0.67	0.935	0					2.69
57.083	0.00	0.67	0.934	0					2.68
57.100	0.00	0.67	0.933	0					2.68
57.117	0.00	0.67	0.932	0					2.68
57.133	0.00	0.67	0.931	0					2.68
57.150	0.00	0.67	0.930	0					2.67
57.167	0.00	0.67	0.930	0					2.67
57.183	0.00	0.67	0.929	0					2.67
57.200	0.00	0.67	0.928	0					2.66
57.217	0.00	0.67	0.927	0					2.66
57.233	0.00	0.67	0.926	0					2.66
57.250	0.00	0.67	0.925	0					2.66
57.267	0.00	0.67	0.924	0					2.65
57.283	0.00	0.67	0.923	0					2.65
57.300	0.00	0.67	0.922	0					2.65
57.317	0.00	0.67	0.921	0					2.65
57.333	0.00	0.67	0.920	0					2.64
57.350	0.00	0.67	0.919	0					2.64
57.367	0.00	0.67	0.919	0					2.64
57.383	0.00	0.67	0.918	0					2.64
57.400	0.00	0.67	0.917	0					2.63
57.417	0.00	0.67	0.916	0					2.63
57.433	0.00	0.67	0.915	0					2.63
57.450	0.00	0.67	0.914	0					2.63
57.467	0.00	0.66	0.913	0					2.62
57.483	0.00	0.66	0.912	0					2.62
57.500	0.00	0.66	0.911	0					2.62
57.517	0.00	0.66	0.910	0					2.62
57.533	0.00	0.66	0.909	0					2.61
57.550	0.00	0.66	0.908	0					2.61
57.567	0.00	0.66	0.908	0					2.61
57.583	0.00	0.66	0.907	0					2.60
57.600	0.00	0.66	0.906	0					2.60
57.617	0.00	0.66	0.905	0					2.60
57.633	0.00	0.66	0.904	0					2.60
57.650	0.00	0.66	0.903	0					2.59
57.667	0.00	0.66	0.902	0					2.59
57.683	0.00	0.66	0.901	0					2.59
57.700	0.00	0.66	0.900	0					2.59
57.717	0.00	0.66	0.899	0					2.58
57.733	0.00	0.66	0.898	0					2.58
57.750	0.00	0.66	0.898	0					2.58
57.767	0.00	0.66	0.897	0					2.58
57.783	0.00	0.66	0.896	0					2.57
57.800	0.00	0.66	0.895	0					2.57
57.817	0.00	0.66	0.894	0					2.57
57.833	0.00	0.66	0.893	0					2.57
57.850	0.00	0.66	0.892	0					2.56
57.867	0.00	0.66	0.891	0					2.56
57.883	0.00	0.66	0.890	0					2.56
57.900	0.00	0.66	0.889	0					2.56
57.917	0.00	0.66	0.888	0					2.55
57.933	0.00	0.66	0.887	0					2.55

57.950	0.00	0.66	0.887	0					2.55
57.967	0.00	0.66	0.886	0					2.54
57.983	0.00	0.66	0.885	0					2.54
58.000	0.00	0.66	0.884	0					2.54
58.017	0.00	0.66	0.883	0					2.54
58.033	0.00	0.66	0.882	0					2.53
58.050	0.00	0.66	0.881	0					2.53
58.067	0.00	0.66	0.880	0					2.53
58.083	0.00	0.66	0.879	0					2.53
58.100	0.00	0.66	0.878	0					2.52
58.117	0.00	0.66	0.877	0					2.52
58.133	0.00	0.66	0.877	0					2.52
58.150	0.00	0.66	0.876	0					2.52
58.167	0.00	0.66	0.875	0					2.51
58.183	0.00	0.66	0.874	0					2.51
58.200	0.00	0.66	0.873	0					2.51
58.217	0.00	0.66	0.872	0					2.51
58.233	0.00	0.66	0.871	0					2.50
58.250	0.00	0.66	0.870	0					2.50
58.267	0.00	0.66	0.869	0					2.50
58.283	0.00	0.66	0.868	0					2.50
58.300	0.00	0.66	0.867	0					2.49
58.317	0.00	0.66	0.867	0					2.49
58.333	0.00	0.66	0.866	0					2.49
58.350	0.00	0.66	0.865	0					2.48
58.367	0.00	0.66	0.864	0					2.48
58.383	0.00	0.66	0.863	0					2.48
58.400	0.00	0.66	0.862	0					2.48
58.417	0.00	0.66	0.861	0					2.47
58.433	0.00	0.66	0.860	0					2.47
58.450	0.00	0.66	0.859	0					2.47
58.467	0.00	0.66	0.858	0					2.47
58.483	0.00	0.66	0.857	0					2.46
58.500	0.00	0.66	0.857	0					2.46
58.517	0.00	0.66	0.856	0					2.46
58.533	0.00	0.66	0.855	0					2.46
58.550	0.00	0.66	0.854	0					2.45
58.567	0.00	0.66	0.853	0					2.45
58.583	0.00	0.66	0.852	0					2.45
58.600	0.00	0.66	0.851	0					2.45
58.617	0.00	0.66	0.850	0					2.44
58.633	0.00	0.66	0.849	0					2.44
58.650	0.00	0.66	0.848	0					2.44
58.667	0.00	0.66	0.847	0					2.44
58.683	0.00	0.66	0.847	0					2.43
58.700	0.00	0.66	0.846	0					2.43
58.717	0.00	0.66	0.845	0					2.43
58.733	0.00	0.66	0.844	0					2.43
58.750	0.00	0.66	0.843	0					2.42
58.767	0.00	0.66	0.842	0					2.42
58.783	0.00	0.66	0.841	0					2.42
58.800	0.00	0.66	0.840	0					2.41
58.817	0.00	0.66	0.839	0					2.41
58.833	0.00	0.66	0.838	0					2.41
58.850	0.00	0.66	0.838	0					2.41
58.867	0.00	0.66	0.837	0					2.40
58.883	0.00	0.66	0.836	0					2.40
58.900	0.00	0.66	0.835	0					2.40
58.917	0.00	0.66	0.834	0					2.40
58.933	0.00	0.66	0.833	0					2.39
58.950	0.00	0.66	0.832	0					2.39
58.967	0.00	0.66	0.831	0					2.39
58.983	0.00	0.66	0.830	0					2.39
59.000	0.00	0.66	0.829	0					2.38
59.017	0.00	0.66	0.828	0					2.38
59.033	0.00	0.66	0.828	0					2.38
59.050	0.00	0.66	0.827	0					2.38
59.067	0.00	0.65	0.826	0					2.37
59.083	0.00	0.65	0.825	0					2.37
59.100	0.00	0.65	0.824	0					2.37
59.117	0.00	0.65	0.823	0					2.37

59.133	0.00	0.65	0.822	0					2.36
59.150	0.00	0.65	0.821	0					2.36
59.167	0.00	0.65	0.820	0					2.36
59.183	0.00	0.65	0.819	0					2.36
59.200	0.00	0.65	0.819	0					2.35
59.217	0.00	0.65	0.818	0					2.35
59.233	0.00	0.65	0.817	0					2.35
59.250	0.00	0.65	0.816	0					2.35
59.267	0.00	0.65	0.815	0					2.34
59.283	0.00	0.65	0.814	0					2.34
59.300	0.00	0.65	0.813	0					2.34
59.317	0.00	0.65	0.812	0					2.34
59.333	0.00	0.65	0.811	0					2.33
59.350	0.00	0.65	0.810	0					2.33
59.367	0.00	0.65	0.810	0					2.33
59.383	0.00	0.65	0.809	0					2.32
59.400	0.00	0.65	0.808	0					2.32
59.417	0.00	0.65	0.807	0					2.32
59.433	0.00	0.65	0.806	0					2.32
59.450	0.00	0.65	0.805	0					2.31
59.467	0.00	0.65	0.804	0					2.31
59.483	0.00	0.65	0.803	0					2.31
59.500	0.00	0.65	0.802	0					2.31
59.517	0.00	0.65	0.801	0					2.30
59.533	0.00	0.65	0.801	0					2.30
59.550	0.00	0.65	0.800	0					2.30
59.567	0.00	0.65	0.799	0					2.30
59.583	0.00	0.65	0.798	0					2.29
59.600	0.00	0.65	0.797	0					2.29
59.617	0.00	0.65	0.796	0					2.29
59.633	0.00	0.65	0.795	0					2.29
59.650	0.00	0.65	0.794	0					2.28
59.667	0.00	0.65	0.793	0					2.28
59.683	0.00	0.65	0.793	0					2.28
59.700	0.00	0.65	0.792	0					2.28
59.717	0.00	0.65	0.791	0					2.27
59.733	0.00	0.65	0.790	0					2.27
59.750	0.00	0.65	0.789	0					2.27
59.767	0.00	0.65	0.788	0					2.27
59.783	0.00	0.65	0.787	0					2.26
59.800	0.00	0.65	0.786	0					2.26
59.817	0.00	0.65	0.785	0					2.26
59.833	0.00	0.65	0.784	0					2.26
59.850	0.00	0.65	0.784	0					2.25
59.867	0.00	0.65	0.783	0					2.25
59.883	0.00	0.65	0.782	0					2.25
59.900	0.00	0.65	0.781	0					2.25
59.917	0.00	0.65	0.780	0					2.24
59.933	0.00	0.65	0.779	0					2.24
59.950	0.00	0.65	0.778	0					2.24
59.967	0.00	0.65	0.777	0					2.24
59.983	0.00	0.65	0.776	0					2.23
60.000	0.00	0.65	0.775	0					2.23
60.017	0.00	0.65	0.775	0					2.23
60.033	0.00	0.65	0.774	0					2.22
60.050	0.00	0.65	0.773	0					2.22
60.067	0.00	0.65	0.772	0					2.22
60.083	0.00	0.65	0.771	0					2.22
60.100	0.00	0.65	0.770	0					2.21
60.117	0.00	0.65	0.769	0					2.21
60.133	0.00	0.65	0.768	0					2.21
60.150	0.00	0.65	0.767	0					2.21
60.167	0.00	0.65	0.767	0					2.20
60.183	0.00	0.65	0.766	0					2.20
60.200	0.00	0.65	0.765	0					2.20
60.217	0.00	0.65	0.764	0					2.20
60.233	0.00	0.65	0.763	0					2.19
60.250	0.00	0.65	0.762	0					2.19
60.267	0.00	0.65	0.761	0					2.19
60.283	0.00	0.65	0.760	0					2.19
60.300	0.00	0.65	0.759	0					2.18

60.317	0.00	0.65	0.759	0					2.18
60.333	0.00	0.65	0.758	0					2.18
60.350	0.00	0.65	0.757	0					2.18
60.367	0.00	0.65	0.756	0					2.17
60.383	0.00	0.65	0.755	0					2.17
60.400	0.00	0.65	0.754	0					2.17
60.417	0.00	0.65	0.753	0					2.17
60.433	0.00	0.65	0.752	0					2.16
60.450	0.00	0.65	0.751	0					2.16
60.467	0.00	0.65	0.751	0					2.16
60.483	0.00	0.65	0.750	0					2.16
60.500	0.00	0.65	0.749	0					2.15
60.517	0.00	0.65	0.748	0					2.15
60.533	0.00	0.65	0.747	0					2.15
60.550	0.00	0.65	0.746	0					2.15
60.567	0.00	0.65	0.745	0					2.14
60.583	0.00	0.65	0.744	0					2.14
60.600	0.00	0.65	0.743	0					2.14
60.617	0.00	0.65	0.743	0					2.14
60.633	0.00	0.65	0.742	0					2.13
60.650	0.00	0.65	0.741	0					2.13
60.667	0.00	0.65	0.740	0					2.13
60.683	0.00	0.65	0.739	0					2.13
60.700	0.00	0.64	0.738	0					2.12
60.717	0.00	0.64	0.737	0					2.12
60.733	0.00	0.64	0.736	0					2.12
60.750	0.00	0.64	0.735	0					2.12
60.767	0.00	0.64	0.735	0					2.11
60.783	0.00	0.64	0.734	0					2.11
60.800	0.00	0.64	0.733	0					2.11
60.817	0.00	0.64	0.732	0					2.11
60.833	0.00	0.64	0.731	0					2.10
60.850	0.00	0.64	0.730	0					2.10
60.867	0.00	0.64	0.729	0					2.10
60.883	0.00	0.64	0.728	0					2.10
60.900	0.00	0.64	0.727	0					2.09
60.917	0.00	0.64	0.727	0					2.09
60.933	0.00	0.64	0.726	0					2.09
60.950	0.00	0.64	0.725	0					2.09
60.967	0.00	0.64	0.724	0					2.08
60.983	0.00	0.64	0.723	0					2.08
61.000	0.00	0.64	0.722	0					2.08
61.017	0.00	0.64	0.721	0					2.07
61.033	0.00	0.64	0.720	0					2.07
61.050	0.00	0.64	0.719	0					2.07
61.067	0.00	0.64	0.719	0					2.07
61.083	0.00	0.64	0.718	0					2.06
61.100	0.00	0.64	0.717	0					2.06
61.117	0.00	0.64	0.716	0					2.06
61.133	0.00	0.64	0.715	0					2.06
61.150	0.00	0.64	0.714	0					2.05
61.167	0.00	0.64	0.713	0					2.05
61.183	0.00	0.64	0.712	0					2.05
61.200	0.00	0.64	0.711	0					2.05
61.217	0.00	0.64	0.711	0					2.04
61.233	0.00	0.64	0.710	0					2.04
61.250	0.00	0.64	0.709	0					2.04
61.267	0.00	0.64	0.708	0					2.04
61.283	0.00	0.64	0.707	0					2.03
61.300	0.00	0.64	0.706	0					2.03
61.317	0.00	0.64	0.705	0					2.03
61.333	0.00	0.64	0.704	0					2.03
61.350	0.00	0.64	0.704	0					2.02
61.367	0.00	0.64	0.703	0					2.02
61.383	0.00	0.64	0.702	0					2.02
61.400	0.00	0.64	0.701	0					2.02
61.417	0.00	0.64	0.700	0					2.01
61.433	0.00	0.64	0.699	0					2.01
61.450	0.00	0.64	0.698	0					2.01
61.467	0.00	0.64	0.697	0					2.01
61.483	0.00	0.64	0.696	0					2.00

61.500	0.00	0.64	0.696	0					2.00
61.517	0.00	0.64	0.695	0					2.00
61.533	0.00	0.64	0.694	0					2.00
61.550	0.00	0.64	0.693	0					1.99
61.567	0.00	0.64	0.692	0					1.99
61.583	0.00	0.64	0.691	0					1.99
61.600	0.00	0.64	0.690	0					1.99
61.617	0.00	0.64	0.689	0					1.98
61.633	0.00	0.64	0.689	0					1.98
61.650	0.00	0.64	0.688	0					1.98
61.667	0.00	0.64	0.687	0					1.98
61.683	0.00	0.64	0.686	0					1.97
61.700	0.00	0.64	0.685	0					1.97
61.717	0.00	0.64	0.684	0					1.97
61.733	0.00	0.64	0.683	0					1.97
61.750	0.00	0.64	0.682	0					1.96
61.767	0.00	0.64	0.681	0					1.96
61.783	0.00	0.64	0.681	0					1.96
61.800	0.00	0.64	0.680	0					1.96
61.817	0.00	0.64	0.679	0					1.95
61.833	0.00	0.64	0.678	0					1.95
61.850	0.00	0.64	0.677	0					1.95
61.867	0.00	0.64	0.676	0					1.95
61.883	0.00	0.64	0.675	0					1.94
61.900	0.00	0.64	0.674	0					1.94
61.917	0.00	0.64	0.674	0					1.94
61.933	0.00	0.64	0.673	0					1.94
61.950	0.00	0.64	0.672	0					1.93
61.967	0.00	0.64	0.671	0					1.93
61.983	0.00	0.64	0.670	0					1.93
62.000	0.00	0.64	0.669	0					1.93
62.017	0.00	0.64	0.668	0					1.92
62.033	0.00	0.64	0.667	0					1.92
62.050	0.00	0.64	0.667	0					1.92
62.067	0.00	0.64	0.666	0					1.92
62.083	0.00	0.64	0.665	0					1.91
62.100	0.00	0.64	0.664	0					1.91
62.117	0.00	0.64	0.663	0					1.91
62.133	0.00	0.64	0.662	0					1.91
62.150	0.00	0.64	0.661	0					1.90
62.167	0.00	0.64	0.660	0					1.90
62.183	0.00	0.64	0.660	0					1.90
62.200	0.00	0.64	0.659	0					1.90
62.217	0.00	0.64	0.658	0					1.89
62.233	0.00	0.64	0.657	0					1.89
62.250	0.00	0.64	0.656	0					1.89
62.267	0.00	0.64	0.655	0					1.89
62.283	0.00	0.64	0.654	0					1.88
62.300	0.00	0.64	0.653	0					1.88
62.317	0.00	0.64	0.653	0					1.88
62.333	0.00	0.64	0.652	0					1.88
62.350	0.00	0.63	0.651	0					1.87
62.367	0.00	0.63	0.650	0					1.87
62.383	0.00	0.63	0.649	0					1.87
62.400	0.00	0.63	0.648	0					1.87
62.417	0.00	0.63	0.647	0					1.86
62.433	0.00	0.63	0.646	0					1.86
62.450	0.00	0.63	0.646	0					1.86
62.467	0.00	0.63	0.645	0					1.86
62.483	0.00	0.63	0.644	0					1.85
62.500	0.00	0.63	0.643	0					1.85
62.517	0.00	0.63	0.642	0					1.85
62.533	0.00	0.63	0.641	0					1.85
62.550	0.00	0.63	0.640	0					1.84
62.567	0.00	0.63	0.639	0					1.84
62.583	0.00	0.63	0.639	0					1.84
62.600	0.00	0.63	0.638	0					1.84
62.617	0.00	0.63	0.637	0					1.83
62.633	0.00	0.63	0.636	0					1.83
62.650	0.00	0.63	0.635	0					1.83
62.667	0.00	0.63	0.634	0					1.83

62.683	0.00	0.63	0.633	0					1.82
62.700	0.00	0.63	0.632	0					1.82
62.717	0.00	0.63	0.632	0					1.82
62.733	0.00	0.63	0.631	0					1.82
62.750	0.00	0.63	0.630	0					1.81
62.767	0.00	0.63	0.629	0					1.81
62.783	0.00	0.63	0.628	0					1.81
62.800	0.00	0.63	0.627	0					1.81
62.817	0.00	0.63	0.626	0					1.80
62.833	0.00	0.63	0.625	0					1.80
62.850	0.00	0.63	0.625	0					1.80
62.867	0.00	0.63	0.624	0					1.80
62.883	0.00	0.63	0.623	0					1.79
62.900	0.00	0.63	0.622	0					1.79
62.917	0.00	0.63	0.621	0					1.79
62.933	0.00	0.63	0.620	0					1.79
62.950	0.00	0.63	0.619	0					1.78
62.967	0.00	0.63	0.619	0					1.78
62.983	0.00	0.63	0.618	0					1.78
63.000	0.00	0.63	0.617	0					1.78
63.017	0.00	0.63	0.616	0					1.77
63.033	0.00	0.63	0.615	0					1.77
63.050	0.00	0.63	0.614	0					1.77
63.067	0.00	0.63	0.613	0					1.77
63.083	0.00	0.63	0.612	0					1.76
63.100	0.00	0.63	0.612	0					1.76
63.117	0.00	0.63	0.611	0					1.76
63.133	0.00	0.63	0.610	0					1.76
63.150	0.00	0.63	0.609	0					1.75
63.167	0.00	0.63	0.608	0					1.75
63.183	0.00	0.63	0.607	0					1.75
63.200	0.00	0.63	0.606	0					1.75
63.217	0.00	0.63	0.606	0					1.74
63.233	0.00	0.63	0.605	0					1.74
63.250	0.00	0.63	0.604	0					1.74
63.267	0.00	0.63	0.603	0					1.74
63.283	0.00	0.63	0.602	0					1.73
63.300	0.00	0.63	0.601	0					1.73
63.317	0.00	0.63	0.600	0					1.73
63.333	0.00	0.63	0.599	0					1.73
63.350	0.00	0.63	0.599	0					1.72
63.367	0.00	0.63	0.598	0					1.72
63.383	0.00	0.63	0.597	0					1.72
63.400	0.00	0.63	0.596	0					1.72
63.417	0.00	0.63	0.595	0					1.71
63.433	0.00	0.63	0.594	0					1.71
63.450	0.00	0.63	0.593	0					1.71
63.467	0.00	0.63	0.593	0					1.71
63.483	0.00	0.63	0.592	0					1.70
63.500	0.00	0.63	0.591	0					1.70
63.517	0.00	0.63	0.590	0					1.70
63.533	0.00	0.63	0.589	0					1.70
63.550	0.00	0.63	0.588	0					1.69
63.567	0.00	0.63	0.587	0					1.69
63.583	0.00	0.63	0.586	0					1.69
63.600	0.00	0.63	0.586	0					1.69
63.617	0.00	0.63	0.585	0					1.68
63.633	0.00	0.63	0.584	0					1.68
63.650	0.00	0.63	0.583	0					1.68
63.667	0.00	0.63	0.582	0					1.68
63.683	0.00	0.63	0.581	0					1.68
63.700	0.00	0.63	0.580	0					1.67
63.717	0.00	0.63	0.580	0					1.67
63.733	0.00	0.63	0.579	0					1.67
63.750	0.00	0.63	0.578	0					1.67
63.767	0.00	0.63	0.577	0					1.66
63.783	0.00	0.63	0.576	0					1.66
63.800	0.00	0.63	0.575	0					1.66
63.817	0.00	0.63	0.574	0					1.66
63.833	0.00	0.63	0.574	0					1.65
63.850	0.00	0.63	0.573	0					1.65

63.867	0.00	0.63	0.572	0					1.65
63.883	0.00	0.63	0.571	0					1.65
63.900	0.00	0.63	0.570	0					1.64
63.917	0.00	0.63	0.569	0					1.64
63.933	0.00	0.63	0.568	0					1.64
63.950	0.00	0.63	0.567	0					1.64
63.967	0.00	0.63	0.567	0					1.63
63.983	0.00	0.63	0.566	0					1.63
64.000	0.00	0.63	0.565	0					1.63
64.017	0.00	0.63	0.564	0					1.63
64.033	0.00	0.62	0.563	0					1.62
64.050	0.00	0.62	0.562	0					1.62
64.067	0.00	0.62	0.561	0					1.62
64.083	0.00	0.62	0.561	0					1.62
64.100	0.00	0.62	0.560	0					1.61
64.117	0.00	0.62	0.559	0					1.61
64.133	0.00	0.62	0.558	0					1.61
64.150	0.00	0.62	0.557	0					1.61
64.167	0.00	0.62	0.556	0					1.60
64.183	0.00	0.62	0.555	0					1.60
64.200	0.00	0.62	0.555	0					1.60
64.217	0.00	0.62	0.554	0					1.60
64.233	0.00	0.62	0.553	0					1.59
64.250	0.00	0.62	0.552	0					1.59
64.267	0.00	0.62	0.551	0					1.59
64.283	0.00	0.62	0.550	0					1.59
64.300	0.00	0.62	0.549	0					1.58
64.317	0.00	0.62	0.549	0					1.58
64.333	0.00	0.62	0.548	0					1.58
64.350	0.00	0.62	0.547	0					1.58
64.367	0.00	0.62	0.546	0					1.57
64.383	0.00	0.62	0.545	0					1.57
64.400	0.00	0.62	0.544	0					1.57
64.417	0.00	0.62	0.543	0					1.57
64.433	0.00	0.62	0.543	0					1.56
64.450	0.00	0.62	0.542	0					1.56
64.467	0.00	0.62	0.541	0					1.56
64.483	0.00	0.62	0.540	0					1.56
64.500	0.00	0.62	0.539	0					1.55
64.517	0.00	0.62	0.538	0					1.55
64.533	0.00	0.62	0.537	0					1.55
64.550	0.00	0.62	0.537	0					1.55
64.567	0.00	0.62	0.536	0					1.54
64.583	0.00	0.62	0.535	0					1.54
64.600	0.00	0.62	0.534	0					1.54
64.617	0.00	0.62	0.533	0					1.54
64.633	0.00	0.62	0.532	0					1.54
64.650	0.00	0.62	0.531	0					1.53
64.667	0.00	0.62	0.531	0					1.53
64.683	0.00	0.62	0.530	0					1.53
64.700	0.00	0.62	0.529	0					1.53
64.717	0.00	0.62	0.528	0					1.52
64.733	0.00	0.62	0.527	0					1.52
64.750	0.00	0.62	0.526	0					1.52
64.767	0.00	0.62	0.525	0					1.52
64.783	0.00	0.62	0.525	0					1.51
64.800	0.00	0.62	0.524	0					1.51
64.817	0.00	0.62	0.523	0					1.51
64.833	0.00	0.62	0.522	0					1.51
64.850	0.00	0.62	0.521	0					1.50
64.867	0.00	0.62	0.520	0					1.50
64.883	0.00	0.62	0.519	0					1.50
64.900	0.00	0.62	0.519	0					1.50
64.917	0.00	0.62	0.518	0					1.49
64.933	0.00	0.62	0.517	0					1.49
64.950	0.00	0.62	0.516	0					1.49
64.967	0.00	0.62	0.515	0					1.49
64.983	0.00	0.62	0.514	0					1.48
65.000	0.00	0.62	0.513	0					1.48
65.017	0.00	0.62	0.513	0					1.48
65.033	0.00	0.62	0.512	0					1.48

65.050	0.00	0.62	0.511	0					1.47
65.067	0.00	0.62	0.510	0					1.47
65.083	0.00	0.62	0.509	0					1.47
65.100	0.00	0.62	0.508	0					1.47
65.117	0.00	0.62	0.508	0					1.46
65.133	0.00	0.62	0.507	0					1.46
65.150	0.00	0.62	0.506	0					1.46
65.167	0.00	0.62	0.505	0					1.46
65.183	0.00	0.62	0.504	0					1.45
65.200	0.00	0.62	0.503	0					1.45
65.217	0.00	0.62	0.502	0					1.45
65.233	0.00	0.62	0.502	0					1.45
65.250	0.00	0.62	0.501	0					1.44
65.267	0.00	0.62	0.500	0					1.44
65.283	0.00	0.62	0.499	0					1.44
65.300	0.00	0.62	0.498	0					1.44
65.317	0.00	0.62	0.497	0					1.43
65.333	0.00	0.62	0.496	0					1.43
65.350	0.00	0.62	0.496	0					1.43
65.367	0.00	0.62	0.495	0					1.43
65.383	0.00	0.62	0.494	0					1.42
65.400	0.00	0.62	0.493	0					1.42
65.417	0.00	0.62	0.492	0					1.42
65.433	0.00	0.61	0.491	0					1.42
65.450	0.00	0.61	0.491	0					1.41
65.467	0.00	0.61	0.490	0					1.41
65.483	0.00	0.61	0.489	0					1.41
65.500	0.00	0.61	0.488	0					1.41
65.517	0.00	0.61	0.487	0					1.40
65.533	0.00	0.61	0.486	0					1.40
65.550	0.00	0.61	0.485	0					1.40
65.567	0.00	0.61	0.485	0					1.40
65.583	0.00	0.61	0.484	0					1.39
65.600	0.00	0.61	0.483	0					1.39
65.617	0.00	0.61	0.482	0					1.39
65.633	0.00	0.61	0.481	0					1.39
65.650	0.00	0.61	0.480	0					1.38
65.667	0.00	0.61	0.480	0					1.38
65.683	0.00	0.61	0.479	0					1.38
65.700	0.00	0.61	0.478	0					1.38
65.717	0.00	0.61	0.477	0					1.37
65.733	0.00	0.61	0.476	0					1.37
65.750	0.00	0.61	0.475	0					1.37
65.767	0.00	0.61	0.474	0					1.37
65.783	0.00	0.61	0.474	0					1.36
65.800	0.00	0.61	0.473	0					1.36
65.817	0.00	0.61	0.472	0					1.36
65.833	0.00	0.61	0.471	0					1.36
65.850	0.00	0.61	0.470	0					1.35
65.867	0.00	0.61	0.469	0					1.35
65.883	0.00	0.61	0.469	0					1.35
65.900	0.00	0.61	0.468	0					1.35
65.917	0.00	0.61	0.467	0					1.34
65.933	0.00	0.61	0.466	0					1.34
65.950	0.00	0.61	0.465	0					1.34
65.967	0.00	0.61	0.464	0					1.34
65.983	0.00	0.61	0.464	0					1.33
66.000	0.00	0.61	0.463	0					1.33
66.017	0.00	0.61	0.462	0					1.33
66.033	0.00	0.61	0.461	0					1.33
66.050	0.00	0.61	0.460	0					1.32
66.067	0.00	0.61	0.459	0					1.32
66.083	0.00	0.61	0.458	0					1.32
66.100	0.00	0.61	0.458	0					1.32
66.117	0.00	0.61	0.457	0					1.31
66.133	0.00	0.61	0.456	0					1.31
66.150	0.00	0.61	0.455	0					1.31
66.167	0.00	0.61	0.454	0					1.31
66.183	0.00	0.61	0.453	0					1.30
66.200	0.00	0.61	0.453	0					1.30
66.217	0.00	0.61	0.452	0					1.30

66.233	0.00	0.61	0.451	0					1.30
66.250	0.00	0.61	0.450	0					1.29
66.267	0.00	0.61	0.449	0					1.29
66.283	0.00	0.61	0.448	0					1.29
66.300	0.00	0.61	0.448	0					1.29
66.317	0.00	0.61	0.447	0					1.28
66.333	0.00	0.61	0.446	0					1.28
66.350	0.00	0.61	0.445	0					1.28
66.367	0.00	0.61	0.444	0					1.28
66.383	0.00	0.61	0.443	0					1.27
66.400	0.00	0.61	0.443	0					1.27
66.417	0.00	0.61	0.442	0					1.27
66.433	0.00	0.61	0.441	0					1.27
66.450	0.00	0.61	0.440	0					1.26
66.467	0.00	0.61	0.439	0					1.26
66.483	0.00	0.61	0.438	0					1.26
66.500	0.00	0.61	0.438	0					1.26
66.517	0.00	0.61	0.437	0					1.26
66.533	0.00	0.61	0.436	0					1.25
66.550	0.00	0.61	0.435	0					1.25
66.567	0.00	0.60	0.434	0					1.25
66.583	0.00	0.60	0.433	0					1.25
66.600	0.00	0.60	0.433	0					1.24
66.617	0.00	0.60	0.432	0					1.24
66.633	0.00	0.60	0.431	0					1.24
66.650	0.00	0.60	0.430	0					1.24
66.667	0.00	0.60	0.429	0					1.23
66.683	0.00	0.60	0.428	0					1.23
66.700	0.00	0.60	0.428	0					1.23
66.717	0.00	0.60	0.427	0					1.23
66.733	0.00	0.60	0.426	0					1.22
66.750	0.00	0.60	0.425	0					1.22
66.767	0.00	0.60	0.424	0					1.22
66.783	0.00	0.60	0.423	0					1.22
66.800	0.00	0.60	0.423	0					1.21
66.817	0.00	0.60	0.422	0					1.21
66.833	0.00	0.60	0.421	0					1.21
66.850	0.00	0.60	0.420	0					1.21
66.867	0.00	0.60	0.419	0					1.20
66.883	0.00	0.60	0.418	0					1.20
66.900	0.00	0.60	0.418	0					1.20
66.917	0.00	0.60	0.417	0					1.20
66.933	0.00	0.60	0.416	0					1.19
66.950	0.00	0.60	0.415	0					1.19
66.967	0.00	0.60	0.414	0					1.19
66.983	0.00	0.60	0.413	0					1.19
67.000	0.00	0.60	0.413	0					1.18
67.017	0.00	0.60	0.412	0					1.18
67.033	0.00	0.60	0.411	0					1.18
67.050	0.00	0.60	0.410	0					1.18
67.067	0.00	0.60	0.409	0					1.17
67.083	0.00	0.60	0.409	0					1.17
67.100	0.00	0.60	0.408	0					1.17
67.117	0.00	0.60	0.407	0					1.17
67.133	0.00	0.60	0.406	0					1.16
67.150	0.00	0.60	0.405	0					1.16
67.167	0.00	0.60	0.404	0					1.16
67.183	0.00	0.60	0.404	0					1.16
67.200	0.00	0.60	0.403	0					1.16
67.217	0.00	0.60	0.402	0					1.15
67.233	0.00	0.60	0.401	0					1.15
67.250	0.00	0.60	0.400	0					1.15
67.267	0.00	0.60	0.399	0					1.15
67.283	0.00	0.60	0.399	0					1.14
67.300	0.00	0.60	0.398	0					1.14
67.317	0.00	0.60	0.397	0					1.14
67.333	0.00	0.60	0.396	0					1.14
67.350	0.00	0.60	0.395	0					1.13
67.367	0.00	0.60	0.394	0					1.13
67.383	0.00	0.60	0.394	0					1.13
67.400	0.00	0.60	0.393	0					1.13

67.417	0.00	0.60	0.392	0					1.12
67.433	0.00	0.60	0.391	0					1.12
67.450	0.00	0.60	0.390	0					1.12
67.467	0.00	0.60	0.390	0					1.12
67.483	0.00	0.60	0.389	0					1.11
67.500	0.00	0.60	0.388	0					1.11
67.517	0.00	0.60	0.387	0					1.11
67.533	0.00	0.60	0.386	0					1.11
67.550	0.00	0.60	0.385	0					1.10
67.567	0.00	0.60	0.385	0					1.10
67.583	0.00	0.60	0.384	0					1.10
67.600	0.00	0.60	0.383	0					1.10
67.617	0.00	0.60	0.382	0					1.09
67.633	0.00	0.60	0.381	0					1.09
67.650	0.00	0.60	0.381	0					1.09
67.667	0.00	0.60	0.380	0					1.09
67.683	0.00	0.60	0.379	0					1.08
67.700	0.00	0.59	0.378	0					1.08
67.717	0.00	0.59	0.377	0					1.08
67.733	0.00	0.59	0.376	0					1.08
67.750	0.00	0.59	0.376	0					1.08
67.767	0.00	0.59	0.375	0					1.07
67.783	0.00	0.59	0.374	0					1.07
67.800	0.00	0.59	0.373	0					1.07
67.817	0.00	0.59	0.372	0					1.07
67.833	0.00	0.59	0.372	0					1.06
67.850	0.00	0.59	0.371	0					1.06
67.867	0.00	0.59	0.370	0					1.06
67.883	0.00	0.59	0.369	0					1.06
67.900	0.00	0.59	0.368	0					1.05
67.917	0.00	0.59	0.367	0					1.05
67.933	0.00	0.59	0.367	0					1.05
67.950	0.00	0.59	0.366	0					1.05
67.967	0.00	0.59	0.365	0					1.04
67.983	0.00	0.59	0.364	0					1.04
68.000	0.00	0.59	0.363	0					1.04
68.017	0.00	0.59	0.363	0					1.04
68.033	0.00	0.59	0.362	0					1.03
68.050	0.00	0.59	0.361	0					1.03
68.067	0.00	0.59	0.360	0					1.03
68.083	0.00	0.59	0.359	0					1.03
68.100	0.00	0.59	0.358	0					1.02
68.117	0.00	0.59	0.358	0					1.02
68.133	0.00	0.59	0.357	0					1.02
68.150	0.00	0.59	0.356	0					1.02
68.167	0.00	0.59	0.355	0					1.02
68.183	0.00	0.59	0.354	0					1.01
68.200	0.00	0.59	0.354	0					1.01
68.217	0.00	0.59	0.353	0					1.01
68.233	0.00	0.59	0.352	0					1.01
68.250	0.00	0.59	0.351	0					1.00
68.267	0.00	0.59	0.350	0					1.00
68.283	0.00	0.59	0.350	0					1.00
68.300	0.00	0.59	0.349	0					1.00
68.317	0.00	0.59	0.348	0					0.99
68.333	0.00	0.59	0.347	0					0.99
68.350	0.00	0.58	0.346	0					0.99
68.367	0.00	0.58	0.345	0					0.99
68.383	0.00	0.58	0.345	0					0.98
68.400	0.00	0.58	0.344	0					0.98
68.417	0.00	0.58	0.343	0					0.98
68.433	0.00	0.58	0.342	0					0.98
68.450	0.00	0.58	0.341	0					0.98
68.467	0.00	0.57	0.341	0					0.97
68.483	0.00	0.57	0.340	0					0.97
68.500	0.00	0.57	0.339	0					0.97
68.517	0.00	0.57	0.338	0					0.97
68.533	0.00	0.57	0.338	0					0.96
68.550	0.00	0.57	0.337	0					0.96
68.567	0.00	0.57	0.336	0					0.96
68.583	0.00	0.57	0.335	0					0.96

68.600	0.00	0.56	0.334	0					0.96
68.617	0.00	0.56	0.334	0					0.95
68.633	0.00	0.56	0.333	0					0.95
68.650	0.00	0.56	0.332	0					0.95
68.667	0.00	0.56	0.331	0					0.95
68.683	0.00	0.56	0.331	0					0.94
68.700	0.00	0.56	0.330	0					0.94
68.717	0.00	0.55	0.329	0					0.94
68.733	0.00	0.55	0.328	0					0.94
68.750	0.00	0.55	0.328	0					0.94
68.767	0.00	0.55	0.327	0					0.93
68.783	0.00	0.55	0.326	0					0.93
68.800	0.00	0.55	0.325	0					0.93
68.817	0.00	0.55	0.324	0					0.93
68.833	0.00	0.55	0.324	0					0.92
68.850	0.00	0.54	0.323	0					0.92
68.867	0.00	0.54	0.322	0					0.92
68.883	0.00	0.54	0.321	0					0.92
68.900	0.00	0.54	0.321	0					0.92
68.917	0.00	0.54	0.320	0					0.91
68.933	0.00	0.54	0.319	0					0.91
68.950	0.00	0.54	0.319	0					0.91
68.967	0.00	0.54	0.318	0					0.91
68.983	0.00	0.53	0.317	0					0.91
69.000	0.00	0.53	0.316	0					0.90
69.017	0.00	0.53	0.316	0					0.90
69.033	0.00	0.53	0.315	0					0.90
69.050	0.00	0.53	0.314	0					0.90
69.067	0.00	0.53	0.313	0					0.90
69.083	0.00	0.53	0.313	0					0.89
69.100	0.00	0.53	0.312	0					0.89
69.117	0.00	0.52	0.311	0					0.89
69.133	0.00	0.52	0.310	0					0.89
69.150	0.00	0.52	0.310	0					0.88
69.167	0.00	0.52	0.309	0					0.88
69.183	0.00	0.52	0.308	0					0.88
69.200	0.00	0.52	0.308	0					0.88
69.217	0.00	0.52	0.307	0					0.88
69.233	0.00	0.52	0.306	0					0.87
69.250	0.00	0.51	0.305	0					0.87
69.267	0.00	0.51	0.305	0					0.87
69.283	0.00	0.51	0.304	0					0.87
69.300	0.00	0.51	0.303	0					0.87
69.317	0.00	0.51	0.303	0					0.86
69.333	0.00	0.51	0.302	0					0.86
69.350	0.00	0.51	0.301	0					0.86
69.367	0.00	0.51	0.301	0					0.86
69.383	0.00	0.51	0.300	0					0.86
69.400	0.00	0.50	0.299	0					0.85
69.417	0.00	0.50	0.298	0					0.85
69.433	0.00	0.50	0.298	0					0.85
69.450	0.00	0.50	0.297	0					0.85
69.467	0.00	0.50	0.296	0					0.85
69.483	0.00	0.50	0.296	0					0.84
69.500	0.00	0.50	0.295	0					0.84
69.517	0.00	0.50	0.294	0					0.84
69.533	0.00	0.49	0.294	0					0.84
69.550	0.00	0.49	0.293	0					0.84
69.567	0.00	0.49	0.292	0					0.84
69.583	0.00	0.49	0.292	0					0.83
69.600	0.00	0.49	0.291	0					0.83
69.617	0.00	0.49	0.290	0					0.83
69.633	0.00	0.49	0.290	0					0.83
69.650	0.00	0.49	0.289	0					0.83
69.667	0.00	0.49	0.288	0					0.82
69.683	0.00	0.48	0.288	0					0.82
69.700	0.00	0.48	0.287	0					0.82
69.717	0.00	0.48	0.286	0					0.82
69.733	0.00	0.48	0.286	0					0.82
69.750	0.00	0.48	0.285	0					0.81
69.767	0.00	0.48	0.284	0					0.81

69.783	0.00	0.48	0.284	0					0.81
69.800	0.00	0.48	0.283	0					0.81
69.817	0.00	0.48	0.282	0					0.81
69.833	0.00	0.47	0.282	0					0.80
69.850	0.00	0.47	0.281	0					0.80
69.867	0.00	0.47	0.280	0					0.80
69.883	0.00	0.47	0.280	0					0.80
69.900	0.00	0.47	0.279	0					0.80
69.917	0.00	0.47	0.278	0					0.80
69.933	0.00	0.47	0.278	0					0.79
69.950	0.00	0.47	0.277	0					0.79
69.967	0.00	0.47	0.276	0					0.79
69.983	0.00	0.46	0.276	0					0.79
70.000	0.00	0.46	0.275	0					0.79
70.017	0.00	0.46	0.275	0					0.78
70.033	0.00	0.46	0.274	0					0.78
70.050	0.00	0.46	0.273	0					0.78
70.067	0.00	0.46	0.273	0					0.78
70.083	0.00	0.46	0.272	0					0.78
70.100	0.00	0.46	0.271	0					0.78
70.117	0.00	0.46	0.271	0					0.77
70.133	0.00	0.46	0.270	0					0.77
70.150	0.00	0.45	0.269	0					0.77
70.167	0.00	0.45	0.269	0					0.77
70.183	0.00	0.45	0.268	0					0.77
70.200	0.00	0.45	0.268	0					0.76
70.217	0.00	0.45	0.267	0					0.76
70.233	0.00	0.45	0.266	0					0.76
70.250	0.00	0.45	0.266	0					0.76
70.267	0.00	0.45	0.265	0					0.76
70.283	0.00	0.45	0.265	0					0.76
70.300	0.00	0.44	0.264	0					0.75
70.317	0.00	0.44	0.263	0					0.75
70.333	0.00	0.44	0.263	0					0.75
70.350	0.00	0.44	0.262	0					0.75
70.367	0.00	0.44	0.261	0					0.75
70.383	0.00	0.44	0.261	0					0.75
70.400	0.00	0.44	0.260	0					0.74
70.417	0.00	0.44	0.260	0					0.74
70.433	0.00	0.44	0.259	0					0.74
70.450	0.00	0.44	0.258	0					0.74
70.467	0.00	0.43	0.258	0					0.74
70.483	0.00	0.43	0.257	0					0.73
70.500	0.00	0.43	0.257	0					0.73
70.517	0.00	0.43	0.256	0					0.73
70.533	0.00	0.43	0.255	0					0.73
70.550	0.00	0.43	0.255	0					0.73
70.567	0.00	0.43	0.254	0					0.73
70.583	0.00	0.43	0.254	0					0.72
70.600	0.00	0.43	0.253	0					0.72
70.617	0.00	0.43	0.253	0					0.72
70.633	0.00	0.42	0.252	0					0.72
70.650	0.00	0.42	0.251	0					0.72
70.667	0.00	0.42	0.251	0					0.72
70.683	0.00	0.42	0.250	0					0.71
70.700	0.00	0.42	0.250	0					0.71
70.717	0.00	0.42	0.249	0					0.71
70.733	0.00	0.42	0.248	0					0.71
70.750	0.00	0.42	0.248	0					0.71
70.767	0.00	0.42	0.247	0					0.71
70.783	0.00	0.42	0.247	0					0.70
70.800	0.00	0.41	0.246	0					0.70
70.817	0.00	0.41	0.246	0					0.70
70.833	0.00	0.41	0.245	0					0.70
70.850	0.00	0.41	0.244	0					0.70
70.867	0.00	0.41	0.244	0					0.70
70.883	0.00	0.41	0.243	0					0.70
70.900	0.00	0.41	0.243	0					0.69
70.917	0.00	0.41	0.242	0					0.69
70.933	0.00	0.41	0.242	0					0.69
70.950	0.00	0.41	0.241	0					0.69

70.967	0.00	0.41	0.240	0					0.69
70.983	0.00	0.40	0.240	0					0.69
71.000	0.00	0.40	0.239	0					0.68
71.017	0.00	0.40	0.239	0					0.68
71.033	0.00	0.40	0.238	0					0.68
71.050	0.00	0.40	0.238	0					0.68
71.067	0.00	0.40	0.237	0					0.68
71.083	0.00	0.40	0.237	0					0.68
71.100	0.00	0.40	0.236	0					0.67
71.117	0.00	0.40	0.236	0					0.67
71.133	0.00	0.40	0.235	0					0.67
71.150	0.00	0.40	0.234	0					0.67
71.167	0.00	0.39	0.234	0					0.67
71.183	0.00	0.39	0.233	0					0.67
71.200	0.00	0.39	0.233	0					0.67
71.217	0.00	0.39	0.232	0					0.66
71.233	0.00	0.39	0.232	0					0.66
71.250	0.00	0.39	0.231	0					0.66
71.267	0.00	0.39	0.231	0					0.66
71.283	0.00	0.39	0.230	0					0.66
71.300	0.00	0.39	0.230	0					0.66
71.317	0.00	0.39	0.229	0					0.65
71.333	0.00	0.39	0.229	0					0.65
71.350	0.00	0.38	0.228	0					0.65
71.367	0.00	0.38	0.227	0					0.65
71.383	0.00	0.38	0.227	0					0.65
71.400	0.00	0.38	0.226	0					0.65
71.417	0.00	0.38	0.226	0					0.65
71.433	0.00	0.38	0.225	0					0.64
71.450	0.00	0.38	0.225	0					0.64
71.467	0.00	0.38	0.224	0					0.64
71.483	0.00	0.38	0.224	0					0.64
71.500	0.00	0.38	0.223	0					0.64
71.517	0.00	0.38	0.223	0					0.64
71.533	0.00	0.37	0.222	0					0.63
71.550	0.00	0.37	0.222	0					0.63
71.567	0.00	0.37	0.221	0					0.63
71.583	0.00	0.37	0.221	0					0.63
71.600	0.00	0.37	0.220	0					0.63
71.617	0.00	0.37	0.220	0					0.63
71.633	0.00	0.37	0.219	0					0.63
71.650	0.00	0.37	0.219	0					0.62
71.667	0.00	0.37	0.218	0					0.62
71.683	0.00	0.37	0.218	0					0.62
71.700	0.00	0.37	0.217	0					0.62
71.717	0.00	0.37	0.217	0					0.62
71.733	0.00	0.36	0.216	0					0.62
71.750	0.00	0.36	0.216	0					0.62
71.767	0.00	0.36	0.215	0					0.61
71.783	0.00	0.36	0.215	0					0.61
71.800	0.00	0.36	0.214	0					0.61
71.817	0.00	0.36	0.214	0					0.61
71.833	0.00	0.36	0.213	0					0.61
71.850	0.00	0.36	0.213	0					0.61
71.867	0.00	0.36	0.212	0					0.61
71.883	0.00	0.36	0.212	0					0.60
71.900	0.00	0.36	0.211	0					0.60
71.917	0.00	0.36	0.211	0					0.60
71.933	0.00	0.35	0.210	0					0.60
71.950	0.00	0.35	0.210	0					0.60
71.967	0.00	0.35	0.209	0					0.60
71.983	0.00	0.35	0.209	0					0.60
72.000	0.00	0.35	0.208	0					0.59
72.017	0.00	0.35	0.208	0					0.59
72.033	0.00	0.35	0.207	0					0.59
72.050	0.00	0.35	0.207	0					0.59
72.067	0.00	0.35	0.206	0					0.59
72.083	0.00	0.35	0.206	0					0.59
72.100	0.00	0.35	0.205	0					0.59
72.117	0.00	0.35	0.205	0					0.59
72.133	0.00	0.34	0.204	0					0.58

72.150	0.00	0.34	0.204	0					0.58
72.167	0.00	0.34	0.203	0					0.58
72.183	0.00	0.34	0.203	0					0.58
72.200	0.00	0.34	0.203	0					0.58
72.217	0.00	0.34	0.202	0					0.58
72.233	0.00	0.34	0.202	0					0.58
72.250	0.00	0.34	0.201	0					0.57
72.267	0.00	0.34	0.201	0					0.57
72.283	0.00	0.34	0.200	0					0.57
72.300	0.00	0.34	0.200	0					0.57
72.317	0.00	0.34	0.199	0					0.57
72.333	0.00	0.34	0.199	0					0.57
72.350	0.00	0.33	0.198	0					0.57
72.367	0.00	0.33	0.198	0					0.57
72.383	0.00	0.33	0.197	0					0.56
72.400	0.00	0.33	0.197	0					0.56
72.417	0.00	0.33	0.197	0					0.56
72.433	0.00	0.33	0.196	0					0.56
72.450	0.00	0.33	0.196	0					0.56
72.467	0.00	0.33	0.195	0					0.56
72.483	0.00	0.33	0.195	0					0.56
72.500	0.00	0.33	0.194	0					0.55
72.517	0.00	0.33	0.194	0					0.55
72.533	0.00	0.33	0.193	0					0.55
72.550	0.00	0.33	0.193	0					0.55
72.567	0.00	0.32	0.192	0					0.55
72.583	0.00	0.32	0.192	0					0.55
72.600	0.00	0.32	0.192	0					0.55
72.617	0.00	0.32	0.191	0					0.55
72.633	0.00	0.32	0.191	0					0.54
72.650	0.00	0.32	0.190	0					0.54
72.667	0.00	0.32	0.190	0					0.54
72.683	0.00	0.32	0.189	0					0.54
72.700	0.00	0.32	0.189	0					0.54
72.717	0.00	0.32	0.188	0					0.54
72.733	0.00	0.32	0.188	0					0.54
72.750	0.00	0.32	0.188	0					0.54
72.767	0.00	0.32	0.187	0					0.53
72.783	0.00	0.31	0.187	0					0.53
72.800	0.00	0.31	0.186	0					0.53
72.817	0.00	0.31	0.186	0					0.53
72.833	0.00	0.31	0.185	0					0.53
72.850	0.00	0.31	0.185	0					0.53
72.867	0.00	0.31	0.185	0					0.53
72.883	0.00	0.31	0.184	0					0.53
72.900	0.00	0.31	0.184	0					0.52
72.917	0.00	0.31	0.183	0					0.52
72.933	0.00	0.31	0.183	0					0.52
72.950	0.00	0.31	0.182	0					0.52
72.967	0.00	0.31	0.182	0					0.52
72.983	0.00	0.31	0.182	0					0.52
73.000	0.00	0.31	0.181	0					0.52
73.017	0.00	0.30	0.181	0					0.52
73.033	0.00	0.30	0.180	0					0.52
73.050	0.00	0.30	0.180	0					0.51
73.067	0.00	0.30	0.179	0					0.51
73.083	0.00	0.30	0.179	0					0.51
73.100	0.00	0.30	0.179	0					0.51
73.117	0.00	0.30	0.178	0					0.51
73.133	0.00	0.30	0.178	0					0.51
73.150	0.00	0.30	0.177	0					0.51
73.167	0.00	0.30	0.177	0					0.51
73.183	0.00	0.30	0.177	0					0.50
73.200	0.00	0.30	0.176	0					0.50
73.217	0.00	0.30	0.176	0					0.50
73.233	0.00	0.30	0.175	0					0.50
73.250	0.00	0.29	0.175	0					0.50
73.267	0.00	0.29	0.175	0					0.50
73.283	0.00	0.29	0.174	0					0.50
73.300	0.00	0.29	0.174	0					0.50
73.317	0.00	0.29	0.173	0					0.50

73.333	0.00	0.29	0.173	0					0.49
73.350	0.00	0.29	0.173	0					0.49
73.367	0.00	0.29	0.172	0					0.49
73.383	0.00	0.29	0.172	0					0.49
73.400	0.00	0.29	0.171	0					0.49
73.417	0.00	0.29	0.171	0					0.49
73.433	0.00	0.29	0.171	0					0.49
73.450	0.00	0.29	0.170	0					0.49
73.467	0.00	0.29	0.170	0					0.49
73.483	0.00	0.29	0.169	0					0.48
73.500	0.00	0.28	0.169	0					0.48
73.517	0.00	0.28	0.169	0					0.48
73.533	0.00	0.28	0.168	0					0.48
73.550	0.00	0.28	0.168	0					0.48
73.567	0.00	0.28	0.167	0					0.48
73.583	0.00	0.28	0.167	0					0.48
73.600	0.00	0.28	0.167	0					0.48
73.617	0.00	0.28	0.166	0					0.47
73.633	0.00	0.28	0.166	0					0.47
73.650	0.00	0.28	0.165	0					0.47
73.667	0.00	0.28	0.165	0					0.47
73.683	0.00	0.28	0.165	0					0.47
73.700	0.00	0.28	0.164	0					0.47
73.717	0.00	0.28	0.164	0					0.47
73.733	0.00	0.28	0.164	0					0.47
73.750	0.00	0.28	0.163	0					0.47
73.767	0.00	0.27	0.163	0					0.47
73.783	0.00	0.27	0.162	0					0.46
73.800	0.00	0.27	0.162	0					0.46
73.817	0.00	0.27	0.162	0					0.46
73.833	0.00	0.27	0.161	0					0.46
73.850	0.00	0.27	0.161	0					0.46
73.867	0.00	0.27	0.161	0					0.46
73.883	0.00	0.27	0.160	0					0.46
73.900	0.00	0.27	0.160	0					0.46
73.917	0.00	0.27	0.159	0					0.46
73.933	0.00	0.27	0.159	0					0.45
73.950	0.00	0.27	0.159	0					0.45
73.967	0.00	0.27	0.158	0					0.45
73.983	0.00	0.27	0.158	0					0.45
74.000	0.00	0.27	0.158	0					0.45
74.017	0.00	0.27	0.157	0					0.45
74.033	0.00	0.26	0.157	0					0.45
74.050	0.00	0.26	0.157	0					0.45
74.067	0.00	0.26	0.156	0					0.45
74.083	0.00	0.26	0.156	0					0.45
74.100	0.00	0.26	0.155	0					0.44
74.117	0.00	0.26	0.155	0					0.44
74.133	0.00	0.26	0.155	0					0.44
74.150	0.00	0.26	0.154	0					0.44
74.167	0.00	0.26	0.154	0					0.44
74.183	0.00	0.26	0.154	0					0.44
74.200	0.00	0.26	0.153	0					0.44
74.217	0.00	0.26	0.153	0					0.44
74.233	0.00	0.26	0.153	0					0.44
74.250	0.00	0.26	0.152	0					0.43
74.267	0.00	0.26	0.152	0					0.43
74.283	0.00	0.26	0.152	0					0.43
74.300	0.00	0.25	0.151	0					0.43
74.317	0.00	0.25	0.151	0					0.43
74.333	0.00	0.25	0.150	0					0.43
74.350	0.00	0.25	0.150	0					0.43
74.367	0.00	0.25	0.150	0					0.43
74.383	0.00	0.25	0.149	0					0.43
74.400	0.00	0.25	0.149	0					0.43
74.417	0.00	0.25	0.149	0					0.42
74.433	0.00	0.25	0.148	0					0.42
74.450	0.00	0.25	0.148	0					0.42
74.467	0.00	0.25	0.148	0					0.42
74.483	0.00	0.25	0.147	0					0.42
74.500	0.00	0.25	0.147	0					0.42

74.517	0.00	0.25	0.147	0					0.42
74.533	0.00	0.25	0.146	0					0.42
74.550	0.00	0.25	0.146	0					0.42
74.567	0.00	0.25	0.146	0					0.42
74.583	0.00	0.24	0.145	0					0.42
74.600	0.00	0.24	0.145	0					0.41
74.617	0.00	0.24	0.145	0					0.41
74.633	0.00	0.24	0.144	0					0.41
74.650	0.00	0.24	0.144	0					0.41
74.667	0.00	0.24	0.144	0					0.41
74.683	0.00	0.24	0.143	0					0.41
74.700	0.00	0.24	0.143	0					0.41
74.717	0.00	0.24	0.143	0					0.41
74.733	0.00	0.24	0.142	0					0.41
74.750	0.00	0.24	0.142	0					0.41
74.767	0.00	0.24	0.142	0					0.40
74.783	0.00	0.24	0.141	0					0.40
74.800	0.00	0.24	0.141	0					0.40
74.817	0.00	0.24	0.141	0					0.40
74.833	0.00	0.24	0.140	0					0.40
74.850	0.00	0.24	0.140	0					0.40
74.867	0.00	0.24	0.140	0					0.40
74.883	0.00	0.23	0.139	0					0.40
74.900	0.00	0.23	0.139	0					0.40
74.917	0.00	0.23	0.139	0					0.40
74.933	0.00	0.23	0.138	0					0.40
74.950	0.00	0.23	0.138	0					0.39
74.967	0.00	0.23	0.138	0					0.39
74.983	0.00	0.23	0.137	0					0.39
75.000	0.00	0.23	0.137	0					0.39
75.017	0.00	0.23	0.137	0					0.39
75.033	0.00	0.23	0.136	0					0.39
75.050	0.00	0.23	0.136	0					0.39
75.067	0.00	0.23	0.136	0					0.39
75.083	0.00	0.23	0.136	0					0.39
75.100	0.00	0.23	0.135	0					0.39
75.117	0.00	0.23	0.135	0					0.39
75.133	0.00	0.23	0.135	0					0.38
75.150	0.00	0.23	0.134	0					0.38
75.167	0.00	0.23	0.134	0					0.38
75.183	0.00	0.23	0.134	0					0.38
75.200	0.00	0.22	0.133	0					0.38
75.217	0.00	0.22	0.133	0					0.38
75.233	0.00	0.22	0.133	0					0.38
75.250	0.00	0.22	0.132	0					0.38
75.267	0.00	0.22	0.132	0					0.38
75.283	0.00	0.22	0.132	0					0.38
75.300	0.00	0.22	0.131	0					0.38
75.317	0.00	0.22	0.131	0					0.37
75.333	0.00	0.22	0.131	0					0.37
75.350	0.00	0.22	0.131	0					0.37
75.367	0.00	0.22	0.130	0					0.37
75.383	0.00	0.22	0.130	0					0.37
75.400	0.00	0.22	0.130	0					0.37
75.417	0.00	0.22	0.129	0					0.37
75.433	0.00	0.22	0.129	0					0.37
75.450	0.00	0.22	0.129	0					0.37
75.467	0.00	0.22	0.128	0					0.37
75.483	0.00	0.22	0.128	0					0.37
75.500	0.00	0.22	0.128	0					0.37
75.517	0.00	0.22	0.128	0					0.36
75.533	0.00	0.21	0.127	0					0.36
75.550	0.00	0.21	0.127	0					0.36
75.567	0.00	0.21	0.127	0					0.36
75.583	0.00	0.21	0.126	0					0.36
75.600	0.00	0.21	0.126	0					0.36
75.617	0.00	0.21	0.126	0					0.36
75.633	0.00	0.21	0.126	0					0.36
75.650	0.00	0.21	0.125	0					0.36
75.667	0.00	0.21	0.125	0					0.36
75.683	0.00	0.21	0.125	0					0.36

75.700	0.00	0.21	0.124	0					0.36
75.717	0.00	0.21	0.124	0					0.35
75.733	0.00	0.21	0.124	0					0.35
75.750	0.00	0.21	0.124	0					0.35
75.767	0.00	0.21	0.123	0					0.35
75.783	0.00	0.21	0.123	0					0.35
75.800	0.00	0.21	0.123	0					0.35
75.817	0.00	0.21	0.122	0					0.35
75.833	0.00	0.21	0.122	0					0.35
75.850	0.00	0.21	0.122	0					0.35
75.867	0.00	0.20	0.122	0					0.35
75.883	0.00	0.20	0.121	0					0.35
75.900	0.00	0.20	0.121	0					0.35
75.917	0.00	0.20	0.121	0					0.34
75.933	0.00	0.20	0.120	0					0.34
75.950	0.00	0.20	0.120	0					0.34
75.967	0.00	0.20	0.120	0					0.34
75.983	0.00	0.20	0.120	0					0.34
76.000	0.00	0.20	0.119	0					0.34
76.017	0.00	0.20	0.119	0					0.34
76.033	0.00	0.20	0.119	0					0.34
76.050	0.00	0.20	0.118	0					0.34
76.067	0.00	0.20	0.118	0					0.34
76.083	0.00	0.20	0.118	0					0.34
76.100	0.00	0.20	0.118	0					0.34
76.117	0.00	0.20	0.117	0					0.34
76.133	0.00	0.20	0.117	0					0.33
76.150	0.00	0.20	0.117	0					0.33
76.167	0.00	0.20	0.117	0					0.33
76.183	0.00	0.20	0.116	0					0.33
76.200	0.00	0.20	0.116	0					0.33
76.217	0.00	0.20	0.116	0					0.33
76.233	0.00	0.19	0.115	0					0.33
76.250	0.00	0.19	0.115	0					0.33
76.267	0.00	0.19	0.115	0					0.33
76.283	0.00	0.19	0.115	0					0.33
76.300	0.00	0.19	0.114	0					0.33
76.317	0.00	0.19	0.114	0					0.33
76.333	0.00	0.19	0.114	0					0.33
76.350	0.00	0.19	0.114	0					0.32
76.367	0.00	0.19	0.113	0					0.32
76.383	0.00	0.19	0.113	0					0.32
76.400	0.00	0.19	0.113	0					0.32
76.417	0.00	0.19	0.113	0					0.32
76.433	0.00	0.19	0.112	0					0.32
76.450	0.00	0.19	0.112	0					0.32
76.467	0.00	0.19	0.112	0					0.32
76.483	0.00	0.19	0.112	0					0.32
76.500	0.00	0.19	0.111	0					0.32
76.517	0.00	0.19	0.111	0					0.32
76.533	0.00	0.19	0.111	0					0.32
76.550	0.00	0.19	0.110	0					0.32
76.567	0.00	0.19	0.110	0					0.31
76.583	0.00	0.19	0.110	0					0.31
76.600	0.00	0.18	0.110	0					0.31
76.617	0.00	0.18	0.109	0					0.31
76.633	0.00	0.18	0.109	0					0.31
76.650	0.00	0.18	0.109	0					0.31
76.667	0.00	0.18	0.109	0					0.31
76.683	0.00	0.18	0.108	0					0.31
76.700	0.00	0.18	0.108	0					0.31
76.717	0.00	0.18	0.108	0					0.31
76.733	0.00	0.18	0.108	0					0.31
76.750	0.00	0.18	0.107	0					0.31
76.767	0.00	0.18	0.107	0					0.31
76.783	0.00	0.18	0.107	0					0.31
76.800	0.00	0.18	0.107	0					0.30
76.817	0.00	0.18	0.106	0					0.30
76.833	0.00	0.18	0.106	0					0.30
76.850	0.00	0.18	0.106	0					0.30
76.867	0.00	0.18	0.106	0					0.30

76.883	0.00	0.18	0.105	0					0.30
76.900	0.00	0.18	0.105	0					0.30
76.917	0.00	0.18	0.105	0					0.30
76.933	0.00	0.18	0.105	0					0.30
76.950	0.00	0.18	0.104	0					0.30
76.967	0.00	0.18	0.104	0					0.30
76.983	0.00	0.18	0.104	0					0.30
77.000	0.00	0.17	0.104	0					0.30
77.017	0.00	0.17	0.104	0					0.30
77.033	0.00	0.17	0.103	0					0.30
77.050	0.00	0.17	0.103	0					0.29
77.067	0.00	0.17	0.103	0					0.29
77.083	0.00	0.17	0.103	0					0.29
77.100	0.00	0.17	0.102	0					0.29
77.117	0.00	0.17	0.102	0					0.29
77.133	0.00	0.17	0.102	0					0.29
77.150	0.00	0.17	0.102	0					0.29
77.167	0.00	0.17	0.101	0					0.29
77.183	0.00	0.17	0.101	0					0.29
77.200	0.00	0.17	0.101	0					0.29
77.217	0.00	0.17	0.101	0					0.29
77.233	0.00	0.17	0.100	0					0.29
77.250	0.00	0.17	0.100	0					0.29
77.267	0.00	0.17	0.100	0					0.29
77.283	0.00	0.17	0.100	0					0.29
77.300	0.00	0.17	0.100	0					0.28
77.317	0.00	0.17	0.099	0					0.28
77.333	0.00	0.17	0.099	0					0.28
77.350	0.00	0.17	0.099	0					0.28
77.367	0.00	0.17	0.099	0					0.28
77.383	0.00	0.17	0.098	0					0.28
77.400	0.00	0.17	0.098	0					0.28
77.417	0.00	0.17	0.098	0					0.28
77.433	0.00	0.16	0.098	0					0.28
77.450	0.00	0.16	0.097	0					0.28
77.467	0.00	0.16	0.097	0					0.28
77.483	0.00	0.16	0.097	0					0.28
77.500	0.00	0.16	0.097	0					0.28
77.517	0.00	0.16	0.097	0					0.28
77.533	0.00	0.16	0.096	0					0.28
77.550	0.00	0.16	0.096	0					0.27
77.567	0.00	0.16	0.096	0					0.27
77.583	0.00	0.16	0.096	0					0.27
77.600	0.00	0.16	0.095	0					0.27
77.617	0.00	0.16	0.095	0					0.27
77.633	0.00	0.16	0.095	0					0.27
77.650	0.00	0.16	0.095	0					0.27
77.667	0.00	0.16	0.095	0					0.27
77.683	0.00	0.16	0.094	0					0.27
77.700	0.00	0.16	0.094	0					0.27
77.717	0.00	0.16	0.094	0					0.27
77.733	0.00	0.16	0.094	0					0.27
77.750	0.00	0.16	0.093	0					0.27
77.767	0.00	0.16	0.093	0					0.27
77.783	0.00	0.16	0.093	0					0.27
77.800	0.00	0.16	0.093	0					0.27
77.817	0.00	0.16	0.093	0					0.26
77.833	0.00	0.16	0.092	0					0.26
77.850	0.00	0.16	0.092	0					0.26
77.867	0.00	0.16	0.092	0					0.26
77.883	0.00	0.15	0.092	0					0.26
77.900	0.00	0.15	0.092	0					0.26
77.917	0.00	0.15	0.091	0					0.26
77.933	0.00	0.15	0.091	0					0.26
77.950	0.00	0.15	0.091	0					0.26
77.967	0.00	0.15	0.091	0					0.26
77.983	0.00	0.15	0.090	0					0.26
78.000	0.00	0.15	0.090	0					0.26
78.017	0.00	0.15	0.090	0					0.26
78.033	0.00	0.15	0.090	0					0.26
78.050	0.00	0.15	0.090	0					0.26

78.067	0.00	0.15	0.089	0					0.26
78.083	0.00	0.15	0.089	0					0.25
78.100	0.00	0.15	0.089	0					0.25
78.117	0.00	0.15	0.089	0					0.25
78.133	0.00	0.15	0.089	0					0.25
78.150	0.00	0.15	0.088	0					0.25
78.167	0.00	0.15	0.088	0					0.25
78.183	0.00	0.15	0.088	0					0.25
78.200	0.00	0.15	0.088	0					0.25
78.217	0.00	0.15	0.088	0					0.25
78.233	0.00	0.15	0.087	0					0.25
78.250	0.00	0.15	0.087	0					0.25
78.267	0.00	0.15	0.087	0					0.25
78.283	0.00	0.15	0.087	0					0.25
78.300	0.00	0.15	0.087	0					0.25
78.317	0.00	0.15	0.086	0					0.25
78.333	0.00	0.15	0.086	0					0.25
78.350	0.00	0.14	0.086	0					0.25
78.367	0.00	0.14	0.086	0					0.25
78.383	0.00	0.14	0.086	0					0.24
78.400	0.00	0.14	0.085	0					0.24
78.417	0.00	0.14	0.085	0					0.24
78.433	0.00	0.14	0.085	0					0.24
78.450	0.00	0.14	0.085	0					0.24
78.467	0.00	0.14	0.085	0					0.24
78.483	0.00	0.14	0.084	0					0.24
78.500	0.00	0.14	0.084	0					0.24
78.517	0.00	0.14	0.084	0					0.24
78.533	0.00	0.14	0.084	0					0.24
78.550	0.00	0.14	0.084	0					0.24
78.567	0.00	0.14	0.083	0					0.24
78.583	0.00	0.14	0.083	0					0.24
78.600	0.00	0.14	0.083	0					0.24
78.617	0.00	0.14	0.083	0					0.24
78.633	0.00	0.14	0.083	0					0.24
78.650	0.00	0.14	0.082	0					0.24
78.667	0.00	0.14	0.082	0					0.24
78.683	0.00	0.14	0.082	0					0.23
78.700	0.00	0.14	0.082	0					0.23
78.717	0.00	0.14	0.082	0					0.23
78.733	0.00	0.14	0.082	0					0.23
78.750	0.00	0.14	0.081	0					0.23
78.767	0.00	0.14	0.081	0					0.23
78.783	0.00	0.14	0.081	0					0.23
78.800	0.00	0.14	0.081	0					0.23
78.817	0.00	0.14	0.081	0					0.23
78.833	0.00	0.14	0.080	0					0.23
78.850	0.00	0.14	0.080	0					0.23
78.867	0.00	0.13	0.080	0					0.23
78.883	0.00	0.13	0.080	0					0.23
78.900	0.00	0.13	0.080	0					0.23
78.917	0.00	0.13	0.079	0					0.23
78.933	0.00	0.13	0.079	0					0.23
78.950	0.00	0.13	0.079	0					0.23
78.967	0.00	0.13	0.079	0					0.23
78.983	0.00	0.13	0.079	0					0.22
79.000	0.00	0.13	0.079	0					0.22
79.017	0.00	0.13	0.078	0					0.22
79.033	0.00	0.13	0.078	0					0.22
79.050	0.00	0.13	0.078	0					0.22
79.067	0.00	0.13	0.078	0					0.22
79.083	0.00	0.13	0.078	0					0.22
79.100	0.00	0.13	0.077	0					0.22
79.117	0.00	0.13	0.077	0					0.22
79.133	0.00	0.13	0.077	0					0.22
79.150	0.00	0.13	0.077	0					0.22
79.167	0.00	0.13	0.077	0					0.22
79.183	0.00	0.13	0.077	0					0.22
79.200	0.00	0.13	0.076	0					0.22
79.217	0.00	0.13	0.076	0					0.22
79.233	0.00	0.13	0.076	0					0.22

82.800	0.00	0.08	0.046	0					0.13
82.817	0.00	0.08	0.046	0					0.13
82.833	0.00	0.08	0.046	0					0.13
82.850	0.00	0.08	0.046	0					0.13
82.867	0.00	0.08	0.046	0					0.13
82.883	0.00	0.08	0.046	0					0.13
82.900	0.00	0.08	0.046	0					0.13
82.917	0.00	0.08	0.046	0					0.13
82.933	0.00	0.08	0.045	0					0.13
82.950	0.00	0.08	0.045	0					0.13
82.967	0.00	0.08	0.045	0					0.13
82.983	0.00	0.08	0.045	0					0.13
83.000	0.00	0.08	0.045	0					0.13
83.017	0.00	0.08	0.045	0					0.13
83.033	0.00	0.08	0.045	0					0.13
83.050	0.00	0.08	0.045	0					0.13
83.067	0.00	0.08	0.045	0					0.13
83.083	0.00	0.07	0.044	0					0.13
83.100	0.00	0.07	0.044	0					0.13
83.117	0.00	0.07	0.044	0					0.13
83.133	0.00	0.07	0.044	0					0.13
83.150	0.00	0.07	0.044	0					0.13
83.167	0.00	0.07	0.044	0					0.13
83.183	0.00	0.07	0.044	0					0.13
83.200	0.00	0.07	0.044	0					0.12
83.217	0.00	0.07	0.044	0					0.12
83.233	0.00	0.07	0.044	0					0.12
83.250	0.00	0.07	0.043	0					0.12
83.267	0.00	0.07	0.043	0					0.12
83.283	0.00	0.07	0.043	0					0.12
83.300	0.00	0.07	0.043	0					0.12
83.317	0.00	0.07	0.043	0					0.12
83.333	0.00	0.07	0.043	0					0.12

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*****HYDROGRAPH DATA*****
      Number of intervals = 5001
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 19.079 (CFS)
      Total volume = 14.443 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
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Process from Point/Station 727.000 to Point/Station 727.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

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Current stream hydrograph saved in file 100160rtebas6.rte
*****HYDROGRAPH DATA*****
      Number of intervals = 0
      Time interval = 0.0 (Min.)
      Maximum/Peak flow rate = 0.000 (CFS)
      Total volume = 0.000 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****

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FLOOD HYDROGRAPH ROUTING PROGRAM
Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
Study date: 04/16/24

Majestic Otay
Otay Mesa, San Diego County
Proposed Condition u/g Basin 2 & Basin 6 Combined Hydrographs
100160rteundbas2bas6

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rteundbas2.rte
*****HYDROGRAPH DATA*****
Number of intervals = 2865
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 37.945 (CFS)
Total volume = 10.568 (Ac.Ft)
Status of hydrographs being held in storage
Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
Peak (CFS) 0.000 0.000 0.000 0.000 0.000
Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

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Process from Point/Station 726.000 to Point/Station 727.000
**** STREAM ROUTING SCS CONVEX METHOD ****

HYDROGRAPH STREAM ROUTING DATA:
Length of stream = 690.00 (Ft.)
Elevation difference = 11.30 (Ft.)
Slope of channel = 0.016377 (Vert/Horiz)
Channel type - Pipe

Pipe length = 690.00(Ft.) Elevation difference = 11.30(Ft.)
Manning's N = 0.013 No. of pipes = 1
Pipe evaluation using mean flow rate of hydrograph
Required pipe flow = 8.402(CFS)
Given pipe size = 30.00(In.)
Calculated individual pipe flow = 8.402(CFS)
Normal flow depth in pipe = 8.12(In.)
Flow top width inside pipe = 26.65(In.)
Critical Depth = 0.96(Ft.)
Pipe flow velocity = 7.84(Ft/s)
Travel time through pipe = 1.47 min.

Pipe length = 690.00(Ft.) Elevation difference = 11.30(Ft.)
Manning's N = 0.013 No. of pipes = 1
Pipe evaluation using maximum flow rate of hydrograph
Required pipe flow = 37.945(CFS)
Given pipe size = 30.00(In.)
Calculated individual pipe flow = 37.945(CFS)
Normal flow depth in pipe = 18.89(In.)
Flow top width inside pipe = 28.97(In.)
Critical Depth = 2.08(Ft.)
Pipe flow velocity = 11.65(Ft/s)
Travel time through pipe = 0.99 min.

***** SCS CONVEX CHANNEL ROUTING *****

Convex method of stream routing data items:

Using equation: Outflow =

$$O(t+dt) = (1-c^*)O(t+dt-dt^*) + Input(c^*)$$

where $c^* = 1 - (1-c)^e$ and $dt = c(\text{length})/\text{velocity}$

$c(v/v+1.7) = 0.8726$ Travel time = 0.99 (min.)

$dt^*(\text{unit time interval}) = 1.00(\text{min.})$, $e = 1.1070$

$dt(\text{routing time-step}) = 0.86(\text{min.})$, $c^* = 0.8978$

Output hydrograph delayed by 0 unit time increments

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P R I N T O F S T O R M

R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Out = O(CFS)	In = I	0	9.5	19.0	28.5	37.9
0+ 1	0.0003	0.00	O				
0+ 2	0.0027	0.01	O				
0+ 3	0.0092	0.02	O				
0+ 4	0.0198	0.03	O				
0+ 5	0.0347	0.05	O				
0+ 6	0.0537	0.07	O				
0+ 7	0.0768	0.10	O				
0+ 8	0.1041	0.13	O				
0+ 9	0.1352	0.16	O				
0+10	0.1683	0.19	O				
0+11	0.2015	0.22	O				
0+12	0.2347	0.25	O				
0+13	0.2677	0.28	O				
0+14	0.3007	0.32	O				
0+15	0.3336	0.35	O				
0+16	0.3665	0.38	O				
0+17	0.3993	0.41	O				
0+18	0.4320	0.44	O				
0+19	0.4647	0.47	O				
0+20	0.4974	0.50	O				
0+21	0.5301	0.53	O				
0+22	0.5628	0.56	O				
0+23	0.5955	0.60	O				
0+24	0.6282	0.63	O				
0+25	0.6608	0.66	O				
0+26	0.6935	0.69	O				
0+27	0.7260	0.72	O				
0+28	0.7585	0.75	O				
0+29	0.7910	0.78	O				
0+30	0.8233	0.81	O				
0+31	0.8556	0.84	O				
0+32	0.8878	0.87	O				
0+33	0.9200	0.90	O				
0+34	0.9521	0.93	O				
0+35	0.9843	0.96	OI				
0+36	1.0164	0.99	IO				
0+37	1.0486	1.02	IO				
0+38	1.0808	1.06	IO				
0+39	1.1130	1.09	IO				
0+40	1.1452	1.12	IO				
0+41	1.1774	1.15	IO				
0+42	1.2096	1.18	IO				
0+43	1.2417	1.21	IO				
0+44	1.2738	1.24	IO				
0+45	1.3058	1.27	IO				
0+46	1.3378	1.30	IO				
0+47	1.3697	1.33	IO				
0+48	1.4016	1.36	IO				
0+49	1.4334	1.39	IO				
0+50	1.4652	1.42	IO				

0+51	1.4970	1.45	O				
0+52	1.5288	1.48	O				
0+53	1.5607	1.51	O				
0+54	1.5927	1.54	O				
0+55	1.6246	1.57	O				
0+56	1.6566	1.60	O				
0+57	1.6886	1.63	O				
0+58	1.7207	1.66	O				
0+59	1.7526	1.69	O				
1+ 0	1.7846	1.72	O				
1+ 1	1.8165	1.75	O				
1+ 2	1.8483	1.78	O				
1+ 3	1.8801	1.81	O				
1+ 4	1.9118	1.84	O				
1+ 5	1.9436	1.87	O				
1+ 6	1.9753	1.90	OI				
1+ 7	2.0071	1.93	O				
1+ 8	2.0389	1.96	O				
1+ 9	2.0708	1.99	O				
1+10	2.1028	2.02	O				
1+11	2.1348	2.05	O				
1+12	2.1669	2.09	O				
1+13	2.1990	2.12	O				
1+14	2.2311	2.15	O				
1+15	2.2633	2.18	O				
1+16	2.2947	2.20	O				
1+17	2.3199	2.21	O				
1+18	2.3312	2.22	O				
1+19	2.3411	2.23	O				
1+20	2.3508	2.24	O				
1+21	2.3606	2.25	O				
1+22	2.3704	2.26	O				
1+23	2.3803	2.27	O				
1+24	2.3902	2.28	O				
1+25	2.4002	2.29	O				
1+26	2.4102	2.30	O				
1+27	2.4203	2.31	O				
1+28	2.4305	2.32	O				
1+29	2.4407	2.32	O				
1+30	2.4509	2.33	O				
1+31	2.4612	2.34	O				
1+32	2.4715	2.35	O				
1+33	2.4818	2.36	O				
1+34	2.4921	2.37	O				
1+35	2.5025	2.38	O				
1+36	2.5129	2.39	O				
1+37	2.5233	2.40	O				
1+38	2.5337	2.41	O				
1+39	2.5443	2.42	O				
1+40	2.5549	2.43	O				
1+41	2.5655	2.44	O				
1+42	2.5763	2.45	O				
1+43	2.5871	2.46	O				
1+44	2.5979	2.47	O				
1+45	2.6089	2.49	O				
1+46	2.6199	2.50	O				
1+47	2.6309	2.51	O				
1+48	2.6419	2.52	O				
1+49	2.6530	2.53	O				
1+50	2.6641	2.54	O				
1+51	2.6753	2.55	O				
1+52	2.6864	2.56	O				
1+53	2.6976	2.57	O				
1+54	2.7089	2.58	O				
1+55	2.7203	2.59	O				
1+56	2.7317	2.60	O				
1+57	2.7432	2.61	O				
1+58	2.7548	2.62	O				
1+59	2.7665	2.64	O				
2+ 0	2.7783	2.65	O				
2+ 1	2.7901	2.66	O				

2+ 2	2.8020	2.67		0					
2+ 3	2.8140	2.68		0					
2+ 4	2.8260	2.69		0					
2+ 5	2.8380	2.70		0					
2+ 6	2.8501	2.71		0					
2+ 7	2.8622	2.73		0					
2+ 8	2.8743	2.74		0					
2+ 9	2.8865	2.75		0					
2+10	2.8988	2.76		0					
2+11	2.9112	2.77		0					
2+12	2.9237	2.79		0					
2+13	2.9362	2.80		0					
2+14	2.9489	2.81		0					
2+15	2.9617	2.82		0					
2+16	2.9746	2.83		0					
2+17	2.9877	2.85		OI					
2+18	3.0007	2.86		0					
2+19	3.0139	2.87		0					
2+20	3.0271	2.88		0					
2+21	3.0403	2.90		0					
2+22	3.0536	2.91		0					
2+23	3.0670	2.92		0					
2+24	3.0804	2.93		0					
2+25	3.0939	2.95		0					
2+26	3.1074	2.96		0					
2+27	3.1211	2.97		0					
2+28	3.1350	2.99		0					
2+29	3.1489	3.00		0					
2+30	3.1631	3.01		0					
2+31	3.1773	3.03		0					
2+32	3.1917	3.04		0					
2+33	3.2062	3.06		0					
2+34	3.2209	3.07		0					
2+35	3.2356	3.08		0					
2+36	3.2504	3.10		0					
2+37	3.2652	3.11		0					
2+38	3.2801	3.13		0					
2+39	3.2951	3.14		0					
2+40	3.3102	3.15		0					
2+41	3.3254	3.17		0					
2+42	3.3406	3.18		0					
2+43	3.3561	3.20		0					
2+44	3.3718	3.21		0					
2+45	3.3876	3.23		0					
2+46	3.4037	3.24		0					
2+47	3.4199	3.26		0					
2+48	3.4363	3.28		0					
2+49	3.4529	3.29		0					
2+50	3.4697	3.31		0					
2+51	3.4865	3.32		0					
2+52	3.5035	3.34		0					
2+53	3.5206	3.36		0					
2+54	3.5377	3.37		0					
2+55	3.5550	3.39		0					
2+56	3.5723	3.40		0					
2+57	3.5889	3.42		0					
2+58	3.6044	3.43		0					
2+59	3.6200	3.45		0					
3+ 0	3.6358	3.46		0					
3+ 1	3.6519	3.48		0					
3+ 2	3.6682	3.49		0					
3+ 3	3.6847	3.51		0					
3+ 4	3.7015	3.53		0					
3+ 5	3.7185	3.54		0					
3+ 6	3.7358	3.56		0					
3+ 7	3.7531	3.58		0					
3+ 8	3.7706	3.59		0					
3+ 9	3.7883	3.61		0					
3+10	3.8061	3.63		0					
3+11	3.8240	3.64		0					
3+12	3.8421	3.66		0					

5+35	17.1478	16.10		IO		
5+36	16.9764	15.97		O		
5+37	16.8367	15.88		O		
5+38	16.7410	15.80		O		
5+39	16.6501	15.71		O		
5+40	16.5600	15.63		O		
5+41	16.4703	15.54		O		
5+42	16.3809	15.46		O		
5+43	16.2918	15.37		O		
5+44	16.2030	15.29		O		
5+45	16.1145	15.20		O		
5+46	16.0263	15.12		IO		
5+47	15.9386	15.04		O		
5+48	15.8513	14.96		O		
5+49	15.7643	14.87		O		
5+50	15.6777	14.79		O		
5+51	15.5915	14.71		O		
5+52	15.5057	14.63		O		
5+53	15.4202	14.55		O		
5+54	15.3352	14.47		O		
5+55	15.2506	14.39		O		
5+56	15.1664	14.31		O		
5+57	15.0827	14.23		O		
5+58	14.9993	14.15		O		
5+59	14.9164	14.07		O		
6+ 0	14.8340	14.00		O		
6+ 1	14.7519	13.92		O		
6+ 2	14.6702	13.84		O		
6+ 3	14.5891	13.76		O		
6+ 4	14.5084	13.69		O		
6+ 5	14.4281	13.61		O		
6+ 6	14.3483	13.54		O		
6+ 7	14.2689	13.46		O		
6+ 8	14.1900	13.39		O		
6+ 9	14.1055	13.27		IO		
6+10	13.9776	13.10		O		
6+11	13.8091	12.94		O		
6+12	13.6385	12.78		O		
6+13	13.4695	12.62		O		
6+14	13.3026	12.47		O		
6+15	13.1377	12.31		IO		
6+16	12.9749	12.16		O		
6+17	12.8140	12.01		O		
6+18	12.6552	11.86		O		
6+19	12.4984	11.71		O		
6+20	12.3435	11.57		O		
6+21	12.1905	11.42		O		
6+22	12.0394	11.28		IO		
6+23	11.8902	11.14		IO		
6+24	11.7428	11.00		IO		
6+25	11.5973	10.87		IO		
6+26	11.4536	10.73		IO		
6+27	11.3116	10.60		IO		
6+28	11.1714	10.47		IO		
6+29	11.0329	10.34		IO		
6+30	10.8962	10.21		O		
6+31	10.7612	10.08		O		
6+32	10.6278	9.96		O		
6+33	10.4961	9.84		O		
6+34	10.3660	9.71		O		
6+35	10.2375	9.59		O		
6+36	10.1106	9.48		IO		
6+37	9.9853	9.36		O		
6+38	9.8657	9.27		O		
6+39	9.7776	9.22		O		
6+40	9.7185	9.17		O		
6+41	9.6627	9.12		O		
6+42	9.6075	9.06		O		
6+43	9.5526	9.01		O		
6+44	9.4980	8.96		O		
6+45	9.4438	8.91		O		

6+46	9.3898	8.86	O				
6+47	9.3362	8.81	O				
6+48	9.2829	8.76	O				
6+49	9.2299	8.71	O				
6+50	9.1772	8.66	O				
6+51	9.1247	8.61	O				
6+52	9.0726	8.56	O				
6+53	9.0208	8.51	IO				
6+54	8.9693	8.46	O				
6+55	8.9181	8.41	O				
6+56	8.8671	8.36	O				
6+57	8.8165	8.32	O				
6+58	8.7661	8.27	O				
6+59	8.7161	8.22	O				
7+ 0	8.6663	8.18	O				
7+ 1	8.6168	8.13	O				
7+ 2	8.5676	8.08	O				
7+ 3	8.5186	8.04	O				
7+ 4	8.4700	7.99	O				
7+ 5	8.4216	7.94	O				
7+ 6	8.3735	7.90	O				
7+ 7	8.3257	7.85	O				
7+ 8	8.2781	7.81	O				
7+ 9	8.2308	7.76	O				
7+10	8.1838	7.72	O				
7+11	8.1371	7.68	O				
7+12	8.0906	7.63	O				
7+13	8.0444	7.59	IO				
7+14	7.9985	7.55	O				
7+15	7.9528	7.50	O				
7+16	7.9074	7.46	O				
7+17	7.8622	7.42	O				
7+18	7.8173	7.37	O				
7+19	7.7726	7.33	O				
7+20	7.7282	7.29	O				
7+21	7.6841	7.25	O				
7+22	7.6402	7.21	O				
7+23	7.5966	7.17	O				
7+24	7.5532	7.13	O				
7+25	7.5101	7.08	O				
7+26	7.4672	7.04	O				
7+27	7.4245	7.00	O				
7+28	7.3821	6.96	O				
7+29	7.3399	6.92	O				
7+30	7.2980	6.88	O				
7+31	7.2563	6.85	O				
7+32	7.2149	6.81	O				
7+33	7.1737	6.77	O				
7+34	7.1327	6.73	O				
7+35	7.0920	6.69	O				
7+36	7.0515	6.65	O				
7+37	7.0112	6.61	IO				
7+38	6.9711	6.58	O				
7+39	6.9313	6.54	O				
7+40	6.8917	6.50	O				
7+41	6.8524	6.46	O				
7+42	6.8132	6.43	O				
7+43	6.7743	6.39	O				
7+44	6.7356	6.35	O				
7+45	6.6972	6.32	O				
7+46	6.6589	6.28	O				
7+47	6.6209	6.25	O				
7+48	6.5831	6.21	O				
7+49	6.5455	6.17	O				
7+50	6.5081	6.14	O				
7+51	6.4709	6.10	O				
7+52	6.4340	6.07	O				
7+53	6.3972	6.03	O				
7+54	6.3607	6.00	O				
7+55	6.3243	5.97	O				
7+56	6.2882	5.93	O				

7+57	6.2523	5.90		0					
7+58	6.2166	5.86		0					
7+59	6.1811	5.83		0					
8+ 0	6.1458	5.80		0					
8+ 1	6.1107	5.76		0					
8+ 2	6.0758	5.73		0					
8+ 3	6.0411	5.70		0					
8+ 4	6.0066	5.67		IO					
8+ 5	5.9723	5.63		0					
8+ 6	5.9382	5.60		0					
8+ 7	5.9042	5.57		0					
8+ 8	5.8705	5.54		0					
8+ 9	5.8370	5.51		0					
8+10	5.8037	5.47		0					
8+11	5.7705	5.44		0					
8+12	5.7376	5.41		0					
8+13	5.7048	5.38		0					
8+14	5.6722	5.35		0					
8+15	5.6398	5.32		0					
8+16	5.6076	5.29		0					
8+17	5.5756	5.26		0					
8+18	5.5437	5.23		0					
8+19	5.5121	5.20		0					
8+20	5.4806	5.17		0					
8+21	5.4493	5.14		0					
8+22	5.4181	5.11		0					
8+23	5.3892	5.10		0					
8+24	5.3745	5.09		0					
8+25	5.3689	5.09		0					
8+26	5.3643	5.08		0					
8+27	5.3598	5.08		0					
8+28	5.3553	5.08		0					
8+29	5.3508	5.07		0					
8+30	5.3463	5.07		0					
8+31	5.3419	5.06		0					
8+32	5.3374	5.06		0					
8+33	5.3329	5.05		0					
8+34	5.3284	5.05		0					
8+35	5.3240	5.05		0					
8+36	5.3195	5.04		0					
8+37	5.3151	5.04		0					
8+38	5.3106	5.03		0					
8+39	5.3062	5.03		0					
8+40	5.3017	5.03		0					
8+41	5.2973	5.02		0					
8+42	5.2928	5.02		0					
8+43	5.2884	5.01		0					
8+44	5.2840	5.01		0					
8+45	5.2795	5.00		0					
8+46	5.2751	5.00		0					
8+47	5.2707	5.00		0					
8+48	5.2663	4.99		0					
8+49	5.2618	4.99		0					
8+50	5.2574	4.98		0					
8+51	5.2530	4.98		0					
8+52	5.2486	4.97		0					
8+53	5.2442	4.97		0					
8+54	5.2398	4.97		0					
8+55	5.2354	4.96		0					
8+56	5.2311	4.96		0					
8+57	5.2267	4.95		0					
8+58	5.2223	4.95		0					
8+59	5.2179	4.95		0					
9+ 0	5.2135	4.94		0					
9+ 1	5.2092	4.94		0					
9+ 2	5.2048	4.93		0					
9+ 3	5.2004	4.93		0					
9+ 4	5.1961	4.93		0					
9+ 5	5.1917	4.92		0					
9+ 6	5.1874	4.92		0					
9+ 7	5.1830	4.91		0					

9+ 8	5.1787	4.91	0					
9+ 9	5.1744	4.90	0					
9+10	5.1700	4.90	0					
9+11	5.1657	4.90	0					
9+12	5.1614	4.89	0					
9+13	5.1570	4.89	0					
9+14	5.1527	4.88	0					
9+15	5.1484	4.88	0					
9+16	5.1441	4.88	0					
9+17	5.1398	4.87	0					
9+18	5.1355	4.87	0					
9+19	5.1311	4.86	0					
9+20	5.1268	4.86	0					
9+21	5.1226	4.86	0					
9+22	5.1183	4.85	0					
9+23	5.1140	4.85	0					
9+24	5.1097	4.84	0					
9+25	5.1054	4.84	0					
9+26	5.1011	4.84	0					
9+27	5.0968	4.83	0					
9+28	5.0926	4.83	0					
9+29	5.0883	4.82	0					
9+30	5.0840	4.82	0					
9+31	5.0798	4.81	0					
9+32	5.0755	4.81	0					
9+33	5.0713	4.81	0					
9+34	5.0670	4.80	0					
9+35	5.0628	4.80	0					
9+36	5.0585	4.79	0					
9+37	5.0543	4.79	0					
9+38	5.0501	4.79	0					
9+39	5.0458	4.78	0					
9+40	5.0416	4.78	0					
9+41	5.0374	4.77	0					
9+42	5.0332	4.77	0					
9+43	5.0289	4.77	0					
9+44	5.0247	4.76	0					
9+45	5.0205	4.76	0					
9+46	5.0163	4.75	0					
9+47	5.0121	4.75	0					
9+48	5.0079	4.75	0					
9+49	5.0037	4.74	IO					
9+50	4.9995	4.74	0					
9+51	4.9953	4.73	0					
9+52	4.9911	4.73	0					
9+53	4.9869	4.73	0					
9+54	4.9828	4.72	0					
9+55	4.9786	4.72	0					
9+56	4.9744	4.71	0					
9+57	4.9702	4.71	0					
9+58	4.9661	4.71	0					
9+59	4.9619	4.70	0					
10+ 0	4.9578	4.70	0					
10+ 1	4.9536	4.70	0					
10+ 2	4.9495	4.69	0					
10+ 3	4.9453	4.69	0					
10+ 4	4.9412	4.68	0					
10+ 5	4.9370	4.68	0					
10+ 6	4.9329	4.68	0					
10+ 7	4.9288	4.67	0					
10+ 8	4.9246	4.67	0					
10+ 9	4.9205	4.66	0					
10+10	4.9164	4.66	0					
10+11	4.9122	4.66	0					
10+12	4.9081	4.65	0					
10+13	4.9040	4.65	0					
10+14	4.8999	4.64	0					
10+15	4.8958	4.64	0					
10+16	4.8917	4.64	0					
10+17	4.8876	4.63	0					
10+18	4.8835	4.63	0					

10+19	4.8794	4.62	0						
10+20	4.8753	4.62	0						
10+21	4.8712	4.62	0						
10+22	4.8672	4.61	0						
10+23	4.8631	4.61	0						
10+24	4.8590	4.61	0						
10+25	4.8549	4.60	0						
10+26	4.8509	4.60	0						
10+27	4.8468	4.59	0						
10+28	4.8427	4.59	0						
10+29	4.8387	4.59	0						
10+30	4.8346	4.58	0						
10+31	4.8306	4.58	0						
10+32	4.8265	4.57	0						
10+33	4.8225	4.57	0						
10+34	4.8184	4.57	0						
10+35	4.8144	4.56	0						
10+36	4.8104	4.56	0						
10+37	4.8063	4.56	0						
10+38	4.8023	4.55	0						
10+39	4.7983	4.55	0						
10+40	4.7943	4.54	0						
10+41	4.7902	4.54	0						
10+42	4.7862	4.54	0						
10+43	4.7822	4.53	0						
10+44	4.7782	4.53	0						
10+45	4.7742	4.53	0						
10+46	4.7702	4.52	0						
10+47	4.7662	4.52	0						
10+48	4.7622	4.51	0						
10+49	4.7582	4.51	0						
10+50	4.7542	4.51	0						
10+51	4.7502	4.50	0						
10+52	4.7463	4.50	0						
10+53	4.7423	4.49	0						
10+54	4.7383	4.49	0						
10+55	4.7343	4.49	0						
10+56	4.7304	4.48	0						
10+57	4.7264	4.48	0						
10+58	4.7224	4.48	0						
10+59	4.7185	4.47	0						
11+ 0	4.7145	4.47	0						
11+ 1	4.7106	4.46	0						
11+ 2	4.7066	4.46	0						
11+ 3	4.7027	4.46	0						
11+ 4	4.6987	4.45	0						
11+ 5	4.6948	4.45	0						
11+ 6	4.6909	4.45	0						
11+ 7	4.6869	4.44	0						
11+ 8	4.6830	4.44	0						
11+ 9	4.6791	4.44	0						
11+10	4.6752	4.43	0						
11+11	4.6712	4.43	0						
11+12	4.6673	4.42	0						
11+13	4.6634	4.42	0						
11+14	4.6595	4.42	0						
11+15	4.6556	4.41	0						
11+16	4.6517	4.41	0						
11+17	4.6478	4.41	0						
11+18	4.6439	4.40	0						
11+19	4.6399	4.40	0						
11+20	4.6353	4.39	0						
11+21	4.6302	4.39	0						
11+22	4.6250	4.38	0						
11+23	4.6199	4.38	0						
11+24	4.6147	4.37	0						
11+25	4.6095	4.37	0						
11+26	4.6044	4.36	0						
11+27	4.5992	4.36	0						
11+28	4.5941	4.35	0						
11+29	4.5889	4.35	0						

11+30	4.5838	4.34	0						
11+31	4.5787	4.34	0						
11+32	4.5735	4.33	0						
11+33	4.5684	4.33	0						
11+34	4.5633	4.32	0						
11+35	4.5582	4.32	0						
11+36	4.5531	4.31	0						
11+37	4.5480	4.31	0						
11+38	4.5429	4.30	0						
11+39	4.5378	4.30	0						
11+40	4.5327	4.30	0						
11+41	4.5277	4.29	0						
11+42	4.5226	4.29	0						
11+43	4.5175	4.28	0						
11+44	4.5125	4.28	0						
11+45	4.5074	4.27	0						
11+46	4.5024	4.27	0						
11+47	4.4973	4.26	0						
11+48	4.4923	4.26	0						
11+49	4.4873	4.25	0						
11+50	4.4823	4.25	0						
11+51	4.4772	4.24	0						
11+52	4.4722	4.24	0						
11+53	4.4672	4.23	0						
11+54	4.4622	4.23	0						
11+55	4.4572	4.22	0						
11+56	4.4522	4.22	0						
11+57	4.4473	4.21	0						
11+58	4.4423	4.21	0						
11+59	4.4373	4.20	0						
12+ 0	4.4324	4.20	0						
12+ 1	4.4274	4.20	0						
12+ 2	4.4224	4.19	0						
12+ 3	4.4175	4.19	0						
12+ 4	4.4125	4.18	0						
12+ 5	4.4076	4.18	0						
12+ 6	4.4027	4.17	0						
12+ 7	4.3977	4.17	0						
12+ 8	4.3928	4.16	0						
12+ 9	4.3879	4.16	0						
12+10	4.3830	4.15	0						
12+11	4.3781	4.15	0						
12+12	4.3732	4.14	0						
12+13	4.3683	4.14	0						
12+14	4.3634	4.13	0						
12+15	4.3585	4.13	0						
12+16	4.3536	4.13	0						
12+17	4.3488	4.12	0						
12+18	4.3439	4.12	0						
12+19	4.3390	4.11	0						
12+20	4.3342	4.11	0						
12+21	4.3293	4.10	0						
12+22	4.3245	4.10	0						
12+23	4.3196	4.09	0						
12+24	4.3148	4.09	0						
12+25	4.3100	4.08	0						
12+26	4.3052	4.08	0						
12+27	4.3003	4.07	0						
12+28	4.2955	4.07	0						
12+29	4.2907	4.07	0						
12+30	4.2859	4.06	0						
12+31	4.2811	4.06	0						
12+32	4.2763	4.05	0						
12+33	4.2715	4.05	0						
12+34	4.2668	4.04	0						
12+35	4.2620	4.04	0						
12+36	4.2572	4.03	0						
12+37	4.2525	4.03	0						
12+38	4.2477	4.03	0						
12+39	4.2429	4.02	0						
12+40	4.2382	4.02	0						

12+41	4.2334	4.01	0						
12+42	4.2287	4.01	0						
12+43	4.2240	4.00	0						
12+44	4.2192	4.00	0						
12+45	4.2145	3.99	0						
12+46	4.2098	3.99	0						
12+47	4.2051	3.98	0						
12+48	4.2004	3.98	0						
12+49	4.1957	3.98	0						
12+50	4.1910	3.97	0						
12+51	4.1863	3.97	0						
12+52	4.1816	3.96	0						
12+53	4.1769	3.96	0						
12+54	4.1723	3.95	0						
12+55	4.1676	3.95	0						
12+56	4.1629	3.94	0						
12+57	4.1583	3.94	0						
12+58	4.1536	3.94	0						
12+59	4.1490	3.93	0						
13+ 0	4.1443	3.93	0						
13+ 1	4.1397	3.92	0						
13+ 2	4.1351	3.92	0						
13+ 3	4.1304	3.91	0						
13+ 4	4.1258	3.91	0						
13+ 5	4.1212	3.91	0						
13+ 6	4.1166	3.90	0						
13+ 7	4.1120	3.90	0						
13+ 8	4.1074	3.89	0						
13+ 9	4.1028	3.89	0						
13+10	4.0982	3.88	0						
13+11	4.0936	3.88	0						
13+12	4.0890	3.87	0						
13+13	4.0844	3.87	0						
13+14	4.0799	3.87	0						
13+15	4.0753	3.86	0						
13+16	4.0707	3.86	0						
13+17	4.0662	3.85	0						
13+18	4.0616	3.85	0						
13+19	4.0571	3.84	0						
13+20	4.0525	3.84	0						
13+21	4.0480	3.84	0						
13+22	4.0435	3.83	0						
13+23	4.0389	3.83	0						
13+24	4.0344	3.82	0						
13+25	4.0299	3.82	0						
13+26	4.0254	3.81	0						
13+27	4.0209	3.81	0						
13+28	4.0164	3.81	0						
13+29	4.0119	3.80	0						
13+30	4.0074	3.80	0						
13+31	4.0029	3.79	IO						
13+32	3.9984	3.79	0						
13+33	3.9940	3.78	0						
13+34	3.9895	3.78	0						
13+35	3.9850	3.78	0						
13+36	3.9806	3.77	0						
13+37	3.9761	3.77	0						
13+38	3.9717	3.76	0						
13+39	3.9672	3.76	0						
13+40	3.9628	3.76	0						
13+41	3.9583	3.75	0						
13+42	3.9539	3.75	0						
13+43	3.9495	3.74	0						
13+44	3.9451	3.74	0						
13+45	3.9407	3.73	0						
13+46	3.9362	3.73	0						
13+47	3.9318	3.73	0						
13+48	3.9274	3.72	0						
13+49	3.9230	3.72	0						
13+50	3.9186	3.71	0						
13+51	3.9143	3.71	0						

13+52	3.9099	3.70		0					
13+53	3.9055	3.70		0					
13+54	3.9011	3.70		0					
13+55	3.8968	3.69		0					
13+56	3.8924	3.69		0					
13+57	3.8881	3.68		0					
13+58	3.8837	3.68		0					
13+59	3.8794	3.68		0					
14+ 0	3.8750	3.67		0					
14+ 1	3.8707	3.67		0					
14+ 2	3.8663	3.66		0					
14+ 3	3.8620	3.66		0					
14+ 4	3.8577	3.66		0					
14+ 5	3.8534	3.65		0					
14+ 6	3.8491	3.65		0					
14+ 7	3.8448	3.64		0					
14+ 8	3.8405	3.64		0					
14+ 9	3.8362	3.64		0					
14+10	3.8319	3.63		0					
14+11	3.8276	3.63		0					
14+12	3.8233	3.62		0					
14+13	3.8190	3.62		0					
14+14	3.8147	3.61		0					
14+15	3.8105	3.61		0					
14+16	3.8062	3.61		0					
14+17	3.8019	3.60		0					
14+18	3.7977	3.60		0					
14+19	3.7934	3.59		0					
14+20	3.7892	3.59		0					
14+21	3.7849	3.59		0					
14+22	3.7807	3.58		0					
14+23	3.7765	3.58		0					
14+24	3.7723	3.57		0					
14+25	3.7680	3.57		0					
14+26	3.7638	3.57		0					
14+27	3.7596	3.56		0					
14+28	3.7554	3.56		0					
14+29	3.7512	3.55		0					
14+30	3.7470	3.55		0					
14+31	3.7428	3.55		0					
14+32	3.7386	3.54		0					
14+33	3.7344	3.54		0					
14+34	3.7302	3.53		0					
14+35	3.7261	3.53		0					
14+36	3.7219	3.53		0					
14+37	3.7177	3.52		0					
14+38	3.7136	3.52		0					
14+39	3.7094	3.51		0					
14+40	3.7053	3.51		0					
14+41	3.7011	3.51		0					
14+42	3.6970	3.50		0					
14+43	3.6928	3.50		0					
14+44	3.6887	3.50		0					
14+45	3.6846	3.49		0					
14+46	3.6805	3.49		0					
14+47	3.6763	3.48		0					
14+48	3.6722	3.48		0					
14+49	3.6681	3.48		0					
14+50	3.6640	3.47		0					
14+51	3.6599	3.47		0					
14+52	3.6558	3.46		0					
14+53	3.6517	3.46		0					
14+54	3.6476	3.46		0					
14+55	3.6435	3.45		0					
14+56	3.6395	3.45		0					
14+57	3.6354	3.44		0					
14+58	3.6313	3.44		0					
14+59	3.6273	3.44		0					
15+ 0	3.6232	3.43		0					
15+ 1	3.6191	3.43		0					
15+ 2	3.6151	3.43		0					

16+14	3.2985	3.13	0						
16+15	3.2942	3.12	0						
16+16	3.2900	3.12	0						
16+17	3.2857	3.11	0						
16+18	3.2815	3.11	0						
16+19	3.2772	3.10	0						
16+20	3.2730	3.10	0						
16+21	3.2688	3.10	0						
16+22	3.2646	3.09	0						
16+23	3.2604	3.09	0						
16+24	3.2562	3.08	0						
16+25	3.2520	3.08	0						
16+26	3.2478	3.08	0						
16+27	3.2436	3.07	0						
16+28	3.2394	3.07	0						
16+29	3.2352	3.07	0						
16+30	3.2310	3.06	0						
16+31	3.2269	3.06	0						
16+32	3.2227	3.05	0						
16+33	3.2185	3.05	0						
16+34	3.2144	3.05	0						
16+35	3.2102	3.04	0						
16+36	3.2061	3.04	0						
16+37	3.2019	3.03	0						
16+38	3.1978	3.03	0						
16+39	3.1937	3.03	0						
16+40	3.1896	3.02	0						
16+41	3.1855	3.02	0						
16+42	3.1813	3.01	0						
16+43	3.1772	3.01	0						
16+44	3.1731	3.01	0						
16+45	3.1690	3.00	0						
16+46	3.1650	3.00	0						
16+47	3.1609	2.99	0						
16+48	3.1568	2.99	0						
16+49	3.1527	2.99	0						
16+50	3.1486	2.98	0						
16+51	3.1446	2.98	0						
16+52	3.1405	2.98	0						
16+53	3.1365	2.97	0						
16+54	3.1324	2.97	0						
16+55	3.1284	2.96	0						
16+56	3.1243	2.96	0						
16+57	3.1203	2.96	0						
16+58	3.1163	2.95	0						
16+59	3.1123	2.95	0						
17+ 0	3.1082	2.94	0						
17+ 1	3.1042	2.94	0						
17+ 2	3.1002	2.94	0						
17+ 3	3.0962	2.93	0						
17+ 4	3.0922	2.93	0						
17+ 5	3.0882	2.93	0						
17+ 6	3.0843	2.92	0						
17+ 7	3.0803	2.92	0						
17+ 8	3.0763	2.91	0						
17+ 9	3.0723	2.91	0						
17+10	3.0684	2.91	0						
17+11	3.0644	2.90	0						
17+12	3.0605	2.90	0						
17+13	3.0565	2.90	0						
17+14	3.0526	2.89	0						
17+15	3.0486	2.89	0						
17+16	3.0447	2.88	0						
17+17	3.0408	2.88	0						
17+18	3.0368	2.88	0						
17+19	3.0329	2.87	0						
17+20	3.0290	2.87	0						
17+21	3.0251	2.87	0						
17+22	3.0212	2.86	0						
17+23	3.0173	2.86	0						
17+24	3.0134	2.85	0						

17+25	3.0095	2.85		O						
17+26	3.0056	2.85		O						
17+27	3.0017	2.84		IO						
17+28	2.9979	2.84		O						
17+29	2.9940	2.84		O						
17+30	2.9901	2.83		O						
17+31	2.9863	2.83		O						
17+32	2.9824	2.83		O						
17+33	2.9786	2.82		O						
17+34	2.9747	2.82		O						
17+35	2.9709	2.81		O						
17+36	2.9671	2.81		O						
17+37	2.9632	2.81		O						
17+38	2.9594	2.80		O						
17+39	2.9556	2.80		O						
17+40	2.9518	2.80		O						
17+41	2.9480	2.79		O						
17+42	2.9442	2.79		O						
17+43	2.9404	2.79		O						
17+44	2.9366	2.78		O						
17+45	2.9328	2.78		O						
17+46	2.9290	2.78		O						
17+47	2.9252	2.77		O						
17+48	2.9214	2.77		O						
17+49	2.9177	2.76		O						
17+50	2.9139	2.76		O						
17+51	2.9101	2.76		O						
17+52	2.9064	2.75		O						
17+53	2.9026	2.75		O						
17+54	2.8989	2.75		O						
17+55	2.8951	2.74		O						
17+56	2.8914	2.74		O						
17+57	2.8877	2.74		O						
17+58	2.8840	2.73		O						
17+59	2.8802	2.73		O						
18+ 0	2.8765	2.73		O						
18+ 1	2.8728	2.72		O						
18+ 2	2.8691	2.72		O						
18+ 3	2.8654	2.71		O						
18+ 4	2.8617	2.71		O						
18+ 5	2.8580	2.71		O						
18+ 6	2.8543	2.70		O						
18+ 7	2.8506	2.70		O						
18+ 8	2.8470	2.70		O						
18+ 9	2.8433	2.69		O						
18+10	2.8396	2.69		O						
18+11	2.8359	2.69		O						
18+12	2.8323	2.68		O						
18+13	2.8286	2.68		O						
18+14	2.8250	2.68		O						
18+15	2.8213	2.67		O						
18+16	2.8177	2.67		O						
18+17	2.8141	2.67		O						
18+18	2.8104	2.66		O						
18+19	2.8068	2.66		O						
18+20	2.8032	2.66		O						
18+21	2.7996	2.65		O						
18+22	2.7959	2.65		O						
18+23	2.7923	2.65		O						
18+24	2.7887	2.64		O						
18+25	2.7851	2.64		O						
18+26	2.7815	2.64		O						
18+27	2.7780	2.63		O						
18+28	2.7744	2.63		O						
18+29	2.7708	2.63		O						
18+30	2.7672	2.62		O						
18+31	2.7636	2.62		O						
18+32	2.7601	2.61		O						
18+33	2.7565	2.61		O						
18+34	2.7530	2.61		O						
18+35	2.7494	2.60		O						

18+36	2.7459	2.60		0							
18+37	2.7423	2.60		0							
18+38	2.7388	2.59		0							
18+39	2.7352	2.59		0							
18+40	2.7317	2.59		0							
18+41	2.7282	2.58		0							
18+42	2.7247	2.58		0							
18+43	2.7211	2.58		0							
18+44	2.7176	2.57		0							
18+45	2.7141	2.57		0							
18+46	2.7106	2.57		0							
18+47	2.7071	2.56		0							
18+48	2.7036	2.56		0							
18+49	2.7001	2.56		0							
18+50	2.6967	2.55		0							
18+51	2.6932	2.55		0							
18+52	2.6897	2.55		0							
18+53	2.6862	2.55		0							
18+54	2.6828	2.54		0							
18+55	2.6793	2.54		0							
18+56	2.6758	2.54		0							
18+57	2.6724	2.53		0							
18+58	2.6689	2.53		0							
18+59	2.6655	2.53		0							
19+ 0	2.6621	2.52		0							
19+ 1	2.6586	2.52		0							
19+ 2	2.6552	2.52		0							
19+ 3	2.6518	2.51		0							
19+ 4	2.6483	2.51		0							
19+ 5	2.6449	2.51		0							
19+ 6	2.6415	2.50		0							
19+ 7	2.6381	2.50		0							
19+ 8	2.6347	2.50		0							
19+ 9	2.6313	2.49		0							
19+10	2.6279	2.49		0							
19+11	2.6245	2.49		0							
19+12	2.6211	2.48		0							
19+13	2.6177	2.48		0							
19+14	2.6144	2.48		0							
19+15	2.6110	2.47		0							
19+16	2.6076	2.47		0							
19+17	2.6043	2.47		0							
19+18	2.6009	2.46		0							
19+19	2.5975	2.46		0							
19+20	2.5942	2.46		0							
19+21	2.5908	2.45		0							
19+22	2.5875	2.45		0							
19+23	2.5842	2.45		0							
19+24	2.5808	2.45		0							
19+25	2.5775	2.44		0							
19+26	2.5742	2.44		0							
19+27	2.5708	2.44		0							
19+28	2.5675	2.43		0							
19+29	2.5642	2.43		0							
19+30	2.5609	2.43		0							
19+31	2.5576	2.42		0							
19+32	2.5543	2.42		0							
19+33	2.5510	2.42		0							
19+34	2.5477	2.41		0							
19+35	2.5444	2.41		0							
19+36	2.5411	2.41		0							
19+37	2.5379	2.40		0							
19+38	2.5346	2.40		0							
19+39	2.5313	2.40		0							
19+40	2.5280	2.40		0							
19+41	2.5248	2.39		0							
19+42	2.5215	2.39		0							
19+43	2.5183	2.39		0							
19+44	2.5150	2.38		0							
19+45	2.5118	2.38		0							
19+46	2.5085	2.38		0							

19+47	2.5053	2.37		0					
19+48	2.5021	2.37		0					
19+49	2.4988	2.37		0					
19+50	2.4956	2.36		0					
19+51	2.4924	2.36		0					
19+52	2.4892	2.36		0					
19+53	2.4860	2.36		0					
19+54	2.4828	2.35		0					
19+55	2.4796	2.35		0					
19+56	2.4764	2.35		0					
19+57	2.4732	2.34		0					
19+58	2.4700	2.34		0					
19+59	2.4668	2.34		0					
20+ 0	2.4636	2.33		0					
20+ 1	2.4604	2.33		0					
20+ 2	2.4572	2.33		0					
20+ 3	2.4541	2.33		0					
20+ 4	2.4509	2.32		0					
20+ 5	2.4477	2.32		0					
20+ 6	2.4446	2.32		0					
20+ 7	2.4414	2.31		0					
20+ 8	2.4383	2.31		0					
20+ 9	2.4351	2.31		0					
20+10	2.4320	2.30		0					
20+11	2.4288	2.30		0					
20+12	2.4257	2.30		0					
20+13	2.4226	2.30		0					
20+14	2.4195	2.29		0					
20+15	2.4163	2.29		0					
20+16	2.4132	2.29		0					
20+17	2.4101	2.28		0					
20+18	2.4070	2.28		0					
20+19	2.4039	2.28		0					
20+20	2.4008	2.27		0					
20+21	2.3977	2.27		0					
20+22	2.3946	2.27		0					
20+23	2.3915	2.27		0					
20+24	2.3884	2.26		0					
20+25	2.3853	2.26		0					
20+26	2.3823	2.26		0					
20+27	2.3792	2.25		0					
20+28	2.3761	2.25		0					
20+29	2.3730	2.25		0					
20+30	2.3700	2.25		0					
20+31	2.3669	2.24		0					
20+32	2.3639	2.24		0					
20+33	2.3608	2.24		0					
20+34	2.3578	2.23		0					
20+35	2.3547	2.23		0					
20+36	2.3517	2.23		0					
20+37	2.3487	2.23		0					
20+38	2.3456	2.22		0					
20+39	2.3426	2.22		0					
20+40	2.3396	2.22		0					
20+41	2.3366	2.21		0					
20+42	2.3335	2.21		0					
20+43	2.3305	2.21		0					
20+44	2.3275	2.21		0					
20+45	2.3245	2.20		0					
20+46	2.3214	2.20		0					
20+47	2.3165	2.19		0					
20+48	2.3071	2.18		0					
20+49	2.2974	2.17		0					
20+50	2.2876	2.16		0					
20+51	2.2779	2.15		0					
20+52	2.2682	2.14		0					
20+53	2.2585	2.13		0					
20+54	2.2489	2.12		0					
20+55	2.2393	2.12		0					
20+56	2.2298	2.11		0					
20+57	2.2203	2.10		0					

20+58	2.2108	2.09	O					
20+59	2.2014	2.08	O					
21+ 0	2.1920	2.07	O					
21+ 1	2.1827	2.06	O					
21+ 2	2.1734	2.05	O					
21+ 3	2.1641	2.04	O					
21+ 4	2.1549	2.04	O					
21+ 5	2.1457	2.03	O					
21+ 6	2.1366	2.02	O					
21+ 7	2.1275	2.01	O					
21+ 8	2.1184	2.00	O					
21+ 9	2.1094	1.99	O					
21+10	2.1004	1.98	O					
21+11	2.0915	1.98	O					
21+12	2.0826	1.97	O					
21+13	2.0737	1.96	O					
21+14	2.0649	1.95	O					
21+15	2.0561	1.94	O					
21+16	2.0473	1.93	O					
21+17	2.0386	1.93	O					
21+18	2.0299	1.92	O					
21+19	2.0213	1.91	O					
21+20	2.0127	1.90	O					
21+21	2.0041	1.89	IO					
21+22	1.9956	1.89	O					
21+23	1.9871	1.88	O					
21+24	1.9786	1.87	O					
21+25	1.9702	1.86	O					
21+26	1.9618	1.85	O					
21+27	1.9534	1.85	O					
21+28	1.9451	1.84	O					
21+29	1.9368	1.83	O					
21+30	1.9286	1.82	O					
21+31	1.9204	1.81	O					
21+32	1.9122	1.81	O					
21+33	1.9040	1.80	O					
21+34	1.8959	1.79	O					
21+35	1.8879	1.78	O					
21+36	1.8798	1.78	O					
21+37	1.8718	1.77	O					
21+38	1.8638	1.76	O					
21+39	1.8559	1.75	O					
21+40	1.8480	1.75	O					
21+41	1.8401	1.74	O					
21+42	1.8323	1.73	O					
21+43	1.8245	1.72	O					
21+44	1.8167	1.72	O					
21+45	1.8090	1.71	O					
21+46	1.8013	1.70	O					
21+47	1.7936	1.69	O					
21+48	1.7860	1.69	O					
21+49	1.7784	1.68	O					
21+50	1.7708	1.67	O					
21+51	1.7632	1.67	O					
21+52	1.7557	1.66	O					
21+53	1.7482	1.65	O					
21+54	1.7408	1.64	O					
21+55	1.7334	1.64	O					
21+56	1.7260	1.63	O					
21+57	1.7187	1.62	O					
21+58	1.7113	1.62	O					
21+59	1.7040	1.61	O					
22+ 0	1.6968	1.60	O					
22+ 1	1.6896	1.60	O					
22+ 2	1.6824	1.59	O					
22+ 3	1.6752	1.58	O					
22+ 4	1.6681	1.58	O					
22+ 5	1.6610	1.57	O					
22+ 6	1.6539	1.56	O					
22+ 7	1.6468	1.56	O					
22+ 8	1.6398	1.55	O					

22+ 9	1.6328	1.54	O					
22+10	1.6259	1.54	O					
22+11	1.6190	1.53	O					
22+12	1.6121	1.52	O					
22+13	1.6052	1.52	O					
22+14	1.5984	1.51	O					
22+15	1.5916	1.50	O					
22+16	1.5848	1.50	O					
22+17	1.5780	1.49	O					
22+18	1.5713	1.48	O					
22+19	1.5646	1.48	O					
22+20	1.5580	1.47	O					
22+21	1.5513	1.47	O					
22+22	1.5447	1.46	O					
22+23	1.5381	1.45	O					
22+24	1.5316	1.45	O					
22+25	1.5251	1.44	O					
22+26	1.5186	1.43	O					
22+27	1.5121	1.43	O					
22+28	1.5057	1.42	O					
22+29	1.4992	1.42	O					
22+30	1.4929	1.41	O					
22+31	1.4865	1.40	O					
22+32	1.4802	1.40	O					
22+33	1.4739	1.39	O					
22+34	1.4676	1.39	O					
22+35	1.4613	1.38	O					
22+36	1.4551	1.37	O					
22+37	1.4489	1.37	O					
22+38	1.4428	1.36	O					
22+39	1.4366	1.36	O					
22+40	1.4305	1.35	O					
22+41	1.4244	1.35	O					
22+42	1.4183	1.34	O					
22+43	1.4123	1.33	O					
22+44	1.4063	1.33	O					
22+45	1.4003	1.32	O					
22+46	1.3943	1.32	O					
22+47	1.3884	1.31	O					
22+48	1.3825	1.31	O					
22+49	1.3766	1.30	O					
22+50	1.3707	1.29	O					
22+51	1.3649	1.29	O					
22+52	1.3591	1.28	O					
22+53	1.3533	1.28	O					
22+54	1.3475	1.27	O					
22+55	1.3418	1.27	O					
22+56	1.3361	1.26	O					
22+57	1.3304	1.26	O					
22+58	1.3247	1.25	O					
22+59	1.3191	1.25	O					
23+ 0	1.3134	1.24	O					
23+ 1	1.3079	1.24	O					
23+ 2	1.3023	1.23	O					
23+ 3	1.2967	1.23	O					
23+ 4	1.2912	1.22	O					
23+ 5	1.2857	1.21	O					
23+ 6	1.2802	1.21	O					
23+ 7	1.2748	1.20	O					
23+ 8	1.2694	1.20	O					
23+ 9	1.2640	1.19	O					
23+10	1.2586	1.19	O					
23+11	1.2532	1.18	O					
23+12	1.2479	1.18	O					
23+13	1.2426	1.17	O					
23+14	1.2373	1.17	O					
23+15	1.2320	1.16	O					
23+16	1.2267	1.16	O					
23+17	1.2215	1.15	O					
23+18	1.2163	1.15	O					
23+19	1.2111	1.14	O					

23+20	1.2060	1.14	IO					
23+21	1.2008	1.13	IO					
23+22	1.1957	1.13	IO					
23+23	1.1906	1.12	IO					
23+24	1.1856	1.12	IO					
23+25	1.1805	1.12	IO					
23+26	1.1755	1.11	IO					
23+27	1.1705	1.11	IO					
23+28	1.1655	1.10	IO					
23+29	1.1605	1.10	IO					
23+30	1.1556	1.09	IO					
23+31	1.1507	1.09	IO					
23+32	1.1458	1.08	IO					
23+33	1.1409	1.08	IO					
23+34	1.1360	1.07	IO					
23+35	1.1312	1.07	IO					
23+36	1.1264	1.06	IO					
23+37	1.1216	1.06	IO					
23+38	1.1168	1.06	IO					
23+39	1.1120	1.05	IO					
23+40	1.1073	1.05	IO					
23+41	1.1026	1.04	IO					
23+42	1.0979	1.04	IO					
23+43	1.0932	1.03	IO					
23+44	1.0886	1.03	IO					
23+45	1.0839	1.02	IO					
23+46	1.0793	1.02	IO					
23+47	1.0747	1.02	IO					
23+48	1.0701	1.01	IO					
23+49	1.0656	1.01	IO					
23+50	1.0610	1.00	IO					
23+51	1.0565	1.00	IO					
23+52	1.0520	0.99	IO					
23+53	1.0475	0.99	IO					
23+54	1.0431	0.99	IO					
23+55	1.0386	0.98	IO					
23+56	1.0342	0.98	IO					
23+57	1.0298	0.97	IO					
23+58	1.0254	0.97	IO					
23+59	1.0211	0.96	IO					
24+ 0	1.0167	0.96	IO					
24+ 1	1.0124	0.96	IO					
24+ 2	1.0081	0.95	IO					
24+ 3	1.0038	0.95	IO					
24+ 4	0.9995	0.94	O					
24+ 5	0.9952	0.94	O					
24+ 6	0.9910	0.94	O					
24+ 7	0.9868	0.93	O					
24+ 8	0.9826	0.93	O					
24+ 9	0.9784	0.92	O					
24+10	0.9742	0.92	O					
24+11	0.9701	0.92	O					
24+12	0.9660	0.91	O					
24+13	0.9618	0.91	O					
24+14	0.9577	0.90	O					
24+15	0.9537	0.90	O					
24+16	0.9496	0.90	O					
24+17	0.9456	0.89	O					
24+18	0.9415	0.89	O					
24+19	0.9375	0.89	O					
24+20	0.9335	0.88	O					
24+21	0.9295	0.88	O					
24+22	0.9256	0.87	O					
24+23	0.9216	0.87	O					
24+24	0.9177	0.87	O					
24+25	0.9138	0.86	O					
24+26	0.9099	0.86	O					
24+27	0.9060	0.86	O					
24+28	0.9022	0.85	O					
24+29	0.8983	0.85	O					
24+30	0.8945	0.85	O					

24+31	0.8907	0.84	0				
24+32	0.8869	0.84	0				
24+33	0.8831	0.83	0				
24+34	0.8794	0.83	0				
24+35	0.8756	0.83	0				
24+36	0.8719	0.82	0				
24+37	0.8682	0.82	0				
24+38	0.8645	0.82	0				
24+39	0.8608	0.81	0				
24+40	0.8571	0.81	0				
24+41	0.8535	0.81	0				
24+42	0.8499	0.80	0				
24+43	0.8462	0.80	0				
24+44	0.8426	0.80	0				
24+45	0.8390	0.79	0				
24+46	0.8355	0.79	0				
24+47	0.8319	0.79	0				
24+48	0.8284	0.78	0				
24+49	0.8248	0.78	0				
24+50	0.8213	0.78	0				
24+51	0.8178	0.77	0				
24+52	0.8144	0.77	0				
24+53	0.8109	0.77	0				
24+54	0.8074	0.76	0				
24+55	0.8040	0.76	0				
24+56	0.8006	0.76	0				
24+57	0.7972	0.75	0				
24+58	0.7938	0.75	0				
24+59	0.7904	0.75	0				
25+ 0	0.7870	0.74	0				
25+ 1	0.7837	0.74	0				
25+ 2	0.7803	0.74	0				
25+ 3	0.7770	0.73	0				
25+ 4	0.7737	0.73	0				
25+ 5	0.7704	0.73	0				
25+ 6	0.7671	0.72	0				
25+ 7	0.7638	0.72	0				
25+ 8	0.7606	0.72	0				
25+ 9	0.7574	0.72	0				
25+10	0.7541	0.71	0				
25+11	0.7509	0.71	0				
25+12	0.7477	0.71	0				
25+13	0.7445	0.70	0				
25+14	0.7414	0.70	0				
25+15	0.7382	0.70	0				
25+16	0.7351	0.69	0				
25+17	0.7319	0.69	0				
25+18	0.7288	0.69	0				
25+19	0.7257	0.69	0				
25+20	0.7226	0.68	0				
25+21	0.7195	0.68	0				
25+22	0.7165	0.68	0				
25+23	0.7134	0.67	0				
25+24	0.7104	0.67	0				
25+25	0.7074	0.67	0				
25+26	0.7044	0.67	0				
25+27	0.7014	0.66	0				
25+28	0.6984	0.66	0				
25+29	0.6954	0.66	0				
25+30	0.6924	0.65	0				
25+31	0.6895	0.65	0				
25+32	0.6865	0.65	0				
25+33	0.6836	0.65	0				
25+34	0.6807	0.64	0				
25+35	0.6778	0.64	0				
25+36	0.6749	0.64	0				
25+37	0.6720	0.63	0				
25+38	0.6692	0.63	0				
25+39	0.6663	0.63	0				
25+40	0.6635	0.63	0				
25+41	0.6607	0.62	0				

25+42	0.6579	0.62	0				
25+43	0.6551	0.62	0				
25+44	0.6523	0.62	0				
25+45	0.6495	0.61	0				
25+46	0.6467	0.61	0				
25+47	0.6440	0.61	0				
25+48	0.6412	0.61	0				
25+49	0.6385	0.60	0				
25+50	0.6358	0.60	0				
25+51	0.6331	0.60	0				
25+52	0.6304	0.60	0				
25+53	0.6277	0.59	0				
25+54	0.6250	0.59	0				
25+55	0.6224	0.59	0				
25+56	0.6197	0.59	0				
25+57	0.6171	0.58	0				
25+58	0.6144	0.58	0				
25+59	0.6118	0.58	0				
26+ 0	0.6092	0.58	0				
26+ 1	0.6066	0.57	0				
26+ 2	0.6040	0.57	0				
26+ 3	0.6015	0.57	0				
26+ 4	0.5989	0.57	0				
26+ 5	0.5963	0.56	0				
26+ 6	0.5938	0.56	0				
26+ 7	0.5913	0.56	0				
26+ 8	0.5888	0.56	0				
26+ 9	0.5863	0.55	0				
26+10	0.5838	0.55	0				
26+11	0.5813	0.55	0				
26+12	0.5788	0.55	0				
26+13	0.5763	0.54	0				
26+14	0.5739	0.54	0				
26+15	0.5714	0.54	0				
26+16	0.5690	0.54	0				
26+17	0.5666	0.54	0				
26+18	0.5642	0.53	0				
26+19	0.5618	0.53	0				
26+20	0.5594	0.53	0				
26+21	0.5570	0.53	0				
26+22	0.5546	0.52	0				
26+23	0.5522	0.52	0				
26+24	0.5499	0.52	0				
26+25	0.5476	0.52	0				
26+26	0.5452	0.52	0				
26+27	0.5429	0.51	0				
26+28	0.5406	0.51	0				
26+29	0.5383	0.51	0				
26+30	0.5360	0.51	0				
26+31	0.5337	0.50	0				
26+32	0.5314	0.50	0				
26+33	0.5292	0.50	0				
26+34	0.5269	0.50	0				
26+35	0.5247	0.50	0				
26+36	0.5224	0.49	0				
26+37	0.5202	0.49	0				
26+38	0.5180	0.49	0				
26+39	0.5158	0.49	0				
26+40	0.5136	0.49	0				
26+41	0.5114	0.48	0				
26+42	0.5092	0.48	0				
26+43	0.5071	0.48	0				
26+44	0.5049	0.48	0				
26+45	0.5028	0.47	0				
26+46	0.5006	0.47	0				
26+47	0.4985	0.47	0				
26+48	0.4964	0.47	0				
26+49	0.4942	0.47	0				
26+50	0.4921	0.46	0				
26+51	0.4900	0.46	0				
26+52	0.4880	0.46	0				

26+53	0.4859	0.46	0				
26+54	0.4838	0.46	0				
26+55	0.4817	0.46	0				
26+56	0.4797	0.45	0				
26+57	0.4777	0.45	0				
26+58	0.4756	0.45	0				
26+59	0.4736	0.45	0				
27+ 0	0.4716	0.45	0				
27+ 1	0.4696	0.44	0				
27+ 2	0.4676	0.44	0				
27+ 3	0.4656	0.44	0				
27+ 4	0.4636	0.44	0				
27+ 5	0.4616	0.44	0				
27+ 6	0.4597	0.43	0				
27+ 7	0.4577	0.43	0				
27+ 8	0.4557	0.43	0				
27+ 9	0.4538	0.43	0				
27+10	0.4519	0.43	0				
27+11	0.4499	0.43	0				
27+12	0.4480	0.42	0				
27+13	0.4461	0.42	0				
27+14	0.4442	0.42	0				
27+15	0.4423	0.42	0				
27+16	0.4404	0.42	0				
27+17	0.4386	0.41	0				
27+18	0.4367	0.41	0				
27+19	0.4348	0.41	0				
27+20	0.4330	0.41	0				
27+21	0.4311	0.41	0				
27+22	0.4293	0.41	0				
27+23	0.4275	0.40	0				
27+24	0.4257	0.40	0				
27+25	0.4239	0.40	0				
27+26	0.4220	0.40	0				
27+27	0.4202	0.40	0				
27+28	0.4185	0.40	0				
27+29	0.4167	0.39	0				
27+30	0.4149	0.39	0				
27+31	0.4131	0.39	0				
27+32	0.4114	0.39	0				
27+33	0.4096	0.39	0				
27+34	0.4079	0.39	0				
27+35	0.4061	0.38	0				
27+36	0.4044	0.38	0				
27+37	0.4027	0.38	0				
27+38	0.4010	0.38	0				
27+39	0.3993	0.38	0				
27+40	0.3976	0.38	0				
27+41	0.3959	0.37	0				
27+42	0.3942	0.37	0				
27+43	0.3925	0.37	0				
27+44	0.3908	0.37	0				
27+45	0.3892	0.37	0				
27+46	0.3875	0.37	0				
27+47	0.3859	0.36	0				
27+48	0.3842	0.36	0				
27+49	0.3826	0.36	0				
27+50	0.3810	0.36	0				
27+51	0.3793	0.36	0				
27+52	0.3777	0.36	0				
27+53	0.3761	0.36	0				
27+54	0.3745	0.35	0				
27+55	0.3729	0.35	0				
27+56	0.3713	0.35	0				
27+57	0.3697	0.35	0				
27+58	0.3682	0.35	0				
27+59	0.3666	0.35	0				
28+ 0	0.3650	0.34	0				
28+ 1	0.3635	0.34	0				
28+ 2	0.3619	0.34	0				
28+ 3	0.3604	0.34	0				

28+ 4	0.3589	0.34	0				
28+ 5	0.3573	0.34	0				
28+ 6	0.3558	0.34	0				
28+ 7	0.3543	0.33	0				
28+ 8	0.3528	0.33	0				
28+ 9	0.3513	0.33	0				
28+10	0.3498	0.33	0				
28+11	0.3483	0.33	0				
28+12	0.3468	0.33	0				
28+13	0.3453	0.33	0				
28+14	0.3439	0.32	0				
28+15	0.3424	0.32	0				
28+16	0.3409	0.32	0				
28+17	0.3395	0.32	0				
28+18	0.3380	0.32	0				
28+19	0.3366	0.32	0				
28+20	0.3352	0.32	0				
28+21	0.3337	0.32	0				
28+22	0.3323	0.31	0				
28+23	0.3309	0.31	0				
28+24	0.3295	0.31	0				
28+25	0.3281	0.31	0				
28+26	0.3267	0.31	0				
28+27	0.3253	0.31	0				
28+28	0.3239	0.31	0				
28+29	0.3225	0.30	0				
28+30	0.3212	0.30	0				
28+31	0.3198	0.30	0				
28+32	0.3184	0.30	0				
28+33	0.3171	0.30	0				
28+34	0.3157	0.30	0				
28+35	0.3144	0.30	0				
28+36	0.3130	0.30	0				
28+37	0.3117	0.29	0				
28+38	0.3104	0.29	0				
28+39	0.3091	0.29	0				
28+40	0.3077	0.29	0				
28+41	0.3064	0.29	0				
28+42	0.3051	0.29	0				
28+43	0.3038	0.29	0				
28+44	0.3025	0.29	0				
28+45	0.3012	0.28	0				
28+46	0.3000	0.28	0				
28+47	0.2987	0.28	0				
28+48	0.2974	0.28	0				
28+49	0.2961	0.28	0				
28+50	0.2949	0.28	0				
28+51	0.2936	0.28	0				
28+52	0.2924	0.28	0				
28+53	0.2911	0.28	0				
28+54	0.2899	0.27	0				
28+55	0.2887	0.27	0				
28+56	0.2874	0.27	0				
28+57	0.2862	0.27	0				
28+58	0.2850	0.27	0				
28+59	0.2838	0.27	0				
29+ 0	0.2826	0.27	0				
29+ 1	0.2814	0.27	0				
29+ 2	0.2802	0.26	0				
29+ 3	0.2790	0.26	0				
29+ 4	0.2778	0.26	0				
29+ 5	0.2766	0.26	0				
29+ 6	0.2754	0.26	0				
29+ 7	0.2743	0.26	0				
29+ 8	0.2731	0.26	0				
29+ 9	0.2719	0.26	0				
29+10	0.2708	0.26	0				
29+11	0.2696	0.25	0				
29+12	0.2685	0.25	0				
29+13	0.2673	0.25	0				
29+14	0.2662	0.25	0				

29+15	0.2650	0.25	0				
29+16	0.2639	0.25	0				
29+17	0.2628	0.25	0				
29+18	0.2617	0.25	0				
29+19	0.2606	0.25	0				
29+20	0.2594	0.25	0				
29+21	0.2583	0.24	0				
29+22	0.2572	0.24	0				
29+23	0.2561	0.24	0				
29+24	0.2551	0.24	0				
29+25	0.2540	0.24	0				
29+26	0.2529	0.24	0				
29+27	0.2518	0.24	0				
29+28	0.2507	0.24	0				
29+29	0.2497	0.24	0				
29+30	0.2486	0.23	0				
29+31	0.2475	0.23	0				
29+32	0.2465	0.23	0				
29+33	0.2454	0.23	0				
29+34	0.2444	0.23	0				
29+35	0.2434	0.23	0				
29+36	0.2423	0.23	0				
29+37	0.2413	0.23	0				
29+38	0.2403	0.23	0				
29+39	0.2392	0.23	0				
29+40	0.2382	0.23	0				
29+41	0.2372	0.22	0				
29+42	0.2362	0.22	0				
29+43	0.2352	0.22	0				
29+44	0.2342	0.22	0				
29+45	0.2332	0.22	0				
29+46	0.2322	0.22	0				
29+47	0.2312	0.22	0				
29+48	0.2302	0.22	0				
29+49	0.2292	0.22	0				
29+50	0.2283	0.22	0				
29+51	0.2273	0.21	0				
29+52	0.2263	0.21	0				
29+53	0.2254	0.21	0				
29+54	0.2244	0.21	0				
29+55	0.2234	0.21	0				
29+56	0.2225	0.21	0				
29+57	0.2215	0.21	0				
29+58	0.2206	0.21	0				
29+59	0.2197	0.21	0				
30+ 0	0.2187	0.21	0				
30+ 1	0.2178	0.21	0				
30+ 2	0.2169	0.20	0				
30+ 3	0.2159	0.20	0				
30+ 4	0.2150	0.20	0				
30+ 5	0.2141	0.20	0				
30+ 6	0.2132	0.20	0				
30+ 7	0.2123	0.20	0				
30+ 8	0.2114	0.20	0				
30+ 9	0.2105	0.20	0				
30+10	0.2096	0.20	0				
30+11	0.2087	0.20	0				
30+12	0.2078	0.20	0				
30+13	0.2069	0.20	0				
30+14	0.2060	0.19	0				
30+15	0.2052	0.19	0				
30+16	0.2043	0.19	0				
30+17	0.2034	0.19	0				
30+18	0.2026	0.19	0				
30+19	0.2017	0.19	0				
30+20	0.2008	0.19	0				
30+21	0.2000	0.19	0				
30+22	0.1991	0.19	0				
30+23	0.1983	0.19	0				
30+24	0.1974	0.19	0				
30+25	0.1966	0.19	0				

30+26	0.1958	0.18	O				
30+27	0.1949	0.18	O				
30+28	0.1941	0.18	O				
30+29	0.1933	0.18	O				
30+30	0.1924	0.18	O				
30+31	0.1916	0.18	O				
30+32	0.1908	0.18	O				
30+33	0.1900	0.18	O				
30+34	0.1892	0.18	O				
30+35	0.1884	0.18	O				
30+36	0.1876	0.18	O				
30+37	0.1868	0.18	O				
30+38	0.1860	0.18	O				
30+39	0.1852	0.17	O				
30+40	0.1844	0.17	O				
30+41	0.1836	0.17	O				
30+42	0.1828	0.17	O				
30+43	0.1821	0.17	O				
30+44	0.1813	0.17	O				
30+45	0.1805	0.17	O				
30+46	0.1797	0.17	O				
30+47	0.1790	0.17	O				
30+48	0.1782	0.17	O				
30+49	0.1775	0.17	O				
30+50	0.1767	0.17	O				
30+51	0.1759	0.17	O				
30+52	0.1752	0.17	O				
30+53	0.1744	0.16	O				
30+54	0.1737	0.16	O				
30+55	0.1730	0.16	O				
30+56	0.1722	0.16	O				
30+57	0.1715	0.16	O				
30+58	0.1708	0.16	O				
30+59	0.1700	0.16	O				
31+ 0	0.1693	0.16	O				
31+ 1	0.1686	0.16	O				
31+ 2	0.1679	0.16	O				
31+ 3	0.1672	0.16	O				
31+ 4	0.1664	0.16	O				
31+ 5	0.1657	0.16	O				
31+ 6	0.1650	0.16	O				
31+ 7	0.1643	0.16	O				
31+ 8	0.1636	0.15	O				
31+ 9	0.1629	0.15	O				
31+10	0.1622	0.15	O				
31+11	0.1615	0.15	O				
31+12	0.1609	0.15	O				
31+13	0.1602	0.15	O				
31+14	0.1595	0.15	O				
31+15	0.1588	0.15	O				
31+16	0.1581	0.15	O				
31+17	0.1575	0.15	O				
31+18	0.1568	0.15	O				
31+19	0.1561	0.15	O				
31+20	0.1555	0.15	O				
31+21	0.1548	0.15	O				
31+22	0.1541	0.15	O				
31+23	0.1535	0.14	O				
31+24	0.1528	0.14	O				
31+25	0.1522	0.14	O				
31+26	0.1515	0.14	O				
31+27	0.1509	0.14	O				
31+28	0.1502	0.14	O				
31+29	0.1496	0.14	O				
31+30	0.1490	0.14	O				
31+31	0.1483	0.14	O				
31+32	0.1477	0.14	O				
31+33	0.1471	0.14	O				
31+34	0.1464	0.14	O				
31+35	0.1458	0.14	O				
31+36	0.1452	0.14	O				

31+37	0.1446	0.14	O				
31+38	0.1440	0.14	O				
31+39	0.1434	0.14	O				
31+40	0.1427	0.13	O				
31+41	0.1421	0.13	O				
31+42	0.1415	0.13	O				
31+43	0.1409	0.13	O				
31+44	0.1403	0.13	O				
31+45	0.1397	0.13	O				
31+46	0.1391	0.13	O				
31+47	0.1385	0.13	O				
31+48	0.1379	0.13	O				
31+49	0.1374	0.13	O				
31+50	0.1368	0.13	O				
31+51	0.1362	0.13	O				
31+52	0.1356	0.13	O				
31+53	0.1350	0.13	O				
31+54	0.1345	0.13	O				
31+55	0.1339	0.13	O				
31+56	0.1333	0.13	O				
31+57	0.1328	0.13	O				
31+58	0.1322	0.12	O				
31+59	0.1316	0.12	O				
32+ 0	0.1311	0.12	O				
32+ 1	0.1305	0.12	O				
32+ 2	0.1299	0.12	O				
32+ 3	0.1294	0.12	O				
32+ 4	0.1288	0.12	O				
32+ 5	0.1283	0.12	O				
32+ 6	0.1277	0.12	O				
32+ 7	0.1272	0.12	O				
32+ 8	0.1267	0.12	O				
32+ 9	0.1261	0.12	O				
32+10	0.1256	0.12	O				
32+11	0.1251	0.12	O				
32+12	0.1245	0.12	O				
32+13	0.1240	0.12	O				
32+14	0.1235	0.12	O				
32+15	0.1229	0.12	O				
32+16	0.1224	0.12	O				
32+17	0.1219	0.12	O				
32+18	0.1214	0.11	O				
32+19	0.1209	0.11	O				
32+20	0.1203	0.11	O				
32+21	0.1198	0.11	O				
32+22	0.1193	0.11	O				
32+23	0.1188	0.11	O				
32+24	0.1183	0.11	O				
32+25	0.1178	0.11	O				
32+26	0.1173	0.11	O				
32+27	0.1168	0.11	O				
32+28	0.1163	0.11	O				
32+29	0.1158	0.11	O				
32+30	0.1153	0.11	O				
32+31	0.1148	0.11	O				
32+32	0.1143	0.11	O				
32+33	0.1138	0.11	O				
32+34	0.1134	0.11	O				
32+35	0.1129	0.11	O				
32+36	0.1124	0.11	O				
32+37	0.1119	0.11	O				
32+38	0.1114	0.11	O				
32+39	0.1110	0.10	O				
32+40	0.1105	0.10	O				
32+41	0.1100	0.10	O				
32+42	0.1096	0.10	O				
32+43	0.1091	0.10	O				
32+44	0.1086	0.10	O				
32+45	0.1082	0.10	O				
32+46	0.1077	0.10	O				
32+47	0.1072	0.10	O				

32+48	0.1068	0.10	O				
32+49	0.1063	0.10	O				
32+50	0.1059	0.10	O				
32+51	0.1054	0.10	O				
32+52	0.1050	0.10	O				
32+53	0.1045	0.10	O				
32+54	0.1041	0.10	O				
32+55	0.1036	0.10	O				
32+56	0.1032	0.10	O				
32+57	0.1028	0.10	O				
32+58	0.1023	0.10	O				
32+59	0.1019	0.10	O				
33+ 0	0.1015	0.10	O				
33+ 1	0.1010	0.10	O				
33+ 2	0.1006	0.10	O				
33+ 3	0.1002	0.09	O				
33+ 4	0.0997	0.09	O				
33+ 5	0.0993	0.09	O				
33+ 6	0.0989	0.09	O				
33+ 7	0.0985	0.09	O				
33+ 8	0.0980	0.09	O				
33+ 9	0.0976	0.09	O				
33+10	0.0972	0.09	O				
33+11	0.0968	0.09	O				
33+12	0.0964	0.09	O				
33+13	0.0960	0.09	O				
33+14	0.0956	0.09	O				
33+15	0.0952	0.09	O				
33+16	0.0948	0.09	O				
33+17	0.0944	0.09	O				
33+18	0.0940	0.09	O				
33+19	0.0935	0.09	O				
33+20	0.0932	0.09	O				
33+21	0.0928	0.09	O				
33+22	0.0924	0.09	O				
33+23	0.0920	0.09	O				
33+24	0.0916	0.09	O				
33+25	0.0912	0.09	O				
33+26	0.0908	0.09	O				
33+27	0.0904	0.09	O				
33+28	0.0900	0.09	O				
33+29	0.0896	0.08	O				
33+30	0.0893	0.08	O				
33+31	0.0889	0.08	O				
33+32	0.0885	0.08	O				
33+33	0.0881	0.08	O				
33+34	0.0877	0.08	O				
33+35	0.0874	0.08	O				
33+36	0.0870	0.08	O				
33+37	0.0866	0.08	O				
33+38	0.0863	0.08	O				
33+39	0.0859	0.08	O				
33+40	0.0855	0.08	O				
33+41	0.0852	0.08	O				
33+42	0.0848	0.08	O				
33+43	0.0844	0.08	O				
33+44	0.0841	0.08	O				
33+45	0.0837	0.08	O				
33+46	0.0834	0.08	O				
33+47	0.0830	0.08	O				
33+48	0.0827	0.08	O				
33+49	0.0823	0.08	O				
33+50	0.0820	0.08	O				
33+51	0.0816	0.08	O				
33+52	0.0813	0.08	O				
33+53	0.0809	0.08	O				
33+54	0.0806	0.08	O				
33+55	0.0802	0.08	O				
33+56	0.0799	0.08	O				
33+57	0.0795	0.08	O				
33+58	0.0792	0.07	O				

33+59	0.0789	0.07	0				
34+ 0	0.0785	0.07	0				
34+ 1	0.0782	0.07	0				
34+ 2	0.0779	0.07	0				
34+ 3	0.0775	0.07	0				
34+ 4	0.0772	0.07	0				
34+ 5	0.0769	0.07	0				
34+ 6	0.0765	0.07	0				
34+ 7	0.0762	0.07	0				
34+ 8	0.0759	0.07	0				
34+ 9	0.0756	0.07	0				
34+10	0.0753	0.07	0				
34+11	0.0749	0.07	0				
34+12	0.0746	0.07	0				
34+13	0.0743	0.07	0				
34+14	0.0740	0.07	0				
34+15	0.0737	0.07	0				
34+16	0.0733	0.07	0				
34+17	0.0730	0.07	0				
34+18	0.0727	0.07	0				
34+19	0.0724	0.07	0				
34+20	0.0721	0.07	0				
34+21	0.0718	0.07	0				
34+22	0.0715	0.07	0				
34+23	0.0712	0.07	0				
34+24	0.0709	0.07	0				
34+25	0.0706	0.07	0				
34+26	0.0703	0.07	0				
34+27	0.0700	0.07	0				
34+28	0.0697	0.07	0				
34+29	0.0694	0.07	0				
34+30	0.0691	0.07	0				
34+31	0.0688	0.06	0				
34+32	0.0685	0.06	0				
34+33	0.0682	0.06	0				
34+34	0.0679	0.06	0				
34+35	0.0676	0.06	0				
34+36	0.0673	0.06	0				
34+37	0.0671	0.06	0				
34+38	0.0668	0.06	0				
34+39	0.0665	0.06	0				
34+40	0.0662	0.06	0				
34+41	0.0659	0.06	0				
34+42	0.0656	0.06	0				
34+43	0.0654	0.06	0				
34+44	0.0651	0.06	0				
34+45	0.0648	0.06	0				
34+46	0.0645	0.06	0				
34+47	0.0643	0.06	0				
34+48	0.0640	0.06	0				
34+49	0.0637	0.06	0				
34+50	0.0634	0.06	0				
34+51	0.0632	0.06	0				
34+52	0.0629	0.06	0				
34+53	0.0626	0.06	0				
34+54	0.0624	0.06	0				
34+55	0.0621	0.06	0				
34+56	0.0618	0.06	0				
34+57	0.0616	0.06	0				
34+58	0.0613	0.06	0				
34+59	0.0610	0.06	0				
35+ 0	0.0608	0.06	0				
35+ 1	0.0605	0.06	0				
35+ 2	0.0603	0.06	0				
35+ 3	0.0600	0.06	0				
35+ 4	0.0598	0.06	0				
35+ 5	0.0595	0.06	0				
35+ 6	0.0593	0.06	0				
35+ 7	0.0590	0.06	0				
35+ 8	0.0587	0.06	0				
35+ 9	0.0585	0.06	0				

35+10	0.0582	0.06	0				
35+11	0.0580	0.05	0				
35+12	0.0578	0.05	0				
35+13	0.0575	0.05	0				
35+14	0.0573	0.05	0				
35+15	0.0570	0.05	0				
35+16	0.0568	0.05	0				
35+17	0.0565	0.05	0				
35+18	0.0563	0.05	0				
35+19	0.0561	0.05	0				
35+20	0.0558	0.05	0				
35+21	0.0556	0.05	0				
35+22	0.0553	0.05	0				
35+23	0.0551	0.05	0				
35+24	0.0549	0.05	0				
35+25	0.0546	0.05	0				
35+26	0.0544	0.05	0				
35+27	0.0542	0.05	0				
35+28	0.0539	0.05	0				
35+29	0.0537	0.05	0				
35+30	0.0535	0.05	0				
35+31	0.0533	0.05	0				
35+32	0.0530	0.05	0				
35+33	0.0528	0.05	0				
35+34	0.0526	0.05	0				
35+35	0.0524	0.05	0				
35+36	0.0521	0.05	0				
35+37	0.0519	0.05	0				
35+38	0.0517	0.05	0				
35+39	0.0515	0.05	0				
35+40	0.0512	0.05	0				
35+41	0.0510	0.05	0				
35+42	0.0508	0.05	0				
35+43	0.0506	0.05	0				
35+44	0.0504	0.05	0				
35+45	0.0502	0.05	0				
35+46	0.0500	0.05	0				
35+47	0.0497	0.05	0				
35+48	0.0495	0.05	0				
35+49	0.0493	0.05	0				
35+50	0.0491	0.05	0				
35+51	0.0489	0.05	0				
35+52	0.0487	0.05	0				
35+53	0.0485	0.05	0				
35+54	0.0483	0.05	0				
35+55	0.0481	0.05	0				
35+56	0.0479	0.05	0				
35+57	0.0477	0.05	0				
35+58	0.0475	0.04	0				
35+59	0.0473	0.04	0				
36+ 0	0.0471	0.04	0				
36+ 1	0.0469	0.04	0				
36+ 2	0.0467	0.04	0				
36+ 3	0.0465	0.04	0				
36+ 4	0.0463	0.04	0				
36+ 5	0.0461	0.04	0				
36+ 6	0.0459	0.04	0				
36+ 7	0.0457	0.04	0				
36+ 8	0.0455	0.04	0				
36+ 9	0.0453	0.04	0				
36+10	0.0451	0.04	0				
36+11	0.0449	0.04	0				
36+12	0.0447	0.04	0				
36+13	0.0445	0.04	0				
36+14	0.0443	0.04	0				
36+15	0.0441	0.04	0				
36+16	0.0439	0.04	0				
36+17	0.0438	0.04	0				
36+18	0.0436	0.04	0				
36+19	0.0434	0.04	0				
36+20	0.0432	0.04	0				

36+21	0.0430	0.04	0				
36+22	0.0428	0.04	0				
36+23	0.0427	0.04	0				
36+24	0.0425	0.04	0				
36+25	0.0423	0.04	0				
36+26	0.0421	0.04	0				
36+27	0.0419	0.04	0				
36+28	0.0418	0.04	0				
36+29	0.0416	0.04	0				
36+30	0.0414	0.04	0				
36+31	0.0412	0.04	0				
36+32	0.0410	0.04	0				
36+33	0.0409	0.04	0				
36+34	0.0407	0.04	0				
36+35	0.0405	0.04	0				
36+36	0.0404	0.04	0				
36+37	0.0402	0.04	0				
36+38	0.0400	0.04	0				
36+39	0.0398	0.04	0				
36+40	0.0397	0.04	0				
36+41	0.0395	0.04	0				
36+42	0.0393	0.04	0				
36+43	0.0392	0.04	0				
36+44	0.0390	0.04	0				
36+45	0.0388	0.04	0				
36+46	0.0387	0.04	0				
36+47	0.0385	0.04	0				
36+48	0.0383	0.04	0				
36+49	0.0382	0.04	0				
36+50	0.0380	0.04	0				
36+51	0.0379	0.04	0				
36+52	0.0377	0.04	0				
36+53	0.0375	0.04	0				
36+54	0.0374	0.04	0				
36+55	0.0372	0.04	0				
36+56	0.0371	0.04	0				
36+57	0.0369	0.03	0				
36+58	0.0367	0.03	0				
36+59	0.0366	0.03	0				
37+ 0	0.0364	0.03	0				
37+ 1	0.0363	0.03	0				
37+ 2	0.0361	0.03	0				
37+ 3	0.0360	0.03	0				
37+ 4	0.0358	0.03	0				
37+ 5	0.0357	0.03	0				
37+ 6	0.0355	0.03	0				
37+ 7	0.0354	0.03	0				
37+ 8	0.0352	0.03	0				
37+ 9	0.0351	0.03	0				
37+10	0.0349	0.03	0				
37+11	0.0348	0.03	0				
37+12	0.0346	0.03	0				
37+13	0.0345	0.03	0				
37+14	0.0343	0.03	0				
37+15	0.0342	0.03	0				
37+16	0.0340	0.03	0				
37+17	0.0339	0.03	0				
37+18	0.0337	0.03	0				
37+19	0.0336	0.03	0				
37+20	0.0334	0.03	0				
37+21	0.0333	0.03	0				
37+22	0.0332	0.03	0				
37+23	0.0330	0.03	0				
37+24	0.0329	0.03	0				
37+25	0.0327	0.03	0				
37+26	0.0326	0.03	0				
37+27	0.0325	0.03	0				
37+28	0.0323	0.03	0				
37+29	0.0322	0.03	0				
37+30	0.0320	0.03	0				
37+31	0.0319	0.03	0				

37+32	0.0318	0.03	0				
37+33	0.0316	0.03	0				
37+34	0.0315	0.03	0				
37+35	0.0314	0.03	0				
37+36	0.0312	0.03	0				
37+37	0.0311	0.03	0				
37+38	0.0310	0.03	0				
37+39	0.0308	0.03	0				
37+40	0.0307	0.03	0				
37+41	0.0306	0.03	0				
37+42	0.0304	0.03	0				
37+43	0.0303	0.03	0				
37+44	0.0302	0.03	0				
37+45	0.0301	0.03	0				
37+46	0.0299	0.03	0				
37+47	0.0298	0.03	0				
37+48	0.0297	0.03	0				
37+49	0.0296	0.03	0				
37+50	0.0294	0.03	0				
37+51	0.0293	0.03	0				
37+52	0.0292	0.03	0				
37+53	0.0291	0.03	0				
37+54	0.0289	0.03	0				
37+55	0.0288	0.03	0				
37+56	0.0287	0.03	0				
37+57	0.0286	0.03	0				
37+58	0.0284	0.03	0				
37+59	0.0283	0.03	0				
38+ 0	0.0282	0.03	0				
38+ 1	0.0281	0.03	0				
38+ 2	0.0280	0.03	0				
38+ 3	0.0278	0.03	0				
38+ 4	0.0277	0.03	0				
38+ 5	0.0276	0.03	0				
38+ 6	0.0275	0.03	0				
38+ 7	0.0274	0.03	0				
38+ 8	0.0272	0.03	0				
38+ 9	0.0271	0.03	0				
38+10	0.0270	0.03	0				
38+11	0.0269	0.03	0				
38+12	0.0268	0.03	0				
38+13	0.0267	0.03	0				
38+14	0.0266	0.03	0				
38+15	0.0264	0.02	0				
38+16	0.0263	0.02	0				
38+17	0.0262	0.02	0				
38+18	0.0261	0.02	0				
38+19	0.0260	0.02	0				
38+20	0.0259	0.02	0				
38+21	0.0258	0.02	0				
38+22	0.0257	0.02	0				
38+23	0.0256	0.02	0				
38+24	0.0255	0.02	0				
38+25	0.0253	0.02	0				
38+26	0.0252	0.02	0				
38+27	0.0251	0.02	0				
38+28	0.0250	0.02	0				
38+29	0.0249	0.02	0				
38+30	0.0248	0.02	0				
38+31	0.0247	0.02	0				
38+32	0.0246	0.02	0				
38+33	0.0245	0.02	0				
38+34	0.0244	0.02	0				
38+35	0.0243	0.02	0				
38+36	0.0242	0.02	0				
38+37	0.0241	0.02	0				
38+38	0.0240	0.02	0				
38+39	0.0239	0.02	0				
38+40	0.0238	0.02	0				
38+41	0.0237	0.02	0				
38+42	0.0236	0.02	0				

38+43	0.0235	0.02	0				
38+44	0.0234	0.02	0				
38+45	0.0233	0.02	0				
38+46	0.0232	0.02	0				
38+47	0.0231	0.02	0				
38+48	0.0230	0.02	0				
38+49	0.0229	0.02	0				
38+50	0.0228	0.02	0				
38+51	0.0227	0.02	0				
38+52	0.0226	0.02	0				
38+53	0.0225	0.02	0				
38+54	0.0224	0.02	0				
38+55	0.0223	0.02	0				
38+56	0.0222	0.02	0				
38+57	0.0221	0.02	0				
38+58	0.0220	0.02	0				
38+59	0.0219	0.02	0				
39+ 0	0.0218	0.02	0				
39+ 1	0.0217	0.02	0				
39+ 2	0.0216	0.02	0				
39+ 3	0.0215	0.02	0				
39+ 4	0.0215	0.02	0				
39+ 5	0.0214	0.02	0				
39+ 6	0.0213	0.02	0				
39+ 7	0.0212	0.02	0				
39+ 8	0.0211	0.02	0				
39+ 9	0.0210	0.02	0				
39+10	0.0209	0.02	0				
39+11	0.0208	0.02	0				
39+12	0.0207	0.02	0				
39+13	0.0206	0.02	0				
39+14	0.0206	0.02	0				
39+15	0.0205	0.02	0				
39+16	0.0204	0.02	0				
39+17	0.0203	0.02	0				
39+18	0.0202	0.02	0				
39+19	0.0201	0.02	0				
39+20	0.0200	0.02	0				
39+21	0.0200	0.02	0				
39+22	0.0199	0.02	0				
39+23	0.0198	0.02	0				
39+24	0.0197	0.02	0				
39+25	0.0196	0.02	0				
39+26	0.0195	0.02	0				
39+27	0.0195	0.02	0				
39+28	0.0194	0.02	0				
39+29	0.0193	0.02	0				
39+30	0.0192	0.02	0				
39+31	0.0191	0.02	0				
39+32	0.0190	0.02	0				
39+33	0.0190	0.02	0				
39+34	0.0189	0.02	0				
39+35	0.0188	0.02	0				
39+36	0.0187	0.02	0				
39+37	0.0186	0.02	0				
39+38	0.0186	0.02	0				
39+39	0.0185	0.02	0				
39+40	0.0184	0.02	0				
39+41	0.0183	0.02	0				
39+42	0.0182	0.02	0				
39+43	0.0182	0.02	0				
39+44	0.0181	0.02	0				
39+45	0.0180	0.02	0				
39+46	0.0179	0.02	0				
39+47	0.0179	0.02	0				
39+48	0.0178	0.02	0				
39+49	0.0177	0.02	0				
39+50	0.0176	0.02	0				
39+51	0.0176	0.02	0				
39+52	0.0175	0.02	0				
39+53	0.0174	0.02	0				

39+54	0.0173	0.02	o				
39+55	0.0173	0.02	o				
39+56	0.0172	0.02	o				
39+57	0.0171	0.02	o				
39+58	0.0170	0.02	o				
39+59	0.0170	0.02	o				
40+ 0	0.0169	0.02	o				
40+ 1	0.0168	0.02	o				
40+ 2	0.0168	0.02	o				
40+ 3	0.0167	0.02	o				
40+ 4	0.0166	0.02	o				
40+ 5	0.0165	0.02	o				
40+ 6	0.0165	0.02	o				
40+ 7	0.0164	0.02	o				
40+ 8	0.0163	0.02	o				
40+ 9	0.0163	0.02	o				
40+10	0.0162	0.02	o				
40+11	0.0161	0.02	o				
40+12	0.0161	0.02	o				
40+13	0.0160	0.02	o				
40+14	0.0159	0.02	o				
40+15	0.0158	0.01	o				
40+16	0.0158	0.01	o				
40+17	0.0157	0.01	o				
40+18	0.0156	0.01	o				
40+19	0.0156	0.01	o				
40+20	0.0155	0.01	o				
40+21	0.0154	0.01	o				
40+22	0.0154	0.01	o				
40+23	0.0153	0.01	o				
40+24	0.0152	0.01	o				
40+25	0.0152	0.01	o				
40+26	0.0151	0.01	o				
40+27	0.0151	0.01	o				
40+28	0.0150	0.01	o				
40+29	0.0149	0.01	o				
40+30	0.0149	0.01	o				
40+31	0.0148	0.01	o				
40+32	0.0147	0.01	o				
40+33	0.0147	0.01	o				
40+34	0.0146	0.01	o				
40+35	0.0146	0.01	o				
40+36	0.0145	0.01	o				
40+37	0.0144	0.01	o				
40+38	0.0144	0.01	o				
40+39	0.0143	0.01	o				
40+40	0.0142	0.01	o				
40+41	0.0142	0.01	o				
40+42	0.0141	0.01	o				
40+43	0.0141	0.01	o				
40+44	0.0140	0.01	o				
40+45	0.0139	0.01	o				
40+46	0.0139	0.01	o				
40+47	0.0138	0.01	o				
40+48	0.0138	0.01	o				
40+49	0.0137	0.01	o				
40+50	0.0136	0.01	o				
40+51	0.0136	0.01	o				
40+52	0.0135	0.01	o				
40+53	0.0135	0.01	o				
40+54	0.0134	0.01	o				
40+55	0.0134	0.01	o				
40+56	0.0133	0.01	o				
40+57	0.0132	0.01	o				
40+58	0.0132	0.01	o				
40+59	0.0131	0.01	o				
41+ 0	0.0131	0.01	o				
41+ 1	0.0130	0.01	o				
41+ 2	0.0130	0.01	o				
41+ 3	0.0129	0.01	o				
41+ 4	0.0129	0.01	o				

41+ 5	0.0128	0.01	o				
41+ 6	0.0127	0.01	o				
41+ 7	0.0127	0.01	o				
41+ 8	0.0126	0.01	o				
41+ 9	0.0126	0.01	o				
41+10	0.0125	0.01	o				
41+11	0.0125	0.01	o				
41+12	0.0124	0.01	o				
41+13	0.0124	0.01	o				
41+14	0.0123	0.01	o				
41+15	0.0123	0.01	o				
41+16	0.0122	0.01	o				
41+17	0.0122	0.01	o				
41+18	0.0121	0.01	o				
41+19	0.0121	0.01	o				
41+20	0.0120	0.01	o				
41+21	0.0120	0.01	o				
41+22	0.0119	0.01	o				
41+23	0.0119	0.01	o				
41+24	0.0118	0.01	o				
41+25	0.0118	0.01	o				
41+26	0.0117	0.01	o				
41+27	0.0117	0.01	o				
41+28	0.0116	0.01	o				
41+29	0.0116	0.01	o				
41+30	0.0115	0.01	o				
41+31	0.0115	0.01	o				
41+32	0.0114	0.01	o				
41+33	0.0114	0.01	o				
41+34	0.0113	0.01	o				
41+35	0.0113	0.01	o				
41+36	0.0112	0.01	o				
41+37	0.0112	0.01	o				
41+38	0.0111	0.01	o				
41+39	0.0111	0.01	o				
41+40	0.0110	0.01	o				
41+41	0.0110	0.01	o				
41+42	0.0109	0.01	o				
41+43	0.0109	0.01	o				
41+44	0.0108	0.01	o				
41+45	0.0108	0.01	o				
41+46	0.0107	0.01	o				
41+47	0.0107	0.01	o				
41+48	0.0107	0.01	o				
41+49	0.0106	0.01	o				
41+50	0.0106	0.01	o				
41+51	0.0105	0.01	o				
41+52	0.0105	0.01	o				
41+53	0.0104	0.01	o				
41+54	0.0104	0.01	o				
41+55	0.0103	0.01	o				
41+56	0.0103	0.01	o				
41+57	0.0103	0.01	o				
41+58	0.0102	0.01	o				
41+59	0.0102	0.01	o				
42+ 0	0.0101	0.01	o				
42+ 1	0.0101	0.01	o				
42+ 2	0.0100	0.01	o				
42+ 3	0.0100	0.01	o				
42+ 4	0.0100	0.01	o				
42+ 5	0.0099	0.01	o				
42+ 6	0.0099	0.01	o				
42+ 7	0.0098	0.01	o				
42+ 8	0.0098	0.01	o				
42+ 9	0.0097	0.01	o				
42+10	0.0097	0.01	o				
42+11	0.0097	0.01	o				
42+12	0.0096	0.01	o				
42+13	0.0096	0.01	o				
42+14	0.0095	0.01	o				
42+15	0.0095	0.01	o				

42+16	0.0095	0.01	o				
42+17	0.0094	0.01	o				
42+18	0.0094	0.01	o				
42+19	0.0093	0.01	o				
42+20	0.0093	0.01	o				
42+21	0.0093	0.01	o				
42+22	0.0092	0.01	o				
42+23	0.0092	0.01	o				
42+24	0.0091	0.01	o				
42+25	0.0091	0.01	o				
42+26	0.0091	0.01	o				
42+27	0.0090	0.01	o				
42+28	0.0090	0.01	o				
42+29	0.0089	0.01	o				
42+30	0.0089	0.01	o				
42+31	0.0089	0.01	o				
42+32	0.0088	0.01	o				
42+33	0.0088	0.01	o				
42+34	0.0088	0.01	o				
42+35	0.0087	0.01	o				
42+36	0.0087	0.01	o				
42+37	0.0086	0.01	o				
42+38	0.0086	0.01	o				
42+39	0.0086	0.01	o				
42+40	0.0085	0.01	o				
42+41	0.0085	0.01	o				
42+42	0.0085	0.01	o				
42+43	0.0084	0.01	o				
42+44	0.0084	0.01	o				
42+45	0.0084	0.01	o				
42+46	0.0083	0.01	o				
42+47	0.0083	0.01	o				
42+48	0.0082	0.01	o				
42+49	0.0082	0.01	o				
42+50	0.0082	0.01	o				
42+51	0.0081	0.01	o				
42+52	0.0081	0.01	o				
42+53	0.0081	0.01	o				
42+54	0.0080	0.01	o				
42+55	0.0080	0.01	o				
42+56	0.0080	0.01	o				
42+57	0.0079	0.01	o				
42+58	0.0079	0.01	o				
42+59	0.0079	0.01	o				
43+ 0	0.0078	0.01	o				
43+ 1	0.0078	0.01	o				
43+ 2	0.0078	0.01	o				
43+ 3	0.0077	0.01	o				
43+ 4	0.0077	0.01	o				
43+ 5	0.0077	0.01	o				
43+ 6	0.0076	0.01	o				
43+ 7	0.0076	0.01	o				
43+ 8	0.0076	0.01	o				
43+ 9	0.0075	0.01	o				
43+10	0.0075	0.01	o				
43+11	0.0075	0.01	o				
43+12	0.0074	0.01	o				
43+13	0.0074	0.01	o				
43+14	0.0074	0.01	o				
43+15	0.0074	0.01	o				
43+16	0.0073	0.01	o				
43+17	0.0073	0.01	o				
43+18	0.0073	0.01	o				
43+19	0.0072	0.01	o				
43+20	0.0072	0.01	o				
43+21	0.0072	0.01	o				
43+22	0.0071	0.01	o				
43+23	0.0071	0.01	o				
43+24	0.0071	0.01	o				
43+25	0.0070	0.01	o				
43+26	0.0070	0.01	o				

43+27	0.0070	0.01	0				
43+28	0.0070	0.01	0				
43+29	0.0069	0.01	0				
43+30	0.0069	0.01	0				
43+31	0.0069	0.01	0				
43+32	0.0068	0.01	0				
43+33	0.0068	0.01	0				
43+34	0.0068	0.01	0				
43+35	0.0067	0.01	0				
43+36	0.0067	0.01	0				
43+37	0.0067	0.01	0				
43+38	0.0067	0.01	0				
43+39	0.0066	0.01	0				
43+40	0.0066	0.01	0				
43+41	0.0066	0.01	0				
43+42	0.0066	0.01	0				
43+43	0.0065	0.01	0				
43+44	0.0065	0.01	0				
43+45	0.0065	0.01	0				
43+46	0.0064	0.01	0				
43+47	0.0064	0.01	0				
43+48	0.0064	0.01	0				
43+49	0.0064	0.01	0				
43+50	0.0063	0.01	0				
43+51	0.0063	0.01	0				
43+52	0.0063	0.01	0				
43+53	0.0062	0.01	0				
43+54	0.0062	0.01	0				
43+55	0.0062	0.01	0				
43+56	0.0062	0.01	0				
43+57	0.0061	0.01	0				
43+58	0.0061	0.01	0				
43+59	0.0061	0.01	0				
44+ 0	0.0061	0.01	0				
44+ 1	0.0060	0.01	0				
44+ 2	0.0060	0.01	0				
44+ 3	0.0060	0.01	0				
44+ 4	0.0060	0.01	0				
44+ 5	0.0059	0.01	0				
44+ 6	0.0059	0.01	0				
44+ 7	0.0059	0.01	0				
44+ 8	0.0059	0.01	0				
44+ 9	0.0058	0.01	0				
44+10	0.0058	0.01	0				
44+11	0.0058	0.01	0				
44+12	0.0058	0.01	0				
44+13	0.0057	0.01	0				
44+14	0.0057	0.01	0				
44+15	0.0057	0.01	0				
44+16	0.0057	0.01	0				
44+17	0.0056	0.01	0				
44+18	0.0056	0.01	0				
44+19	0.0056	0.01	0				
44+20	0.0056	0.01	0				
44+21	0.0055	0.01	0				
44+22	0.0055	0.01	0				
44+23	0.0055	0.01	0				
44+24	0.0055	0.01	0				
44+25	0.0055	0.01	0				
44+26	0.0054	0.01	0				
44+27	0.0054	0.01	0				
44+28	0.0054	0.01	0				
44+29	0.0054	0.01	0				
44+30	0.0053	0.01	0				
44+31	0.0053	0.01	0				
44+32	0.0053	0.00	0				
44+33	0.0053	0.00	0				
44+34	0.0052	0.00	0				
44+35	0.0052	0.00	0				
44+36	0.0052	0.00	0				
44+37	0.0052	0.00	0				

44+38	0.0052	0.00	0				
44+39	0.0051	0.00	0				
44+40	0.0051	0.00	0				
44+41	0.0051	0.00	0				
44+42	0.0051	0.00	0				
44+43	0.0050	0.00	0				
44+44	0.0050	0.00	0				
44+45	0.0050	0.00	0				
44+46	0.0050	0.00	0				
44+47	0.0050	0.00	0				
44+48	0.0049	0.00	0				
44+49	0.0049	0.00	0				
44+50	0.0049	0.00	0				
44+51	0.0049	0.00	0				
44+52	0.0049	0.00	0				
44+53	0.0048	0.00	0				
44+54	0.0048	0.00	0				
44+55	0.0048	0.00	0				
44+56	0.0048	0.00	0				
44+57	0.0048	0.00	0				
44+58	0.0047	0.00	0				
44+59	0.0047	0.00	0				
45+ 0	0.0047	0.00	0				
45+ 1	0.0047	0.00	0				
45+ 2	0.0047	0.00	0				
45+ 3	0.0046	0.00	0				
45+ 4	0.0046	0.00	0				
45+ 5	0.0046	0.00	0				
45+ 6	0.0046	0.00	0				
45+ 7	0.0046	0.00	0				
45+ 8	0.0045	0.00	0				
45+ 9	0.0045	0.00	0				
45+10	0.0045	0.00	0				
45+11	0.0045	0.00	0				
45+12	0.0045	0.00	0				
45+13	0.0044	0.00	0				
45+14	0.0044	0.00	0				
45+15	0.0044	0.00	0				
45+16	0.0044	0.00	0				
45+17	0.0044	0.00	0				
45+18	0.0043	0.00	0				
45+19	0.0043	0.00	0				
45+20	0.0043	0.00	0				
45+21	0.0043	0.00	0				
45+22	0.0043	0.00	0				
45+23	0.0043	0.00	0				
45+24	0.0042	0.00	0				
45+25	0.0042	0.00	0				
45+26	0.0042	0.00	0				
45+27	0.0042	0.00	0				
45+28	0.0042	0.00	0				
45+29	0.0041	0.00	0				
45+30	0.0041	0.00	0				
45+31	0.0041	0.00	0				
45+32	0.0041	0.00	0				
45+33	0.0041	0.00	0				
45+34	0.0041	0.00	0				
45+35	0.0040	0.00	0				
45+36	0.0040	0.00	0				
45+37	0.0040	0.00	0				
45+38	0.0040	0.00	0				
45+39	0.0040	0.00	0				
45+40	0.0040	0.00	0				
45+41	0.0039	0.00	0				
45+42	0.0039	0.00	0				
45+43	0.0039	0.00	0				
45+44	0.0039	0.00	0				
45+45	0.0039	0.00	0				
45+46	0.0039	0.00	0				
45+47	0.0038	0.00	0				
45+48	0.0038	0.00	0				

45+49	0.0038	0.00	0				
45+50	0.0038	0.00	0				
45+51	0.0038	0.00	0				
45+52	0.0038	0.00	0				
45+53	0.0037	0.00	0				
45+54	0.0037	0.00	0				
45+55	0.0037	0.00	0				
45+56	0.0037	0.00	0				
45+57	0.0037	0.00	0				
45+58	0.0037	0.00	0				
45+59	0.0037	0.00	0				
46+ 0	0.0036	0.00	0				
46+ 1	0.0036	0.00	0				
46+ 2	0.0036	0.00	0				
46+ 3	0.0036	0.00	0				
46+ 4	0.0036	0.00	0				
46+ 5	0.0036	0.00	0				
46+ 6	0.0035	0.00	0				
46+ 7	0.0035	0.00	0				
46+ 8	0.0035	0.00	0				
46+ 9	0.0035	0.00	0				
46+10	0.0035	0.00	0				
46+11	0.0035	0.00	0				
46+12	0.0035	0.00	0				
46+13	0.0034	0.00	0				
46+14	0.0034	0.00	0				
46+15	0.0034	0.00	0				
46+16	0.0034	0.00	0				
46+17	0.0034	0.00	0				
46+18	0.0034	0.00	0				
46+19	0.0034	0.00	0				
46+20	0.0033	0.00	0				
46+21	0.0033	0.00	0				
46+22	0.0033	0.00	0				
46+23	0.0033	0.00	0				
46+24	0.0033	0.00	0				
46+25	0.0033	0.00	0				
46+26	0.0033	0.00	0				
46+27	0.0032	0.00	0				
46+28	0.0032	0.00	0				
46+29	0.0032	0.00	0				
46+30	0.0032	0.00	0				
46+31	0.0032	0.00	0				
46+32	0.0032	0.00	0				
46+33	0.0032	0.00	0				
46+34	0.0031	0.00	0				
46+35	0.0031	0.00	0				
46+36	0.0031	0.00	0				
46+37	0.0031	0.00	0				
46+38	0.0031	0.00	0				
46+39	0.0031	0.00	0				
46+40	0.0031	0.00	0				
46+41	0.0031	0.00	0				
46+42	0.0030	0.00	0				
46+43	0.0030	0.00	0				
46+44	0.0030	0.00	0				
46+45	0.0030	0.00	0				
46+46	0.0030	0.00	0				
46+47	0.0030	0.00	0				
46+48	0.0030	0.00	0				
46+49	0.0029	0.00	0				
46+50	0.0029	0.00	0				
46+51	0.0029	0.00	0				
46+52	0.0029	0.00	0				
46+53	0.0029	0.00	0				
46+54	0.0029	0.00	0				
46+55	0.0029	0.00	0				
46+56	0.0029	0.00	0				
46+57	0.0028	0.00	0				
46+58	0.0028	0.00	0				
46+59	0.0028	0.00	0				

47+ 0	0.0028	0.00	O				
47+ 1	0.0028	0.00	O				
47+ 2	0.0028	0.00	O				
47+ 3	0.0028	0.00	O				
47+ 4	0.0028	0.00	O				
47+ 5	0.0028	0.00	O				
47+ 6	0.0027	0.00	O				
47+ 7	0.0027	0.00	O				
47+ 8	0.0027	0.00	O				
47+ 9	0.0027	0.00	O				
47+10	0.0027	0.00	O				
47+11	0.0027	0.00	O				
47+12	0.0027	0.00	O				
47+13	0.0027	0.00	O				
47+14	0.0027	0.00	O				
47+15	0.0026	0.00	O				
47+16	0.0026	0.00	O				
47+17	0.0026	0.00	O				
47+18	0.0026	0.00	O				
47+19	0.0026	0.00	O				
47+20	0.0026	0.00	O				
47+21	0.0026	0.00	O				
47+22	0.0026	0.00	O				
47+23	0.0026	0.00	O				
47+24	0.0025	0.00	O				
47+25	0.0025	0.00	O				
47+26	0.0025	0.00	O				
47+27	0.0025	0.00	O				
47+28	0.0025	0.00	O				
47+29	0.0025	0.00	O				
47+30	0.0025	0.00	O				
47+31	0.0025	0.00	O				
47+32	0.0025	0.00	O				
47+33	0.0024	0.00	O				
47+34	0.0024	0.00	O				
47+35	0.0024	0.00	O				
47+36	0.0024	0.00	O				
47+37	0.0024	0.00	O				
47+38	0.0024	0.00	O				
47+39	0.0024	0.00	O				
47+40	0.0024	0.00	O				
47+41	0.0024	0.00	O				
47+42	0.0024	0.00	O				
47+43	0.0023	0.00	O				
47+44	0.0023	0.00	O				
47+45	0.0023	0.00	O				
47+46	0.0020	0.00	O				
47+47	0.0000	0.00	O				

*****HYDROGRAPH DATA*****

Number of intervals = 2867
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 37.933 (CFS)
Total volume = 10.568 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

++++
Process from Point/Station 727.000 to Point/Station 727.000
**** ADD/COMBINE/RECOVER HYDROGRAPHS ****

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratbas6.rte

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P R I N T O F S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	14.0	27.9	41.9	55.8
0+ 1	0.1605	0.22	Q				
0+ 2	0.3209	0.45	Q				
0+ 3	0.4814	0.68	Q				
0+ 4	0.6418	0.91	Q				
0+ 5	0.8023	1.15	Q				
0+ 6	0.9627	1.39	Q				
0+ 7	0.9645	1.42	qQ				
0+ 8	0.9662	1.45	qQ				
0+ 9	0.9680	1.48	qQ				
0+10	0.9698	1.51	qQ				
0+11	0.9715	1.55	qQ				
0+12	0.9733	1.58	qQ				
0+13	0.9770	1.62	qQ				
0+14	0.9807	1.65	qQ				
0+15	0.9843	1.69	qQ				
0+16	0.9880	1.73	qQ				
0+17	0.9917	1.76	qQ				
0+18	0.9954	1.80	qQ				
0+19	0.9973	1.83	qQ				
0+20	0.9992	1.87	qQ				
0+21	1.0012	1.90	lQ				
0+22	1.0031	1.93	lQ				
0+23	1.0050	1.97	lQ				
0+24	1.0069	2.00	lQ				
0+25	1.0109	2.04	lQ				
0+26	1.0150	2.07	lQ				
0+27	1.0190	2.11	lQ				
0+28	1.0230	2.15	lQ				
0+29	1.0270	2.18	lQ				
0+30	1.0310	2.22	lQ				
0+31	1.0331	2.25	lQ				
0+32	1.0353	2.29	lQ				
0+33	1.0374	2.32	lQ				
0+34	1.0395	2.35	lQ				
0+35	1.0416	2.39	lQ				
0+36	1.0437	2.42	lQ				
0+37	1.0481	2.46	lQ				
0+38	1.0525	2.49	lQ				
0+39	1.0569	2.53	lQ				
0+40	1.0613	2.57	lQ				
0+41	1.0657	2.60	lQ				
0+42	1.0701	2.64	lQ				
0+43	1.0725	2.68	lQ				
0+44	1.0748	2.71	lQ				
0+45	1.0771	2.74	lQ				
0+46	1.0794	2.78	lQ				
0+47	1.0817	2.81	lqQ				
0+48	1.0840	2.84	lqQ				
0+49	1.0889	2.88	lqQ				
0+50	1.0938	2.92	lqQ				
0+51	1.0987	2.95	lqQ				
0+52	1.1035	2.99	lqQ				
0+53	1.1084	3.03	lqQ				
0+54	1.1133	3.06	lqQ				
0+55	1.1158	3.10	lqQ				
0+56	1.1184	3.13	lqQ				
0+57	1.1210	3.17	lqQ				
0+58	1.1235	3.20	lqQ				
0+59	1.1261	3.23	lqQ				
1+ 0	1.1287	3.27	lqQ				
1+ 1	1.1341	3.31	lqQ				
1+ 2	1.1395	3.34	lqQ				
1+ 3	1.1449	3.38	lqQ				

1+ 4	1.1503	3.42	qQ					
1+ 5	1.1557	3.46	qQ					
1+ 6	1.1611	3.49	qQ					
1+ 7	1.1640	3.53	qQ					
1+ 8	1.1668	3.56	qQ					
1+ 9	1.1697	3.60	qQ					
1+10	1.1725	3.63	qQ					
1+11	1.1754	3.67	qQ					
1+12	1.1783	3.70	qQ					
1+13	1.1843	3.74	qQ					
1+14	1.1904	3.78	qQ					
1+15	1.1964	3.82	qQ					
1+16	1.2025	3.86	qQ					
1+17	1.2085	3.89	qQ					
1+18	1.2146	3.91	qQ					
1+19	1.2178	3.92	qQ					
1+20	1.2210	3.93	qQ					
1+21	1.2242	3.95	qQ					
1+22	1.2274	3.96	qQ					
1+23	1.2306	3.98	qQ					
1+24	1.2338	3.99	qQ					
1+25	1.2407	4.01	qQ					
1+26	1.2475	4.03	qQ					
1+27	1.2543	4.05	qQ					
1+28	1.2612	4.07	qQ					
1+29	1.2680	4.09	qQ					
1+30	1.2748	4.10	qQ					
1+31	1.2785	4.12	qQ					
1+32	1.2821	4.13	qQ					
1+33	1.2857	4.15	qQ					
1+34	1.2894	4.16	qQ					
1+35	1.2930	4.18	qQ					
1+36	1.2966	4.19	q Q					
1+37	1.3044	4.21	q Q					
1+38	1.3122	4.24	q Q					
1+39	1.3200	4.26	q Q					
1+40	1.3278	4.28	q Q					
1+41	1.3355	4.30	q Q					
1+42	1.3433	4.32	q Q					
1+43	1.3475	4.34	q Q					
1+44	1.3516	4.35	q Q					
1+45	1.3558	4.37	q Q					
1+46	1.3600	4.38	q Q					
1+47	1.3641	4.40	q Q					
1+48	1.3683	4.42	q Q					
1+49	1.3773	4.44	q Q					
1+50	1.3862	4.46	q Q					
1+51	1.3952	4.49	q Q					
1+52	1.4041	4.51	q Q					
1+53	1.4131	4.53	q Q					
1+54	1.4220	4.55	q Q					
1+55	1.4269	4.57	q Q					
1+56	1.4317	4.59	q Q					
1+57	1.4365	4.61	q Q					
1+58	1.4413	4.63	q Q					
1+59	1.4462	4.64	q Q					
2+ 0	1.4510	4.66	q Q					
2+ 1	1.4615	4.69	q Q					
2+ 2	1.4719	4.71	q Q					
2+ 3	1.4824	4.74	q Q					
2+ 4	1.4928	4.76	q Q					
2+ 5	1.5033	4.79	q Q					
2+ 6	1.5137	4.82	q Q					
2+ 7	1.5194	4.84	q Q					
2+ 8	1.5251	4.86	q Q					
2+ 9	1.5307	4.88	q Q					
2+10	1.5364	4.89	q Q					
2+11	1.5421	4.91	q Q					
2+12	1.5478	4.93	q Q					
2+13	1.5602	4.96	q Q					
2+14	1.5726	4.99	q Q					

2+15	1.5850	5.02	q Q				
2+16	1.5974	5.05	q Q				
2+17	1.6098	5.08	q Q				
2+18	1.6222	5.11	q Q				
2+19	1.6289	5.13	q Q				
2+20	1.6357	5.16	q Q				
2+21	1.6425	5.18	q Q				
2+22	1.6493	5.20	q Q				
2+23	1.6561	5.22	q Q				
2+24	1.6629	5.24	q Q				
2+25	1.6779	5.28	q Q				
2+26	1.6929	5.31	q Q				
2+27	1.7079	5.34	q Q				
2+28	1.7229	5.38	q Q				
2+29	1.7379	5.41	q Q				
2+30	1.7529	5.45	q Q				
2+31	1.7612	5.47	q Q				
2+32	1.7695	5.50	q Q				
2+33	1.7778	5.52	q Q				
2+34	1.7861	5.55	q Q				
2+35	1.7945	5.57	q Q				
2+36	1.8028	5.60	q Q				
2+37	1.8214	5.64	q Q				
2+38	1.8400	5.68	q Q				
2+39	1.8586	5.72	q Q				
2+40	1.8772	5.76	q Q				
2+41	1.8958	5.80	q Q				
2+42	1.9144	5.84	q Q				
2+43	1.9248	5.87	q Q				
2+44	1.9353	5.90	q Q				
2+45	1.9457	5.93	q Q				
2+46	1.9562	5.96	q Q				
2+47	1.9667	5.99	q Q				
2+48	1.9771	6.02	q Q				
2+49	2.0010	6.07	q Q				
2+50	2.0248	6.12	q Q				
2+51	2.0486	6.17	q Q				
2+52	2.0725	6.22	q Q				
2+53	2.0963	6.27	q Q				
2+54	2.1201	6.32	q Q				
2+55	2.1338	6.35	q Q				
2+56	2.1475	6.39	q Q				
2+57	2.1612	6.42	q Q				
2+58	2.1748	6.46	q Q				
2+59	2.1885	6.49	q Q				
3+ 0	2.2022	6.52	q Q				
3+ 1	2.2341	6.58	q Q				
3+ 2	2.2660	6.64	q Q				
3+ 3	2.2979	6.70	q Q				
3+ 4	2.3299	6.76	q Q				
3+ 5	2.3618	6.82	q Q				
3+ 6	2.3937	6.89	q Q				
3+ 7	2.4125	6.93	q Q				
3+ 8	2.4314	6.97	q Q				
3+ 9	2.4502	7.01	q Q				
3+10	2.4690	7.06	q Q				
3+11	2.4878	7.10	q Q				
3+12	2.5067	7.14	q Q				
3+13	2.5522	7.22	q Q				
3+14	2.5978	7.31	q Q				
3+15	2.6434	7.39	q Q				
3+16	2.6889	7.47	q Q				
3+17	2.7345	7.55	q Q				
3+18	2.7801	7.63	q Q				
3+19	2.8081	7.69	q Q				
3+20	2.8361	7.75	q Q				
3+21	2.8642	7.81	q Q				
3+22	2.8922	7.87	q Q				
3+23	2.9202	7.93	q Q				
3+24	2.9483	7.99	q Q				
3+25	3.0201	8.11	q Q				

3+26	3.0920	8.23	q Q					
3+27	3.1639	8.36	q Q					
3+28	3.2357	8.48	q Q					
3+29	3.3076	8.60	q Q					
3+30	3.3795	8.72	q Q					
3+31	3.4269	8.81	q Q					
3+32	3.4744	8.90	q Q					
3+33	3.5219	8.99	q Q					
3+34	3.5693	9.09	q Q					
3+35	3.6168	9.18	q Q					
3+36	3.6643	9.27	q Q					
3+37	3.8000	9.49	q Q					
3+38	3.9358	9.71	q Q					
3+39	4.0715	9.92	q Q					
3+40	4.2073	10.14	q Q					
3+41	4.3430	10.36	q Q					
3+42	4.4788	10.58	q Q					
3+43	4.5826	10.76	q Q					
3+44	4.6863	10.93	q Q					
3+45	4.7901	11.10	q Q					
3+46	4.8939	11.27	q Q					
3+47	4.9976	11.45	q Q					
3+48	5.1014	11.62	q Q					
3+49	5.4996	12.20	q Q					
3+50	5.8978	12.79	q Q					
3+51	6.2959	13.38	q Q					
3+52	6.6941	13.97	q Q					
3+53	7.0923	14.56	q Q					
3+54	7.4905	15.16	q Q					
3+55	8.0010	15.91	q Q					
3+56	8.5116	16.66	q Q					
3+57	9.0222	17.42	q Q					
3+58	9.5327	18.18	q Q					
3+59	10.0433	18.94	q Q					
4+ 0	10.5539	19.70	q Q					
4+ 1	14.5028	25.27	q Q					
4+ 2	18.4517	30.89	q Q					
4+ 3	22.4006	36.86	q Q					
4+ 4	26.3495	43.06	q Q					
4+ 5	30.2984	49.38	q Q					
4+ 6	34.2473	55.84	q Q					
4+ 7	29.5407	50.47	q Q					
4+ 8	24.8341	46.16	q Q					
4+ 9	20.1275	42.46	q Q					
4+10	15.4210	39.56	q Q					
4+11	10.7144	37.35	q Q					
4+12	6.0078	34.69	q Q					
4+13	5.6764	38.34	q Q					
4+14	5.3451	41.14	q Q					
4+15	5.0137	42.99	q Q					
4+16	4.6823	43.90	q Q					
4+17	4.3510	43.95	q Q					
4+18	4.0196	43.54	q Q					
4+19	3.8739	43.30	q Q					
4+20	3.7281	43.00	q Q					
4+21	3.5824	42.65	q Q					
4+22	3.4366	42.26	q Q					
4+23	3.2909	41.81	q Q					
4+24	3.1451	41.33	q Q					
4+25	3.0600	40.88	q Q					
4+26	2.9749	40.41	q Q					
4+27	2.8897	39.93	q Q					
4+28	2.8046	39.43	q Q					
4+29	2.7195	38.92	q Q					
4+30	2.6344	38.41	q Q					
4+31	2.5774	37.92	q Q					
4+32	2.5205	37.42	q Q					
4+33	2.4636	36.92	q Q					
4+34	2.4067	36.41	q Q					
4+35	2.3498	35.90	q Q					
4+36	2.2928	35.39	q Q					

4+37	2.2516	34.90	q			Q	
4+38	2.2104	34.41	q			Q	
4+39	2.1691	33.92	q			Q	
4+40	2.1279	33.44	q			Q	
4+41	2.0867	32.95	q			Q	
4+42	2.0454	32.47	q			Q	
4+43	2.0139	32.01	q			Q	
4+44	1.9824	31.55	q			Q	
4+45	1.9509	31.09	q			Q	
4+46	1.9194	30.64	q			Q	
4+47	1.8879	30.19	q			Q	
4+48	1.8564	29.75	q			Q	
4+49	1.8314	29.32	q			Q	
4+50	1.8064	28.91	q			Q	
4+51	1.7814	28.57	q			Q	
4+52	1.7564	28.26	q			Q	
4+53	1.7314	27.95	q			Q	
4+54	1.7064	27.65	q			Q	
4+55	1.6860	27.35	q			Q	
4+56	1.6655	27.05	q			Q	
4+57	1.6451	26.76	q			Q	
4+58	1.6247	26.47	q			Q	
4+59	1.6043	26.18	q			Q	
5+ 0	1.5839	25.89	q			Q	
5+ 1	1.5668	25.61	q			Q	
5+ 2	1.5497	25.34	q			Q	
5+ 3	1.5327	25.06	q			Q	
5+ 4	1.5156	24.79	q			Q	
5+ 5	1.4986	24.52	q			Q	
5+ 6	1.4815	24.25	q			Q	
5+ 7	1.4670	23.99	q			Q	
5+ 8	1.4525	23.73	q			Q	
5+ 9	1.4380	23.48	q			Q	
5+10	1.4235	23.22	q			Q	
5+11	1.4090	22.97	q			Q	
5+12	1.3945	22.72	q			Q	
5+13	1.3820	22.48	q			Q	
5+14	1.3695	22.24	q			Q	
5+15	1.3570	22.00	q			Q	
5+16	1.3445	21.77	q			Q	
5+17	1.3320	21.54	q			Q	
5+18	1.3195	21.31	q			Q	
5+19	1.3085	21.09	q			Q	
5+20	1.2976	20.86	q			Q	
5+21	1.2867	20.64	q			Q	
5+22	1.2758	20.43	q			Q	
5+23	1.2648	20.21	q			Q	
5+24	1.2539	20.00	q			Q	
5+25	1.2443	19.80	q			Q	
5+26	1.2346	19.59	q			Q	
5+27	1.2250	19.39	q			Q	
5+28	1.2154	19.19	q			Q	
5+29	1.2057	19.00	q			Q	
5+30	1.1961	18.80	q			Q	
5+31	1.1875	18.61	q			Q	
5+32	1.1789	18.42	q			Q	
5+33	1.1703	18.24	q			Q	
5+34	1.1618	18.06	q			Q	
5+35	1.1532	17.88	q			Q	
5+36	1.1446	17.70	q			Q	
5+37	1.1369	17.56	q			Q	
5+38	1.1292	17.46	q			Q	
5+39	1.1215	17.36	q			Q	
5+40	1.1138	17.26	q			Q	
5+41	1.1061	17.17	q			Q	
5+42	1.0984	17.07	q			Q	
5+43	1.0915	16.98	q			Q	
5+44	1.0845	16.88	q			Q	
5+45	1.0776	16.79	q			Q	
5+46	1.0706	16.70	q			Q	
5+47	1.0636	16.60	q			Q	

5+48	1.0567	16.51	q	Q			
5+49	1.0504	16.42	q	Q			
5+50	1.0441	16.33	q	Q			
5+51	1.0377	16.24	q	Q			
5+52	1.0314	16.15	q	Q			
5+53	1.0251	16.06	q	Q			
5+54	1.0188	15.97	q	Q			
5+55	1.0130	15.88	q	Q			
5+56	1.0073	15.79	q	Q			
5+57	1.0015	15.71	q	Q			
5+58	0.9957	15.62	q	Q			
5+59	0.9900	15.53	q	Q			
6+ 0	0.9842	15.45	q	Q			
6+ 1	0.9789	15.36	q	Q			
6+ 2	0.9736	15.28	q	Q			
6+ 3	0.9683	15.19	q	Q			
6+ 4	0.9630	15.11	q	Q			
6+ 5	0.9577	15.02	q	Q			
6+ 6	0.9524	14.94	q	Q			
6+ 7	0.0000	13.54	q	Q			
6+ 8	0.0000	13.46	q	Q			
6+ 9	0.0000	13.38	q	Q			
6+10	0.0000	13.26	q	Q			
6+11	0.0000	13.10	q	Q			
6+12	0.0000	12.94	q	Q			
6+13	0.0000	12.78	q	Q			
6+14	0.0000	12.62	q	Q			
6+15	0.0000	12.46	q	Q			
6+16	0.0000	12.31	q	Q			
6+17	0.0000	12.16	q	Q			
6+18	0.0000	12.01	q	Q			
6+19	0.0000	11.86	q	Q			
6+20	0.0000	11.71	q	Q			
6+21	0.0000	11.56	q	Q			
6+22	0.0000	11.42	q	Q			
6+23	0.0000	11.28	q	Q			
6+24	0.0000	11.14	q	Q			
6+25	0.0000	11.00	q	Q			
6+26	0.0000	10.87	q	Q			
6+27	0.0000	10.73	q	Q			
6+28	0.0000	10.60	q	Q			
6+29	0.0000	10.47	q	Q			
6+30	0.0000	10.34	q	Q			
6+31	0.0000	10.21	q	Q			
6+32	0.0000	10.08	q	Q			
6+33	0.0000	9.96	q	Q			
6+34	0.0000	9.83	q	Q			
6+35	0.0000	9.71	q	Q			
6+36	0.0000	9.59	q	Q			
6+37	0.0000	9.47	q	Q			
6+38	0.0000	9.36	q	Q			
6+39	0.0000	9.28	q	Q			
6+40	0.0000	9.22	q	Q			
6+41	0.0000	9.17	q	Q			
6+42	0.0000	9.11	q	Q			
6+43	0.0000	9.06	q	Q			
6+44	0.0000	9.01	q	Q			
6+45	0.0000	8.96	q	Q			
6+46	0.0000	8.91	q	Q			
6+47	0.0000	8.86	q	Q			
6+48	0.0000	8.81	q	Q			
6+49	0.0000	8.76	q	Q			
6+50	0.0000	8.71	q	Q			
6+51	0.0000	8.66	q	Q			
6+52	0.0000	8.61	q	Q			
6+53	0.0000	8.56	q	Q			
6+54	0.0000	8.51	q	Q			
6+55	0.0000	8.46	q	Q			
6+56	0.0000	8.41	q	Q			
6+57	0.0000	8.36	q	Q			
6+58	0.0000	8.32	q	Q			

6+59	0.0000	8.27	q	Q				
7+ 0	0.0000	8.22	q	Q				
7+ 1	0.0000	8.17	q	Q				
7+ 2	0.0000	8.13	q	Q				
7+ 3	0.0000	8.08	q	Q				
7+ 4	0.0000	8.03	q	Q				
7+ 5	0.0000	7.99	q	Q				
7+ 6	0.0000	7.94	q	Q				
7+ 7	0.0000	7.90	q	Q				
7+ 8	0.0000	7.85	q	Q				
7+ 9	0.0000	7.81	q	Q				
7+10	0.0000	7.76	q	Q				
7+11	0.0000	7.72	q	Q				
7+12	0.0000	7.67	q	Q				
7+13	0.0000	7.63	q	Q				
7+14	0.0000	7.59	q	Q				
7+15	0.0000	7.54	q	Q				
7+16	0.0000	7.50	q	Q				
7+17	0.0000	7.46	q	Q				
7+18	0.0000	7.42	q	Q				
7+19	0.0000	7.37	q	Q				
7+20	0.0000	7.33	q	Q				
7+21	0.0000	7.29	q	Q				
7+22	0.0000	7.25	q	Q				
7+23	0.0000	7.21	q	Q				
7+24	0.0000	7.17	q	Q				
7+25	0.0000	7.12	q	Q				
7+26	0.0000	7.08	q	Q				
7+27	0.0000	7.04	q	Q				
7+28	0.0000	7.00	q	Q				
7+29	0.0000	6.96	q	Q				
7+30	0.0000	6.92	q	Q				
7+31	0.0000	6.88	q	Q				
7+32	0.0000	6.84	q	Q				
7+33	0.0000	6.81	q	Q				
7+34	0.0000	6.77	q	Q				
7+35	0.0000	6.73	q	Q				
7+36	0.0000	6.69	q	Q				
7+37	0.0000	6.65	q	Q				
7+38	0.0000	6.61	q	Q				
7+39	0.0000	6.58	q	Q				
7+40	0.0000	6.54	q	Q				
7+41	0.0000	6.50	q	Q				
7+42	0.0000	6.46	q	Q				
7+43	0.0000	6.43	q	Q				
7+44	0.0000	6.39	q	Q				
7+45	0.0000	6.35	q	Q				
7+46	0.0000	6.32	q	Q				
7+47	0.0000	6.28	q	Q				
7+48	0.0000	6.24	q	Q				
7+49	0.0000	6.21	q	Q				
7+50	0.0000	6.17	q	Q				
7+51	0.0000	6.14	q	Q				
7+52	0.0000	6.10	q	Q				
7+53	0.0000	6.07	q	Q				
7+54	0.0000	6.03	q	Q				
7+55	0.0000	6.00	q	Q				
7+56	0.0000	5.97	q	Q				
7+57	0.0000	5.93	q	Q				
7+58	0.0000	5.90	q	Q				
7+59	0.0000	5.86	q	Q				
8+ 0	0.0000	5.83	q	Q				
8+ 1	0.0000	5.80	q	Q				
8+ 2	0.0000	5.76	q	Q				
8+ 3	0.0000	5.73	q	Q				
8+ 4	0.0000	5.70	q	Q				
8+ 5	0.0000	5.67	q	Q				
8+ 6	0.0000	5.63	q	Q				
8+ 7	0.0000	5.60	q	Q				
8+ 8	0.0000	5.57	q	Q				
8+ 9	0.0000	5.54	q	Q				

8+10	0.0000	5.51	q	Q				
8+11	0.0000	5.47	q	Q				
8+12	0.0000	5.44	q	Q				
8+13	0.0000	5.41	q	Q				
8+14	0.0000	5.38	q	Q				
8+15	0.0000	5.35	q	Q				
8+16	0.0000	5.32	q	Q				
8+17	0.0000	5.29	q	Q				
8+18	0.0000	5.26	q	Q				
8+19	0.0000	5.23	q	Q				
8+20	0.0000	5.20	q	Q				
8+21	0.0000	5.17	q	Q				
8+22	0.0000	5.14	q	Q				
8+23	0.0000	5.11	q	Q				
8+24	0.0000	5.10	q	Q				
8+25	0.0000	5.09	q	Q				
8+26	0.0000	5.09	q	Q				
8+27	0.0000	5.08	q	Q				
8+28	0.0000	5.08	q	Q				
8+29	0.0000	5.08	q	Q				
8+30	0.0000	5.07	q	Q				
8+31	0.0000	5.07	q	Q				
8+32	0.0000	5.06	q	Q				
8+33	0.0000	5.06	q	Q				
8+34	0.0000	5.05	q	Q				
8+35	0.0000	5.05	q	Q				
8+36	0.0000	5.05	q	Q				
8+37	0.0000	5.04	q	Q				
8+38	0.0000	5.04	q	Q				
8+39	0.0000	5.03	q	Q				
8+40	0.0000	5.03	q	Q				
8+41	0.0000	5.03	q	Q				
8+42	0.0000	5.02	q	Q				
8+43	0.0000	5.02	q	Q				
8+44	0.0000	5.01	q	Q				
8+45	0.0000	5.01	q	Q				
8+46	0.0000	5.00	q	Q				
8+47	0.0000	5.00	q	Q				
8+48	0.0000	5.00	q	Q				
8+49	0.0000	4.99	q	Q				
8+50	0.0000	4.99	q	Q				
8+51	0.0000	4.98	q	Q				
8+52	0.0000	4.98	q	Q				
8+53	0.0000	4.97	q	Q				
8+54	0.0000	4.97	q	Q				
8+55	0.0000	4.97	q	Q				
8+56	0.0000	4.96	q	Q				
8+57	0.0000	4.96	q	Q				
8+58	0.0000	4.95	q	Q				
8+59	0.0000	4.95	q	Q				
9+ 0	0.0000	4.95	q	Q				
9+ 1	0.0000	4.94	q	Q				
9+ 2	0.0000	4.94	q	Q				
9+ 3	0.0000	4.93	q	Q				
9+ 4	0.0000	4.93	q	Q				
9+ 5	0.0000	4.93	q	Q				
9+ 6	0.0000	4.92	q	Q				
9+ 7	0.0000	4.92	q	Q				
9+ 8	0.0000	4.91	q	Q				
9+ 9	0.0000	4.91	q	Q				
9+10	0.0000	4.90	q	Q				
9+11	0.0000	4.90	q	Q				
9+12	0.0000	4.90	q	Q				
9+13	0.0000	4.89	q	Q				
9+14	0.0000	4.89	q	Q				
9+15	0.0000	4.88	q	Q				
9+16	0.0000	4.88	q	Q				
9+17	0.0000	4.88	q	Q				
9+18	0.0000	4.87	q	Q				
9+19	0.0000	4.87	q	Q				
9+20	0.0000	4.86	q	Q				

9+21	0.0000	4.86	q	Q				
9+22	0.0000	4.86	q	Q				
9+23	0.0000	4.85	q	Q				
9+24	0.0000	4.85	q	Q				
9+25	0.0000	4.84	q	Q				
9+26	0.0000	4.84	q	Q				
9+27	0.0000	4.83	q	Q				
9+28	0.0000	4.83	q	Q				
9+29	0.0000	4.83	q	Q				
9+30	0.0000	4.82	q	Q				
9+31	0.0000	4.82	q	Q				
9+32	0.0000	4.81	q	Q				
9+33	0.0000	4.81	q	Q				
9+34	0.0000	4.81	q	Q				
9+35	0.0000	4.80	q	Q				
9+36	0.0000	4.80	q	Q				
9+37	0.0000	4.79	q	Q				
9+38	0.0000	4.79	q	Q				
9+39	0.0000	4.79	q	Q				
9+40	0.0000	4.78	q	Q				
9+41	0.0000	4.78	q	Q				
9+42	0.0000	4.77	q	Q				
9+43	0.0000	4.77	q	Q				
9+44	0.0000	4.77	q	Q				
9+45	0.0000	4.76	q	Q				
9+46	0.0000	4.76	q	Q				
9+47	0.0000	4.75	q	Q				
9+48	0.0000	4.75	q	Q				
9+49	0.0000	4.75	q	Q				
9+50	0.0000	4.74	q	Q				
9+51	0.0000	4.74	q	Q				
9+52	0.0000	4.73	q	Q				
9+53	0.0000	4.73	q	Q				
9+54	0.0000	4.73	q	Q				
9+55	0.0000	4.72	q	Q				
9+56	0.0000	4.72	q	Q				
9+57	0.0000	4.71	q	Q				
9+58	0.0000	4.71	q	Q				
9+59	0.0000	4.71	q	Q				
10+ 0	0.0000	4.70	q	Q				
10+ 1	0.0000	4.70	q	Q				
10+ 2	0.0000	4.70	q	Q				
10+ 3	0.0000	4.69	q	Q				
10+ 4	0.0000	4.69	q	Q				
10+ 5	0.0000	4.68	q	Q				
10+ 6	0.0000	4.68	q	Q				
10+ 7	0.0000	4.68	q	Q				
10+ 8	0.0000	4.67	q	Q				
10+ 9	0.0000	4.67	q	Q				
10+10	0.0000	4.66	q	Q				
10+11	0.0000	4.66	q	Q				
10+12	0.0000	4.66	q	Q				
10+13	0.0000	4.65	q	Q				
10+14	0.0000	4.65	q	Q				
10+15	0.0000	4.64	q	Q				
10+16	0.0000	4.64	q	Q				
10+17	0.0000	4.64	q	Q				
10+18	0.0000	4.63	q	Q				
10+19	0.0000	4.63	q	Q				
10+20	0.0000	4.62	q	Q				
10+21	0.0000	4.62	q	Q				
10+22	0.0000	4.62	q	Q				
10+23	0.0000	4.61	q	Q				
10+24	0.0000	4.61	q	Q				
10+25	0.0000	4.61	q	Q				
10+26	0.0000	4.60	q	Q				
10+27	0.0000	4.60	q	Q				
10+28	0.0000	4.59	q	Q				
10+29	0.0000	4.59	q	Q				
10+30	0.0000	4.59	q	Q				
10+31	0.0000	4.58	q	Q				

10+32	0.0000	4.58	q	Q				
10+33	0.0000	4.57	q	Q				
10+34	0.0000	4.57	q	Q				
10+35	0.0000	4.57	q	Q				
10+36	0.0000	4.56	q	Q				
10+37	0.0000	4.56	q	Q				
10+38	0.0000	4.56	q	Q				
10+39	0.0000	4.55	q	Q				
10+40	0.0000	4.55	q	Q				
10+41	0.0000	4.54	q	Q				
10+42	0.0000	4.54	q	Q				
10+43	0.0000	4.54	q	Q				
10+44	0.0000	4.53	q	Q				
10+45	0.0000	4.53	q	Q				
10+46	0.0000	4.53	q	Q				
10+47	0.0000	4.52	q	Q				
10+48	0.0000	4.52	q	Q				
10+49	0.0000	4.51	q	Q				
10+50	0.0000	4.51	q	Q				
10+51	0.0000	4.51	q	Q				
10+52	0.0000	4.50	q	Q				
10+53	0.0000	4.50	q	Q				
10+54	0.0000	4.49	q	Q				
10+55	0.0000	4.49	q	Q				
10+56	0.0000	4.49	q	Q				
10+57	0.0000	4.48	q	Q				
10+58	0.0000	4.48	q	Q				
10+59	0.0000	4.48	q	Q				
11+ 0	0.0000	4.47	q	Q				
11+ 1	0.0000	4.47	q	Q				
11+ 2	0.0000	4.46	q	Q				
11+ 3	0.0000	4.46	q	Q				
11+ 4	0.0000	4.46	q	Q				
11+ 5	0.0000	4.45	q	Q				
11+ 6	0.0000	4.45	q	Q				
11+ 7	0.0000	4.45	q	Q				
11+ 8	0.0000	4.44	q	Q				
11+ 9	0.0000	4.44	q	Q				
11+10	0.0000	4.43	q	Q				
11+11	0.0000	4.43	q	Q				
11+12	0.0000	4.43	q	Q				
11+13	0.0000	4.42	q	Q				
11+14	0.0000	4.42	q	Q				
11+15	0.0000	4.42	q	Q				
11+16	0.0000	4.41	q	Q				
11+17	0.0000	4.41	q	Q				
11+18	0.0000	4.41	q	Q				
11+19	0.0000	4.40	q	Q				
11+20	0.0000	4.40	q	Q				
11+21	0.0000	4.39	q	Q				
11+22	0.0000	4.39	q	Q				
11+23	0.0000	4.38	q	Q				
11+24	0.0000	4.38	q	Q				
11+25	0.0000	4.37	q	Q				
11+26	0.0000	4.37	q	Q				
11+27	0.0000	4.36	q	Q				
11+28	0.0000	4.36	q	Q				
11+29	0.0000	4.35	q	Q				
11+30	0.0000	4.35	q	Q				
11+31	0.0000	4.34	q	Q				
11+32	0.0000	4.34	q	Q				
11+33	0.0000	4.33	q	Q				
11+34	0.0000	4.33	q	Q				
11+35	0.0000	4.32	q	Q				
11+36	0.0000	4.32	q	Q				
11+37	0.0000	4.31	q	Q				
11+38	0.0000	4.31	q	Q				
11+39	0.0000	4.30	q	Q				
11+40	0.0000	4.30	q	Q				
11+41	0.0000	4.30	q	Q				
11+42	0.0000	4.29	q	Q				

11+43	0.0000	4.29	q	Q				
11+44	0.0000	4.28	q	Q				
11+45	0.0000	4.28	q	Q				
11+46	0.0000	4.27	q	Q				
11+47	0.0000	4.27	q	Q				
11+48	0.0000	4.26	q	Q				
11+49	0.0000	4.26	q	Q				
11+50	0.0000	4.25	q	Q				
11+51	0.0000	4.25	q	Q				
11+52	0.0000	4.24	q	Q				
11+53	0.0000	4.24	q	Q				
11+54	0.0000	4.23	q	Q				
11+55	0.0000	4.23	q	Q				
11+56	0.0000	4.22	q	Q				
11+57	0.0000	4.22	q	Q				
11+58	0.0000	4.21	q	Q				
11+59	0.0000	4.21	q	Q				
12+ 0	0.0000	4.20	q	Q				
12+ 1	0.0000	4.20	q	Q				
12+ 2	0.0000	4.20	q	Q				
12+ 3	0.0000	4.19	q	Q				
12+ 4	0.0000	4.19	q	Q				
12+ 5	0.0000	4.18	q	Q				
12+ 6	0.0000	4.18	q	Q				
12+ 7	0.0000	4.17	q	Q				
12+ 8	0.0000	4.17	q	Q				
12+ 9	0.0000	4.16	q	Q				
12+10	0.0000	4.16	q	Q				
12+11	0.0000	4.15	q	Q				
12+12	0.0000	4.15	q	Q				
12+13	0.0000	4.14	q	Q				
12+14	0.0000	4.14	q	Q				
12+15	0.0000	4.13	q	Q				
12+16	0.0000	4.13	q	Q				
12+17	0.0000	4.13	q	Q				
12+18	0.0000	4.12	q	Q				
12+19	0.0000	4.12	q	Q				
12+20	0.0000	4.11	q	Q				
12+21	0.0000	4.11	q	Q				
12+22	0.0000	4.10	q	Q				
12+23	0.0000	4.10	q	Q				
12+24	0.0000	4.09	q	Q				
12+25	0.0000	4.09	q	Q				
12+26	0.0000	4.08	q	Q				
12+27	0.0000	4.08	q	Q				
12+28	0.0000	4.07	q	Q				
12+29	0.0000	4.07	q	Q				
12+30	0.0000	4.07	q	Q				
12+31	0.0000	4.06	q	Q				
12+32	0.0000	4.06	q	Q				
12+33	0.0000	4.05	q	Q				
12+34	0.0000	4.05	q	Q				
12+35	0.0000	4.04	q	Q				
12+36	0.0000	4.04	q	Q				
12+37	0.0000	4.03	q	Q				
12+38	0.0000	4.03	q	Q				
12+39	0.0000	4.02	q	Q				
12+40	0.0000	4.02	q	Q				
12+41	0.0000	4.02	q	Q				
12+42	0.0000	4.01	q	Q				
12+43	0.0000	4.01	q	Q				
12+44	0.0000	4.00	q	Q				
12+45	0.0000	4.00	q	Q				
12+46	0.0000	3.99	q	Q				
12+47	0.0000	3.99	q	Q				
12+48	0.0000	3.98	q	Q				
12+49	0.0000	3.98	q	Q				
12+50	0.0000	3.98	q	Q				
12+51	0.0000	3.97	q	Q				
12+52	0.0000	3.97	q	Q				
12+53	0.0000	3.96	q	Q				

12+54	0.0000	3.96	q Q				
12+55	0.0000	3.95	q Q				
12+56	0.0000	3.95	q Q				
12+57	0.0000	3.94	q Q				
12+58	0.0000	3.94	q Q				
12+59	0.0000	3.94	q Q				
13+ 0	0.0000	3.93	q Q				
13+ 1	0.0000	3.93	q Q				
13+ 2	0.0000	3.92	q Q				
13+ 3	0.0000	3.92	q Q				
13+ 4	0.0000	3.91	q Q				
13+ 5	0.0000	3.91	q Q				
13+ 6	0.0000	3.91	q Q				
13+ 7	0.0000	3.90	q Q				
13+ 8	0.0000	3.90	q Q				
13+ 9	0.0000	3.89	q Q				
13+10	0.0000	3.89	q Q				
13+11	0.0000	3.88	q Q				
13+12	0.0000	3.88	q Q				
13+13	0.0000	3.87	q Q				
13+14	0.0000	3.87	q Q				
13+15	0.0000	3.87	q Q				
13+16	0.0000	3.86	q Q				
13+17	0.0000	3.86	q Q				
13+18	0.0000	3.85	q Q				
13+19	0.0000	3.85	q Q				
13+20	0.0000	3.84	q Q				
13+21	0.0000	3.84	q Q				
13+22	0.0000	3.84	q Q				
13+23	0.0000	3.83	q Q				
13+24	0.0000	3.83	q Q				
13+25	0.0000	3.82	q Q				
13+26	0.0000	3.82	q Q				
13+27	0.0000	3.81	q Q				
13+28	0.0000	3.81	q Q				
13+29	0.0000	3.81	q Q				
13+30	0.0000	3.80	q Q				
13+31	0.0000	3.80	q Q				
13+32	0.0000	3.79	q Q				
13+33	0.0000	3.79	q Q				
13+34	0.0000	3.78	q Q				
13+35	0.0000	3.78	q Q				
13+36	0.0000	3.78	q Q				
13+37	0.0000	3.77	q Q				
13+38	0.0000	3.77	q Q				
13+39	0.0000	3.76	q Q				
13+40	0.0000	3.76	q Q				
13+41	0.0000	3.75	q Q				
13+42	0.0000	3.75	q Q				
13+43	0.0000	3.75	q Q				
13+44	0.0000	3.74	q Q				
13+45	0.0000	3.74	q Q				
13+46	0.0000	3.73	q Q				
13+47	0.0000	3.73	q Q				
13+48	0.0000	3.73	q Q				
13+49	0.0000	3.72	q Q				
13+50	0.0000	3.72	q Q				
13+51	0.0000	3.71	q Q				
13+52	0.0000	3.71	q Q				
13+53	0.0000	3.70	q Q				
13+54	0.0000	3.70	q Q				
13+55	0.0000	3.70	q Q				
13+56	0.0000	3.69	q Q				
13+57	0.0000	3.69	q Q				
13+58	0.0000	3.68	q Q				
13+59	0.0000	3.68	q Q				
14+ 0	0.0000	3.68	q Q				
14+ 1	0.0000	3.67	q Q				
14+ 2	0.0000	3.67	q Q				
14+ 3	0.0000	3.66	q Q				
14+ 4	0.0000	3.66	q Q				

14+ 5	0.0000	3.66	q Q				
14+ 6	0.0000	3.65	q Q				
14+ 7	0.0000	3.65	q Q				
14+ 8	0.0000	3.64	q Q				
14+ 9	0.0000	3.64	q Q				
14+10	0.0000	3.63	q Q				
14+11	0.0000	3.63	q Q				
14+12	0.0000	3.63	q Q				
14+13	0.0000	3.62	q Q				
14+14	0.0000	3.62	q Q				
14+15	0.0000	3.61	q Q				
14+16	0.0000	3.61	q Q				
14+17	0.0000	3.61	q Q				
14+18	0.0000	3.60	q Q				
14+19	0.0000	3.60	q Q				
14+20	0.0000	3.59	q Q				
14+21	0.0000	3.59	q Q				
14+22	0.0000	3.59	q Q				
14+23	0.0000	3.58	q Q				
14+24	0.0000	3.58	q Q				
14+25	0.0000	3.57	q Q				
14+26	0.0000	3.57	q Q				
14+27	0.0000	3.57	q Q				
14+28	0.0000	3.56	q Q				
14+29	0.0000	3.56	q Q				
14+30	0.0000	3.55	q Q				
14+31	0.0000	3.55	q Q				
14+32	0.0000	3.55	q Q				
14+33	0.0000	3.54	q Q				
14+34	0.0000	3.54	q Q				
14+35	0.0000	3.53	q Q				
14+36	0.0000	3.53	q Q				
14+37	0.0000	3.53	q Q				
14+38	0.0000	3.52	q Q				
14+39	0.0000	3.52	q Q				
14+40	0.0000	3.51	q Q				
14+41	0.0000	3.51	q Q				
14+42	0.0000	3.51	q Q				
14+43	0.0000	3.50	q Q				
14+44	0.0000	3.50	q Q				
14+45	0.0000	3.50	q Q				
14+46	0.0000	3.49	q Q				
14+47	0.0000	3.49	q Q				
14+48	0.0000	3.48	q Q				
14+49	0.0000	3.48	q Q				
14+50	0.0000	3.48	q Q				
14+51	0.0000	3.47	q Q				
14+52	0.0000	3.47	q Q				
14+53	0.0000	3.46	q Q				
14+54	0.0000	3.46	q Q				
14+55	0.0000	3.46	q Q				
14+56	0.0000	3.45	q Q				
14+57	0.0000	3.45	q Q				
14+58	0.0000	3.44	q Q				
14+59	0.0000	3.44	q Q				
15+ 0	0.0000	3.44	q Q				
15+ 1	0.0000	3.43	q Q				
15+ 2	0.0000	3.43	q Q				
15+ 3	0.0000	3.43	q Q				
15+ 4	0.0000	3.42	q Q				
15+ 5	0.0000	3.42	q Q				
15+ 6	0.0000	3.41	q Q				
15+ 7	0.0000	3.41	q Q				
15+ 8	0.0000	3.41	q Q				
15+ 9	0.0000	3.40	q Q				
15+10	0.0000	3.40	q Q				
15+11	0.0000	3.39	q Q				
15+12	0.0000	3.39	q Q				
15+13	0.0000	3.39	q Q				
15+14	0.0000	3.38	q Q				
15+15	0.0000	3.38	q Q				

15+16	0.0000	3.37	q Q				
15+17	0.0000	3.37	q Q				
15+18	0.0000	3.36	q Q				
15+19	0.0000	3.36	q Q				
15+20	0.0000	3.35	q Q				
15+21	0.0000	3.35	q Q				
15+22	0.0000	3.35	q Q				
15+23	0.0000	3.34	q Q				
15+24	0.0000	3.34	q Q				
15+25	0.0000	3.33	q Q				
15+26	0.0000	3.33	q Q				
15+27	0.0000	3.32	q Q				
15+28	0.0000	3.32	q Q				
15+29	0.0000	3.32	q Q				
15+30	0.0000	3.31	q Q				
15+31	0.0000	3.31	q Q				
15+32	0.0000	3.30	q Q				
15+33	0.0000	3.30	q Q				
15+34	0.0000	3.29	q Q				
15+35	0.0000	3.29	q Q				
15+36	0.0000	3.29	q Q				
15+37	0.0000	3.28	q Q				
15+38	0.0000	3.28	q Q				
15+39	0.0000	3.27	q Q				
15+40	0.0000	3.27	q Q				
15+41	0.0000	3.27	q Q				
15+42	0.0000	3.26	q Q				
15+43	0.0000	3.26	q Q				
15+44	0.0000	3.25	q Q				
15+45	0.0000	3.25	q Q				
15+46	0.0000	3.24	q Q				
15+47	0.0000	3.24	q Q				
15+48	0.0000	3.24	q Q				
15+49	0.0000	3.23	q Q				
15+50	0.0000	3.23	q Q				
15+51	0.0000	3.22	q Q				
15+52	0.0000	3.22	q Q				
15+53	0.0000	3.22	q Q				
15+54	0.0000	3.21	q Q				
15+55	0.0000	3.21	q Q				
15+56	0.0000	3.20	q Q				
15+57	0.0000	3.20	q Q				
15+58	0.0000	3.19	q Q				
15+59	0.0000	3.19	q Q				
16+ 0	0.0000	3.19	q Q				
16+ 1	0.0000	3.18	q Q				
16+ 2	0.0000	3.18	q Q				
16+ 3	0.0000	3.17	q Q				
16+ 4	0.0000	3.17	q Q				
16+ 5	0.0000	3.17	q Q				
16+ 6	0.0000	3.16	q Q				
16+ 7	0.0000	3.16	q Q				
16+ 8	0.0000	3.15	q Q				
16+ 9	0.0000	3.15	q Q				
16+10	0.0000	3.15	q Q				
16+11	0.0000	3.14	q Q				
16+12	0.0000	3.14	q Q				
16+13	0.0000	3.13	q Q				
16+14	0.0000	3.13	q Q				
16+15	0.0000	3.12	q Q				
16+16	0.0000	3.12	q Q				
16+17	0.0000	3.12	q Q				
16+18	0.0000	3.11	q Q				
16+19	0.0000	3.11	q Q				
16+20	0.0000	3.10	q Q				
16+21	0.0000	3.10	q Q				
16+22	0.0000	3.10	q Q				
16+23	0.0000	3.09	q Q				
16+24	0.0000	3.09	q Q				
16+25	0.0000	3.08	q Q				
16+26	0.0000	3.08	q Q				

16+27	0.0000	3.08	q Q				
16+28	0.0000	3.07	q Q				
16+29	0.0000	3.07	q Q				
16+30	0.0000	3.07	q Q				
16+31	0.0000	3.06	q Q				
16+32	0.0000	3.06	q Q				
16+33	0.0000	3.05	q Q				
16+34	0.0000	3.05	q Q				
16+35	0.0000	3.05	q Q				
16+36	0.0000	3.04	q Q				
16+37	0.0000	3.04	q Q				
16+38	0.0000	3.03	q Q				
16+39	0.0000	3.03	q Q				
16+40	0.0000	3.03	q Q				
16+41	0.0000	3.02	q Q				
16+42	0.0000	3.02	q Q				
16+43	0.0000	3.01	q Q				
16+44	0.0000	3.01	q Q				
16+45	0.0000	3.01	q Q				
16+46	0.0000	3.00	q Q				
16+47	0.0000	3.00	q Q				
16+48	0.0000	2.99	q Q				
16+49	0.0000	2.99	q Q				
16+50	0.0000	2.99	q Q				
16+51	0.0000	2.98	q Q				
16+52	0.0000	2.98	q Q				
16+53	0.0000	2.98	q Q				
16+54	0.0000	2.97	q Q				
16+55	0.0000	2.97	q Q				
16+56	0.0000	2.96	q Q				
16+57	0.0000	2.96	q Q				
16+58	0.0000	2.96	q Q				
16+59	0.0000	2.95	q Q				
17+ 0	0.0000	2.95	q Q				
17+ 1	0.0000	2.94	q Q				
17+ 2	0.0000	2.94	q Q				
17+ 3	0.0000	2.94	q Q				
17+ 4	0.0000	2.93	q Q				
17+ 5	0.0000	2.93	q Q				
17+ 6	0.0000	2.93	q Q				
17+ 7	0.0000	2.92	q Q				
17+ 8	0.0000	2.92	q Q				
17+ 9	0.0000	2.91	q Q				
17+10	0.0000	2.91	q Q				
17+11	0.0000	2.91	q Q				
17+12	0.0000	2.90	q Q				
17+13	0.0000	2.90	q Q				
17+14	0.0000	2.90	q Q				
17+15	0.0000	2.89	q Q				
17+16	0.0000	2.89	q Q				
17+17	0.0000	2.88	q Q				
17+18	0.0000	2.88	q Q				
17+19	0.0000	2.88	q Q				
17+20	0.0000	2.87	q Q				
17+21	0.0000	2.87	q Q				
17+22	0.0000	2.87	q Q				
17+23	0.0000	2.86	q Q				
17+24	0.0000	2.86	q Q				
17+25	0.0000	2.85	q Q				
17+26	0.0000	2.85	q Q				
17+27	0.0000	2.85	q Q				
17+28	0.0000	2.84	q Q				
17+29	0.0000	2.84	q Q				
17+30	0.0000	2.84	q Q				
17+31	0.0000	2.83	q Q				
17+32	0.0000	2.83	q Q				
17+33	0.0000	2.83	q Q				
17+34	0.0000	2.82	q Q				
17+35	0.0000	2.82	q Q				
17+36	0.0000	2.81	q Q				
17+37	0.0000	2.81	q Q				

17+38	0.0000	2.81	q Q				
17+39	0.0000	2.80	q Q				
17+40	0.0000	2.80	q Q				
17+41	0.0000	2.80	q Q				
17+42	0.0000	2.79	q Q				
17+43	0.0000	2.79	qQ				
17+44	0.0000	2.79	qQ				
17+45	0.0000	2.78	qQ				
17+46	0.0000	2.78	qQ				
17+47	0.0000	2.77	qQ				
17+48	0.0000	2.77	qQ				
17+49	0.0000	2.77	qQ				
17+50	0.0000	2.76	qQ				
17+51	0.0000	2.76	qQ				
17+52	0.0000	2.76	qQ				
17+53	0.0000	2.75	qQ				
17+54	0.0000	2.75	qQ				
17+55	0.0000	2.75	qQ				
17+56	0.0000	2.74	qQ				
17+57	0.0000	2.74	qQ				
17+58	0.0000	2.74	qQ				
17+59	0.0000	2.73	qQ				
18+ 0	0.0000	2.73	qQ				
18+ 1	0.0000	2.73	qQ				
18+ 2	0.0000	2.72	qQ				
18+ 3	0.0000	2.72	qQ				
18+ 4	0.0000	2.71	qQ				
18+ 5	0.0000	2.71	qQ				
18+ 6	0.0000	2.71	qQ				
18+ 7	0.0000	2.70	qQ				
18+ 8	0.0000	2.70	qQ				
18+ 9	0.0000	2.70	qQ				
18+10	0.0000	2.69	qQ				
18+11	0.0000	2.69	qQ				
18+12	0.0000	2.69	qQ				
18+13	0.0000	2.68	qQ				
18+14	0.0000	2.68	qQ				
18+15	0.0000	2.68	qQ				
18+16	0.0000	2.67	qQ				
18+17	0.0000	2.67	qQ				
18+18	0.0000	2.67	qQ				
18+19	0.0000	2.66	qQ				
18+20	0.0000	2.66	qQ				
18+21	0.0000	2.66	qQ				
18+22	0.0000	2.65	qQ				
18+23	0.0000	2.65	qQ				
18+24	0.0000	2.65	qQ				
18+25	0.0000	2.64	qQ				
18+26	0.0000	2.64	qQ				
18+27	0.0000	2.64	qQ				
18+28	0.0000	2.63	qQ				
18+29	0.0000	2.63	qQ				
18+30	0.0000	2.63	qQ				
18+31	0.0000	2.62	qQ				
18+32	0.0000	2.62	qQ				
18+33	0.0000	2.61	qQ				
18+34	0.0000	2.61	qQ				
18+35	0.0000	2.61	qQ				
18+36	0.0000	2.60	qQ				
18+37	0.0000	2.60	qQ				
18+38	0.0000	2.60	qQ				
18+39	0.0000	2.59	qQ				
18+40	0.0000	2.59	qQ				
18+41	0.0000	2.59	qQ				
18+42	0.0000	2.58	qQ				
18+43	0.0000	2.58	qQ				
18+44	0.0000	2.58	qQ				
18+45	0.0000	2.57	qQ				
18+46	0.0000	2.57	qQ				
18+47	0.0000	2.57	qQ				
18+48	0.0000	2.56	qQ				

18+49	0.0000	2.56	qQ				
18+50	0.0000	2.56	qQ				
18+51	0.0000	2.55	qQ				
18+52	0.0000	2.55	qQ				
18+53	0.0000	2.55	qQ				
18+54	0.0000	2.54	qQ				
18+55	0.0000	2.54	qQ				
18+56	0.0000	2.54	qQ				
18+57	0.0000	2.54	qQ				
18+58	0.0000	2.53	qQ				
18+59	0.0000	2.53	qQ				
19+ 0	0.0000	2.53	qQ				
19+ 1	0.0000	2.52	qQ				
19+ 2	0.0000	2.52	qQ				
19+ 3	0.0000	2.52	qQ				
19+ 4	0.0000	2.51	qQ				
19+ 5	0.0000	2.51	qQ				
19+ 6	0.0000	2.51	qQ				
19+ 7	0.0000	2.50	qQ				
19+ 8	0.0000	2.50	qQ				
19+ 9	0.0000	2.50	qQ				
19+10	0.0000	2.49	qQ				
19+11	0.0000	2.49	qQ				
19+12	0.0000	2.49	qQ				
19+13	0.0000	2.48	qQ				
19+14	0.0000	2.48	qQ				
19+15	0.0000	2.48	qQ				
19+16	0.0000	2.47	qQ				
19+17	0.0000	2.47	qQ				
19+18	0.0000	2.47	qQ				
19+19	0.0000	2.46	qQ				
19+20	0.0000	2.46	qQ				
19+21	0.0000	2.46	qQ				
19+22	0.0000	2.45	qQ				
19+23	0.0000	2.45	qQ				
19+24	0.0000	2.45	qQ				
19+25	0.0000	2.45	qQ				
19+26	0.0000	2.44	qQ				
19+27	0.0000	2.44	qQ				
19+28	0.0000	2.44	qQ				
19+29	0.0000	2.43	qQ				
19+30	0.0000	2.43	qQ				
19+31	0.0000	2.43	qQ				
19+32	0.0000	2.42	qQ				
19+33	0.0000	2.42	qQ				
19+34	0.0000	2.42	qQ				
19+35	0.0000	2.41	qQ				
19+36	0.0000	2.41	qQ				
19+37	0.0000	2.41	qQ				
19+38	0.0000	2.40	qQ				
19+39	0.0000	2.40	qQ				
19+40	0.0000	2.40	qQ				
19+41	0.0000	2.40	qQ				
19+42	0.0000	2.39	qQ				
19+43	0.0000	2.39	qQ				
19+44	0.0000	2.39	qQ				
19+45	0.0000	2.38	qQ				
19+46	0.0000	2.38	qQ				
19+47	0.0000	2.38	qQ				
19+48	0.0000	2.37	qQ				
19+49	0.0000	2.37	qQ				
19+50	0.0000	2.37	qQ				
19+51	0.0000	2.36	qQ				
19+52	0.0000	2.36	qQ				
19+53	0.0000	2.36	qQ				
19+54	0.0000	2.36	qQ				
19+55	0.0000	2.35	qQ				
19+56	0.0000	2.35	qQ				
19+57	0.0000	2.35	qQ				
19+58	0.0000	2.34	qQ				
19+59	0.0000	2.34	qQ				

20+ 0	0.0000	2.34	qQ				
20+ 1	0.0000	2.33	qQ				
20+ 2	0.0000	2.33	qQ				
20+ 3	0.0000	2.33	qQ				
20+ 4	0.0000	2.32	qQ				
20+ 5	0.0000	2.32	qQ				
20+ 6	0.0000	2.32	qQ				
20+ 7	0.0000	2.32	qQ				
20+ 8	0.0000	2.31	qQ				
20+ 9	0.0000	2.31	qQ				
20+10	0.0000	2.31	qQ				
20+11	0.0000	2.30	qQ				
20+12	0.0000	2.30	qQ				
20+13	0.0000	2.30	qQ				
20+14	0.0000	2.30	qQ				
20+15	0.0000	2.29	qQ				
20+16	0.0000	2.29	qQ				
20+17	0.0000	2.29	qQ				
20+18	0.0000	2.28	qQ				
20+19	0.0000	2.28	qQ				
20+20	0.0000	2.28	qQ				
20+21	0.0000	2.27	qQ				
20+22	0.0000	2.27	qQ				
20+23	0.0000	2.27	qQ				
20+24	0.0000	2.27	qQ				
20+25	0.0000	2.26	qQ				
20+26	0.0000	2.26	qQ				
20+27	0.0000	2.26	qQ				
20+28	0.0000	2.25	qQ				
20+29	0.0000	2.25	qQ				
20+30	0.0000	2.25	qQ				
20+31	0.0000	2.25	qQ				
20+32	0.0000	2.24	qQ				
20+33	0.0000	2.24	qQ				
20+34	0.0000	2.24	qQ				
20+35	0.0000	2.23	qQ				
20+36	0.0000	2.23	qQ				
20+37	0.0000	2.23	qQ				
20+38	0.0000	2.23	qQ				
20+39	0.0000	2.22	qQ				
20+40	0.0000	2.22	qQ				
20+41	0.0000	2.22	qQ				
20+42	0.0000	2.21	qQ				
20+43	0.0000	2.21	qQ				
20+44	0.0000	2.21	qQ				
20+45	0.0000	2.21	qQ				
20+46	0.0000	2.20	qQ				
20+47	0.0000	2.20	qQ				
20+48	0.0000	2.19	qQ				
20+49	0.0000	2.18	qQ				
20+50	0.0000	2.17	qQ				
20+51	0.0000	2.16	qQ				
20+52	0.0000	2.15	qQ				
20+53	0.0000	2.14	qQ				
20+54	0.0000	2.13	qQ				
20+55	0.0000	2.12	qQ				
20+56	0.0000	2.12	qQ				
20+57	0.0000	2.11	qQ				
20+58	0.0000	2.10	qQ				
20+59	0.0000	2.09	qQ				
21+ 0	0.0000	2.08	qQ				
21+ 1	0.0000	2.07	qQ				
21+ 2	0.0000	2.06	qQ				
21+ 3	0.0000	2.05	qQ				
21+ 4	0.0000	2.04	qQ				
21+ 5	0.0000	2.04	qQ				
21+ 6	0.0000	2.03	qQ				
21+ 7	0.0000	2.02	qQ				
21+ 8	0.0000	2.01	qQ				
21+ 9	0.0000	2.00	qQ				
21+10	0.0000	1.99	qQ				

21+11	0.0000	1.98	qQ				
21+12	0.0000	1.98	qQ				
21+13	0.0000	1.97	qQ				
21+14	0.0000	1.96	qQ				
21+15	0.0000	1.95	qQ				
21+16	0.0000	1.94	qQ				
21+17	0.0000	1.93	qQ				
21+18	0.0000	1.93	qQ				
21+19	0.0000	1.92	qQ				
21+20	0.0000	1.91	qQ				
21+21	0.0000	1.90	qQ				
21+22	0.0000	1.89	qQ				
21+23	0.0000	1.88	qQ				
21+24	0.0000	1.88	qQ				
21+25	0.0000	1.87	qQ				
21+26	0.0000	1.86	qQ				
21+27	0.0000	1.85	qQ				
21+28	0.0000	1.85	qQ				
21+29	0.0000	1.84	qQ				
21+30	0.0000	1.83	qQ				
21+31	0.0000	1.82	qQ				
21+32	0.0000	1.81	qQ				
21+33	0.0000	1.81	qQ				
21+34	0.0000	1.80	qQ				
21+35	0.0000	1.79	qQ				
21+36	0.0000	1.78	qQ				
21+37	0.0000	1.78	qQ				
21+38	0.0000	1.77	qQ				
21+39	0.0000	1.76	qQ				
21+40	0.0000	1.75	qQ				
21+41	0.0000	1.75	qQ				
21+42	0.0000	1.74	qQ				
21+43	0.0000	1.73	qQ				
21+44	0.0000	1.72	qQ				
21+45	0.0000	1.72	qQ				
21+46	0.0000	1.71	qQ				
21+47	0.0000	1.70	qQ				
21+48	0.0000	1.69	qQ				
21+49	0.0000	1.69	qQ				
21+50	0.0000	1.68	qQ				
21+51	0.0000	1.67	qQ				
21+52	0.0000	1.67	qQ				
21+53	0.0000	1.66	qQ				
21+54	0.0000	1.65	qQ				
21+55	0.0000	1.64	qQ				
21+56	0.0000	1.64	qQ				
21+57	0.0000	1.63	qQ				
21+58	0.0000	1.62	qQ				
21+59	0.0000	1.62	qQ				
22+ 0	0.0000	1.61	qQ				
22+ 1	0.0000	1.60	qQ				
22+ 2	0.0000	1.60	qQ				
22+ 3	0.0000	1.59	qQ				
22+ 4	0.0000	1.58	qQ				
22+ 5	0.0000	1.58	qQ				
22+ 6	0.0000	1.57	qQ				
22+ 7	0.0000	1.56	qQ				
22+ 8	0.0000	1.56	qQ				
22+ 9	0.0000	1.55	qQ				
22+10	0.0000	1.54	qQ				
22+11	0.0000	1.54	qQ				
22+12	0.0000	1.53	qQ				
22+13	0.0000	1.52	qQ				
22+14	0.0000	1.52	qQ				
22+15	0.0000	1.51	qQ				
22+16	0.0000	1.50	qQ				
22+17	0.0000	1.50	qQ				
22+18	0.0000	1.49	qQ				
22+19	0.0000	1.48	qQ				
22+20	0.0000	1.48	qQ				
22+21	0.0000	1.47	qQ				

22+22	0.0000	1.47	qQ				
22+23	0.0000	1.46	qQ				
22+24	0.0000	1.45	qQ				
22+25	0.0000	1.45	qQ				
22+26	0.0000	1.44	qQ				
22+27	0.0000	1.43	qQ				
22+28	0.0000	1.43	qQ				
22+29	0.0000	1.42	qQ				
22+30	0.0000	1.42	qQ				
22+31	0.0000	1.41	qQ				
22+32	0.0000	1.40	qQ				
22+33	0.0000	1.40	qQ				
22+34	0.0000	1.39	Q				
22+35	0.0000	1.39	Q				
22+36	0.0000	1.38	Q				
22+37	0.0000	1.37	Q				
22+38	0.0000	1.37	Q				
22+39	0.0000	1.36	Q				
22+40	0.0000	1.36	Q				
22+41	0.0000	1.35	Q				
22+42	0.0000	1.35	Q				
22+43	0.0000	1.34	Q				
22+44	0.0000	1.33	Q				
22+45	0.0000	1.33	Q				
22+46	0.0000	1.32	Q				
22+47	0.0000	1.32	Q				
22+48	0.0000	1.31	Q				
22+49	0.0000	1.31	Q				
22+50	0.0000	1.30	Q				
22+51	0.0000	1.29	Q				
22+52	0.0000	1.29	Q				
22+53	0.0000	1.28	Q				
22+54	0.0000	1.28	Q				
22+55	0.0000	1.27	Q				
22+56	0.0000	1.27	Q				
22+57	0.0000	1.26	Q				
22+58	0.0000	1.26	Q				
22+59	0.0000	1.25	Q				
23+ 0	0.0000	1.25	Q				
23+ 1	0.0000	1.24	Q				
23+ 2	0.0000	1.24	Q				
23+ 3	0.0000	1.23	Q				
23+ 4	0.0000	1.22	Q				
23+ 5	0.0000	1.22	Q				
23+ 6	0.0000	1.21	Q				
23+ 7	0.0000	1.21	Q				
23+ 8	0.0000	1.20	Q				
23+ 9	0.0000	1.20	Q				
23+10	0.0000	1.19	Q				
23+11	0.0000	1.19	Q				
23+12	0.0000	1.18	Q				
23+13	0.0000	1.18	Q				
23+14	0.0000	1.17	Q				
23+15	0.0000	1.17	Q				
23+16	0.0000	1.16	Q				
23+17	0.0000	1.16	Q				
23+18	0.0000	1.15	Q				
23+19	0.0000	1.15	Q				
23+20	0.0000	1.14	Q				
23+21	0.0000	1.14	Q				
23+22	0.0000	1.13	Q				
23+23	0.0000	1.13	Q				
23+24	0.0000	1.12	Q				
23+25	0.0000	1.12	Q				
23+26	0.0000	1.12	Q				
23+27	0.0000	1.11	Q				
23+28	0.0000	1.11	Q				
23+29	0.0000	1.10	Q				
23+30	0.0000	1.10	Q				
23+31	0.0000	1.09	Q				
23+32	0.0000	1.09	Q				

23+33	0.0000	1.08	Q				
23+34	0.0000	1.08	Q				
23+35	0.0000	1.07	Q				
23+36	0.0000	1.07	Q				
23+37	0.0000	1.06	Q				
23+38	0.0000	1.06	Q				
23+39	0.0000	1.05	Q				
23+40	0.0000	1.05	Q				
23+41	0.0000	1.05	Q				
23+42	0.0000	1.04	Q				
23+43	0.0000	1.04	Q				
23+44	0.0000	1.03	Q				
23+45	0.0000	1.03	Q				
23+46	0.0000	1.02	Q				
23+47	0.0000	1.02	Q				
23+48	0.0000	1.02	Q				
23+49	0.0000	1.01	Q				
23+50	0.0000	1.01	Q				
23+51	0.0000	1.00	Q				
23+52	0.0000	1.00	Q				
23+53	0.0000	0.99	Q				
23+54	0.0000	0.99	Q				
23+55	0.0000	0.99	Q				
23+56	0.0000	0.98	Q				
23+57	0.0000	0.98	Q				
23+58	0.0000	0.97	Q				
23+59	0.0000	0.97	Q				
24+ 0	0.0000	0.96	Q				
24+ 1	0.0000	0.96	Q				
24+ 2	0.0000	0.96	Q				
24+ 3	0.0000	0.95	Q				
24+ 4	0.0000	0.95	Q				
24+ 5	0.0000	0.94	Q				
24+ 6	0.0000	0.94	Q				
24+ 7	0.0000	0.94	Q				
24+ 8	0.0000	0.93	Q				
24+ 9	0.0000	0.93	Q				
24+10	0.0000	0.92	Q				
24+11	0.0000	0.92	Q				
24+12	0.0000	0.92	Q				
24+13	0.0000	0.91	Q				
24+14	0.0000	0.91	Q				
24+15	0.0000	0.90	Q				
24+16	0.0000	0.90	Q				
24+17	0.0000	0.90	Q				
24+18	0.0000	0.89	Q				
24+19	0.0000	0.89	Q				
24+20	0.0000	0.89	Q				
24+21	0.0000	0.88	Q				
24+22	0.0000	0.88	Q				
24+23	0.0000	0.87	Q				
24+24	0.0000	0.87	Q				
24+25	0.0000	0.87	Q				
24+26	0.0000	0.86	Q				
24+27	0.0000	0.86	Q				
24+28	0.0000	0.86	Q				
24+29	0.0000	0.85	Q				
24+30	0.0000	0.85	Q				
24+31	0.0000	0.84	Q				
24+32	0.0000	0.84	Q				
24+33	0.0000	0.84	Q				
24+34	0.0000	0.83	Q				
24+35	0.0000	0.83	Q				
24+36	0.0000	0.83	Q				
24+37	0.0000	0.82	Q				
24+38	0.0000	0.82	Q				
24+39	0.0000	0.82	Q				
24+40	0.0000	0.81	Q				
24+41	0.0000	0.81	Q				
24+42	0.0000	0.81	Q				
24+43	0.0000	0.80	Q				

24+44	0.0000	0.80	Q				
24+45	0.0000	0.80	Q				
24+46	0.0000	0.79	Q				
24+47	0.0000	0.79	Q				
24+48	0.0000	0.79	Q				
24+49	0.0000	0.78	Q				
24+50	0.0000	0.78	Q				
24+51	0.0000	0.78	Q				
24+52	0.0000	0.77	Q				
24+53	0.0000	0.77	Q				
24+54	0.0000	0.77	Q				
24+55	0.0000	0.76	Q				
24+56	0.0000	0.76	Q				
24+57	0.0000	0.76	Q				
24+58	0.0000	0.75	Q				
24+59	0.0000	0.75	Q				
25+ 0	0.0000	0.75	Q				
25+ 1	0.0000	0.74	Q				
25+ 2	0.0000	0.74	Q				
25+ 3	0.0000	0.74	Q				
25+ 4	0.0000	0.73	Q				
25+ 5	0.0000	0.73	Q				
25+ 6	0.0000	0.73	Q				
25+ 7	0.0000	0.72	Q				
25+ 8	0.0000	0.72	Q				
25+ 9	0.0000	0.72	Q				
25+10	0.0000	0.72	Q				
25+11	0.0000	0.71	Q				
25+12	0.0000	0.71	Q				
25+13	0.0000	0.71	Q				
25+14	0.0000	0.70	Q				
25+15	0.0000	0.70	Q				
25+16	0.0000	0.70	Q				
25+17	0.0000	0.69	Q				
25+18	0.0000	0.69	Q				
25+19	0.0000	0.69	Q				
25+20	0.0000	0.69	Q				
25+21	0.0000	0.68	Q				
25+22	0.0000	0.68	Q				
25+23	0.0000	0.68	Q				
25+24	0.0000	0.67	Q				
25+25	0.0000	0.67	Q				
25+26	0.0000	0.67	Q				
25+27	0.0000	0.67	Q				
25+28	0.0000	0.66	Q				
25+29	0.0000	0.66	Q				
25+30	0.0000	0.66	Q				
25+31	0.0000	0.65	Q				
25+32	0.0000	0.65	Q				
25+33	0.0000	0.65	Q				
25+34	0.0000	0.65	Q				
25+35	0.0000	0.64	Q				
25+36	0.0000	0.64	Q				
25+37	0.0000	0.64	Q				
25+38	0.0000	0.63	Q				
25+39	0.0000	0.63	Q				
25+40	0.0000	0.63	Q				
25+41	0.0000	0.63	Q				
25+42	0.0000	0.62	Q				
25+43	0.0000	0.62	Q				
25+44	0.0000	0.62	Q				
25+45	0.0000	0.62	Q				
25+46	0.0000	0.61	Q				
25+47	0.0000	0.61	Q				
25+48	0.0000	0.61	Q				
25+49	0.0000	0.61	Q				
25+50	0.0000	0.60	Q				
25+51	0.0000	0.60	Q				
25+52	0.0000	0.60	Q				
25+53	0.0000	0.60	Q				
25+54	0.0000	0.59	Q				

25+55	0.0000	0.59	Q				
25+56	0.0000	0.59	Q				
25+57	0.0000	0.59	Q				
25+58	0.0000	0.58	Q				
25+59	0.0000	0.58	Q				
26+ 0	0.0000	0.58	Q				
26+ 1	0.0000	0.58	Q				
26+ 2	0.0000	0.57	Q				
26+ 3	0.0000	0.57	Q				
26+ 4	0.0000	0.57	Q				
26+ 5	0.0000	0.57	Q				
26+ 6	0.0000	0.56	Q				
26+ 7	0.0000	0.56	Q				
26+ 8	0.0000	0.56	Q				
26+ 9	0.0000	0.56	Q				
26+10	0.0000	0.55	Q				
26+11	0.0000	0.55	Q				
26+12	0.0000	0.55	Q				
26+13	0.0000	0.55	Q				
26+14	0.0000	0.54	Q				
26+15	0.0000	0.54	Q				
26+16	0.0000	0.54	Q				
26+17	0.0000	0.54	Q				
26+18	0.0000	0.54	Q				
26+19	0.0000	0.53	Q				
26+20	0.0000	0.53	Q				
26+21	0.0000	0.53	Q				
26+22	0.0000	0.53	Q				
26+23	0.0000	0.52	Q				
26+24	0.0000	0.52	Q				
26+25	0.0000	0.52	Q				
26+26	0.0000	0.52	Q				
26+27	0.0000	0.52	Q				
26+28	0.0000	0.51	Q				
26+29	0.0000	0.51	Q				
26+30	0.0000	0.51	Q				
26+31	0.0000	0.51	Q				
26+32	0.0000	0.50	Q				
26+33	0.0000	0.50	Q				
26+34	0.0000	0.50	Q				
26+35	0.0000	0.50	Q				
26+36	0.0000	0.50	Q				
26+37	0.0000	0.49	Q				
26+38	0.0000	0.49	Q				
26+39	0.0000	0.49	Q				
26+40	0.0000	0.49	Q				
26+41	0.0000	0.49	Q				
26+42	0.0000	0.48	Q				
26+43	0.0000	0.48	Q				
26+44	0.0000	0.48	Q				
26+45	0.0000	0.48	Q				
26+46	0.0000	0.47	Q				
26+47	0.0000	0.47	Q				
26+48	0.0000	0.47	Q				
26+49	0.0000	0.47	Q				
26+50	0.0000	0.47	Q				
26+51	0.0000	0.46	Q				
26+52	0.0000	0.46	Q				
26+53	0.0000	0.46	Q				
26+54	0.0000	0.46	Q				
26+55	0.0000	0.46	Q				
26+56	0.0000	0.46	Q				
26+57	0.0000	0.45	Q				
26+58	0.0000	0.45	Q				
26+59	0.0000	0.45	Q				
27+ 0	0.0000	0.45	Q				
27+ 1	0.0000	0.45	Q				
27+ 2	0.0000	0.44	Q				
27+ 3	0.0000	0.44	Q				
27+ 4	0.0000	0.44	Q				
27+ 5	0.0000	0.44	Q				

27+ 6	0.0000	0.44	Q				
27+ 7	0.0000	0.43	Q				
27+ 8	0.0000	0.43	Q				
27+ 9	0.0000	0.43	Q				
27+10	0.0000	0.43	Q				
27+11	0.0000	0.43	Q				
27+12	0.0000	0.43	Q				
27+13	0.0000	0.42	Q				
27+14	0.0000	0.42	Q				
27+15	0.0000	0.42	Q				
27+16	0.0000	0.42	Q				
27+17	0.0000	0.42	Q				
27+18	0.0000	0.41	Q				
27+19	0.0000	0.41	Q				
27+20	0.0000	0.41	Q				
27+21	0.0000	0.41	Q				
27+22	0.0000	0.41	Q				
27+23	0.0000	0.41	Q				
27+24	0.0000	0.40	Q				
27+25	0.0000	0.40	Q				
27+26	0.0000	0.40	Q				
27+27	0.0000	0.40	Q				
27+28	0.0000	0.40	Q				
27+29	0.0000	0.40	Q				
27+30	0.0000	0.39	Q				
27+31	0.0000	0.39	Q				
27+32	0.0000	0.39	Q				
27+33	0.0000	0.39	Q				
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27+35	0.0000	0.39	Q				
27+36	0.0000	0.38	Q				
27+37	0.0000	0.38	Q				
27+38	0.0000	0.38	Q				
27+39	0.0000	0.38	Q				
27+40	0.0000	0.38	Q				
27+41	0.0000	0.38	Q				
27+42	0.0000	0.37	Q				
27+43	0.0000	0.37	Q				
27+44	0.0000	0.37	Q				
27+45	0.0000	0.37	Q				
27+46	0.0000	0.37	Q				
27+47	0.0000	0.37	Q				
27+48	0.0000	0.36	Q				
27+49	0.0000	0.36	Q				
27+50	0.0000	0.36	Q				
27+51	0.0000	0.36	Q				
27+52	0.0000	0.36	Q				
27+53	0.0000	0.36	Q				
27+54	0.0000	0.36	Q				
27+55	0.0000	0.35	Q				
27+56	0.0000	0.35	Q				
27+57	0.0000	0.35	Q				
27+58	0.0000	0.35	Q				
27+59	0.0000	0.35	Q				
28+ 0	0.0000	0.35	Q				
28+ 1	0.0000	0.34	Q				
28+ 2	0.0000	0.34	Q				
28+ 3	0.0000	0.34	Q				
28+ 4	0.0000	0.34	Q				
28+ 5	0.0000	0.34	Q				
28+ 6	0.0000	0.34	Q				
28+ 7	0.0000	0.34	Q				
28+ 8	0.0000	0.33	Q				
28+ 9	0.0000	0.33	Q				
28+10	0.0000	0.33	Q				
28+11	0.0000	0.33	Q				
28+12	0.0000	0.33	Q				
28+13	0.0000	0.33	Q				
28+14	0.0000	0.33	Q				
28+15	0.0000	0.32	Q				
28+16	0.0000	0.32	Q				

28+17	0.0000	0.32	Q				
28+18	0.0000	0.32	Q				
28+19	0.0000	0.32	Q				
28+20	0.0000	0.32	Q				
28+21	0.0000	0.32	Q				
28+22	0.0000	0.32	Q				
28+23	0.0000	0.31	Q				
28+24	0.0000	0.31	Q				
28+25	0.0000	0.31	Q				
28+26	0.0000	0.31	Q				
28+27	0.0000	0.31	Q				
28+28	0.0000	0.31	Q				
28+29	0.0000	0.31	Q				
28+30	0.0000	0.30	Q				
28+31	0.0000	0.30	Q				
28+32	0.0000	0.30	Q				
28+33	0.0000	0.30	Q				
28+34	0.0000	0.30	Q				
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28+36	0.0000	0.30	Q				
28+37	0.0000	0.30	Q				
28+38	0.0000	0.29	Q				
28+39	0.0000	0.29	Q				
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28+42	0.0000	0.29	Q				
28+43	0.0000	0.29	Q				
28+44	0.0000	0.29	Q				
28+45	0.0000	0.29	Q				
28+46	0.0000	0.28	Q				
28+47	0.0000	0.28	Q				
28+48	0.0000	0.28	Q				
28+49	0.0000	0.28	Q				
28+50	0.0000	0.28	Q				
28+51	0.0000	0.28	Q				
28+52	0.0000	0.28	Q				
28+53	0.0000	0.28	Q				
28+54	0.0000	0.28	Q				
28+55	0.0000	0.27	Q				
28+56	0.0000	0.27	Q				
28+57	0.0000	0.27	Q				
28+58	0.0000	0.27	Q				
28+59	0.0000	0.27	Q				
29+ 0	0.0000	0.27	Q				
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29+ 2	0.0000	0.27	Q				
29+ 3	0.0000	0.26	Q				
29+ 4	0.0000	0.26	Q				
29+ 5	0.0000	0.26	Q				
29+ 6	0.0000	0.26	Q				
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29+ 8	0.0000	0.26	Q				
29+ 9	0.0000	0.26	Q				
29+10	0.0000	0.26	Q				
29+11	0.0000	0.26	Q				
29+12	0.0000	0.25	Q				
29+13	0.0000	0.25	Q				
29+14	0.0000	0.25	Q				
29+15	0.0000	0.25	Q				
29+16	0.0000	0.25	Q				
29+17	0.0000	0.25	Q				
29+18	0.0000	0.25	Q				
29+19	0.0000	0.25	Q				
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29+26	0.0000	0.24	Q				
29+27	0.0000	0.24	Q				

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29+29	0.0000	0.24	Q				
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29+32	0.0000	0.23	Q				
29+33	0.0000	0.23	Q				
29+34	0.0000	0.23	Q				
29+35	0.0000	0.23	Q				
29+36	0.0000	0.23	Q				
29+37	0.0000	0.23	Q				
29+38	0.0000	0.23	Q				
29+39	0.0000	0.23	Q				
29+40	0.0000	0.23	Q				
29+41	0.0000	0.23	Q				
29+42	0.0000	0.22	Q				
29+43	0.0000	0.22	Q				
29+44	0.0000	0.22	Q				
29+45	0.0000	0.22	Q				
29+46	0.0000	0.22	Q				
29+47	0.0000	0.22	Q				
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29+53	0.0000	0.21	Q				
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29+55	0.0000	0.21	Q				
29+56	0.0000	0.21	Q				
29+57	0.0000	0.21	Q				
29+58	0.0000	0.21	Q				
29+59	0.0000	0.21	Q				
30+ 0	0.0000	0.21	Q				
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30+ 4	0.0000	0.20	Q				
30+ 5	0.0000	0.20	Q				
30+ 6	0.0000	0.20	Q				
30+ 7	0.0000	0.20	Q				
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30+10	0.0000	0.20	Q				
30+11	0.0000	0.20	Q				
30+12	0.0000	0.20	Q				
30+13	0.0000	0.20	Q				
30+14	0.0000	0.20	Q				
30+15	0.0000	0.19	Q				
30+16	0.0000	0.19	Q				
30+17	0.0000	0.19	Q				
30+18	0.0000	0.19	Q				
30+19	0.0000	0.19	Q				
30+20	0.0000	0.19	Q				
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30+22	0.0000	0.19	Q				
30+23	0.0000	0.19	Q				
30+24	0.0000	0.19	Q				
30+25	0.0000	0.19	Q				
30+26	0.0000	0.19	Q				
30+27	0.0000	0.18	Q				
30+28	0.0000	0.18	Q				
30+29	0.0000	0.18	Q				
30+30	0.0000	0.18	Q				
30+31	0.0000	0.18	Q				
30+32	0.0000	0.18	Q				
30+33	0.0000	0.18	Q				
30+34	0.0000	0.18	Q				
30+35	0.0000	0.18	Q				
30+36	0.0000	0.18	Q				
30+37	0.0000	0.18	Q				
30+38	0.0000	0.18	Q				

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30+40	0.0000	0.17	Q				
30+41	0.0000	0.17	Q				
30+42	0.0000	0.17	Q				
30+43	0.0000	0.17	Q				
30+44	0.0000	0.17	Q				
30+45	0.0000	0.17	Q				
30+46	0.0000	0.17	Q				
30+47	0.0000	0.17	Q				
30+48	0.0000	0.17	Q				
30+49	0.0000	0.17	Q				
30+50	0.0000	0.17	Q				
30+51	0.0000	0.17	Q				
30+52	0.0000	0.17	Q				
30+53	0.0000	0.17	Q				
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30+55	0.0000	0.16	Q				
30+56	0.0000	0.16	Q				
30+57	0.0000	0.16	Q				
30+58	0.0000	0.16	Q				
30+59	0.0000	0.16	Q				
31+ 0	0.0000	0.16	Q				
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31+14	0.0000	0.15	Q				
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31+16	0.0000	0.15	Q				
31+17	0.0000	0.15	Q				
31+18	0.0000	0.15	Q				
31+19	0.0000	0.15	Q				
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31+22	0.0000	0.15	Q				
31+23	0.0000	0.15	Q				
31+24	0.0000	0.14	Q				
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31+27	0.0000	0.14	Q				
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31+29	0.0000	0.14	Q				
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31+31	0.0000	0.14	Q				
31+32	0.0000	0.14	Q				
31+33	0.0000	0.14	Q				
31+34	0.0000	0.14	Q				
31+35	0.0000	0.14	Q				
31+36	0.0000	0.14	Q				
31+37	0.0000	0.14	Q				
31+38	0.0000	0.14	Q				
31+39	0.0000	0.14	Q				
31+40	0.0000	0.14	Q				
31+41	0.0000	0.13	Q				
31+42	0.0000	0.13	Q				
31+43	0.0000	0.13	Q				
31+44	0.0000	0.13	Q				
31+45	0.0000	0.13	Q				
31+46	0.0000	0.13	Q				
31+47	0.0000	0.13	Q				
31+48	0.0000	0.13	Q				
31+49	0.0000	0.13	Q				

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31+51	0.0000	0.13	Q				
31+52	0.0000	0.13	Q				
31+53	0.0000	0.13	Q				
31+54	0.0000	0.13	Q				
31+55	0.0000	0.13	Q				
31+56	0.0000	0.13	Q				
31+57	0.0000	0.13	Q				
31+58	0.0000	0.13	Q				
31+59	0.0000	0.12	Q				
32+ 0	0.0000	0.12	Q				
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32+ 7	0.0000	0.12	Q				
32+ 8	0.0000	0.12	Q				
32+ 9	0.0000	0.12	Q				
32+10	0.0000	0.12	Q				
32+11	0.0000	0.12	Q				
32+12	0.0000	0.12	Q				
32+13	0.0000	0.12	Q				
32+14	0.0000	0.12	Q				
32+15	0.0000	0.12	Q				
32+16	0.0000	0.12	Q				
32+17	0.0000	0.12	Q				
32+18	0.0000	0.12	Q				
32+19	0.0000	0.11	Q				
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32+22	0.0000	0.11	Q				
32+23	0.0000	0.11	Q				
32+24	0.0000	0.11	Q				
32+25	0.0000	0.11	Q				
32+26	0.0000	0.11	Q				
32+27	0.0000	0.11	Q				
32+28	0.0000	0.11	Q				
32+29	0.0000	0.11	Q				
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32+36	0.0000	0.11	Q				
32+37	0.0000	0.11	Q				
32+38	0.0000	0.11	Q				
32+39	0.0000	0.11	Q				
32+40	0.0000	0.10	Q				
32+41	0.0000	0.10	Q				
32+42	0.0000	0.10	Q				
32+43	0.0000	0.10	Q				
32+44	0.0000	0.10	Q				
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32+53	0.0000	0.10	Q				
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32+56	0.0000	0.10	Q				
32+57	0.0000	0.10	Q				
32+58	0.0000	0.10	Q				
32+59	0.0000	0.10	Q				
33+ 0	0.0000	0.10	Q				

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33+ 7	0.0000	0.09	Q				
33+ 8	0.0000	0.09	Q				
33+ 9	0.0000	0.09	Q				
33+10	0.0000	0.09	Q				
33+11	0.0000	0.09	Q				
33+12	0.0000	0.09	Q				
33+13	0.0000	0.09	Q				
33+14	0.0000	0.09	Q				
33+15	0.0000	0.09	Q				
33+16	0.0000	0.09	Q				
33+17	0.0000	0.09	Q				
33+18	0.0000	0.09	Q				
33+19	0.0000	0.09	Q				
33+20	0.0000	0.09	Q				
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33+22	0.0000	0.09	Q				
33+23	0.0000	0.09	Q				
33+24	0.0000	0.09	Q				
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33+29	0.0000	0.09	Q				
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33+44	0.0000	0.08	Q				
33+45	0.0000	0.08	Q				
33+46	0.0000	0.08	Q				
33+47	0.0000	0.08	Q				
33+48	0.0000	0.08	Q				
33+49	0.0000	0.08	Q				
33+50	0.0000	0.08	Q				
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33+52	0.0000	0.08	Q				
33+53	0.0000	0.08	Q				
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33+56	0.0000	0.08	Q				
33+57	0.0000	0.08	Q				
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33+59	0.0000	0.07	Q				
34+ 0	0.0000	0.07	Q				
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34+ 4	0.0000	0.07	Q				
34+ 5	0.0000	0.07	Q				
34+ 6	0.0000	0.07	Q				
34+ 7	0.0000	0.07	Q				
34+ 8	0.0000	0.07	Q				
34+ 9	0.0000	0.07	Q				
34+10	0.0000	0.07	Q				
34+11	0.0000	0.07	Q				

34+12	0.0000	0.07	Q				
34+13	0.0000	0.07	Q				
34+14	0.0000	0.07	Q				
34+15	0.0000	0.07	Q				
34+16	0.0000	0.07	Q				
34+17	0.0000	0.07	Q				
34+18	0.0000	0.07	Q				
34+19	0.0000	0.07	Q				
34+20	0.0000	0.07	Q				
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34+22	0.0000	0.07	Q				
34+23	0.0000	0.07	Q				
34+24	0.0000	0.07	Q				
34+25	0.0000	0.07	Q				
34+26	0.0000	0.07	Q				
34+27	0.0000	0.07	Q				
34+28	0.0000	0.07	Q				
34+29	0.0000	0.07	Q				
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34+35	0.0000	0.06	Q				
34+36	0.0000	0.06	Q				
34+37	0.0000	0.06	Q				
34+38	0.0000	0.06	Q				
34+39	0.0000	0.06	Q				
34+40	0.0000	0.06	Q				
34+41	0.0000	0.06	Q				
34+42	0.0000	0.06	Q				
34+43	0.0000	0.06	Q				
34+44	0.0000	0.06	Q				
34+45	0.0000	0.06	Q				
34+46	0.0000	0.06	Q				
34+47	0.0000	0.06	Q				
34+48	0.0000	0.06	Q				
34+49	0.0000	0.06	Q				
34+50	0.0000	0.06	Q				
34+51	0.0000	0.06	Q				
34+52	0.0000	0.06	Q				
34+53	0.0000	0.06	Q				
34+54	0.0000	0.06	Q				
34+55	0.0000	0.06	Q				
34+56	0.0000	0.06	Q				
34+57	0.0000	0.06	Q				
34+58	0.0000	0.06	Q				
34+59	0.0000	0.06	Q				
35+ 0	0.0000	0.06	Q				
35+ 1	0.0000	0.06	Q				
35+ 2	0.0000	0.06	Q				
35+ 3	0.0000	0.06	Q				
35+ 4	0.0000	0.06	Q				
35+ 5	0.0000	0.06	Q				
35+ 6	0.0000	0.06	Q				
35+ 7	0.0000	0.06	Q				
35+ 8	0.0000	0.06	Q				
35+ 9	0.0000	0.06	Q				
35+10	0.0000	0.06	Q				
35+11	0.0000	0.06	Q				
35+12	0.0000	0.05	Q				
35+13	0.0000	0.05	Q				
35+14	0.0000	0.05	Q				
35+15	0.0000	0.05	Q				
35+16	0.0000	0.05	Q				
35+17	0.0000	0.05	Q				
35+18	0.0000	0.05	Q				
35+19	0.0000	0.05	Q				
35+20	0.0000	0.05	Q				
35+21	0.0000	0.05	Q				
35+22	0.0000	0.05	Q				

36+34	0.0000	0.04	Q				
36+35	0.0000	0.04	Q				
36+36	0.0000	0.04	Q				
36+37	0.0000	0.04	Q				
36+38	0.0000	0.04	Q				
36+39	0.0000	0.04	Q				
36+40	0.0000	0.04	Q				
36+41	0.0000	0.04	Q				
36+42	0.0000	0.04	Q				
36+43	0.0000	0.04	Q				
36+44	0.0000	0.04	Q				
36+45	0.0000	0.04	Q				
36+46	0.0000	0.04	Q				
36+47	0.0000	0.04	Q				
36+48	0.0000	0.04	Q				
36+49	0.0000	0.04	Q				
36+50	0.0000	0.04	Q				
36+51	0.0000	0.04	Q				
36+52	0.0000	0.04	Q				
36+53	0.0000	0.04	Q				
36+54	0.0000	0.04	Q				
36+55	0.0000	0.04	Q				
36+56	0.0000	0.04	Q				
36+57	0.0000	0.03	Q				
36+58	0.0000	0.03	Q				
36+59	0.0000	0.03	Q				
37+ 0	0.0000	0.03	Q				
37+ 1	0.0000	0.03	Q				
37+ 2	0.0000	0.03	Q				
37+ 3	0.0000	0.03	Q				
37+ 4	0.0000	0.03	Q				
37+ 5	0.0000	0.03	Q				
37+ 6	0.0000	0.03	Q				
37+ 7	0.0000	0.03	Q				
37+ 8	0.0000	0.03	Q				
37+ 9	0.0000	0.03	Q				
37+10	0.0000	0.03	Q				
37+11	0.0000	0.03	Q				
37+12	0.0000	0.03	Q				
37+13	0.0000	0.03	Q				
37+14	0.0000	0.03	Q				
37+15	0.0000	0.03	Q				
37+16	0.0000	0.03	Q				
37+17	0.0000	0.03	Q				
37+18	0.0000	0.03	Q				
37+19	0.0000	0.03	Q				
37+20	0.0000	0.03	Q				
37+21	0.0000	0.03	Q				
37+22	0.0000	0.03	Q				
37+23	0.0000	0.03	Q				
37+24	0.0000	0.03	Q				
37+25	0.0000	0.03	Q				
37+26	0.0000	0.03	Q				
37+27	0.0000	0.03	Q				
37+28	0.0000	0.03	Q				
37+29	0.0000	0.03	Q				
37+30	0.0000	0.03	Q				
37+31	0.0000	0.03	Q				
37+32	0.0000	0.03	Q				
37+33	0.0000	0.03	Q				
37+34	0.0000	0.03	Q				
37+35	0.0000	0.03	Q				
37+36	0.0000	0.03	Q				
37+37	0.0000	0.03	Q				
37+38	0.0000	0.03	Q				
37+39	0.0000	0.03	Q				
37+40	0.0000	0.03	Q				
37+41	0.0000	0.03	Q				
37+42	0.0000	0.03	Q				
37+43	0.0000	0.03	Q				
37+44	0.0000	0.03	Q				

38+56	0.0000	0.02	Q				
38+57	0.0000	0.02	Q				
38+58	0.0000	0.02	Q				
38+59	0.0000	0.02	Q				
39+ 0	0.0000	0.02	Q				
39+ 1	0.0000	0.02	Q				
39+ 2	0.0000	0.02	Q				
39+ 3	0.0000	0.02	Q				
39+ 4	0.0000	0.02	Q				
39+ 5	0.0000	0.02	Q				
39+ 6	0.0000	0.02	Q				
39+ 7	0.0000	0.02	Q				
39+ 8	0.0000	0.02	Q				
39+ 9	0.0000	0.02	Q				
39+10	0.0000	0.02	Q				
39+11	0.0000	0.02	Q				
39+12	0.0000	0.02	Q				
39+13	0.0000	0.02	Q				
39+14	0.0000	0.02	Q				
39+15	0.0000	0.02	Q				
39+16	0.0000	0.02	Q				
39+17	0.0000	0.02	Q				
39+18	0.0000	0.02	Q				
39+19	0.0000	0.02	Q				
39+20	0.0000	0.02	Q				
39+21	0.0000	0.02	Q				
39+22	0.0000	0.02	Q				
39+23	0.0000	0.02	Q				
39+24	0.0000	0.02	Q				
39+25	0.0000	0.02	Q				
39+26	0.0000	0.02	Q				
39+27	0.0000	0.02	Q				
39+28	0.0000	0.02	Q				
39+29	0.0000	0.02	Q				
39+30	0.0000	0.02	Q				
39+31	0.0000	0.02	Q				
39+32	0.0000	0.02	Q				
39+33	0.0000	0.02	Q				
39+34	0.0000	0.02	Q				
39+35	0.0000	0.02	Q				
39+36	0.0000	0.02	Q				
39+37	0.0000	0.02	Q				
39+38	0.0000	0.02	Q				
39+39	0.0000	0.02	Q				
39+40	0.0000	0.02	Q				
39+41	0.0000	0.02	Q				
39+42	0.0000	0.02	Q				
39+43	0.0000	0.02	Q				
39+44	0.0000	0.02	Q				
39+45	0.0000	0.02	Q				
39+46	0.0000	0.02	Q				
39+47	0.0000	0.02	Q				
39+48	0.0000	0.02	Q				
39+49	0.0000	0.02	Q				
39+50	0.0000	0.02	Q				
39+51	0.0000	0.02	Q				
39+52	0.0000	0.02	Q				
39+53	0.0000	0.02	Q				
39+54	0.0000	0.02	Q				
39+55	0.0000	0.02	Q				
39+56	0.0000	0.02	Q				
39+57	0.0000	0.02	Q				
39+58	0.0000	0.02	Q				
39+59	0.0000	0.02	Q				
40+ 0	0.0000	0.02	Q				
40+ 1	0.0000	0.02	Q				
40+ 2	0.0000	0.02	Q				
40+ 3	0.0000	0.02	Q				
40+ 4	0.0000	0.02	Q				
40+ 5	0.0000	0.02	Q				
40+ 6	0.0000	0.02	Q				

41+18	0.0000	0.01	Q				
41+19	0.0000	0.01	Q				
41+20	0.0000	0.01	Q				
41+21	0.0000	0.01	Q				
41+22	0.0000	0.01	Q				
41+23	0.0000	0.01	Q				
41+24	0.0000	0.01	Q				
41+25	0.0000	0.01	Q				
41+26	0.0000	0.01	Q				
41+27	0.0000	0.01	Q				
41+28	0.0000	0.01	Q				
41+29	0.0000	0.01	Q				
41+30	0.0000	0.01	Q				
41+31	0.0000	0.01	Q				
41+32	0.0000	0.01	Q				
41+33	0.0000	0.01	Q				
41+34	0.0000	0.01	Q				
41+35	0.0000	0.01	Q				
41+36	0.0000	0.01	Q				
41+37	0.0000	0.01	Q				
41+38	0.0000	0.01	Q				
41+39	0.0000	0.01	Q				
41+40	0.0000	0.01	Q				
41+41	0.0000	0.01	Q				
41+42	0.0000	0.01	Q				
41+43	0.0000	0.01	Q				
41+44	0.0000	0.01	Q				
41+45	0.0000	0.01	Q				
41+46	0.0000	0.01	Q				
41+47	0.0000	0.01	Q				
41+48	0.0000	0.01	Q				
41+49	0.0000	0.01	Q				
41+50	0.0000	0.01	Q				
41+51	0.0000	0.01	Q				
41+52	0.0000	0.01	Q				
41+53	0.0000	0.01	Q				
41+54	0.0000	0.01	Q				
41+55	0.0000	0.01	Q				
41+56	0.0000	0.01	Q				
41+57	0.0000	0.01	Q				
41+58	0.0000	0.01	Q				
41+59	0.0000	0.01	Q				
42+ 0	0.0000	0.01	Q				
42+ 1	0.0000	0.01	Q				
42+ 2	0.0000	0.01	Q				
42+ 3	0.0000	0.01	Q				
42+ 4	0.0000	0.01	Q				
42+ 5	0.0000	0.01	Q				
42+ 6	0.0000	0.01	Q				
42+ 7	0.0000	0.01	Q				
42+ 8	0.0000	0.01	Q				
42+ 9	0.0000	0.01	Q				
42+10	0.0000	0.01	Q				
42+11	0.0000	0.01	Q				
42+12	0.0000	0.01	Q				
42+13	0.0000	0.01	Q				
42+14	0.0000	0.01	Q				
42+15	0.0000	0.01	Q				
42+16	0.0000	0.01	Q				
42+17	0.0000	0.01	Q				
42+18	0.0000	0.01	Q				
42+19	0.0000	0.01	Q				
42+20	0.0000	0.01	Q				
42+21	0.0000	0.01	Q				
42+22	0.0000	0.01	Q				
42+23	0.0000	0.01	Q				
42+24	0.0000	0.01	Q				
42+25	0.0000	0.01	Q				
42+26	0.0000	0.01	Q				
42+27	0.0000	0.01	Q				
42+28	0.0000	0.01	Q				

47+13	0.0000	0.00	Q				
47+14	0.0000	0.00	Q				
47+15	0.0000	0.00	Q				
47+16	0.0000	0.00	Q				
47+17	0.0000	0.00	Q				
47+18	0.0000	0.00	Q				
47+19	0.0000	0.00	Q				
47+20	0.0000	0.00	Q				
47+21	0.0000	0.00	Q				
47+22	0.0000	0.00	Q				
47+23	0.0000	0.00	Q				
47+24	0.0000	0.00	Q				
47+25	0.0000	0.00	Q				
47+26	0.0000	0.00	Q				
47+27	0.0000	0.00	Q				
47+28	0.0000	0.00	Q				
47+29	0.0000	0.00	Q				
47+30	0.0000	0.00	Q				
47+31	0.0000	0.00	Q				
47+32	0.0000	0.00	Q				
47+33	0.0000	0.00	Q				
47+34	0.0000	0.00	Q				
47+35	0.0000	0.00	Q				
47+36	0.0000	0.00	Q				
47+37	0.0000	0.00	Q				
47+38	0.0000	0.00	Q				
47+39	0.0000	0.00	Q				
47+40	0.0000	0.00	Q				
47+41	0.0000	0.00	Q				
47+42	0.0000	0.00	Q				
47+43	0.0000	0.00	Q				
47+44	0.0000	0.00	Q				
47+45	0.0000	0.00	Q				
47+46	0.0000	0.00	Q				
47+47	0.0000	0.00	Q				

*****HYDROGRAPH DATA*****

Number of intervals = 2867
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 55.840 (CFS)
Total volume = 12.401 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++

Process from Point/Station 727.000 to Point/Station 727.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****

Current stream hydrograph saved in file 100160rteundbas2bas6.rte

*****HYDROGRAPH DATA*****

Number of intervals = 0
Time interval = 0.0 (Min.)
Maximum/Peak flow rate = 0.000 (CFS)
Total volume = 0.000 (Ac.Ft)
Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/15/24

 Sunroad 200 Otay Mesa San Diego County
 Proposed Condition Basin 7
 100160rtebas7

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160prratbas7.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 362
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 14.713 (CFS)
 Total volume = 0.621 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

+++++
 Process from Point/Station 0.000 to Point/Station 0.000
 **** RETARDING BASIN ROUTING ****

User entry of depth-outflow-storage data

Total number of inflow hydrograph intervals = 362
 Hydrograph time unit = 1.000 (Min.)
 Initial depth in storage basin = 4.50(Ft.)

Initial basin depth = 4.50 (Ft.)
 Initial basin storage = 0.44 (Ac.Ft)
 Initial basin outflow = 0.06 (CFS)

Depth vs. Storage and Depth vs. Discharge data:

Basin Depth (Ft.)	Storage (Ac.Ft)	Outflow (CFS)	(S-O*dt/2) (Ac.Ft)	(S+O*dt/2) (Ac.Ft)
0.000	0.000	0.000	0.000	0.000
1.000	0.070	0.037	0.070	0.070
1.500	0.110	0.043	0.110	0.110
2.500	0.180	0.050	0.180	0.180
3.500	0.250	0.056	0.250	0.250
4.500	0.440	0.062	0.440	0.440
5.500	0.660	0.068	0.660	0.660
6.500	0.920	0.073	0.920	0.920
7.500	1.210	0.078	1.210	1.210
8.500	1.540	0.082	1.540	1.540
9.500	1.910	19.843	1.896	1.924

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	3.7	7.36	11.04	14.71	Depth (Ft.)
0.017	0.25	0.06	0.440	O					4.50
0.033	0.49	0.06	0.440	OI					4.50
0.050	0.49	0.06	0.441	OI					4.50
0.067	0.50	0.06	0.442	OI					4.51
0.083	0.50	0.06	0.442	OI					4.51
0.100	0.50	0.06	0.443	OI					4.51
0.117	0.50	0.06	0.443	OI					4.52
0.133	0.50	0.06	0.444	OI					4.52
0.150	0.50	0.06	0.445	OI					4.52
0.167	0.51	0.06	0.445	OI					4.52
0.183	0.51	0.06	0.446	OI					4.53
0.200	0.51	0.06	0.447	OI					4.53
0.217	0.51	0.06	0.447	OI					4.53
0.233	0.51	0.06	0.448	OI					4.54
0.250	0.51	0.06	0.448	OI					4.54
0.267	0.51	0.06	0.449	OI					4.54
0.283	0.51	0.06	0.450	OI					4.54
0.300	0.52	0.06	0.450	OI					4.55
0.317	0.52	0.06	0.451	OI					4.55
0.333	0.52	0.06	0.451	OI					4.55
0.350	0.52	0.06	0.452	OI					4.56
0.367	0.52	0.06	0.453	OI					4.56
0.383	0.52	0.06	0.453	OI					4.56
0.400	0.52	0.06	0.454	OI					4.56
0.417	0.53	0.06	0.455	OI					4.57
0.433	0.53	0.06	0.455	OI					4.57
0.450	0.53	0.06	0.456	OI					4.57
0.467	0.53	0.06	0.457	OI					4.58
0.483	0.53	0.06	0.457	OI					4.58
0.500	0.54	0.06	0.458	OI					4.58
0.517	0.54	0.06	0.459	OI					4.58
0.533	0.54	0.06	0.459	OI					4.59
0.550	0.54	0.06	0.460	OI					4.59
0.567	0.54	0.06	0.460	OI					4.59
0.583	0.54	0.06	0.461	OI					4.60
0.600	0.54	0.06	0.462	OI					4.60
0.617	0.55	0.06	0.462	OI					4.60
0.633	0.55	0.06	0.463	OI					4.61
0.650	0.55	0.06	0.464	OI					4.61
0.667	0.55	0.06	0.464	OI					4.61
0.683	0.55	0.06	0.465	OI					4.61
0.700	0.56	0.06	0.466	OI					4.62
0.717	0.56	0.06	0.467	OI					4.62
0.733	0.56	0.06	0.467	OI					4.62
0.750	0.56	0.06	0.468	OI					4.63
0.767	0.56	0.06	0.469	OI					4.63
0.783	0.56	0.06	0.469	OI					4.63
0.800	0.57	0.06	0.470	OI					4.64
0.817	0.57	0.06	0.471	OI					4.64
0.833	0.57	0.06	0.471	OI					4.64
0.850	0.57	0.06	0.472	OI					4.65
0.867	0.57	0.06	0.473	OI					4.65
0.883	0.58	0.06	0.473	OI					4.65
0.900	0.58	0.06	0.474	OI					4.66
0.917	0.58	0.06	0.475	OI					4.66
0.933	0.58	0.06	0.476	OI					4.66
0.950	0.58	0.06	0.476	OI					4.67
0.967	0.59	0.06	0.477	OI					4.67
0.983	0.59	0.06	0.478	OI					4.67
1.000	0.59	0.06	0.478	OI					4.67
1.017	0.59	0.06	0.479	OI					4.68
1.033	0.60	0.06	0.480	OI					4.68
1.050	0.60	0.06	0.481	OI					4.68
1.067	0.60	0.06	0.481	OI					4.69
1.083	0.60	0.06	0.482	OI					4.69
1.100	0.60	0.06	0.483	OI					4.69
1.117	0.61	0.06	0.484	OI					4.70
1.133	0.61	0.06	0.484	OI					4.70

1.150	0.61	0.06	0.485	OI					4.71
1.167	0.61	0.06	0.486	OI					4.71
1.183	0.61	0.06	0.487	OI					4.71
1.200	0.62	0.06	0.487	OI					4.72
1.217	0.62	0.06	0.488	OI					4.72
1.233	0.62	0.06	0.489	OI					4.72
1.250	0.62	0.06	0.490	OI					4.73
1.267	0.63	0.06	0.490	OI					4.73
1.283	0.63	0.06	0.491	OI					4.73
1.300	0.63	0.06	0.492	OI					4.74
1.317	0.63	0.06	0.493	OI					4.74
1.333	0.64	0.06	0.494	OI					4.74
1.350	0.64	0.06	0.494	OI					4.75
1.367	0.64	0.06	0.495	OI					4.75
1.383	0.64	0.06	0.496	OI					4.75
1.400	0.65	0.06	0.497	OI					4.76
1.417	0.65	0.06	0.498	OI					4.76
1.433	0.65	0.06	0.498	OI					4.77
1.450	0.65	0.06	0.499	OI					4.77
1.467	0.66	0.06	0.500	OI					4.77
1.483	0.66	0.06	0.501	OI					4.78
1.500	0.66	0.06	0.502	OI					4.78
1.517	0.67	0.06	0.503	OI					4.78
1.533	0.67	0.06	0.503	OI					4.79
1.550	0.67	0.06	0.504	OI					4.79
1.567	0.68	0.06	0.505	OI					4.80
1.583	0.68	0.06	0.506	OI					4.80
1.600	0.68	0.06	0.507	OI					4.80
1.617	0.68	0.06	0.508	OI					4.81
1.633	0.69	0.06	0.508	OI					4.81
1.650	0.69	0.06	0.509	OI					4.81
1.667	0.69	0.06	0.510	OI					4.82
1.683	0.70	0.06	0.511	OI					4.82
1.700	0.70	0.06	0.512	OI					4.83
1.717	0.70	0.06	0.513	OI					4.83
1.733	0.70	0.06	0.514	OI					4.83
1.750	0.71	0.06	0.515	OI					4.84
1.767	0.71	0.06	0.515	OI					4.84
1.783	0.72	0.06	0.516	OI					4.85
1.800	0.72	0.06	0.517	OI					4.85
1.817	0.72	0.06	0.518	OI					4.86
1.833	0.73	0.06	0.519	OI					4.86
1.850	0.73	0.06	0.520	OI					4.86
1.867	0.73	0.06	0.521	OI					4.87
1.883	0.74	0.06	0.522	OI					4.87
1.900	0.74	0.06	0.523	OI					4.88
1.917	0.74	0.06	0.524	OI					4.88
1.933	0.75	0.06	0.525	OI					4.88
1.950	0.75	0.06	0.526	OI					4.89
1.967	0.76	0.06	0.526	OI					4.89
1.983	0.76	0.06	0.527	OI					4.90
2.000	0.76	0.06	0.528	OI					4.90
2.017	0.77	0.06	0.529	OI					4.91
2.033	0.77	0.06	0.530	OI					4.91
2.050	0.78	0.06	0.531	OI					4.92
2.067	0.78	0.06	0.532	OI					4.92
2.083	0.79	0.06	0.533	OI					4.92
2.100	0.79	0.06	0.534	OI					4.93
2.117	0.79	0.06	0.535	OI					4.93
2.133	0.80	0.06	0.536	OI					4.94
2.150	0.80	0.06	0.537	OI					4.94
2.167	0.81	0.06	0.538	OI					4.95
2.183	0.81	0.06	0.539	OI					4.95
2.200	0.82	0.06	0.540	OI					4.96
2.217	0.82	0.06	0.541	OI					4.96
2.233	0.83	0.06	0.542	OI					4.97
2.250	0.83	0.06	0.544	OI					4.97
2.267	0.84	0.06	0.545	OI					4.98
2.283	0.84	0.06	0.546	OI					4.98
2.300	0.85	0.06	0.547	OI					4.99
2.317	0.85	0.06	0.548	OI					4.99

2.333	0.86	0.06	0.549	OI					5.00
2.350	0.86	0.06	0.550	OI					5.00
2.367	0.87	0.07	0.551	OI					5.01
2.383	0.88	0.07	0.552	OI					5.01
2.400	0.88	0.07	0.553	OI					5.02
2.417	0.89	0.07	0.554	OI					5.02
2.433	0.89	0.07	0.556	OI					5.03
2.450	0.90	0.07	0.557	OI					5.03
2.467	0.90	0.07	0.558	OI					5.04
2.483	0.91	0.07	0.559	OI					5.04
2.500	0.92	0.07	0.560	O I					5.05
2.517	0.92	0.07	0.561	O I					5.05
2.533	0.93	0.07	0.563	O I					5.06
2.550	0.94	0.07	0.564	O I					5.06
2.567	0.95	0.07	0.565	O I					5.07
2.583	0.95	0.07	0.566	O I					5.07
2.600	0.96	0.07	0.567	O I					5.08
2.617	0.97	0.07	0.569	O I					5.08
2.633	0.98	0.07	0.570	O I					5.09
2.650	0.98	0.07	0.571	O I					5.10
2.667	0.99	0.07	0.572	O I					5.10
2.683	1.00	0.07	0.574	O I					5.11
2.700	1.01	0.07	0.575	O I					5.11
2.717	1.01	0.07	0.576	O I					5.12
2.733	1.02	0.07	0.578	O I					5.13
2.750	1.03	0.07	0.579	O I					5.13
2.767	1.04	0.07	0.580	O I					5.14
2.783	1.05	0.07	0.582	O I					5.14
2.800	1.05	0.07	0.583	O I					5.15
2.817	1.07	0.07	0.584	O I					5.16
2.833	1.08	0.07	0.586	O I					5.16
2.850	1.09	0.07	0.587	O I					5.17
2.867	1.09	0.07	0.589	O I					5.18
2.883	1.11	0.07	0.590	O I					5.18
2.900	1.12	0.07	0.591	O I					5.19
2.917	1.13	0.07	0.593	O I					5.19
2.933	1.13	0.07	0.594	O I					5.20
2.950	1.15	0.07	0.596	O I					5.21
2.967	1.16	0.07	0.597	O I					5.22
2.983	1.17	0.07	0.599	O I					5.22
3.000	1.18	0.07	0.600	O I					5.23
3.017	1.20	0.07	0.602	O I					5.24
3.033	1.21	0.07	0.603	O I					5.24
3.050	1.22	0.07	0.605	O I					5.25
3.067	1.23	0.07	0.607	O I					5.26
3.083	1.25	0.07	0.608	O I					5.26
3.100	1.27	0.07	0.610	O I					5.27
3.117	1.28	0.07	0.612	O I					5.28
3.133	1.29	0.07	0.613	O I					5.29
3.150	1.31	0.07	0.615	O I					5.30
3.167	1.33	0.07	0.617	O I					5.30
3.183	1.35	0.07	0.618	O I					5.31
3.200	1.36	0.07	0.620	O I					5.32
3.217	1.38	0.07	0.622	O I					5.33
3.233	1.41	0.07	0.624	O I					5.34
3.250	1.42	0.07	0.626	O I					5.34
3.267	1.43	0.07	0.628	O I					5.35
3.283	1.46	0.07	0.629	O I					5.36
3.300	1.49	0.07	0.631	O I					5.37
3.317	1.50	0.07	0.633	O I					5.38
3.333	1.52	0.07	0.635	O I					5.39
3.350	1.55	0.07	0.637	O I					5.40
3.367	1.58	0.07	0.639	O I					5.41
3.383	1.60	0.07	0.642	O I					5.42
3.400	1.62	0.07	0.644	O I					5.43
3.417	1.66	0.07	0.646	O I					5.44
3.433	1.70	0.07	0.648	O I					5.45
3.450	1.72	0.07	0.650	O I					5.46
3.467	1.74	0.07	0.653	O I					5.47
3.483	1.79	0.07	0.655	O I					5.48
3.500	1.83	0.07	0.657	O I					5.49

3.517	1.86	0.07	0.660	O	I					5.50
3.533	1.89	0.07	0.662	O	I					5.51
3.550	1.94	0.07	0.665	O	I					5.52
3.567	2.00	0.07	0.667	O	I					5.53
3.583	2.04	0.07	0.670	O	I					5.54
3.600	2.07	0.07	0.673	O	I					5.55
3.617	2.14	0.07	0.676	O	I					5.56
3.633	2.22	0.07	0.679	O	I					5.57
3.650	2.26	0.07	0.682	O	I					5.58
3.667	2.30	0.07	0.685	O	I					5.59
3.683	2.40	0.07	0.688	O	I					5.61
3.700	2.50	0.07	0.691	O	I					5.62
3.717	2.56	0.07	0.694	O	I					5.63
3.733	2.62	0.07	0.698	O	I					5.65
3.750	2.77	0.07	0.702	O	I					5.66
3.767	2.91	0.07	0.705	O	I					5.67
3.783	3.00	0.07	0.709	O	I					5.69
3.800	3.08	0.07	0.713	O	I					5.71
3.817	3.31	0.07	0.718	O	I					5.72
3.833	3.54	0.07	0.722	O	I					5.74
3.850	3.68	0.07	0.727	O	I					5.76
3.867	3.83	0.07	0.732	O	I					5.78
3.883	4.26	0.07	0.738	O	I					5.80
3.900	4.69	0.07	0.744	O	I					5.82
3.917	5.01	0.07	0.750	O	I					5.85
3.933	5.34	0.07	0.757	O	I					5.87
3.950	6.59	0.07	0.766	O	I		I			5.91
3.967	7.84	0.07	0.775	O	I		I			5.94
3.983	9.44	0.07	0.787	O	I		I			5.99
4.000	11.04	0.07	0.801	O	I		I			6.04
4.017	12.88	0.07	0.818	O	I		I		I	6.11
4.033	14.71	0.07	0.836	O	I		I		I	6.18
4.050	10.50	0.07	0.854	O	I		I		I	6.25
4.067	6.29	0.07	0.865	O	I		I		I	6.29
4.083	5.25	0.07	0.873	O	I		I		I	6.32
4.100	4.21	0.07	0.879	O	I		I		I	6.34
4.117	3.75	0.07	0.885	O	I		I		I	6.36
4.133	3.29	0.07	0.890	O	I		I		I	6.38
4.150	3.02	0.07	0.894	O	I		I		I	6.40
4.167	2.76	0.07	0.898	O	I		I		I	6.41
4.183	2.58	0.07	0.901	O	I		I		I	6.43
4.200	2.40	0.07	0.905	O	I		I		I	6.44
4.217	2.27	0.07	0.908	O	I		I		I	6.45
4.233	2.14	0.07	0.911	O	I		I		I	6.46
4.250	2.04	0.07	0.913	O	I		I		I	6.47
4.267	1.94	0.07	0.916	O	I		I		I	6.48
4.283	1.86	0.07	0.919	O	I		I		I	6.49
4.300	1.79	0.07	0.921	O	I		I		I	6.50
4.317	1.72	0.07	0.923	O	I		I		I	6.51
4.333	1.66	0.07	0.926	O	I		I		I	6.52
4.350	1.60	0.07	0.928	O	I		I		I	6.53
4.367	1.55	0.07	0.930	O	I		I		I	6.53
4.383	1.50	0.07	0.932	O	I		I		I	6.54
4.400	1.46	0.07	0.934	O	I		I		I	6.55
4.417	1.42	0.07	0.936	O	I		I		I	6.55
4.433	1.38	0.07	0.937	O	I		I		I	6.56
4.450	1.35	0.07	0.939	O	I		I		I	6.57
4.467	1.31	0.07	0.941	O	I		I		I	6.57
4.483	1.28	0.07	0.943	O	I		I		I	6.58
4.500	1.25	0.07	0.944	O	I		I		I	6.58
4.517	1.22	0.07	0.946	O	I		I		I	6.59
4.533	1.20	0.07	0.947	O	I		I		I	6.59
4.550	1.17	0.07	0.949	O	I		I		I	6.60
4.567	1.15	0.07	0.950	O	I		I		I	6.61
4.583	1.13	0.07	0.952	O	I		I		I	6.61
4.600	1.11	0.07	0.953	O	I		I		I	6.62
4.617	1.09	0.07	0.955	O	I		I		I	6.62
4.633	1.07	0.07	0.956	O	I		I		I	6.62
4.650	1.05	0.07	0.958	O	I		I		I	6.63
4.667	1.03	0.07	0.959	O	I		I		I	6.63
4.683	1.01	0.07	0.960	O	I		I		I	6.64

4.700	1.00	0.07	0.961	O I					6.64
4.717	0.98	0.07	0.963	O I					6.65
4.733	0.97	0.07	0.964	O I					6.65
4.750	0.95	0.07	0.965	O I					6.66
4.767	0.94	0.07	0.966	O I					6.66
4.783	0.92	0.07	0.968	O I					6.66
4.800	0.91	0.07	0.969	O I					6.67
4.817	0.90	0.07	0.970	O I					6.67
4.833	0.89	0.07	0.971	O I					6.68
4.850	0.88	0.07	0.972	O I					6.68
4.867	0.86	0.07	0.973	O I					6.68
4.883	0.85	0.07	0.974	O I					6.69
4.900	0.84	0.07	0.975	O I					6.69
4.917	0.83	0.07	0.976	O I					6.69
4.933	0.82	0.07	0.977	O I					6.70
4.950	0.81	0.07	0.978	O I					6.70
4.967	0.80	0.07	0.979	O I					6.70
4.983	0.79	0.07	0.980	O I					6.71
5.000	0.79	0.07	0.981	O I					6.71
5.017	0.78	0.07	0.982	O I					6.72
5.033	0.77	0.07	0.983	O I					6.72
5.050	0.76	0.07	0.984	O I					6.72
5.067	0.75	0.07	0.985	O I					6.72
5.083	0.74	0.07	0.986	O I					6.73
5.100	0.74	0.07	0.987	O I					6.73
5.117	0.73	0.07	0.988	O I					6.73
5.133	0.72	0.07	0.989	O I					6.74
5.150	0.72	0.07	0.990	O I					6.74
5.167	0.71	0.07	0.991	O I					6.74
5.183	0.70	0.07	0.992	O I					6.75
5.200	0.70	0.07	0.992	O I					6.75
5.217	0.69	0.07	0.993	O I					6.75
5.233	0.68	0.07	0.994	O I					6.76
5.250	0.68	0.07	0.995	O I					6.76
5.267	0.67	0.07	0.996	O I					6.76
5.283	0.67	0.07	0.997	O I					6.76
5.300	0.66	0.07	0.997	O I					6.77
5.317	0.65	0.07	0.998	O I					6.77
5.333	0.65	0.07	0.999	O I					6.77
5.350	0.64	0.07	1.000	O I					6.78
5.367	0.64	0.07	1.001	O I					6.78
5.383	0.63	0.07	1.001	O I					6.78
5.400	0.63	0.07	1.002	O I					6.78
5.417	0.62	0.07	1.003	O I					6.79
5.433	0.62	0.07	1.004	O I					6.79
5.450	0.61	0.07	1.004	O I					6.79
5.467	0.61	0.07	1.005	O I					6.79
5.483	0.61	0.07	1.006	O I					6.80
5.500	0.60	0.07	1.007	O I					6.80
5.517	0.60	0.07	1.007	O I					6.80
5.533	0.59	0.07	1.008	O I					6.80
5.550	0.59	0.07	1.009	O I					6.81
5.567	0.58	0.07	1.009	O I					6.81
5.583	0.58	0.07	1.010	O I					6.81
5.600	0.58	0.07	1.011	O I					6.81
5.617	0.57	0.07	1.011	O I					6.82
5.633	0.57	0.07	1.012	O I					6.82
5.650	0.56	0.07	1.013	O I					6.82
5.667	0.56	0.07	1.014	O I					6.82
5.683	0.56	0.07	1.014	O I					6.82
5.700	0.55	0.07	1.015	O I					6.83
5.717	0.55	0.07	1.016	O I					6.83
5.733	0.55	0.07	1.016	O I					6.83
5.750	0.54	0.07	1.017	O I					6.83
5.767	0.54	0.07	1.017	O I					6.84
5.783	0.54	0.07	1.018	O I					6.84
5.800	0.53	0.07	1.019	O I					6.84
5.817	0.53	0.07	1.019	O I					6.84
5.833	0.53	0.07	1.020	O I					6.84
5.850	0.52	0.07	1.021	O I					6.85
5.867	0.52	0.07	1.021	O I					6.85

5.883	0.52	0.07	1.022	OI					6.85
5.900	0.51	0.07	1.022	OI					6.85
5.917	0.51	0.07	1.023	OI					6.86
5.933	0.51	0.07	1.024	OI					6.86
5.950	0.51	0.07	1.024	OI					6.86
5.967	0.50	0.07	1.025	OI					6.86
5.983	0.50	0.07	1.025	OI					6.86
6.000	0.50	0.07	1.026	OI					6.87
6.017	0.49	0.07	1.027	OI					6.87
6.033	0.49	0.07	1.027	OI					6.87
6.050	0.00	0.07	1.027	O					6.87
6.067	0.00	0.07	1.027	O					6.87
6.083	0.00	0.07	1.027	O					6.87
6.100	0.00	0.07	1.027	O					6.87
6.117	0.00	0.07	1.027	O					6.87
6.133	0.00	0.07	1.027	O					6.87
6.150	0.00	0.07	1.027	O					6.87
6.167	0.00	0.07	1.027	O					6.87
6.183	0.00	0.07	1.027	O					6.87
6.200	0.00	0.07	1.026	O					6.87
6.217	0.00	0.07	1.026	O					6.87
6.233	0.00	0.07	1.026	O					6.87
6.250	0.00	0.07	1.026	O					6.87
6.267	0.00	0.07	1.026	O					6.87
6.283	0.00	0.07	1.026	O					6.87
6.300	0.00	0.07	1.026	O					6.87
6.317	0.00	0.07	1.026	O					6.86
6.333	0.00	0.07	1.026	O					6.86
6.350	0.00	0.07	1.026	O					6.86
6.367	0.00	0.07	1.025	O					6.86
6.383	0.00	0.07	1.025	O					6.86
6.400	0.00	0.07	1.025	O					6.86
6.417	0.00	0.07	1.025	O					6.86
6.433	0.00	0.07	1.025	O					6.86
6.450	0.00	0.07	1.025	O					6.86
6.467	0.00	0.07	1.025	O					6.86
6.483	0.00	0.07	1.025	O					6.86
6.500	0.00	0.07	1.025	O					6.86
6.517	0.00	0.07	1.025	O					6.86
6.533	0.00	0.07	1.024	O					6.86
6.550	0.00	0.07	1.024	O					6.86
6.567	0.00	0.07	1.024	O					6.86
6.583	0.00	0.07	1.024	O					6.86
6.600	0.00	0.07	1.024	O					6.86
6.617	0.00	0.07	1.024	O					6.86
6.633	0.00	0.07	1.024	O					6.86
6.650	0.00	0.07	1.024	O					6.86
6.667	0.00	0.07	1.024	O					6.86
6.683	0.00	0.07	1.023	O					6.86
6.700	0.00	0.07	1.023	O					6.86
6.717	0.00	0.07	1.023	O					6.86
6.733	0.00	0.07	1.023	O					6.86
6.750	0.00	0.07	1.023	O					6.86
6.767	0.00	0.07	1.023	O					6.86
6.783	0.00	0.07	1.023	O					6.85
6.800	0.00	0.07	1.023	O					6.85
6.817	0.00	0.07	1.023	O					6.85
6.833	0.00	0.07	1.023	O					6.85
6.850	0.00	0.07	1.022	O					6.85
6.867	0.00	0.07	1.022	O					6.85
6.883	0.00	0.07	1.022	O					6.85
6.900	0.00	0.07	1.022	O					6.85
6.917	0.00	0.07	1.022	O					6.85
6.933	0.00	0.07	1.022	O					6.85
6.950	0.00	0.07	1.022	O					6.85
6.967	0.00	0.07	1.022	O					6.85
6.983	0.00	0.07	1.022	O					6.85
7.000	0.00	0.07	1.022	O					6.85
7.017	0.00	0.07	1.021	O					6.85
7.033	0.00	0.07	1.021	O					6.85
7.050	0.00	0.07	1.021	O					6.85

8.250	0.00	0.07	1.014	O					6.82
8.267	0.00	0.07	1.014	O					6.82
8.283	0.00	0.07	1.014	O					6.82
8.300	0.00	0.07	1.014	O					6.82
8.317	0.00	0.07	1.013	O					6.82
8.333	0.00	0.07	1.013	O					6.82
8.350	0.00	0.07	1.013	O					6.82
8.367	0.00	0.07	1.013	O					6.82
8.383	0.00	0.07	1.013	O					6.82
8.400	0.00	0.07	1.013	O					6.82
8.417	0.00	0.07	1.013	O					6.82
8.433	0.00	0.07	1.013	O					6.82
8.450	0.00	0.07	1.013	O					6.82
8.467	0.00	0.07	1.012	O					6.82
8.483	0.00	0.07	1.012	O					6.82
8.500	0.00	0.07	1.012	O					6.82
8.517	0.00	0.07	1.012	O					6.82
8.533	0.00	0.07	1.012	O					6.82
8.550	0.00	0.07	1.012	O					6.82
8.567	0.00	0.07	1.012	O					6.82
8.583	0.00	0.07	1.012	O					6.82
8.600	0.00	0.07	1.012	O					6.82
8.617	0.00	0.07	1.012	O					6.82
8.633	0.00	0.07	1.011	O					6.82
8.650	0.00	0.07	1.011	O					6.81
8.667	0.00	0.07	1.011	O					6.81
8.683	0.00	0.07	1.011	O					6.81
8.700	0.00	0.07	1.011	O					6.81
8.717	0.00	0.07	1.011	O					6.81
8.733	0.00	0.07	1.011	O					6.81
8.750	0.00	0.07	1.011	O					6.81
8.767	0.00	0.07	1.011	O					6.81
8.783	0.00	0.07	1.011	O					6.81
8.800	0.00	0.07	1.010	O					6.81
8.817	0.00	0.07	1.010	O					6.81
8.833	0.00	0.07	1.010	O					6.81
8.850	0.00	0.07	1.010	O					6.81
8.867	0.00	0.07	1.010	O					6.81
8.883	0.00	0.07	1.010	O					6.81
8.900	0.00	0.07	1.010	O					6.81
8.917	0.00	0.07	1.010	O					6.81
8.933	0.00	0.07	1.010	O					6.81
8.950	0.00	0.07	1.009	O					6.81
8.967	0.00	0.07	1.009	O					6.81
8.983	0.00	0.07	1.009	O					6.81
9.000	0.00	0.07	1.009	O					6.81
9.017	0.00	0.07	1.009	O					6.81
9.033	0.00	0.07	1.009	O					6.81
9.050	0.00	0.07	1.009	O					6.81
9.067	0.00	0.07	1.009	O					6.81
9.083	0.00	0.07	1.009	O					6.81
9.100	0.00	0.07	1.009	O					6.81
9.117	0.00	0.07	1.008	O					6.81
9.133	0.00	0.07	1.008	O					6.80
9.150	0.00	0.07	1.008	O					6.80
9.167	0.00	0.07	1.008	O					6.80
9.183	0.00	0.07	1.008	O					6.80
9.200	0.00	0.07	1.008	O					6.80
9.217	0.00	0.07	1.008	O					6.80
9.233	0.00	0.07	1.008	O					6.80
9.250	0.00	0.07	1.008	O					6.80
9.267	0.00	0.07	1.008	O					6.80
9.283	0.00	0.07	1.007	O					6.80
9.300	0.00	0.07	1.007	O					6.80
9.317	0.00	0.07	1.007	O					6.80
9.333	0.00	0.07	1.007	O					6.80
9.350	0.00	0.07	1.007	O					6.80
9.367	0.00	0.07	1.007	O					6.80
9.383	0.00	0.07	1.007	O					6.80
9.400	0.00	0.07	1.007	O					6.80
9.417	0.00	0.07	1.007	O					6.80

9.433	0.00	0.07	1.007	0					6.80
9.450	0.00	0.07	1.006	0					6.80
9.467	0.00	0.07	1.006	0					6.80
9.483	0.00	0.07	1.006	0					6.80
9.500	0.00	0.07	1.006	0					6.80
9.517	0.00	0.07	1.006	0					6.80
9.533	0.00	0.07	1.006	0					6.80
9.550	0.00	0.07	1.006	0					6.80
9.567	0.00	0.07	1.006	0					6.80
9.583	0.00	0.07	1.006	0					6.80
9.600	0.00	0.07	1.005	0					6.79
9.617	0.00	0.07	1.005	0					6.79
9.633	0.00	0.07	1.005	0					6.79
9.650	0.00	0.07	1.005	0					6.79
9.667	0.00	0.07	1.005	0					6.79
9.683	0.00	0.07	1.005	0					6.79
9.700	0.00	0.07	1.005	0					6.79
9.717	0.00	0.07	1.005	0					6.79
9.733	0.00	0.07	1.005	0					6.79
9.750	0.00	0.07	1.005	0					6.79
9.767	0.00	0.07	1.004	0					6.79
9.783	0.00	0.07	1.004	0					6.79
9.800	0.00	0.07	1.004	0					6.79
9.817	0.00	0.07	1.004	0					6.79
9.833	0.00	0.07	1.004	0					6.79
9.850	0.00	0.07	1.004	0					6.79
9.867	0.00	0.07	1.004	0					6.79
9.883	0.00	0.07	1.004	0					6.79
9.900	0.00	0.07	1.004	0					6.79
9.917	0.00	0.07	1.004	0					6.79
9.933	0.00	0.07	1.003	0					6.79
9.950	0.00	0.07	1.003	0					6.79
9.967	0.00	0.07	1.003	0					6.79
9.983	0.00	0.07	1.003	0					6.79
10.000	0.00	0.07	1.003	0					6.79
10.017	0.00	0.07	1.003	0					6.79
10.033	0.00	0.07	1.003	0					6.79
10.050	0.00	0.07	1.003	0					6.79
10.067	0.00	0.07	1.003	0					6.78
10.083	0.00	0.07	1.003	0					6.78
10.100	0.00	0.07	1.002	0					6.78
10.117	0.00	0.07	1.002	0					6.78
10.133	0.00	0.07	1.002	0					6.78
10.150	0.00	0.07	1.002	0					6.78
10.167	0.00	0.07	1.002	0					6.78
10.183	0.00	0.07	1.002	0					6.78
10.200	0.00	0.07	1.002	0					6.78
10.217	0.00	0.07	1.002	0					6.78
10.233	0.00	0.07	1.002	0					6.78
10.250	0.00	0.07	1.001	0					6.78
10.267	0.00	0.07	1.001	0					6.78
10.283	0.00	0.07	1.001	0					6.78
10.300	0.00	0.07	1.001	0					6.78
10.317	0.00	0.07	1.001	0					6.78
10.333	0.00	0.07	1.001	0					6.78
10.350	0.00	0.07	1.001	0					6.78
10.367	0.00	0.07	1.001	0					6.78
10.383	0.00	0.07	1.001	0					6.78
10.400	0.00	0.07	1.001	0					6.78
10.417	0.00	0.07	1.000	0					6.78
10.433	0.00	0.07	1.000	0					6.78
10.450	0.00	0.07	1.000	0					6.78
10.467	0.00	0.07	1.000	0					6.78
10.483	0.00	0.07	1.000	0					6.78
10.500	0.00	0.07	1.000	0					6.78
10.517	0.00	0.07	1.000	0					6.78
10.533	0.00	0.07	1.000	0					6.78
10.550	0.00	0.07	1.000	0					6.77
10.567	0.00	0.07	1.000	0					6.77
10.583	0.00	0.07	0.999	0					6.77
10.600	0.00	0.07	0.999	0					6.77

11.800	0.00	0.07	0.992	0					6.75
11.817	0.00	0.07	0.992	0					6.75
11.833	0.00	0.07	0.992	0					6.75
11.850	0.00	0.07	0.992	0					6.75
11.867	0.00	0.07	0.992	0					6.75
11.883	0.00	0.07	0.991	0					6.75
11.900	0.00	0.07	0.991	0					6.75
11.917	0.00	0.07	0.991	0					6.75
11.933	0.00	0.07	0.991	0					6.75
11.950	0.00	0.07	0.991	0					6.75
11.967	0.00	0.07	0.991	0					6.74
11.983	0.00	0.07	0.991	0					6.74
12.000	0.00	0.07	0.991	0					6.74
12.017	0.00	0.07	0.991	0					6.74
12.033	0.00	0.07	0.991	0					6.74
12.050	0.00	0.07	0.990	0					6.74
12.067	0.00	0.07	0.990	0					6.74
12.083	0.00	0.07	0.990	0					6.74
12.100	0.00	0.07	0.990	0					6.74
12.117	0.00	0.07	0.990	0					6.74
12.133	0.00	0.07	0.990	0					6.74
12.150	0.00	0.07	0.990	0					6.74
12.167	0.00	0.07	0.990	0					6.74
12.183	0.00	0.07	0.990	0					6.74
12.200	0.00	0.07	0.990	0					6.74
12.217	0.00	0.07	0.989	0					6.74
12.233	0.00	0.07	0.989	0					6.74
12.250	0.00	0.07	0.989	0					6.74
12.267	0.00	0.07	0.989	0					6.74
12.283	0.00	0.07	0.989	0					6.74
12.300	0.00	0.07	0.989	0					6.74
12.317	0.00	0.07	0.989	0					6.74
12.333	0.00	0.07	0.989	0					6.74
12.350	0.00	0.07	0.989	0					6.74
12.367	0.00	0.07	0.988	0					6.74
12.383	0.00	0.07	0.988	0					6.74
12.400	0.00	0.07	0.988	0					6.74
12.417	0.00	0.07	0.988	0					6.74
12.433	0.00	0.07	0.988	0					6.73
12.450	0.00	0.07	0.988	0					6.73
12.467	0.00	0.07	0.988	0					6.73
12.483	0.00	0.07	0.988	0					6.73
12.500	0.00	0.07	0.988	0					6.73
12.517	0.00	0.07	0.988	0					6.73
12.533	0.00	0.07	0.987	0					6.73
12.550	0.00	0.07	0.987	0					6.73
12.567	0.00	0.07	0.987	0					6.73
12.583	0.00	0.07	0.987	0					6.73
12.600	0.00	0.07	0.987	0					6.73
12.617	0.00	0.07	0.987	0					6.73
12.633	0.00	0.07	0.987	0					6.73
12.650	0.00	0.07	0.987	0					6.73
12.667	0.00	0.07	0.987	0					6.73
12.683	0.00	0.07	0.987	0					6.73
12.700	0.00	0.07	0.986	0					6.73
12.717	0.00	0.07	0.986	0					6.73
12.733	0.00	0.07	0.986	0					6.73
12.750	0.00	0.07	0.986	0					6.73
12.767	0.00	0.07	0.986	0					6.73
12.783	0.00	0.07	0.986	0					6.73
12.800	0.00	0.07	0.986	0					6.73
12.817	0.00	0.07	0.986	0					6.73
12.833	0.00	0.07	0.986	0					6.73
12.850	0.00	0.07	0.986	0					6.73
12.867	0.00	0.07	0.985	0					6.73
12.883	0.00	0.07	0.985	0					6.73
12.900	0.00	0.07	0.985	0					6.72
12.917	0.00	0.07	0.985	0					6.72
12.933	0.00	0.07	0.985	0					6.72
12.950	0.00	0.07	0.985	0					6.72
12.967	0.00	0.07	0.985	0					6.72

18.900	0.00	0.07	0.949	0					6.60
18.917	0.00	0.07	0.949	0					6.60
18.933	0.00	0.07	0.948	0					6.60
18.950	0.00	0.07	0.948	0					6.60
18.967	0.00	0.07	0.948	0					6.60
18.983	0.00	0.07	0.948	0					6.60
19.000	0.00	0.07	0.948	0					6.60
19.017	0.00	0.07	0.948	0					6.60
19.033	0.00	0.07	0.948	0					6.60
19.050	0.00	0.07	0.948	0					6.60
19.067	0.00	0.07	0.948	0					6.60
19.083	0.00	0.07	0.948	0					6.59
19.100	0.00	0.07	0.947	0					6.59
19.117	0.00	0.07	0.947	0					6.59
19.133	0.00	0.07	0.947	0					6.59
19.150	0.00	0.07	0.947	0					6.59
19.167	0.00	0.07	0.947	0					6.59
19.183	0.00	0.07	0.947	0					6.59
19.200	0.00	0.07	0.947	0					6.59
19.217	0.00	0.07	0.947	0					6.59
19.233	0.00	0.07	0.947	0					6.59
19.250	0.00	0.07	0.947	0					6.59
19.267	0.00	0.07	0.946	0					6.59
19.283	0.00	0.07	0.946	0					6.59
19.300	0.00	0.07	0.946	0					6.59
19.317	0.00	0.07	0.946	0					6.59
19.333	0.00	0.07	0.946	0					6.59
19.350	0.00	0.07	0.946	0					6.59
19.367	0.00	0.07	0.946	0					6.59
19.383	0.00	0.07	0.946	0					6.59
19.400	0.00	0.07	0.946	0					6.59
19.417	0.00	0.07	0.945	0					6.59
19.433	0.00	0.07	0.945	0					6.59
19.450	0.00	0.07	0.945	0					6.59
19.467	0.00	0.07	0.945	0					6.59
19.483	0.00	0.07	0.945	0					6.59
19.500	0.00	0.07	0.945	0					6.59
19.517	0.00	0.07	0.945	0					6.59
19.533	0.00	0.07	0.945	0					6.59
19.550	0.00	0.07	0.945	0					6.59
19.567	0.00	0.07	0.945	0					6.58
19.583	0.00	0.07	0.944	0					6.58
19.600	0.00	0.07	0.944	0					6.58
19.617	0.00	0.07	0.944	0					6.58
19.633	0.00	0.07	0.944	0					6.58
19.650	0.00	0.07	0.944	0					6.58
19.667	0.00	0.07	0.944	0					6.58
19.683	0.00	0.07	0.944	0					6.58
19.700	0.00	0.07	0.944	0					6.58
19.717	0.00	0.07	0.944	0					6.58
19.733	0.00	0.07	0.944	0					6.58
19.750	0.00	0.07	0.943	0					6.58
19.767	0.00	0.07	0.943	0					6.58
19.783	0.00	0.07	0.943	0					6.58
19.800	0.00	0.07	0.943	0					6.58
19.817	0.00	0.07	0.943	0					6.58
19.833	0.00	0.07	0.943	0					6.58
19.850	0.00	0.07	0.943	0					6.58
19.867	0.00	0.07	0.943	0					6.58
19.883	0.00	0.07	0.943	0					6.58
19.900	0.00	0.07	0.943	0					6.58
19.917	0.00	0.07	0.942	0					6.58
19.933	0.00	0.07	0.942	0					6.58
19.950	0.00	0.07	0.942	0					6.58
19.967	0.00	0.07	0.942	0					6.58
19.983	0.00	0.07	0.942	0					6.58
20.000	0.00	0.07	0.942	0					6.58
20.017	0.00	0.07	0.942	0					6.58
20.033	0.00	0.07	0.942	0					6.58
20.050	0.00	0.07	0.942	0					6.57
20.067	0.00	0.07	0.942	0					6.57

23.633	0.00	0.07	0.920	0					6.50
23.650	0.00	0.07	0.920	0					6.50
23.667	0.00	0.07	0.920	0					6.50
23.683	0.00	0.07	0.920	0					6.50
23.700	0.00	0.07	0.920	0					6.50
23.717	0.00	0.07	0.919	0					6.50
23.733	0.00	0.07	0.919	0					6.50
23.750	0.00	0.07	0.919	0					6.50
23.767	0.00	0.07	0.919	0					6.50
23.783	0.00	0.07	0.919	0					6.50
23.800	0.00	0.07	0.919	0					6.50
23.817	0.00	0.07	0.919	0					6.50
23.833	0.00	0.07	0.919	0					6.50
23.850	0.00	0.07	0.919	0					6.49
23.867	0.00	0.07	0.919	0					6.49
23.883	0.00	0.07	0.918	0					6.49
23.900	0.00	0.07	0.918	0					6.49
23.917	0.00	0.07	0.918	0					6.49
23.933	0.00	0.07	0.918	0					6.49
23.950	0.00	0.07	0.918	0					6.49
23.967	0.00	0.07	0.918	0					6.49
23.983	0.00	0.07	0.918	0					6.49
24.000	0.00	0.07	0.918	0					6.49
24.017	0.00	0.07	0.918	0					6.49
24.033	0.00	0.07	0.918	0					6.49
24.050	0.00	0.07	0.917	0					6.49
24.067	0.00	0.07	0.917	0					6.49
24.083	0.00	0.07	0.917	0					6.49
24.100	0.00	0.07	0.917	0					6.49
24.117	0.00	0.07	0.917	0					6.49
24.133	0.00	0.07	0.917	0					6.49
24.150	0.00	0.07	0.917	0					6.49
24.167	0.00	0.07	0.917	0					6.49
24.183	0.00	0.07	0.917	0					6.49
24.200	0.00	0.07	0.917	0					6.49
24.217	0.00	0.07	0.916	0					6.49
24.233	0.00	0.07	0.916	0					6.49
24.250	0.00	0.07	0.916	0					6.49
24.267	0.00	0.07	0.916	0					6.49
24.283	0.00	0.07	0.916	0					6.48
24.300	0.00	0.07	0.916	0					6.48
24.317	0.00	0.07	0.916	0					6.48
24.333	0.00	0.07	0.916	0					6.48
24.350	0.00	0.07	0.916	0					6.48
24.367	0.00	0.07	0.916	0					6.48
24.383	0.00	0.07	0.915	0					6.48
24.400	0.00	0.07	0.915	0					6.48
24.417	0.00	0.07	0.915	0					6.48
24.433	0.00	0.07	0.915	0					6.48
24.450	0.00	0.07	0.915	0					6.48
24.467	0.00	0.07	0.915	0					6.48
24.483	0.00	0.07	0.915	0					6.48
24.500	0.00	0.07	0.915	0					6.48
24.517	0.00	0.07	0.915	0					6.48
24.533	0.00	0.07	0.915	0					6.48
24.550	0.00	0.07	0.914	0					6.48
24.567	0.00	0.07	0.914	0					6.48
24.583	0.00	0.07	0.914	0					6.48
24.600	0.00	0.07	0.914	0					6.48
24.617	0.00	0.07	0.914	0					6.48
24.633	0.00	0.07	0.914	0					6.48
24.650	0.00	0.07	0.914	0					6.48
24.667	0.00	0.07	0.914	0					6.48
24.683	0.00	0.07	0.914	0					6.48
24.700	0.00	0.07	0.914	0					6.48
24.717	0.00	0.07	0.913	0					6.47
24.733	0.00	0.07	0.913	0					6.47
24.750	0.00	0.07	0.913	0					6.47
24.767	0.00	0.07	0.913	0					6.47
24.783	0.00	0.07	0.913	0					6.47
24.800	0.00	0.07	0.913	0					6.47

31.917	0.00	0.07	0.870	0					6.31
31.933	0.00	0.07	0.870	0					6.31
31.950	0.00	0.07	0.870	0					6.31
31.967	0.00	0.07	0.870	0					6.31
31.983	0.00	0.07	0.870	0					6.31
32.000	0.00	0.07	0.870	0					6.31
32.017	0.00	0.07	0.870	0					6.31
32.033	0.00	0.07	0.870	0					6.31
32.050	0.00	0.07	0.870	0					6.31
32.067	0.00	0.07	0.869	0					6.31
32.083	0.00	0.07	0.869	0					6.31
32.100	0.00	0.07	0.869	0					6.30
32.117	0.00	0.07	0.869	0					6.30
32.133	0.00	0.07	0.869	0					6.30
32.150	0.00	0.07	0.869	0					6.30
32.167	0.00	0.07	0.869	0					6.30
32.183	0.00	0.07	0.869	0					6.30
32.200	0.00	0.07	0.869	0					6.30
32.217	0.00	0.07	0.869	0					6.30
32.233	0.00	0.07	0.868	0					6.30
32.250	0.00	0.07	0.868	0					6.30
32.267	0.00	0.07	0.868	0					6.30
32.283	0.00	0.07	0.868	0					6.30
32.300	0.00	0.07	0.868	0					6.30
32.317	0.00	0.07	0.868	0					6.30
32.333	0.00	0.07	0.868	0					6.30
32.350	0.00	0.07	0.868	0					6.30
32.367	0.00	0.07	0.868	0					6.30
32.383	0.00	0.07	0.868	0					6.30
32.400	0.00	0.07	0.867	0					6.30
32.417	0.00	0.07	0.867	0					6.30
32.433	0.00	0.07	0.867	0					6.30
32.450	0.00	0.07	0.867	0					6.30
32.467	0.00	0.07	0.867	0					6.30
32.483	0.00	0.07	0.867	0					6.30
32.500	0.00	0.07	0.867	0					6.30
32.517	0.00	0.07	0.867	0					6.30
32.533	0.00	0.07	0.867	0					6.29
32.550	0.00	0.07	0.867	0					6.29
32.567	0.00	0.07	0.866	0					6.29
32.583	0.00	0.07	0.866	0					6.29
32.600	0.00	0.07	0.866	0					6.29
32.617	0.00	0.07	0.866	0					6.29
32.633	0.00	0.07	0.866	0					6.29
32.650	0.00	0.07	0.866	0					6.29
32.667	0.00	0.07	0.866	0					6.29
32.683	0.00	0.07	0.866	0					6.29
32.700	0.00	0.07	0.866	0					6.29
32.717	0.00	0.07	0.866	0					6.29
32.733	0.00	0.07	0.865	0					6.29
32.750	0.00	0.07	0.865	0					6.29
32.767	0.00	0.07	0.865	0					6.29
32.783	0.00	0.07	0.865	0					6.29
32.800	0.00	0.07	0.865	0					6.29
32.817	0.00	0.07	0.865	0					6.29
32.833	0.00	0.07	0.865	0					6.29
32.850	0.00	0.07	0.865	0					6.29
32.867	0.00	0.07	0.865	0					6.29
32.883	0.00	0.07	0.865	0					6.29
32.900	0.00	0.07	0.864	0					6.29
32.917	0.00	0.07	0.864	0					6.29
32.933	0.00	0.07	0.864	0					6.29
32.950	0.00	0.07	0.864	0					6.29
32.967	0.00	0.07	0.864	0					6.28
32.983	0.00	0.07	0.864	0					6.28
33.000	0.00	0.07	0.864	0					6.28
33.017	0.00	0.07	0.864	0					6.28
33.033	0.00	0.07	0.864	0					6.28
33.050	0.00	0.07	0.864	0					6.28
33.067	0.00	0.07	0.863	0					6.28
33.083	0.00	0.07	0.863	0					6.28

63.867	0.00	0.07	0.685	O					5.60
63.883	0.00	0.07	0.685	O					5.60
63.900	0.00	0.07	0.685	O					5.59
63.917	0.00	0.07	0.685	O					5.59
63.933	0.00	0.07	0.684	O					5.59
63.950	0.00	0.07	0.684	O					5.59
63.967	0.00	0.07	0.684	O					5.59
63.983	0.00	0.07	0.684	O					5.59
64.000	0.00	0.07	0.684	O					5.59
64.017	0.00	0.07	0.684	O					5.59
64.033	0.00	0.07	0.684	O					5.59
64.050	0.00	0.07	0.684	O					5.59
64.067	0.00	0.07	0.684	O					5.59
64.083	0.00	0.07	0.684	O					5.59
64.100	0.00	0.07	0.684	O					5.59
64.117	0.00	0.07	0.683	O					5.59
64.133	0.00	0.07	0.683	O					5.59
64.150	0.00	0.07	0.683	O					5.59
64.167	0.00	0.07	0.683	O					5.59
64.183	0.00	0.07	0.683	O					5.59
64.200	0.00	0.07	0.683	O					5.59
64.217	0.00	0.07	0.683	O					5.59
64.233	0.00	0.07	0.683	O					5.59
64.250	0.00	0.07	0.683	O					5.59
64.267	0.00	0.07	0.683	O					5.59
64.283	0.00	0.07	0.682	O					5.59
64.300	0.00	0.07	0.682	O					5.59
64.317	0.00	0.07	0.682	O					5.59
64.333	0.00	0.07	0.682	O					5.59
64.350	0.00	0.07	0.682	O					5.59
64.367	0.00	0.07	0.682	O					5.58
64.383	0.00	0.07	0.682	O					5.58
64.400	0.00	0.07	0.682	O					5.58
64.417	0.00	0.07	0.682	O					5.58
64.433	0.00	0.07	0.682	O					5.58
64.450	0.00	0.07	0.682	O					5.58
64.467	0.00	0.07	0.681	O					5.58
64.483	0.00	0.07	0.681	O					5.58
64.500	0.00	0.07	0.681	O					5.58
64.517	0.00	0.07	0.681	O					5.58
64.533	0.00	0.07	0.681	O					5.58
64.550	0.00	0.07	0.681	O					5.58
64.567	0.00	0.07	0.681	O					5.58
64.583	0.00	0.07	0.681	O					5.58
64.600	0.00	0.07	0.681	O					5.58
64.617	0.00	0.07	0.681	O					5.58
64.633	0.00	0.07	0.681	O					5.58
64.650	0.00	0.07	0.680	O					5.58
64.667	0.00	0.07	0.680	O					5.58
64.683	0.00	0.07	0.680	O					5.58
64.700	0.00	0.07	0.680	O					5.58
64.717	0.00	0.07	0.680	O					5.58
64.733	0.00	0.07	0.680	O					5.58
64.750	0.00	0.07	0.680	O					5.58
64.767	0.00	0.07	0.680	O					5.58
64.783	0.00	0.07	0.680	O					5.58
64.800	0.00	0.07	0.680	O					5.58
64.817	0.00	0.07	0.679	O					5.57
64.833	0.00	0.07	0.679	O					5.57
64.850	0.00	0.07	0.679	O					5.57
64.867	0.00	0.07	0.679	O					5.57
64.883	0.00	0.07	0.679	O					5.57
64.900	0.00	0.07	0.679	O					5.57
64.917	0.00	0.07	0.679	O					5.57
64.933	0.00	0.07	0.679	O					5.57
64.950	0.00	0.07	0.679	O					5.57
64.967	0.00	0.07	0.679	O					5.57
64.983	0.00	0.07	0.679	O					5.57
65.000	0.00	0.07	0.678	O					5.57
65.017	0.00	0.07	0.678	O					5.57
65.033	0.00	0.07	0.678	O					5.57

82.800	0.00	0.07	0.580	0					5.13
82.817	0.00	0.07	0.580	0					5.13
82.833	0.00	0.07	0.579	0					5.13
82.850	0.00	0.07	0.579	0					5.13
82.867	0.00	0.07	0.579	0					5.13
82.883	0.00	0.07	0.579	0					5.13
82.900	0.00	0.07	0.579	0					5.13
82.917	0.00	0.07	0.579	0					5.13
82.933	0.00	0.07	0.579	0					5.13
82.950	0.00	0.07	0.579	0					5.13
82.967	0.00	0.07	0.579	0					5.13
82.983	0.00	0.07	0.579	0					5.13
83.000	0.00	0.07	0.579	0					5.13
83.017	0.00	0.07	0.579	0					5.13
83.033	0.00	0.07	0.578	0					5.13
83.050	0.00	0.07	0.578	0					5.13
83.067	0.00	0.07	0.578	0					5.13
83.083	0.00	0.07	0.578	0					5.13
83.100	0.00	0.07	0.578	0					5.13
83.117	0.00	0.07	0.578	0					5.13
83.133	0.00	0.07	0.578	0					5.13
83.150	0.00	0.07	0.578	0					5.13
83.167	0.00	0.07	0.578	0					5.13
83.183	0.00	0.07	0.578	0					5.13
83.200	0.00	0.07	0.578	0					5.13
83.217	0.00	0.07	0.577	0					5.12
83.233	0.00	0.07	0.577	0					5.12
83.250	0.00	0.07	0.577	0					5.12
83.267	0.00	0.07	0.577	0					5.12
83.283	0.00	0.07	0.577	0					5.12
83.300	0.00	0.07	0.577	0					5.12
83.317	0.00	0.07	0.577	0					5.12
83.333	0.00	0.07	0.577	0					5.12

Remaining water in basin = 0.14 (Ac.Ft)

```
*****HYDROGRAPH DATA*****
      Number of intervals = 5001
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 0.075 (CFS)
      Total volume = 0.485 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****
```

```
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+++++
Process from Point/Station 739.000 to Point/Station 739.000
**** STORE OR DELETE CURRENT HYDROGRAPH ****
```

```
-----
Current stream hydrograph saved in file 100160rtebas7.rte
*****HYDROGRAPH DATA*****
      Number of intervals = 0
      Time interval = 0.0 (Min.)
      Maximum/Peak flow rate = 0.000 (CFS)
      Total volume = 0.000 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 0.000 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000
*****
```


FLOOD HYDROGRAPH ROUTING PROGRAM
 Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2018
 Study date: 04/16/24

 Majestic Otay
 Otay Mesa, San Diego County
 Proposed Condition POC 4
 100160rtPOC4

Program License Serial Number 6490

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rtebas5POC4.rte
 *****HYDROGRAPH DATA*****
 Number of intervals = 2291
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 30.772 (CFS)
 Total volume = 7.627 (Ac.Ft)
 Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

++++
 Process from Point/Station 727.000 to Point/Station 4.000
 **** ADD/COMBINE/RECOVER HYDROGRAPHS ****

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rtebas6POC4.rte
 +++++
 P R I N T O F S T O R M
 R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	16.1	32.2	48.4	64.5
0+ 1	0.0000	1.52	Q				
0+ 2	0.0000	1.64	qQ				
0+ 3	0.1154	1.82	qQ				
0+ 4	0.3297	2.17	qQ				
0+ 5	0.4104	2.30	qQ				
0+ 6	0.4408	2.35	qQ				
0+ 7	0.4523	2.37	qQ				
0+ 8	0.4567	2.38	qQ				
0+ 9	0.4585	2.38	qQ				
0+10	0.4593	2.38	qQ				
0+11	0.4598	2.39	qQ				
0+12	0.4602	2.39	qQ				
0+13	0.4606	2.40	qQ				
0+14	0.4609	2.40	qQ				
0+15	0.4613	2.41	qQ				
0+16	0.4616	2.41	qQ				
0+17	0.4620	2.42	qQ				
0+18	0.4623	2.42	qQ				
0+19	0.4627	2.43	qQ				
0+20	0.4630	2.43	qQ				
0+21	0.4634	2.44	qQ				

0+22	0.4637	2.45	qQ				
0+23	0.4641	2.45	qQ				
0+24	0.4645	2.46	qQ				
0+25	0.4648	2.47	qQ				
0+26	0.4652	2.47	qQ				
0+27	0.4655	2.48	qQ				
0+28	0.4659	2.48	qQ				
0+29	0.4663	2.49	qQ				
0+30	0.4666	2.50	qQ				
0+31	0.4670	2.51	qQ				
0+32	0.4674	2.51	qQ				
0+33	0.4677	2.52	qQ				
0+34	0.4681	2.53	qQ				
0+35	0.4685	2.53	qQ				
0+36	0.4688	2.54	qQ				
0+37	0.4692	2.55	qQ				
0+38	0.4696	2.56	qQ				
0+39	0.4699	2.56	qQ				
0+40	0.4703	2.57	qQ				
0+41	0.4707	2.58	qQ				
0+42	0.4722	2.59	qQ				
0+43	0.4820	2.61	qQ				
0+44	0.5041	2.65	qQ				
0+45	0.5308	2.70	qQ				
0+46	0.5591	2.76	qQ				
0+47	0.5880	2.81	qQ				
0+48	0.6172	2.87	qQ				
0+49	0.6464	2.92	qQ				
0+50	0.6756	2.98	qQ				
0+51	0.7049	3.03	qQ				
0+52	0.7341	3.09	qQ				
0+53	0.7633	3.14	qQ				
0+54	0.7925	3.20	qQ				
0+55	0.8217	3.25	q Q				
0+56	0.8508	3.31	q Q				
0+57	0.8799	3.36	q Q				
0+58	0.9089	3.42	q Q				
0+59	0.9379	3.47	q Q				
1+ 0	0.9667	3.53	q Q				
1+ 1	0.9956	3.59	q Q				
1+ 2	1.0244	3.64	qQ				
1+ 3	1.0532	3.70	qQ				
1+ 4	1.0820	3.75	qQ				
1+ 5	1.1108	3.81	qQ				
1+ 6	1.1397	3.86	qQ				
1+ 7	1.1685	3.92	qQ				
1+ 8	1.1973	3.97	qQ				
1+ 9	1.2261	4.03	qQ				
1+10	1.2549	4.09	qQ				
1+11	1.2837	4.14	qQ				
1+12	1.3124	4.20	qQ				
1+13	1.3410	4.25	qQ				
1+14	1.3696	4.31	qQ				
1+15	1.3982	4.37	qQ				
1+16	1.4267	4.42	qQ				
1+17	1.4553	4.48	qQ				
1+18	1.4871	4.54	qQ				
1+19	1.5258	4.61	qQ				
1+20	1.5680	4.69	qQ				
1+21	1.6117	4.77	qQ				
1+22	1.6557	4.85	q Q				
1+23	1.6998	4.94	q Q				
1+24	1.7439	5.02	q Q				
1+25	1.7878	5.10	q Q				
1+26	1.8315	5.18	q Q				
1+27	1.8752	5.26	q Q				
1+28	1.9186	5.34	q Q				
1+29	1.9619	5.42	q Q				
1+30	2.0051	5.50	qQ				
1+31	2.0482	5.58	qQ				
1+32	2.0913	5.67	qQ				

1+33	2.1343	5.75	qQ					
1+34	2.1774	5.83	qQ					
1+35	2.2204	5.91	qQ					
1+36	2.2635	5.99	qQ					
1+37	2.3064	6.07	qQ					
1+38	2.3492	6.15	qQ					
1+39	2.3919	6.23	qQ					
1+40	2.4344	6.31	qQ					
1+41	2.4769	6.39	qQ					
1+42	2.5192	6.47	q Q					
1+43	2.5614	6.55	q Q					
1+44	2.6035	6.63	q Q					
1+45	2.6456	6.72	q Q					
1+46	2.6878	6.80	q Q					
1+47	2.7300	6.88	q Q					
1+48	2.7722	6.96	q Q					
1+49	2.8145	7.04	q Q					
1+50	2.8568	7.12	q Q					
1+51	2.8991	7.20	q Q					
1+52	2.9413	7.28	q Q					
1+53	2.9834	7.36	q Q					
1+54	3.0254	7.44	qQ					
1+55	3.0674	7.53	qQ					
1+56	3.1092	7.61	qQ					
1+57	3.1509	7.69	qQ					
1+58	3.1927	7.77	qQ					
1+59	3.2346	7.85	qQ					
2+ 0	3.2765	7.93	qQ					
2+ 1	3.3185	8.01	qQ					
2+ 2	3.3607	8.09	q Q					
2+ 3	3.4029	8.18	q Q					
2+ 4	3.4452	8.26	q Q					
2+ 5	3.4876	8.34	q Q					
2+ 6	3.5299	8.43	q Q					
2+ 7	3.5723	8.51	q Q					
2+ 8	3.6146	8.59	q Q					
2+ 9	3.6568	8.67	q Q					
2+10	3.6989	8.76	q Q					
2+11	3.7410	8.84	q Q					
2+12	3.7832	8.92	q Q					
2+13	3.8255	9.01	q Q					
2+14	3.8681	9.09	q Q					
2+15	3.9108	9.18	q Q					
2+16	3.9537	9.26	q Q					
2+17	3.9968	9.35	q Q					
2+18	4.0401	9.43	qQ					
2+19	4.0834	9.52	qQ					
2+20	4.1268	9.60	qQ					
2+21	4.1702	9.69	q Q					
2+22	4.2136	9.78	q Q					
2+23	4.2571	9.86	q Q					
2+24	4.3005	9.95	q Q					
2+25	4.3440	10.04	q Q					
2+26	4.3876	10.12	q Q					
2+27	4.4314	10.21	q Q					
2+28	4.4755	10.30	q Q					
2+29	4.5199	10.39	q Q					
2+30	4.5647	10.48	q Q					
2+31	4.6098	10.57	q Q					
2+32	4.6551	10.66	q Q					
2+33	4.7007	10.75	q Q					
2+34	4.7463	10.84	q Q					
2+35	4.7920	10.93	q Q					
2+36	4.8377	11.02	q Q					
2+37	4.8836	11.11	q Q					
2+38	4.9306	11.21	q Q					
2+39	4.9810	11.30	q Q					
2+40	5.0347	11.41	q Q					
2+41	5.0899	11.52	q Q					
2+42	5.1460	11.63	q Q					
2+43	5.2026	11.73	q Q					

2+44	5.2598	11.85	q	Q				
2+45	5.3175	11.96	q	Q				
2+46	5.3757	12.07	q	Q				
2+47	5.4342	12.18	q	Q				
2+48	5.4929	12.30	q	Q				
2+49	5.5518	12.41	q	Q				
2+50	5.6106	12.53	q	Q				
2+51	5.6696	12.64	q	Q				
2+52	5.7287	12.76	q	Q				
2+53	5.7880	12.87	q	Q				
2+54	5.8479	12.99	q	Q				
2+55	5.9083	13.11	q	Q				
2+56	5.9695	13.23	q	Q				
2+57	6.0315	13.35	q	Q				
2+58	6.0941	13.47	q	Q				
2+59	6.1575	13.59	q	Q				
3+ 0	6.2215	13.72	q	Q				
3+ 1	6.2862	13.84	q	Q				
3+ 2	6.3513	13.97	q	Q				
3+ 3	6.4168	14.10	q	Q				
3+ 4	6.4826	14.25	q	Q				
3+ 5	6.5486	14.40	q	Q				
3+ 6	6.6149	14.56	q	Q				
3+ 7	6.6816	14.72	q	Q				
3+ 8	6.7490	14.88	q	Q				
3+ 9	6.8176	15.05	q	Q				
3+10	6.8874	15.21	q	Q				
3+11	6.9585	15.38	q	Q				
3+12	7.0309	15.55	q	Q				
3+13	7.1045	15.72	q	Q				
3+14	7.1792	15.90	q	Q				
3+15	7.2547	16.07	q	Q				
3+16	7.3311	16.25	q	Q				
3+17	7.4082	16.43	q	Q				
3+18	7.4860	16.61	q	Q				
3+19	7.5645	16.80	q	Q				
3+20	7.6437	16.98	q	Q				
3+21	7.7237	17.17	q	Q				
3+22	7.8049	17.36	q	Q				
3+23	7.8880	17.55	q	Q				
3+24	7.9732	17.75	q	Q				
3+25	8.0606	17.95	q	Q				
3+26	8.1505	18.16	q	Q				
3+27	8.2426	18.37	q	Q				
3+28	8.3368	18.59	q	Q				
3+29	8.4327	18.81	q	Q				
3+30	8.5301	19.03	q	Q				
3+31	8.6287	19.26	q	Q				
3+32	8.7288	19.49	q	Q				
3+33	8.8304	19.72	q	Q				
3+34	8.9336	19.96	q	Q				
3+35	9.0388	20.21	q	Q				
3+36	9.1469	20.46	q	Q				
3+37	9.2588	20.72	q	Q				
3+38	9.3748	20.99	q	Q				
3+39	9.5021	21.27	q	Q				
3+40	9.6484	21.59	q	Q				
3+41	9.8081	21.93	q	Q				
3+42	9.9763	22.29	q	Q				
3+43	10.1506	22.67	q	Q				
3+44	10.3298	23.06	q	Q				
3+45	10.5131	23.46	q	Q				
3+46	10.7003	23.87	q	Q				
3+47	10.8914	24.29	q	Q				
3+48	11.0872	24.72	q	Q				
3+49	11.2901	25.16	q	Q				
3+50	11.5047	25.63	q	Q				
3+51	11.7350	26.13	q	Q				
3+52	11.9825	26.67	q	Q				
3+53	12.2498	27.26	q	Q				
3+54	12.5391	27.91	q	Q				

5+ 6	20.9098	43.65			q	Q	
5+ 7	20.9098	43.53			q	Q	
5+ 8	20.9098	43.42			q	Q	
5+ 9	20.9098	43.31			q	Q	
5+10	20.9098	43.20			q	Q	
5+11	20.9098	43.10			q	Q	
5+12	20.9098	43.00			q	Q	
5+13	20.9098	42.90			q	Q	
5+14	20.9098	42.82			q	Q	
5+15	20.9098	42.80			q	Q	
5+16	20.9098	42.77			q	Q	
5+17	20.9098	42.75			q	Q	
5+18	20.9098	42.72			q	Q	
5+19	20.9098	42.70			q	Q	
5+20	20.9098	42.67			q	Q	
5+21	20.9098	42.65			q	Q	
5+22	20.9098	42.62			q	Q	
5+23	20.9098	42.60			q	Q	
5+24	20.9098	42.58			q	Q	
5+25	20.9098	42.55			q	Q	
5+26	20.9098	42.53			q	Q	
5+27	20.9098	42.50			q	Q	
5+28	20.9098	42.48			q	Q	
5+29	20.9098	42.45			q	Q	
5+30	20.9098	42.43			q	Q	
5+31	20.9098	42.40			q	Q	
5+32	20.9098	42.38			q	Q	
5+33	20.9098	42.35			q	Q	
5+34	20.9098	42.33			q	Q	
5+35	20.9098	42.31			q	Q	
5+36	20.9098	42.28			q	Q	
5+37	20.9098	42.26			q	Q	
5+38	20.9098	42.23			q	Q	
5+39	20.9098	42.21			q	Q	
5+40	20.9098	42.18			q	Q	
5+41	20.9098	42.16			q	Q	
5+42	20.9098	42.14			q	Q	
5+43	20.9098	42.11			q	Q	
5+44	20.9098	42.09			q	Q	
5+45	20.9098	42.07			q	Q	
5+46	20.9098	42.04			q	Q	
5+47	20.9098	42.02			q	Q	
5+48	20.9098	42.00			q	Q	
5+49	20.9098	41.97			q	Q	
5+50	20.9098	41.95			q	Q	
5+51	20.9098	41.93			q	Q	
5+52	20.9098	41.90			q	Q	
5+53	20.9098	41.88			q	Q	
5+54	20.9098	41.86			q	Q	
5+55	20.9098	41.84			q	Q	
5+56	20.9098	41.81			q	Q	
5+57	20.9098	41.79			q	Q	
5+58	20.9098	41.77			q	Q	
5+59	20.9098	41.75			q	Q	
6+ 0	20.9098	41.73			q	Q	
6+ 1	20.9098	41.70			q	Q	
6+ 2	20.9098	41.68			q	Q	
6+ 3	20.9098	41.66			q	Q	
6+ 4	20.9098	41.64			q	Q	
6+ 5	20.9098	41.62			q	Q	
6+ 6	20.9098	41.58			q	Q	
6+ 7	20.9098	41.53			q	Q	
6+ 8	20.9098	41.48			q	Q	
6+ 9	20.9098	41.43			q	Q	
6+10	20.9098	41.38			q	Q	
6+11	20.9098	41.33			q	Q	
6+12	20.9098	41.28			q	Q	
6+13	20.9098	41.24			q	Q	
6+14	20.9098	41.19			q	Q	
6+15	20.9098	41.14			q	Q	
6+16	20.9098	41.10			q	Q	

6+17	20.9098	41.05			q	Q		
6+18	20.9098	41.01			q	Q		
6+19	20.9098	40.96			q	Q		
6+20	20.9098	40.92			q	Q		
6+21	20.9098	40.87			q	Q		
6+22	20.9098	40.83			q	Q		
6+23	20.9098	40.79			q	Q		
6+24	20.9098	40.74			q	Q		
6+25	20.9098	40.70			q	Q		
6+26	20.9098	40.66			q	Q		
6+27	20.9098	40.62			q	Q		
6+28	20.9098	40.58			q	Q		
6+29	20.9098	40.54			q	Q		
6+30	20.9098	40.50			q	Q		
6+31	20.9098	40.46			q	Q		
6+32	20.9098	40.42			q	Q		
6+33	20.9098	40.39			q	Q		
6+34	20.9098	40.35			q	Q		
6+35	20.9098	40.31			q	Q		
6+36	20.9098	40.27			q	Q		
6+37	20.9098	40.24			q	Q		
6+38	20.9098	40.20			q	Q		
6+39	20.9098	40.17			q	Q		
6+40	20.9098	40.13			q	Q		
6+41	20.9098	40.10			q	Q		
6+42	20.9098	40.06			q	Q		
6+43	20.9098	40.03			q	Q		
6+44	20.9098	39.99			q	Q		
6+45	20.9098	39.96			q	Q		
6+46	20.9098	39.93			q	Q		
6+47	20.9098	39.89			q	Q		
6+48	20.9098	39.86			q	Q		
6+49	20.9098	39.83			q	Q		
6+50	20.9098	39.80			q	Q		
6+51	20.9098	39.77			q	Q		
6+52	20.9098	39.74			q	Q		
6+53	20.9098	39.71			q	Q		
6+54	20.9098	39.68			q	Q		
6+55	20.9098	39.65			q	Q		
6+56	20.9098	39.62			q	Q		
6+57	20.9098	39.59			q	Q		
6+58	20.9098	39.56			q	Q		
6+59	20.9098	39.53			q	Q		
7+ 0	20.9098	39.50			q	Q		
7+ 1	20.9098	39.47			q	Q		
7+ 2	20.9098	39.44			q	Q		
7+ 3	20.9098	39.42			q	Q		
7+ 4	20.9098	39.39			q	Q		
7+ 5	20.9098	39.36			q	Q		
7+ 6	20.9098	39.33			q	Q		
7+ 7	20.9098	39.31			q	Q		
7+ 8	20.9098	39.28			q	Q		
7+ 9	20.9098	39.26			q	Q		
7+10	20.9098	39.23			q	Q		
7+11	20.9098	39.21			q	Q		
7+12	20.9098	39.18			q	Q		
7+13	20.9098	39.16			q	Q		
7+14	20.9098	39.13			q	Q		
7+15	20.9098	39.11			q	Q		
7+16	20.9098	39.08			q	Q		
7+17	20.9098	39.06			q	Q		
7+18	20.9098	39.04			q	Q		
7+19	20.9098	39.01			q	Q		
7+20	20.9098	38.99			q	Q		
7+21	20.9098	38.97			q	Q		
7+22	20.9098	38.94			q	Q		
7+23	20.9098	38.92			q	Q		
7+24	20.9098	38.90			q	Q		
7+25	20.9098	38.88			q	Q		
7+26	20.9098	38.86			q	Q		
7+27	20.9098	38.84			q	Q		

7+28	20.9098	38.81			q	Q		
7+29	20.9098	38.79			q	Q		
7+30	20.9098	38.77			q	Q		
7+31	20.9098	38.75			q	Q		
7+32	20.9098	38.73			q	Q		
7+33	20.9098	38.71			q	Q		
7+34	20.9098	38.69			q	Q		
7+35	20.9098	38.67			q	Q		
7+36	20.9098	38.65			q	Q		
7+37	20.9098	38.63			q	Q		
7+38	20.9098	38.62			q	Q		
7+39	20.9098	38.60			q	Q		
7+40	20.9098	38.58			q	Q		
7+41	20.9098	38.56			q	Q		
7+42	20.9098	38.54			q	Q		
7+43	20.9098	38.52			q	Q		
7+44	20.9098	38.51			q	Q		
7+45	20.9098	38.49			q	Q		
7+46	20.9098	38.47			q	Q		
7+47	20.9098	38.45			q	Q		
7+48	20.9098	38.44			q	Q		
7+49	20.9098	38.42			q	Q		
7+50	20.9098	38.40			q	Q		
7+51	20.9098	38.38			q	Q		
7+52	20.9098	38.37			q	Q		
7+53	20.9098	38.35			q	Q		
7+54	20.9098	38.34			q	Q		
7+55	20.9098	38.32			q	Q		
7+56	20.9098	38.30			q	Q		
7+57	20.9098	38.29			q	Q		
7+58	20.9098	38.27			q	Q		
7+59	20.9098	38.26			q	Q		
8+ 0	20.9098	38.24			q	Q		
8+ 1	20.9098	38.23			q	Q		
8+ 2	20.9098	38.21			q	Q		
8+ 3	20.9098	38.20			q	Q		
8+ 4	20.9098	38.18			q	Q		
8+ 5	20.9098	38.17			q	Q		
8+ 6	20.9098	38.15			q	Q		
8+ 7	20.9098	38.14			q	Q		
8+ 8	20.9098	38.12			q	Q		
8+ 9	20.9098	38.11			q	Q		
8+10	20.9098	38.10			q	Q		
8+11	20.9098	38.08			q	Q		
8+12	20.9098	38.07			q	Q		
8+13	20.9098	38.05			q	Q		
8+14	20.9098	38.04			q	Q		
8+15	20.9098	38.03			q	Q		
8+16	20.9098	38.01			q	Q		
8+17	20.9098	38.00			q	Q		
8+18	20.9098	37.99			q	Q		
8+19	20.9098	37.98			q	Q		
8+20	20.9098	37.96			q	Q		
8+21	20.9098	37.95			q	Q		
8+22	20.9098	37.94			q	Q		
8+23	20.9098	37.93			q	Q		
8+24	20.9098	37.91			q	Q		
8+25	20.9098	37.90			q	Q		
8+26	20.9098	37.89			q	Q		
8+27	20.9098	37.88			q	Q		
8+28	20.9098	37.86			q	Q		
8+29	20.9098	37.85			q	Q		
8+30	20.9098	37.84			q	Q		
8+31	20.9098	37.83			q	Q		
8+32	20.9098	37.82			q	Q		
8+33	20.9098	37.81			q	Q		
8+34	0.0000	4.09	q	Q				
8+35	0.0000	4.08	q	Q				
8+36	0.0000	4.07	q	Q				
8+37	0.0000	4.06	q	Q				
8+38	0.0000	4.04	q	Q				

8+39	0.0000	4.03	q Q				
8+40	0.0000	4.02	q Q				
8+41	0.0000	4.01	q Q				
8+42	0.0000	4.00	q Q				
8+43	0.0000	3.99	q Q				
8+44	0.0000	3.98	q Q				
8+45	0.0000	3.97	q Q				
8+46	0.0000	3.96	q Q				
8+47	0.0000	3.95	q Q				
8+48	0.0000	3.94	q Q				
8+49	0.0000	3.93	q Q				
8+50	0.0000	3.92	q Q				
8+51	0.0000	3.91	q Q				
8+52	0.0000	3.90	q Q				
8+53	0.0000	3.89	q Q				
8+54	0.0000	3.88	q Q				
8+55	0.0000	3.87	q Q				
8+56	0.0000	3.86	q Q				
8+57	0.0000	3.85	q Q				
8+58	0.0000	3.84	q Q				
8+59	0.0000	3.83	q Q				
9+ 0	0.0000	3.82	q Q				
9+ 1	0.0000	3.81	q Q				
9+ 2	0.0000	3.80	q Q				
9+ 3	0.0000	3.79	q Q				
9+ 4	0.0000	3.78	q Q				
9+ 5	0.0000	3.77	q Q				
9+ 6	0.0000	3.76	q Q				
9+ 7	0.0000	3.76	q Q				
9+ 8	0.0000	3.75	q Q				
9+ 9	0.0000	3.75	q Q				
9+10	0.0000	3.74	q Q				
9+11	0.0000	3.74	q Q				
9+12	0.0000	3.74	q Q				
9+13	0.0000	3.73	q Q				
9+14	0.0000	3.73	q Q				
9+15	0.0000	3.72	q Q				
9+16	0.0000	3.72	q Q				
9+17	0.0000	3.72	q Q				
9+18	0.0000	3.71	q Q				
9+19	0.0000	3.71	q Q				
9+20	0.0000	3.70	q Q				
9+21	0.0000	3.70	q Q				
9+22	0.0000	3.69	q Q				
9+23	0.0000	3.69	q Q				
9+24	0.0000	3.69	q Q				
9+25	0.0000	3.68	q Q				
9+26	0.0000	3.68	q Q				
9+27	0.0000	3.67	q Q				
9+28	0.0000	3.67	q Q				
9+29	0.0000	3.67	q Q				
9+30	0.0000	3.66	q Q				
9+31	0.0000	3.66	q Q				
9+32	0.0000	3.65	q Q				
9+33	0.0000	3.65	q Q				
9+34	0.0000	3.64	q Q				
9+35	0.0000	3.64	q Q				
9+36	0.0000	3.64	q Q				
9+37	0.0000	3.63	q Q				
9+38	0.0000	3.63	q Q				
9+39	0.0000	3.62	q Q				
9+40	0.0000	3.62	q Q				
9+41	0.0000	3.61	q Q				
9+42	0.0000	3.61	q Q				
9+43	0.0000	3.61	q Q				
9+44	0.0000	3.60	q Q				
9+45	0.0000	3.60	q Q				
9+46	0.0000	3.59	q Q				
9+47	0.0000	3.59	q Q				
9+48	0.0000	3.58	q Q				
9+49	0.0000	3.58	q Q				

9+50	0.0000	3.58	q Q				
9+51	0.0000	3.57	q Q				
9+52	0.0000	3.57	q Q				
9+53	0.0000	3.56	q Q				
9+54	0.0000	3.56	q Q				
9+55	0.0000	3.55	q Q				
9+56	0.0000	3.55	q Q				
9+57	0.0000	3.55	q Q				
9+58	0.0000	3.54	q Q				
9+59	0.0000	3.54	q Q				
10+ 0	0.0000	3.53	q Q				
10+ 1	0.0000	3.53	q Q				
10+ 2	0.0000	3.52	q Q				
10+ 3	0.0000	3.52	q Q				
10+ 4	0.0000	3.52	q Q				
10+ 5	0.0000	3.51	q Q				
10+ 6	0.0000	3.51	q Q				
10+ 7	0.0000	3.50	q Q				
10+ 8	0.0000	3.50	q Q				
10+ 9	0.0000	3.49	q Q				
10+10	0.0000	3.49	q Q				
10+11	0.0000	3.49	q Q				
10+12	0.0000	3.48	q Q				
10+13	0.0000	3.48	q Q				
10+14	0.0000	3.47	q Q				
10+15	0.0000	3.47	q Q				
10+16	0.0000	3.46	q Q				
10+17	0.0000	3.46	q Q				
10+18	0.0000	3.45	q Q				
10+19	0.0000	3.45	q Q				
10+20	0.0000	3.45	q Q				
10+21	0.0000	3.44	q Q				
10+22	0.0000	3.44	q Q				
10+23	0.0000	3.43	q Q				
10+24	0.0000	3.43	q Q				
10+25	0.0000	3.42	q Q				
10+26	0.0000	3.42	q Q				
10+27	0.0000	3.42	q Q				
10+28	0.0000	3.41	q Q				
10+29	0.0000	3.41	q Q				
10+30	0.0000	3.40	q Q				
10+31	0.0000	3.40	q Q				
10+32	0.0000	3.39	q Q				
10+33	0.0000	3.39	q Q				
10+34	0.0000	3.39	q Q				
10+35	0.0000	3.38	q Q				
10+36	0.0000	3.38	q Q				
10+37	0.0000	3.37	q Q				
10+38	0.0000	3.37	q Q				
10+39	0.0000	3.36	q Q				
10+40	0.0000	3.36	q Q				
10+41	0.0000	3.35	q Q				
10+42	0.0000	3.35	q Q				
10+43	0.0000	3.35	q Q				
10+44	0.0000	3.34	q Q				
10+45	0.0000	3.34	q Q				
10+46	0.0000	3.33	q Q				
10+47	0.0000	3.33	q Q				
10+48	0.0000	3.32	q Q				
10+49	0.0000	3.32	q Q				
10+50	0.0000	3.32	q Q				
10+51	0.0000	3.31	q Q				
10+52	0.0000	3.31	q Q				
10+53	0.0000	3.30	q Q				
10+54	0.0000	3.30	q Q				
10+55	0.0000	3.29	q Q				
10+56	0.0000	3.29	q Q				
10+57	0.0000	3.28	q Q				
10+58	0.0000	3.28	q Q				
10+59	0.0000	3.28	q Q				
11+ 0	0.0000	3.27	q Q				

11+ 1	0.0000	3.27	q Q				
11+ 2	0.0000	3.26	q Q				
11+ 3	0.0000	3.26	q Q				
11+ 4	0.0000	3.25	q Q				
11+ 5	0.0000	3.25	q Q				
11+ 6	0.0000	3.25	q Q				
11+ 7	0.0000	3.24	q Q				
11+ 8	0.0000	3.24	q Q				
11+ 9	0.0000	3.23	q Q				
11+10	0.0000	3.23	q Q				
11+11	0.0000	3.22	q Q				
11+12	0.0000	3.22	qQ				
11+13	0.0000	3.22	qQ				
11+14	0.0000	3.21	qQ				
11+15	0.0000	3.21	qQ				
11+16	0.0000	3.20	qQ				
11+17	0.0000	3.20	qQ				
11+18	0.0000	3.19	qQ				
11+19	0.0000	3.19	qQ				
11+20	0.0000	3.18	qQ				
11+21	0.0000	3.18	qQ				
11+22	0.0000	3.18	qQ				
11+23	0.0000	3.17	qQ				
11+24	0.0000	3.17	qQ				
11+25	0.0000	3.16	qQ				
11+26	0.0000	3.16	qQ				
11+27	0.0000	3.15	qQ				
11+28	0.0000	3.15	qQ				
11+29	0.0000	3.15	qQ				
11+30	0.0000	3.14	qQ				
11+31	0.0000	3.14	qQ				
11+32	0.0000	3.13	qQ				
11+33	0.0000	3.13	qQ				
11+34	0.0000	3.12	qQ				
11+35	0.0000	3.12	qQ				
11+36	0.0000	3.12	qQ				
11+37	0.0000	3.11	qQ				
11+38	0.0000	3.11	qQ				
11+39	0.0000	3.10	qQ				
11+40	0.0000	3.10	qQ				
11+41	0.0000	3.09	qQ				
11+42	0.0000	3.09	qQ				
11+43	0.0000	3.09	qQ				
11+44	0.0000	3.08	qQ				
11+45	0.0000	3.08	qQ				
11+46	0.0000	3.07	qQ				
11+47	0.0000	3.07	qQ				
11+48	0.0000	3.06	qQ				
11+49	0.0000	3.06	qQ				
11+50	0.0000	3.06	qQ				
11+51	0.0000	3.05	qQ				
11+52	0.0000	3.05	qQ				
11+53	0.0000	3.04	qQ				
11+54	0.0000	3.04	qQ				
11+55	0.0000	3.03	qQ				
11+56	0.0000	3.03	qQ				
11+57	0.0000	3.03	qQ				
11+58	0.0000	3.02	qQ				
11+59	0.0000	3.02	qQ				
12+ 0	0.0000	3.01	qQ				
12+ 1	0.0000	3.01	qQ				
12+ 2	0.0000	3.01	qQ				
12+ 3	0.0000	3.00	qQ				
12+ 4	0.0000	3.00	qQ				
12+ 5	0.0000	2.99	qQ				
12+ 6	0.0000	2.99	qQ				
12+ 7	0.0000	2.98	qQ				
12+ 8	0.0000	2.98	qQ				
12+ 9	0.0000	2.98	qQ				
12+10	0.0000	2.97	qQ				
12+11	0.0000	2.97	qQ				

12+12	0.0000	2.96	qQ				
12+13	0.0000	2.96	qQ				
12+14	0.0000	2.95	qQ				
12+15	0.0000	2.95	qQ				
12+16	0.0000	2.95	qQ				
12+17	0.0000	2.94	qQ				
12+18	0.0000	2.94	qQ				
12+19	0.0000	2.93	qQ				
12+20	0.0000	2.93	qQ				
12+21	0.0000	2.93	qQ				
12+22	0.0000	2.92	qQ				
12+23	0.0000	2.92	qQ				
12+24	0.0000	2.91	qQ				
12+25	0.0000	2.91	qQ				
12+26	0.0000	2.90	qQ				
12+27	0.0000	2.90	qQ				
12+28	0.0000	2.90	qQ				
12+29	0.0000	2.89	qQ				
12+30	0.0000	2.89	qQ				
12+31	0.0000	2.88	qQ				
12+32	0.0000	2.88	qQ				
12+33	0.0000	2.88	qQ				
12+34	0.0000	2.87	qQ				
12+35	0.0000	2.87	qQ				
12+36	0.0000	2.86	qQ				
12+37	0.0000	2.86	qQ				
12+38	0.0000	2.85	qQ				
12+39	0.0000	2.85	qQ				
12+40	0.0000	2.85	qQ				
12+41	0.0000	2.84	qQ				
12+42	0.0000	2.84	qQ				
12+43	0.0000	2.83	qQ				
12+44	0.0000	2.83	qQ				
12+45	0.0000	2.83	qQ				
12+46	0.0000	2.82	qQ				
12+47	0.0000	2.82	qQ				
12+48	0.0000	2.81	qQ				
12+49	0.0000	2.81	qQ				
12+50	0.0000	2.80	qQ				
12+51	0.0000	2.80	qQ				
12+52	0.0000	2.80	qQ				
12+53	0.0000	2.79	qQ				
12+54	0.0000	2.79	qQ				
12+55	0.0000	2.78	qQ				
12+56	0.0000	2.78	qQ				
12+57	0.0000	2.78	qQ				
12+58	0.0000	2.77	qQ				
12+59	0.0000	2.77	qQ				
13+ 0	0.0000	2.76	qQ				
13+ 1	0.0000	2.76	qQ				
13+ 2	0.0000	2.76	qQ				
13+ 3	0.0000	2.75	qQ				
13+ 4	0.0000	2.75	qQ				
13+ 5	0.0000	2.74	qQ				
13+ 6	0.0000	2.74	qQ				
13+ 7	0.0000	2.73	qQ				
13+ 8	0.0000	2.73	qQ				
13+ 9	0.0000	2.73	qQ				
13+10	0.0000	2.72	qQ				
13+11	0.0000	2.72	qQ				
13+12	0.0000	2.71	qQ				
13+13	0.0000	2.71	qQ				
13+14	0.0000	2.71	qQ				
13+15	0.0000	2.70	qQ				
13+16	0.0000	2.70	qQ				
13+17	0.0000	2.69	qQ				
13+18	0.0000	2.69	qQ				
13+19	0.0000	2.69	qQ				
13+20	0.0000	2.68	qQ				
13+21	0.0000	2.68	qQ				
13+22	0.0000	2.67	qQ				

13+23	0.0000	2.67	qQ				
13+24	0.0000	2.67	qQ				
13+25	0.0000	2.66	qQ				
13+26	0.0000	2.66	qQ				
13+27	0.0000	2.65	qQ				
13+28	0.0000	2.65	qQ				
13+29	0.0000	2.64	qQ				
13+30	0.0000	2.64	qQ				
13+31	0.0000	2.64	qQ				
13+32	0.0000	2.63	qQ				
13+33	0.0000	2.63	qQ				
13+34	0.0000	2.62	qQ				
13+35	0.0000	2.62	qQ				
13+36	0.0000	2.62	qQ				
13+37	0.0000	2.61	qQ				
13+38	0.0000	2.61	qQ				
13+39	0.0000	2.60	qQ				
13+40	0.0000	2.60	qQ				
13+41	0.0000	2.60	qQ				
13+42	0.0000	2.59	qQ				
13+43	0.0000	2.59	qQ				
13+44	0.0000	2.58	qQ				
13+45	0.0000	2.58	qQ				
13+46	0.0000	2.58	qQ				
13+47	0.0000	2.57	qQ				
13+48	0.0000	2.57	qQ				
13+49	0.0000	2.56	qQ				
13+50	0.0000	2.56	qQ				
13+51	0.0000	2.56	qQ				
13+52	0.0000	2.55	qQ				
13+53	0.0000	2.55	qQ				
13+54	0.0000	2.54	qQ				
13+55	0.0000	2.54	qQ				
13+56	0.0000	2.54	qQ				
13+57	0.0000	2.53	qQ				
13+58	0.0000	2.53	qQ				
13+59	0.0000	2.52	qQ				
14+ 0	0.0000	2.52	qQ				
14+ 1	0.0000	2.52	qQ				
14+ 2	0.0000	2.51	qQ				
14+ 3	0.0000	2.51	qQ				
14+ 4	0.0000	2.50	qQ				
14+ 5	0.0000	2.50	qQ				
14+ 6	0.0000	2.50	qQ				
14+ 7	0.0000	2.49	qQ				
14+ 8	0.0000	2.49	qQ				
14+ 9	0.0000	2.48	qQ				
14+10	0.0000	2.48	qQ				
14+11	0.0000	2.48	qQ				
14+12	0.0000	2.47	qQ				
14+13	0.0000	2.47	qQ				
14+14	0.0000	2.47	qQ				
14+15	0.0000	2.46	qQ				
14+16	0.0000	2.46	qQ				
14+17	0.0000	2.45	qQ				
14+18	0.0000	2.45	qQ				
14+19	0.0000	2.45	qQ				
14+20	0.0000	2.44	qQ				
14+21	0.0000	2.44	qQ				
14+22	0.0000	2.43	qQ				
14+23	0.0000	2.43	qQ				
14+24	0.0000	2.43	qQ				
14+25	0.0000	2.42	qQ				
14+26	0.0000	2.42	qQ				
14+27	0.0000	2.41	qQ				
14+28	0.0000	2.41	qQ				
14+29	0.0000	2.40	qQ				
14+30	0.0000	2.40	qQ				
14+31	0.0000	2.39	qQ				
14+32	0.0000	2.39	qQ				
14+33	0.0000	2.39	qQ				

14+34	0.0000	2.38	qQ				
14+35	0.0000	2.38	qQ				
14+36	0.0000	2.37	qQ				
14+37	0.0000	2.37	qQ				
14+38	0.0000	2.36	qQ				
14+39	0.0000	2.36	qQ				
14+40	0.0000	2.35	qQ				
14+41	0.0000	2.35	qQ				
14+42	0.0000	2.34	qQ				
14+43	0.0000	2.34	qQ				
14+44	0.0000	2.33	qQ				
14+45	0.0000	2.33	qQ				
14+46	0.0000	2.32	qQ				
14+47	0.0000	2.32	qQ				
14+48	0.0000	2.31	qQ				
14+49	0.0000	2.31	qQ				
14+50	0.0000	2.30	qQ				
14+51	0.0000	2.30	qQ				
14+52	0.0000	2.29	qQ				
14+53	0.0000	2.29	qQ				
14+54	0.0000	2.28	qQ				
14+55	0.0000	2.28	qQ				
14+56	0.0000	2.27	qQ				
14+57	0.0000	2.27	qQ				
14+58	0.0000	2.26	qQ				
14+59	0.0000	2.26	qQ				
15+ 0	0.0000	2.25	qQ				
15+ 1	0.0000	2.25	qQ				
15+ 2	0.0000	2.24	qQ				
15+ 3	0.0000	2.24	qQ				
15+ 4	0.0000	2.23	qQ				
15+ 5	0.0000	2.23	qQ				
15+ 6	0.0000	2.22	qQ				
15+ 7	0.0000	2.22	qQ				
15+ 8	0.0000	2.21	qQ				
15+ 9	0.0000	2.21	qQ				
15+10	0.0000	2.20	qQ				
15+11	0.0000	2.19	qQ				
15+12	0.0000	2.19	qQ				
15+13	0.0000	2.18	qQ				
15+14	0.0000	2.18	qQ				
15+15	0.0000	2.17	qQ				
15+16	0.0000	2.17	qQ				
15+17	0.0000	2.16	qQ				
15+18	0.0000	2.16	qQ				
15+19	0.0000	2.15	qQ				
15+20	0.0000	2.15	qQ				
15+21	0.0000	2.14	qQ				
15+22	0.0000	2.13	qQ				
15+23	0.0000	2.13	qQ				
15+24	0.0000	2.12	qQ				
15+25	0.0000	2.12	qQ				
15+26	0.0000	2.11	qQ				
15+27	0.0000	2.11	qQ				
15+28	0.0000	2.10	qQ				
15+29	0.0000	2.10	qQ				
15+30	0.0000	2.09	qQ				
15+31	0.0000	2.08	qQ				
15+32	0.0000	2.08	qQ				
15+33	0.0000	2.07	qQ				
15+34	0.0000	2.07	qQ				
15+35	0.0000	2.06	qQ				
15+36	0.0000	2.06	qQ				
15+37	0.0000	2.05	qQ				
15+38	0.0000	2.04	qQ				
15+39	0.0000	2.04	qQ				
15+40	0.0000	2.03	qQ				
15+41	0.0000	2.03	qQ				
15+42	0.0000	2.02	qQ				
15+43	0.0000	2.02	qQ				
15+44	0.0000	2.01	qQ				

15+45	0.0000	2.00	qQ				
15+46	0.0000	2.00	qQ				
15+47	0.0000	1.99	qQ				
15+48	0.0000	1.99	qQ				
15+49	0.0000	1.98	qQ				
15+50	0.0000	1.98	qQ				
15+51	0.0000	1.97	qQ				
15+52	0.0000	1.96	qQ				
15+53	0.0000	1.96	qQ				
15+54	0.0000	1.95	qQ				
15+55	0.0000	1.95	qQ				
15+56	0.0000	1.94	qQ				
15+57	0.0000	1.93	qQ				
15+58	0.0000	1.93	qQ				
15+59	0.0000	1.92	qQ				
16+ 0	0.0000	1.92	qQ				
16+ 1	0.0000	1.91	qQ				
16+ 2	0.0000	1.91	qQ				
16+ 3	0.0000	1.90	qQ				
16+ 4	0.0000	1.89	qQ				
16+ 5	0.0000	1.89	qQ				
16+ 6	0.0000	1.88	qQ				
16+ 7	0.0000	1.88	qQ				
16+ 8	0.0000	1.87	qQ				
16+ 9	0.0000	1.87	qQ				
16+10	0.0000	1.86	qQ				
16+11	0.0000	1.85	qQ				
16+12	0.0000	1.85	qQ				
16+13	0.0000	1.84	qQ				
16+14	0.0000	1.84	qQ				
16+15	0.0000	1.83	qQ				
16+16	0.0000	1.83	qQ				
16+17	0.0000	1.82	qQ				
16+18	0.0000	1.81	qQ				
16+19	0.0000	1.81	qQ				
16+20	0.0000	1.80	qQ				
16+21	0.0000	1.80	qQ				
16+22	0.0000	1.79	qQ				
16+23	0.0000	1.78	qQ				
16+24	0.0000	1.78	qQ				
16+25	0.0000	1.77	qQ				
16+26	0.0000	1.77	qQ				
16+27	0.0000	1.76	qQ				
16+28	0.0000	1.76	qQ				
16+29	0.0000	1.75	qQ				
16+30	0.0000	1.74	qQ				
16+31	0.0000	1.74	qQ				
16+32	0.0000	1.73	qQ				
16+33	0.0000	1.73	qQ				
16+34	0.0000	1.72	qQ				
16+35	0.0000	1.72	qQ				
16+36	0.0000	1.71	qQ				
16+37	0.0000	1.71	qQ				
16+38	0.0000	1.70	qQ				
16+39	0.0000	1.69	qQ				
16+40	0.0000	1.69	qQ				
16+41	0.0000	1.68	qQ				
16+42	0.0000	1.68	qQ				
16+43	0.0000	1.67	qQ				
16+44	0.0000	1.67	qQ				
16+45	0.0000	1.66	qQ				
16+46	0.0000	1.65	qQ				
16+47	0.0000	1.65	qQ				
16+48	0.0000	1.64	qQ				
16+49	0.0000	1.64	qQ				
16+50	0.0000	1.64	qQ				
16+51	0.0000	1.64	qQ				
16+52	0.0000	1.64	qQ				
16+53	0.0000	1.64	qQ				
16+54	0.0000	1.64	qQ				
16+55	0.0000	1.64	qQ				

16+56	0.0000	1.64	qQ				
16+57	0.0000	1.64	qQ				
16+58	0.0000	1.64	qQ				
16+59	0.0000	1.64	qQ				
17+ 0	0.0000	1.64	qQ				
17+ 1	0.0000	1.64	qQ				
17+ 2	0.0000	1.63	qQ				
17+ 3	0.0000	1.63	qQ				
17+ 4	0.0000	1.63	qQ				
17+ 5	0.0000	1.63	qQ				
17+ 6	0.0000	1.63	qQ				
17+ 7	0.0000	1.63	qQ				
17+ 8	0.0000	1.63	qQ				
17+ 9	0.0000	1.63	qQ				
17+10	0.0000	1.63	qQ				
17+11	0.0000	1.63	qQ				
17+12	0.0000	1.63	qQ				
17+13	0.0000	1.63	qQ				
17+14	0.0000	1.63	qQ				
17+15	0.0000	1.63	qQ				
17+16	0.0000	1.63	qQ				
17+17	0.0000	1.63	qQ				
17+18	0.0000	1.63	qQ				
17+19	0.0000	1.63	qQ				
17+20	0.0000	1.63	qQ				
17+21	0.0000	1.63	qQ				
17+22	0.0000	1.63	qQ				
17+23	0.0000	1.63	qQ				
17+24	0.0000	1.63	qQ				
17+25	0.0000	1.63	qQ				
17+26	0.0000	1.62	qQ				
17+27	0.0000	1.62	qQ				
17+28	0.0000	1.62	qQ				
17+29	0.0000	1.62	qQ				
17+30	0.0000	1.62	qQ				
17+31	0.0000	1.62	qQ				
17+32	0.0000	1.62	qQ				
17+33	0.0000	1.62	qQ				
17+34	0.0000	1.62	qQ				
17+35	0.0000	1.62	qQ				
17+36	0.0000	1.62	qQ				
17+37	0.0000	1.62	qQ				
17+38	0.0000	1.62	qQ				
17+39	0.0000	1.62	qQ				
17+40	0.0000	1.62	qQ				
17+41	0.0000	1.62	qQ				
17+42	0.0000	1.62	qQ				
17+43	0.0000	1.62	qQ				
17+44	0.0000	1.62	qQ				
17+45	0.0000	1.62	qQ				
17+46	0.0000	1.62	qQ				
17+47	0.0000	1.62	qQ				
17+48	0.0000	1.61	qQ				
17+49	0.0000	1.61	qQ				
17+50	0.0000	1.61	qQ				
17+51	0.0000	1.61	qQ				
17+52	0.0000	1.61	qQ				
17+53	0.0000	1.61	qQ				
17+54	0.0000	1.61	qQ				
17+55	0.0000	1.61	Q				
17+56	0.0000	1.61	Q				
17+57	0.0000	1.61	Q				
17+58	0.0000	1.61	Q				
17+59	0.0000	1.61	Q				
18+ 0	0.0000	1.61	Q				
18+ 1	0.0000	1.61	Q				
18+ 2	0.0000	1.61	Q				
18+ 3	0.0000	1.61	Q				
18+ 4	0.0000	1.61	Q				
18+ 5	0.0000	1.61	Q				
18+ 6	0.0000	1.61	Q				

18+ 7	0.0000	1.61	Q				
18+ 8	0.0000	1.61	Q				
18+ 9	0.0000	1.60	Q				
18+10	0.0000	1.60	Q				
18+11	0.0000	1.60	Q				
18+12	0.0000	1.60	Q				
18+13	0.0000	1.60	Q				
18+14	0.0000	1.60	Q				
18+15	0.0000	1.60	Q				
18+16	0.0000	1.60	Q				
18+17	0.0000	1.60	Q				
18+18	0.0000	1.60	Q				
18+19	0.0000	1.60	Q				
18+20	0.0000	1.60	Q				
18+21	0.0000	1.60	Q				
18+22	0.0000	1.60	Q				
18+23	0.0000	1.60	Q				
18+24	0.0000	1.60	Q				
18+25	0.0000	1.60	Q				
18+26	0.0000	1.60	Q				
18+27	0.0000	1.60	Q				
18+28	0.0000	1.60	Q				
18+29	0.0000	1.60	Q				
18+30	0.0000	1.59	Q				
18+31	0.0000	1.59	Q				
18+32	0.0000	1.59	Q				
18+33	0.0000	1.59	Q				
18+34	0.0000	1.59	Q				
18+35	0.0000	1.59	Q				
18+36	0.0000	1.59	Q				
18+37	0.0000	1.59	Q				
18+38	0.0000	1.59	Q				
18+39	0.0000	1.59	Q				
18+40	0.0000	1.59	Q				
18+41	0.0000	1.59	Q				
18+42	0.0000	1.59	Q				
18+43	0.0000	1.59	Q				
18+44	0.0000	1.59	Q				
18+45	0.0000	1.59	Q				
18+46	0.0000	1.59	Q				
18+47	0.0000	1.59	Q				
18+48	0.0000	1.59	Q				
18+49	0.0000	1.59	Q				
18+50	0.0000	1.58	Q				
18+51	0.0000	1.58	Q				
18+52	0.0000	1.58	Q				
18+53	0.0000	1.58	Q				
18+54	0.0000	1.58	Q				
18+55	0.0000	1.58	Q				
18+56	0.0000	1.58	Q				
18+57	0.0000	1.58	Q				
18+58	0.0000	1.58	Q				
18+59	0.0000	1.58	Q				
19+ 0	0.0000	1.58	Q				
19+ 1	0.0000	1.58	Q				
19+ 2	0.0000	1.58	Q				
19+ 3	0.0000	1.58	Q				
19+ 4	0.0000	1.58	Q				
19+ 5	0.0000	1.58	Q				
19+ 6	0.0000	1.58	Q				
19+ 7	0.0000	1.58	Q				
19+ 8	0.0000	1.58	Q				
19+ 9	0.0000	1.57	Q				
19+10	0.0000	1.57	Q				
19+11	0.0000	1.57	Q				
19+12	0.0000	1.57	Q				
19+13	0.0000	1.57	Q				
19+14	0.0000	1.57	Q				
19+15	0.0000	1.57	Q				
19+16	0.0000	1.57	Q				
19+17	0.0000	1.57	Q				

19+18	0.0000	1.57	Q				
19+19	0.0000	1.57	Q				
19+20	0.0000	1.57	Q				
19+21	0.0000	1.57	Q				
19+22	0.0000	1.57	Q				
19+23	0.0000	1.57	Q				
19+24	0.0000	1.57	Q				
19+25	0.0000	1.57	Q				
19+26	0.0000	1.57	Q				
19+27	0.0000	1.57	Q				
19+28	0.0000	1.56	Q				
19+29	0.0000	1.56	Q				
19+30	0.0000	1.56	Q				
19+31	0.0000	1.56	Q				
19+32	0.0000	1.56	Q				
19+33	0.0000	1.56	Q				
19+34	0.0000	1.56	Q				
19+35	0.0000	1.56	Q				
19+36	0.0000	1.56	Q				
19+37	0.0000	1.56	Q				
19+38	0.0000	1.56	Q				
19+39	0.0000	1.56	Q				
19+40	0.0000	1.56	Q				
19+41	0.0000	1.56	Q				
19+42	0.0000	1.56	Q				
19+43	0.0000	1.56	Q				
19+44	0.0000	1.56	Q				
19+45	0.0000	1.56	Q				
19+46	0.0000	1.56	Q				
19+47	0.0000	1.55	Q				
19+48	0.0000	1.55	Q				
19+49	0.0000	1.55	Q				
19+50	0.0000	1.55	Q				
19+51	0.0000	1.55	Q				
19+52	0.0000	1.55	Q				
19+53	0.0000	1.55	Q				
19+54	0.0000	1.55	Q				
19+55	0.0000	1.55	Q				
19+56	0.0000	1.55	Q				
19+57	0.0000	1.55	Q				
19+58	0.0000	1.55	Q				
19+59	0.0000	1.55	Q				
20+ 0	0.0000	1.55	Q				
20+ 1	0.0000	1.55	Q				
20+ 2	0.0000	1.55	Q				
20+ 3	0.0000	1.55	Q				
20+ 4	0.0000	1.55	Q				
20+ 5	0.0000	1.54	Q				
20+ 6	0.0000	1.54	Q				
20+ 7	0.0000	1.54	Q				
20+ 8	0.0000	1.54	Q				
20+ 9	0.0000	1.54	Q				
20+10	0.0000	1.54	Q				
20+11	0.0000	1.54	Q				
20+12	0.0000	1.54	Q				
20+13	0.0000	1.54	Q				
20+14	0.0000	1.54	Q				
20+15	0.0000	1.54	Q				
20+16	0.0000	1.54	Q				
20+17	0.0000	1.54	Q				
20+18	0.0000	1.54	Q				
20+19	0.0000	1.54	Q				
20+20	0.0000	1.54	Q				
20+21	0.0000	1.54	Q				
20+22	0.0000	1.54	Q				
20+23	0.0000	1.54	Q				
20+24	0.0000	1.53	Q				
20+25	0.0000	1.53	Q				
20+26	0.0000	1.53	Q				
20+27	0.0000	1.53	Q				
20+28	0.0000	1.53	Q				

20+29	0.0000	1.53	Q				
20+30	0.0000	1.53	Q				
20+31	0.0000	1.53	Q				
20+32	0.0000	1.53	Q				
20+33	0.0000	1.53	Q				
20+34	0.0000	1.53	Q				
20+35	0.0000	1.53	Q				
20+36	0.0000	1.53	Q				
20+37	0.0000	1.53	Q				
20+38	0.0000	1.53	Q				
20+39	0.0000	1.53	Q				
20+40	0.0000	1.53	Q				
20+41	0.0000	1.53	Q				
20+42	0.0000	1.52	Q				
20+43	0.0000	1.52	Q				
20+44	0.0000	1.52	Q				
20+45	0.0000	1.52	Q				
20+46	0.0000	1.52	Q				
20+47	0.0000	1.52	Q				
20+48	0.0000	1.52	Q				
20+49	0.0000	1.52	Q				
20+50	0.0000	1.52	Q				
20+51	0.0000	1.52	Q				
20+52	0.0000	1.52	Q				
20+53	0.0000	1.52	Q				
20+54	0.0000	1.52	Q				
20+55	0.0000	1.52	Q				
20+56	0.0000	1.52	Q				
20+57	0.0000	1.52	Q				
20+58	0.0000	1.52	Q				
20+59	0.0000	1.52	Q				
21+ 0	0.0000	1.51	Q				
21+ 1	0.0000	1.51	Q				
21+ 2	0.0000	1.51	Q				
21+ 3	0.0000	1.51	Q				
21+ 4	0.0000	1.51	Q				
21+ 5	0.0000	1.51	Q				
21+ 6	0.0000	1.51	Q				
21+ 7	0.0000	1.51	Q				
21+ 8	0.0000	1.51	Q				
21+ 9	0.0000	1.51	Q				
21+10	0.0000	1.51	Q				
21+11	0.0000	1.50	Q				
21+12	0.0000	1.50	Q				
21+13	0.0000	1.50	Q				
21+14	0.0000	1.50	Q				
21+15	0.0000	1.50	Q				
21+16	0.0000	1.50	Q				
21+17	0.0000	1.49	Q				
21+18	0.0000	1.49	Q				
21+19	0.0000	1.49	Q				
21+20	0.0000	1.49	Q				
21+21	0.0000	1.49	Q				
21+22	0.0000	1.48	Q				
21+23	0.0000	1.48	Q				
21+24	0.0000	1.48	Q				
21+25	0.0000	1.48	Q				
21+26	0.0000	1.48	Q				
21+27	0.0000	1.48	Q				
21+28	0.0000	1.47	Q				
21+29	0.0000	1.47	Q				
21+30	0.0000	1.47	Q				
21+31	0.0000	1.47	Q				
21+32	0.0000	1.47	Q				
21+33	0.0000	1.46	Q				
21+34	0.0000	1.46	Q				
21+35	0.0000	1.46	Q				
21+36	0.0000	1.46	Q				
21+37	0.0000	1.46	Q				
21+38	0.0000	1.45	Q				
21+39	0.0000	1.45	Q				

21+40	0.0000	1.45	Q				
21+41	0.0000	1.45	Q				
21+42	0.0000	1.45	Q				
21+43	0.0000	1.45	Q				
21+44	0.0000	1.44	Q				
21+45	0.0000	1.44	Q				
21+46	0.0000	1.44	Q				
21+47	0.0000	1.44	Q				
21+48	0.0000	1.44	Q				
21+49	0.0000	1.43	Q				
21+50	0.0000	1.43	Q				
21+51	0.0000	1.43	Q				
21+52	0.0000	1.43	Q				
21+53	0.0000	1.43	Q				
21+54	0.0000	1.43	Q				
21+55	0.0000	1.42	Q				
21+56	0.0000	1.42	Q				
21+57	0.0000	1.42	Q				
21+58	0.0000	1.42	Q				
21+59	0.0000	1.42	Q				
22+ 0	0.0000	1.41	Q				
22+ 1	0.0000	1.41	Q				
22+ 2	0.0000	1.41	Q				
22+ 3	0.0000	1.41	Q				
22+ 4	0.0000	1.41	Q				
22+ 5	0.0000	1.41	Q				
22+ 6	0.0000	1.40	Q				
22+ 7	0.0000	1.40	Q				
22+ 8	0.0000	1.40	Q				
22+ 9	0.0000	1.40	Q				
22+10	0.0000	1.40	Q				
22+11	0.0000	1.39	Q				
22+12	0.0000	1.39	Q				
22+13	0.0000	1.39	Q				
22+14	0.0000	1.39	Q				
22+15	0.0000	1.39	Q				
22+16	0.0000	1.39	Q				
22+17	0.0000	1.38	Q				
22+18	0.0000	1.38	Q				
22+19	0.0000	1.38	Q				
22+20	0.0000	1.38	Q				
22+21	0.0000	1.38	Q				
22+22	0.0000	1.38	Q				
22+23	0.0000	1.37	Q				
22+24	0.0000	1.37	Q				
22+25	0.0000	1.37	Q				
22+26	0.0000	1.37	Q				
22+27	0.0000	1.37	Q				
22+28	0.0000	1.36	Q				
22+29	0.0000	1.36	Q				
22+30	0.0000	1.36	Q				
22+31	0.0000	1.36	Q				
22+32	0.0000	1.36	Q				
22+33	0.0000	1.36	Q				
22+34	0.0000	1.35	Q				
22+35	0.0000	1.35	Q				
22+36	0.0000	1.35	Q				
22+37	0.0000	1.35	Q				
22+38	0.0000	1.35	Q				
22+39	0.0000	1.35	Q				
22+40	0.0000	1.35	Q				
22+41	0.0000	1.35	Q				
22+42	0.0000	1.34	Q				
22+43	0.0000	1.34	Q				
22+44	0.0000	1.34	Q				
22+45	0.0000	1.34	Q				
22+46	0.0000	1.34	Q				
22+47	0.0000	1.34	Q				
22+48	0.0000	1.34	Q				
22+49	0.0000	1.34	Q				
22+50	0.0000	1.34	Q				

22+51	0.0000	1.33	Q				
22+52	0.0000	1.33	Q				
22+53	0.0000	1.33	Q				
22+54	0.0000	1.33	Q				
22+55	0.0000	1.33	Q				
22+56	0.0000	1.33	Q				
22+57	0.0000	1.33	Q				
22+58	0.0000	1.33	Q				
22+59	0.0000	1.33	Q				
23+ 0	0.0000	1.33	Q				
23+ 1	0.0000	1.32	Q				
23+ 2	0.0000	1.32	Q				
23+ 3	0.0000	1.32	Q				
23+ 4	0.0000	1.32	Q				
23+ 5	0.0000	1.32	Q				
23+ 6	0.0000	1.32	Q				
23+ 7	0.0000	1.32	Q				
23+ 8	0.0000	1.32	Q				
23+ 9	0.0000	1.32	Q				
23+10	0.0000	1.32	Q				
23+11	0.0000	1.31	Q				
23+12	0.0000	1.31	Q				
23+13	0.0000	1.31	Q				
23+14	0.0000	1.31	Q				
23+15	0.0000	1.31	Q				
23+16	0.0000	1.31	Q				
23+17	0.0000	1.31	Q				
23+18	0.0000	1.31	Q				
23+19	0.0000	1.31	Q				
23+20	0.0000	1.31	Q				
23+21	0.0000	1.30	Q				
23+22	0.0000	1.30	Q				
23+23	0.0000	1.30	Q				
23+24	0.0000	1.30	Q				
23+25	0.0000	1.30	Q				
23+26	0.0000	1.30	Q				
23+27	0.0000	1.30	Q				
23+28	0.0000	1.30	Q				
23+29	0.0000	1.30	Q				
23+30	0.0000	1.30	Q				
23+31	0.0000	1.29	Q				
23+32	0.0000	1.29	Q				
23+33	0.0000	1.29	Q				
23+34	0.0000	1.29	Q				
23+35	0.0000	1.29	Q				
23+36	0.0000	1.29	Q				
23+37	0.0000	1.29	Q				
23+38	0.0000	1.29	Q				
23+39	0.0000	1.29	Q				
23+40	0.0000	1.29	Q				
23+41	0.0000	1.28	Q				
23+42	0.0000	1.28	Q				
23+43	0.0000	1.28	Q				
23+44	0.0000	1.28	Q				
23+45	0.0000	1.28	Q				
23+46	0.0000	1.28	Q				
23+47	0.0000	1.28	Q				
23+48	0.0000	1.28	Q				
23+49	0.0000	1.28	Q				
23+50	0.0000	1.28	Q				
23+51	0.0000	1.27	Q				
23+52	0.0000	1.27	Q				
23+53	0.0000	1.27	Q				
23+54	0.0000	1.27	Q				
23+55	0.0000	1.27	Q				
23+56	0.0000	1.27	Q				
23+57	0.0000	1.27	Q				
23+58	0.0000	1.27	Q				
23+59	0.0000	1.27	Q				
24+ 0	0.0000	1.27	Q				
24+ 1	0.0000	1.26	Q				

24+ 2	0.0000	1.26	Q				
24+ 3	0.0000	1.26	Q				
24+ 4	0.0000	1.26	Q				
24+ 5	0.0000	1.26	Q				
24+ 6	0.0000	1.26	Q				
24+ 7	0.0000	1.26	Q				
24+ 8	0.0000	1.26	Q				
24+ 9	0.0000	1.26	Q				
24+10	0.0000	1.26	Q				
24+11	0.0000	1.25	Q				
24+12	0.0000	1.25	Q				
24+13	0.0000	1.25	Q				
24+14	0.0000	1.25	Q				
24+15	0.0000	1.25	Q				
24+16	0.0000	1.25	Q				
24+17	0.0000	1.25	Q				
24+18	0.0000	1.24	Q				
24+19	0.0000	1.24	Q				
24+20	0.0000	1.23	Q				
24+21	0.0000	1.23	Q				
24+22	0.0000	1.23	Q				
24+23	0.0000	1.22	Q				
24+24	0.0000	1.22	Q				
24+25	0.0000	1.22	Q				
24+26	0.0000	1.21	Q				
24+27	0.0000	1.21	Q				
24+28	0.0000	1.21	Q				
24+29	0.0000	1.20	Q				
24+30	0.0000	1.20	Q				
24+31	0.0000	1.19	Q				
24+32	0.0000	1.19	Q				
24+33	0.0000	1.19	Q				
24+34	0.0000	1.18	Q				
24+35	0.0000	1.18	Q				
24+36	0.0000	1.18	Q				
24+37	0.0000	1.17	Q				
24+38	0.0000	1.17	Q				
24+39	0.0000	1.17	Q				
24+40	0.0000	1.16	Q				
24+41	0.0000	1.16	Q				
24+42	0.0000	1.16	Q				
24+43	0.0000	1.15	Q				
24+44	0.0000	1.15	Q				
24+45	0.0000	1.15	Q				
24+46	0.0000	1.14	Q				
24+47	0.0000	1.14	Q				
24+48	0.0000	1.14	Q				
24+49	0.0000	1.13	Q				
24+50	0.0000	1.13	Q				
24+51	0.0000	1.13	Q				
24+52	0.0000	1.12	Q				
24+53	0.0000	1.12	Q				
24+54	0.0000	1.12	Q				
24+55	0.0000	1.11	Q				
24+56	0.0000	1.11	Q				
24+57	0.0000	1.11	Q				
24+58	0.0000	1.10	Q				
24+59	0.0000	1.10	Q				
25+ 0	0.0000	1.10	Q				
25+ 1	0.0000	1.09	Q				
25+ 2	0.0000	1.09	Q				
25+ 3	0.0000	1.09	Q				
25+ 4	0.0000	1.08	Q				
25+ 5	0.0000	1.08	Q				
25+ 6	0.0000	1.08	Q				
25+ 7	0.0000	1.07	Q				
25+ 8	0.0000	1.07	Q				
25+ 9	0.0000	1.06	Q				
25+10	0.0000	1.05	Q				
25+11	0.0000	1.04	Q				
25+12	0.0000	1.03	Q				

25+13	0.0000	1.02	Q				
25+14	0.0000	1.01	Q				
25+15	0.0000	1.00	Q				
25+16	0.0000	0.99	Q				
25+17	0.0000	0.99	Q				
25+18	0.0000	0.98	Q				
25+19	0.0000	0.97	Q				
25+20	0.0000	0.96	Q				
25+21	0.0000	0.95	Q				
25+22	0.0000	0.94	Q				
25+23	0.0000	0.93	Q				
25+24	0.0000	0.93	Q				
25+25	0.0000	0.92	Q				
25+26	0.0000	0.91	Q				
25+27	0.0000	0.90	Q				
25+28	0.0000	0.89	Q				
25+29	0.0000	0.88	Q				
25+30	0.0000	0.88	Q				
25+31	0.0000	0.87	Q				
25+32	0.0000	0.86	Q				
25+33	0.0000	0.85	Q				
25+34	0.0000	0.85	Q				
25+35	0.0000	0.84	Q				
25+36	0.0000	0.83	Q				
25+37	0.0000	0.82	Q				
25+38	0.0000	0.82	Q				
25+39	0.0000	0.81	Q				
25+40	0.0000	0.80	Q				
25+41	0.0000	0.80	Q				
25+42	0.0000	0.79	Q				
25+43	0.0000	0.78	Q				
25+44	0.0000	0.77	Q				
25+45	0.0000	0.77	Q				
25+46	0.0000	0.76	Q				
25+47	0.0000	0.75	Q				
25+48	0.0000	0.75	Q				
25+49	0.0000	0.74	Q				
25+50	0.0000	0.73	Q				
25+51	0.0000	0.73	Q				
25+52	0.0000	0.72	Q				
25+53	0.0000	0.71	Q				
25+54	0.0000	0.71	Q				
25+55	0.0000	0.70	Q				
25+56	0.0000	0.70	Q				
25+57	0.0000	0.69	Q				
25+58	0.0000	0.68	Q				
25+59	0.0000	0.68	Q				
26+ 0	0.0000	0.67	Q				
26+ 1	0.0000	0.67	Q				
26+ 2	0.0000	0.66	Q				
26+ 3	0.0000	0.65	Q				
26+ 4	0.0000	0.65	Q				
26+ 5	0.0000	0.64	Q				
26+ 6	0.0000	0.64	Q				
26+ 7	0.0000	0.63	Q				
26+ 8	0.0000	0.63	Q				
26+ 9	0.0000	0.62	Q				
26+10	0.0000	0.61	Q				
26+11	0.0000	0.61	Q				
26+12	0.0000	0.60	Q				
26+13	0.0000	0.60	Q				
26+14	0.0000	0.59	Q				
26+15	0.0000	0.59	Q				
26+16	0.0000	0.58	Q				
26+17	0.0000	0.58	Q				
26+18	0.0000	0.57	Q				
26+19	0.0000	0.57	Q				
26+20	0.0000	0.56	Q				
26+21	0.0000	0.56	Q				
26+22	0.0000	0.55	Q				
26+23	0.0000	0.55	Q				

26+24	0.0000	0.54	Q				
26+25	0.0000	0.54	Q				
26+26	0.0000	0.53	Q				
26+27	0.0000	0.53	Q				
26+28	0.0000	0.52	Q				
26+29	0.0000	0.52	Q				
26+30	0.0000	0.51	Q				
26+31	0.0000	0.51	Q				
26+32	0.0000	0.51	Q				
26+33	0.0000	0.50	Q				
26+34	0.0000	0.50	Q				
26+35	0.0000	0.49	Q				
26+36	0.0000	0.49	Q				
26+37	0.0000	0.48	Q				
26+38	0.0000	0.48	Q				
26+39	0.0000	0.47	Q				
26+40	0.0000	0.47	Q				
26+41	0.0000	0.47	Q				
26+42	0.0000	0.46	Q				
26+43	0.0000	0.46	Q				
26+44	0.0000	0.45	Q				
26+45	0.0000	0.45	Q				
26+46	0.0000	0.45	Q				
26+47	0.0000	0.44	Q				
26+48	0.0000	0.44	Q				
26+49	0.0000	0.43	Q				
26+50	0.0000	0.43	Q				
26+51	0.0000	0.43	Q				
26+52	0.0000	0.42	Q				
26+53	0.0000	0.42	Q				
26+54	0.0000	0.42	Q				
26+55	0.0000	0.41	Q				
26+56	0.0000	0.41	Q				
26+57	0.0000	0.40	Q				
26+58	0.0000	0.40	Q				
26+59	0.0000	0.40	Q				
27+ 0	0.0000	0.39	Q				
27+ 1	0.0000	0.39	Q				
27+ 2	0.0000	0.39	Q				
27+ 3	0.0000	0.38	Q				
27+ 4	0.0000	0.38	Q				
27+ 5	0.0000	0.38	Q				
27+ 6	0.0000	0.37	Q				
27+ 7	0.0000	0.37	Q				
27+ 8	0.0000	0.37	Q				
27+ 9	0.0000	0.36	Q				
27+10	0.0000	0.36	Q				
27+11	0.0000	0.36	Q				
27+12	0.0000	0.35	Q				
27+13	0.0000	0.35	Q				
27+14	0.0000	0.35	Q				
27+15	0.0000	0.35	Q				
27+16	0.0000	0.34	Q				
27+17	0.0000	0.34	Q				
27+18	0.0000	0.34	Q				
27+19	0.0000	0.33	Q				
27+20	0.0000	0.33	Q				
27+21	0.0000	0.33	Q				
27+22	0.0000	0.32	Q				
27+23	0.0000	0.32	Q				
27+24	0.0000	0.32	Q				
27+25	0.0000	0.32	Q				
27+26	0.0000	0.31	Q				
27+27	0.0000	0.31	Q				
27+28	0.0000	0.31	Q				
27+29	0.0000	0.31	Q				
27+30	0.0000	0.30	Q				
27+31	0.0000	0.30	Q				
27+32	0.0000	0.30	Q				
27+33	0.0000	0.29	Q				
27+34	0.0000	0.29	Q				

27+35	0.0000	0.29	Q				
27+36	0.0000	0.29	Q				
27+37	0.0000	0.28	Q				
27+38	0.0000	0.28	Q				
27+39	0.0000	0.28	Q				
27+40	0.0000	0.28	Q				
27+41	0.0000	0.27	Q				
27+42	0.0000	0.27	Q				
27+43	0.0000	0.27	Q				
27+44	0.0000	0.27	Q				
27+45	0.0000	0.27	Q				
27+46	0.0000	0.26	Q				
27+47	0.0000	0.26	Q				
27+48	0.0000	0.26	Q				
27+49	0.0000	0.26	Q				
27+50	0.0000	0.25	Q				
27+51	0.0000	0.25	Q				
27+52	0.0000	0.25	Q				
27+53	0.0000	0.25	Q				
27+54	0.0000	0.25	Q				
27+55	0.0000	0.24	Q				
27+56	0.0000	0.24	Q				
27+57	0.0000	0.24	Q				
27+58	0.0000	0.24	Q				
27+59	0.0000	0.23	Q				
28+ 0	0.0000	0.23	Q				
28+ 1	0.0000	0.23	Q				
28+ 2	0.0000	0.23	Q				
28+ 3	0.0000	0.23	Q				
28+ 4	0.0000	0.22	Q				
28+ 5	0.0000	0.22	Q				
28+ 6	0.0000	0.22	Q				
28+ 7	0.0000	0.22	Q				
28+ 8	0.0000	0.22	Q				
28+ 9	0.0000	0.21	Q				
28+10	0.0000	0.21	Q				
28+11	0.0000	0.21	Q				
28+12	0.0000	0.21	Q				
28+13	0.0000	0.21	Q				
28+14	0.0000	0.21	Q				
28+15	0.0000	0.20	Q				
28+16	0.0000	0.20	Q				
28+17	0.0000	0.20	Q				
28+18	0.0000	0.20	Q				
28+19	0.0000	0.20	Q				
28+20	0.0000	0.20	Q				
28+21	0.0000	0.19	Q				
28+22	0.0000	0.19	Q				
28+23	0.0000	0.19	Q				
28+24	0.0000	0.19	Q				
28+25	0.0000	0.19	Q				
28+26	0.0000	0.19	Q				
28+27	0.0000	0.18	Q				
28+28	0.0000	0.18	Q				
28+29	0.0000	0.18	Q				
28+30	0.0000	0.18	Q				
28+31	0.0000	0.18	Q				
28+32	0.0000	0.18	Q				
28+33	0.0000	0.17	Q				
28+34	0.0000	0.17	Q				
28+35	0.0000	0.17	Q				
28+36	0.0000	0.17	Q				
28+37	0.0000	0.17	Q				
28+38	0.0000	0.17	Q				
28+39	0.0000	0.17	Q				
28+40	0.0000	0.16	Q				
28+41	0.0000	0.16	Q				
28+42	0.0000	0.16	Q				
28+43	0.0000	0.16	Q				
28+44	0.0000	0.16	Q				
28+45	0.0000	0.16	Q				

28+46	0.0000	0.16	Q				
28+47	0.0000	0.15	Q				
28+48	0.0000	0.15	Q				
28+49	0.0000	0.15	Q				
28+50	0.0000	0.15	Q				
28+51	0.0000	0.15	Q				
28+52	0.0000	0.15	Q				
28+53	0.0000	0.15	Q				
28+54	0.0000	0.14	Q				
28+55	0.0000	0.14	Q				
28+56	0.0000	0.14	Q				
28+57	0.0000	0.14	Q				
28+58	0.0000	0.14	Q				
28+59	0.0000	0.14	Q				
29+ 0	0.0000	0.14	Q				
29+ 1	0.0000	0.14	Q				
29+ 2	0.0000	0.14	Q				
29+ 3	0.0000	0.13	Q				
29+ 4	0.0000	0.13	Q				
29+ 5	0.0000	0.13	Q				
29+ 6	0.0000	0.13	Q				
29+ 7	0.0000	0.13	Q				
29+ 8	0.0000	0.13	Q				
29+ 9	0.0000	0.13	Q				
29+10	0.0000	0.13	Q				
29+11	0.0000	0.13	Q				
29+12	0.0000	0.12	Q				
29+13	0.0000	0.12	Q				
29+14	0.0000	0.12	Q				
29+15	0.0000	0.12	Q				
29+16	0.0000	0.12	Q				
29+17	0.0000	0.12	Q				
29+18	0.0000	0.12	Q				
29+19	0.0000	0.12	Q				
29+20	0.0000	0.12	Q				
29+21	0.0000	0.11	Q				
29+22	0.0000	0.11	Q				
29+23	0.0000	0.11	Q				
29+24	0.0000	0.11	Q				
29+25	0.0000	0.11	Q				
29+26	0.0000	0.11	Q				
29+27	0.0000	0.11	Q				
29+28	0.0000	0.11	Q				
29+29	0.0000	0.11	Q				
29+30	0.0000	0.11	Q				
29+31	0.0000	0.11	Q				
29+32	0.0000	0.10	Q				
29+33	0.0000	0.10	Q				
29+34	0.0000	0.10	Q				
29+35	0.0000	0.10	Q				
29+36	0.0000	0.10	Q				
29+37	0.0000	0.10	Q				
29+38	0.0000	0.10	Q				
29+39	0.0000	0.10	Q				
29+40	0.0000	0.10	Q				
29+41	0.0000	0.10	Q				
29+42	0.0000	0.10	Q				
29+43	0.0000	0.09	Q				
29+44	0.0000	0.09	Q				
29+45	0.0000	0.09	Q				
29+46	0.0000	0.09	Q				
29+47	0.0000	0.09	Q				
29+48	0.0000	0.09	Q				
29+49	0.0000	0.09	Q				
29+50	0.0000	0.09	Q				
29+51	0.0000	0.09	Q				
29+52	0.0000	0.09	Q				
29+53	0.0000	0.09	Q				
29+54	0.0000	0.09	Q				
29+55	0.0000	0.09	Q				
29+56	0.0000	0.08	Q				

29+57	0.0000	0.08	Q				
29+58	0.0000	0.08	Q				
29+59	0.0000	0.08	Q				
30+ 0	0.0000	0.08	Q				
30+ 1	0.0000	0.08	Q				
30+ 2	0.0000	0.08	Q				
30+ 3	0.0000	0.08	Q				
30+ 4	0.0000	0.08	Q				
30+ 5	0.0000	0.08	Q				
30+ 6	0.0000	0.08	Q				
30+ 7	0.0000	0.08	Q				
30+ 8	0.0000	0.08	Q				
30+ 9	0.0000	0.08	Q				
30+10	0.0000	0.08	Q				
30+11	0.0000	0.07	Q				
30+12	0.0000	0.07	Q				
30+13	0.0000	0.07	Q				
30+14	0.0000	0.07	Q				
30+15	0.0000	0.07	Q				
30+16	0.0000	0.07	Q				
30+17	0.0000	0.07	Q				
30+18	0.0000	0.07	Q				
30+19	0.0000	0.07	Q				
30+20	0.0000	0.07	Q				
30+21	0.0000	0.07	Q				
30+22	0.0000	0.07	Q				
30+23	0.0000	0.07	Q				
30+24	0.0000	0.07	Q				
30+25	0.0000	0.07	Q				
30+26	0.0000	0.07	Q				
30+27	0.0000	0.06	Q				
30+28	0.0000	0.06	Q				
30+29	0.0000	0.06	Q				
30+30	0.0000	0.06	Q				
30+31	0.0000	0.06	Q				
30+32	0.0000	0.06	Q				
30+33	0.0000	0.06	Q				
30+34	0.0000	0.06	Q				
30+35	0.0000	0.06	Q				
30+36	0.0000	0.06	Q				
30+37	0.0000	0.06	Q				
30+38	0.0000	0.06	Q				
30+39	0.0000	0.06	Q				
30+40	0.0000	0.06	Q				
30+41	0.0000	0.06	Q				
30+42	0.0000	0.06	Q				
30+43	0.0000	0.06	Q				
30+44	0.0000	0.06	Q				
30+45	0.0000	0.06	Q				
30+46	0.0000	0.06	Q				
30+47	0.0000	0.05	Q				
30+48	0.0000	0.05	Q				
30+49	0.0000	0.05	Q				
30+50	0.0000	0.05	Q				
30+51	0.0000	0.05	Q				
30+52	0.0000	0.05	Q				
30+53	0.0000	0.05	Q				
30+54	0.0000	0.05	Q				
30+55	0.0000	0.05	Q				
30+56	0.0000	0.05	Q				
30+57	0.0000	0.05	Q				
30+58	0.0000	0.05	Q				
30+59	0.0000	0.05	Q				
31+ 0	0.0000	0.05	Q				
31+ 1	0.0000	0.05	Q				
31+ 2	0.0000	0.05	Q				
31+ 3	0.0000	0.05	Q				
31+ 4	0.0000	0.05	Q				
31+ 5	0.0000	0.05	Q				
31+ 6	0.0000	0.05	Q				
31+ 7	0.0000	0.05	Q				

31+ 8	0.0000	0.05	Q				
31+ 9	0.0000	0.05	Q				
31+10	0.0000	0.04	Q				
31+11	0.0000	0.04	Q				
31+12	0.0000	0.04	Q				
31+13	0.0000	0.04	Q				
31+14	0.0000	0.04	Q				
31+15	0.0000	0.04	Q				
31+16	0.0000	0.04	Q				
31+17	0.0000	0.04	Q				
31+18	0.0000	0.04	Q				
31+19	0.0000	0.04	Q				
31+20	0.0000	0.04	Q				
31+21	0.0000	0.04	Q				
31+22	0.0000	0.04	Q				
31+23	0.0000	0.04	Q				
31+24	0.0000	0.04	Q				
31+25	0.0000	0.04	Q				
31+26	0.0000	0.04	Q				
31+27	0.0000	0.04	Q				
31+28	0.0000	0.04	Q				
31+29	0.0000	0.04	Q				
31+30	0.0000	0.04	Q				
31+31	0.0000	0.04	Q				
31+32	0.0000	0.04	Q				
31+33	0.0000	0.04	Q				
31+34	0.0000	0.04	Q				
31+35	0.0000	0.04	Q				
31+36	0.0000	0.04	Q				
31+37	0.0000	0.04	Q				
31+38	0.0000	0.04	Q				
31+39	0.0000	0.04	Q				
31+40	0.0000	0.03	Q				
31+41	0.0000	0.03	Q				
31+42	0.0000	0.03	Q				
31+43	0.0000	0.03	Q				
31+44	0.0000	0.03	Q				
31+45	0.0000	0.03	Q				
31+46	0.0000	0.03	Q				
31+47	0.0000	0.03	Q				
31+48	0.0000	0.03	Q				
31+49	0.0000	0.03	Q				
31+50	0.0000	0.03	Q				
31+51	0.0000	0.03	Q				
31+52	0.0000	0.03	Q				
31+53	0.0000	0.03	Q				
31+54	0.0000	0.03	Q				
31+55	0.0000	0.03	Q				
31+56	0.0000	0.03	Q				
31+57	0.0000	0.03	Q				
31+58	0.0000	0.03	Q				
31+59	0.0000	0.03	Q				
32+ 0	0.0000	0.03	Q				
32+ 1	0.0000	0.03	Q				
32+ 2	0.0000	0.03	Q				
32+ 3	0.0000	0.03	Q				
32+ 4	0.0000	0.03	Q				
32+ 5	0.0000	0.03	Q				
32+ 6	0.0000	0.03	Q				
32+ 7	0.0000	0.03	Q				
32+ 8	0.0000	0.03	Q				
32+ 9	0.0000	0.03	Q				
32+10	0.0000	0.03	Q				
32+11	0.0000	0.03	Q				
32+12	0.0000	0.03	Q				
32+13	0.0000	0.03	Q				
32+14	0.0000	0.03	Q				
32+15	0.0000	0.03	Q				
32+16	0.0000	0.03	Q				
32+17	0.0000	0.03	Q				
32+18	0.0000	0.03	Q				

37+ 3	0.0000	0.00	Q				
37+ 4	0.0000	0.00	Q				
37+ 5	0.0000	0.00	Q				
37+ 6	0.0000	0.00	Q				
37+ 7	0.0000	0.00	Q				
37+ 8	0.0000	0.00	Q				
37+ 9	0.0000	0.00	Q				
37+10	0.0000	0.00	Q				
37+11	0.0000	0.00	Q				
37+12	0.0000	0.00	Q				
37+13	0.0000	0.00	Q				
37+14	0.0000	0.00	Q				
37+15	0.0000	0.00	Q				
37+16	0.0000	0.00	Q				
37+17	0.0000	0.00	Q				
37+18	0.0000	0.00	Q				
37+19	0.0000	0.00	Q				
37+20	0.0000	0.00	Q				
37+21	0.0000	0.00	Q				
37+22	0.0000	0.00	Q				
37+23	0.0000	0.00	Q				
37+24	0.0000	0.00	Q				
37+25	0.0000	0.00	Q				
37+26	0.0000	0.00	Q				
37+27	0.0000	0.00	Q				
37+28	0.0000	0.00	Q				
37+29	0.0000	0.00	Q				
37+30	0.0000	0.00	Q				
37+31	0.0000	0.00	Q				
37+32	0.0000	0.00	Q				
37+33	0.0000	0.00	Q				
37+34	0.0000	0.00	Q				
37+35	0.0000	0.00	Q				
37+36	0.0000	0.00	Q				
37+37	0.0000	0.00	Q				
37+38	0.0000	0.00	Q				
37+39	0.0000	0.00	Q				
37+40	0.0000	0.00	Q				
37+41	0.0000	0.00	Q				
37+42	0.0000	0.00	Q				
37+43	0.0000	0.00	Q				
37+44	0.0000	0.00	Q				
37+45	0.0000	0.00	Q				
37+46	0.0000	0.00	Q				
37+47	0.0000	0.00	Q				
37+48	0.0000	0.00	Q				
37+49	0.0000	0.00	Q				
37+50	0.0000	0.00	Q				
37+51	0.0000	0.00	Q				
37+52	0.0000	0.00	Q				
37+53	0.0000	0.00	Q				
37+54	0.0000	0.00	Q				
37+55	0.0000	0.00	Q				
37+56	0.0000	0.00	Q				
37+57	0.0000	0.00	Q				
37+58	0.0000	0.00	Q				
37+59	0.0000	0.00	Q				
38+ 0	0.0000	0.00	Q				
38+ 1	0.0000	0.00	Q				
38+ 2	0.0000	0.00	Q				
38+ 3	0.0000	0.00	Q				
38+ 4	0.0000	0.00	Q				
38+ 5	0.0000	0.00	Q				
38+ 6	0.0000	0.00	Q				
38+ 7	0.0000	0.00	Q				
38+ 8	0.0000	0.00	Q				
38+ 9	0.0000	0.00	Q				
38+10	0.0000	0.00	Q				
38+11	0.0000	0.00	Q				

*****HYDROGRAPH DATA*****

Number of intervals = 2291
 Time interval = 1.0 (Min.)
 Maximum/Peak flow rate = 64.478 (CFS)
 Total volume = 22.425 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	0.000	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	0.000	0.000	0.000	0.000	0.000

 +-----+
 Process from Point/Station 727.000 to Point/Station 4.000
 **** STORE OR DELETE CURRENT HYDROGRAPH ****

 Current stream hydrograph of 1.0 minute
 intervals has been stored as stream number 1 with
 a starting time of 0.00 hours and ending time of 66.00 hours
 With a total volume of 22.43(Ac.Ft)

*****HYDROGRAPH DATA*****

Number of intervals = 0
 Time interval = 0.0 (Min.)
 Maximum/Peak flow rate = 0.000 (CFS)
 Total volume = 0.000 (Ac.Ft)

Status of hydrographs being held in storage

	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Peak (CFS)	64.478	0.000	0.000	0.000	0.000
Vol (Ac.Ft)	22.425	0.000	0.000	0.000	0.000

 +-----+
 Process from Point/Station 739.000 to Point/Station 4.000
 **** ADD/COMBINE/RECOVER HYDROGRAPHS ****

***** HYDROGRAPH INFORMATION *****

From study/file name: 100160rtebas7POC4.rte

+-----+

P R I N T O F S T O R M
 R u n o f f H y d r o g r a p h

 Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	0.0	0.0	0.1	0.1
0+ 1	0.0000	0.00	Q				
0+ 2	0.0000	0.00	Q				
0+ 3	0.0000	0.00	Q				
0+ 4	0.0000	0.00	Q				
0+ 5	0.0000	0.00	Q				
0+ 6	0.0000	0.00	Q				
0+ 7	0.0000	0.00	Q				
0+ 8	0.0000	0.00	Q				
0+ 9	0.0000	0.00	Q				
0+10	0.0000	0.00	Q				
0+11	0.0000	0.00	Q				
0+12	0.0000	0.00	Q				
0+13	0.0000	0.00	Q				
0+14	0.0000	0.00	Q				
0+15	0.0000	0.00	Q				
0+16	0.0000	0.00	Q				
0+17	0.0000	0.00	Q				
0+18	0.0000	0.00	Q				
0+19	0.0000	0.00	Q				
0+20	0.0000	0.00	Q				

0+21	6.6804	0.01	Q						
0+22	12.6390	0.02		Q					
0+23	17.2720	0.03			Q				
0+24	20.8751	0.04				Q			
0+25	23.6777	0.04					Q		
0+26	25.8581	0.05						Q	
0+27	27.5547	0.05							Q
0+28	28.8754	0.05							
0+29	29.9037	0.06							
0+30	30.7048	0.06							
0+31	31.3292	0.06							
0+32	31.8164	0.06							
0+33	32.1967	0.06							
0+34	32.4941	0.06							
0+35	32.7270	0.06							
0+36	32.9098	0.06							
0+37	33.0536	0.06							
0+38	33.1671	0.06							
0+39	33.2571	0.06							
0+40	33.3287	0.06							
0+41	33.3862	0.06							
0+42	33.4326	0.06							
0+43	33.4704	0.06							
0+44	33.5016	0.06							
0+45	33.5276	0.06							
0+46	33.5495	0.06							
0+47	33.5684	0.06							
0+48	33.5848	0.06							
0+49	33.5994	0.06							
0+50	33.6125	0.06							
0+51	33.6245	0.06							
0+52	33.6356	0.06							
0+53	33.6461	0.06							
0+54	33.6560	0.06							
0+55	33.6656	0.06							
0+56	33.6748	0.06							
0+57	33.6839	0.06							
0+58	33.6927	0.06							
0+59	33.7015	0.06							
1+ 0	33.7101	0.06							
1+ 1	33.7187	0.06							
1+ 2	33.7272	0.06							
1+ 3	33.7358	0.06							
1+ 4	33.7443	0.06							
1+ 5	33.7528	0.06							
1+ 6	33.7613	0.06							
1+ 7	33.7698	0.06							
1+ 8	33.7783	0.06							
1+ 9	33.7869	0.06							
1+10	33.7954	0.06							
1+11	33.8040	0.06							
1+12	33.8127	0.06							
1+13	33.8213	0.06							
1+14	33.8300	0.06							
1+15	33.8387	0.06							
1+16	33.8475	0.06							
1+17	33.8562	0.06							
1+18	33.8650	0.06							
1+19	33.8739	0.06							
1+20	33.8827	0.06							
1+21	33.8917	0.06							
1+22	33.9006	0.06							
1+23	33.9096	0.06							
1+24	33.9186	0.06							
1+25	33.9276	0.06							
1+26	33.9367	0.06							
1+27	33.9458	0.06							
1+28	33.9550	0.06							
1+29	33.9642	0.06							
1+30	33.9734	0.06							
1+31	33.9827	0.06							

1+32	33.9920	0.06					Q	
1+33	34.0014	0.06					Q	
1+34	34.0107	0.06					Q	
1+35	34.0202	0.06					Q	
1+36	34.0296	0.06					Q	
1+37	34.0391	0.06					Q	
1+38	34.0487	0.06					Q	
1+39	34.0583	0.06					Q	
1+40	34.0679	0.06					Q	
1+41	34.0776	0.06					Q	
1+42	34.0873	0.06					Q	
1+43	34.0970	0.06					Q	
1+44	34.1068	0.06					Q	
1+45	34.1167	0.06					Q	
1+46	34.1266	0.06					Q	
1+47	34.1365	0.06					Q	
1+48	34.1465	0.06					Q	
1+49	34.1565	0.06					Q	
1+50	34.1666	0.06					Q	
1+51	34.1767	0.06					Q	
1+52	34.1869	0.06					Q	
1+53	34.1971	0.06					Q	
1+54	34.2073	0.06					Q	
1+55	34.2177	0.06					Q	
1+56	34.2280	0.06					Q	
1+57	34.2384	0.06					Q	
1+58	34.2489	0.06					Q	
1+59	34.2594	0.06					Q	
2+ 0	34.2699	0.06					Q	
2+ 1	34.2805	0.06					Q	
2+ 2	34.2912	0.06					Q	
2+ 3	34.3019	0.06					Q	
2+ 4	34.3127	0.06					Q	
2+ 5	34.3235	0.06					Q	
2+ 6	34.3344	0.06					Q	
2+ 7	34.3453	0.06					Q	
2+ 8	34.3563	0.06					Q	
2+ 9	34.3673	0.06					Q	
2+10	34.3784	0.06					Q	
2+11	34.3896	0.06					Q	
2+12	34.4008	0.06					Q	
2+13	34.4121	0.06					Q	
2+14	34.4234	0.06					Q	
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2+16	34.4463	0.06					Q	
2+17	34.4578	0.06					Q	
2+18	34.4694	0.06					Q	
2+19	34.4811	0.06					Q	
2+20	34.4928	0.06					Q	
2+21	34.5046	0.06					Q	
2+22	34.5164	0.06					Q	
2+23	34.5283	0.06					Q	
2+24	34.5403	0.06					Q	
2+25	34.5524	0.06					Q	
2+26	34.5645	0.06					Q	
2+27	34.5767	0.06					Q	
2+28	34.5890	0.06					Q	
2+29	34.6013	0.06					Q	
2+30	34.6137	0.06					Q	
2+31	34.6262	0.06					Q	
2+32	34.6388	0.06					Q	
2+33	34.6515	0.06					Q	
2+34	34.6642	0.06					Q	
2+35	34.6770	0.06					Q	
2+36	34.6899	0.06					Q	
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2+39	34.7290	0.06					Q	
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2+41	34.7556	0.06					Q	
2+42	34.7690	0.06					Q	

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2+47	34.8374	0.06						Q	
2+48	34.8514	0.06						Q	
2+49	34.8655	0.06						Q	
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2+53	34.9228	0.06						Q	
2+54	34.9373	0.06						Q	
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3+ 2	35.0583	0.06						Q	
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3+ 4	35.0897	0.07						Q	
3+ 5	35.1057	0.07						Q	
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3+ 7	35.1380	0.07						Q	
3+ 8	35.1543	0.07						Q	
3+ 9	35.1708	0.07						Q	
3+10	35.1874	0.07						Q	
3+11	35.2042	0.07						Q	
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3+15	35.2730	0.07						Q	
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3+17	35.3084	0.07						Q	
3+18	35.3263	0.07						Q	
3+19	35.3444	0.07						Q	
3+20	35.3627	0.07						Q	
3+21	35.3813	0.07						Q	
3+22	35.4000	0.07						Q	
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3+53	36.1180	0.07						Q	

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3+55	36.1782	0.07						Q	
3+56	36.2092	0.07						Q	
3+57	36.2408	0.07						Q	
3+58	36.2731	0.07						Q	
3+59	36.3063	0.07						Q	
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4+ 3	36.4488	0.07						Q	
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4+ 6	36.5644	0.07						Q	
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4+22	37.3557	0.07						Q	
4+23	37.4702	0.07						Q	
4+24	37.6131	0.07						Q	
4+25	37.7783	0.07						Q	
4+26	37.9495	0.07						Q	
4+27	38.1132	0.07						Q	
4+28	38.2588	0.07						Q	
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4+30	38.4890	0.07						Q	
4+31	38.5801	0.07						Q	
4+32	38.6587	0.07						Q	
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4+39	38.9990	0.07						Q	
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4+42	39.0863	0.07						Q	
4+43	39.1115	0.07						Q	
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4+52	39.2882	0.07						Q	
4+53	39.3043	0.07						Q	
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4+56	39.3490	0.07						Q	
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5+24	39.6315	0.07					QI
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6+41	39.9941	0.07						QI
6+42	39.9932	0.07						QI
6+43	39.9923	0.07						QI
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8+33	39.8882	0.07					QI
8+34	39.8872	0.07					QI
8+35	39.8863	0.07					QI
8+36	39.8853	0.07					QI
8+37	39.8844	0.07					QI

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8+39	39.8825	0.07					QI
8+40	39.8816	0.07					QI
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8+48	39.8740	0.07					QI
8+49	39.8730	0.07					QI
8+50	39.8721	0.07					QI
8+51	39.8711	0.07					QI
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9+ 6	39.8569	0.07					QI
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9+ 9	39.8541	0.07					QI
9+10	39.8531	0.07					QI
9+11	39.8522	0.07					QI
9+12	39.8513	0.07					QI
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9+17	39.8465	0.07					QI
9+18	39.8456	0.07					QI
9+19	39.8446	0.07					QI
9+20	39.8437	0.07					QI
9+21	39.8427	0.07					QI
9+22	39.8418	0.07					QI
9+23	39.8408	0.07					QI
9+24	39.8399	0.07					QI
9+25	39.8390	0.07					QI
9+26	39.8380	0.07					QI
9+27	39.8371	0.07					QI
9+28	39.8361	0.07					QI
9+29	39.8352	0.07					QI
9+30	39.8342	0.07					QI
9+31	39.8333	0.07					QI
9+32	39.8323	0.07					QI
9+33	39.8314	0.07					QI
9+34	39.8304	0.07					QI
9+35	39.8295	0.07					QI
9+36	39.8285	0.07					QI
9+37	39.8276	0.07					QI
9+38	39.8267	0.07					QI
9+39	39.8257	0.07					QI
9+40	39.8248	0.07					QI
9+41	39.8238	0.07					QI
9+42	39.8229	0.07					QI
9+43	39.8219	0.07					QI
9+44	39.8210	0.07					QI
9+45	39.8200	0.07					QI
9+46	39.8191	0.07					QI
9+47	39.8181	0.07					QI
9+48	39.8172	0.07					QI

9+49	39.8163	0.07					QI
9+50	39.8153	0.07					QI
9+51	39.8144	0.07					QI
9+52	39.8134	0.07					QI
9+53	39.8125	0.07					QI
9+54	39.8115	0.07					QI
9+55	39.8106	0.07					QI
9+56	39.8096	0.07					QI
9+57	39.8087	0.07					QI
9+58	39.8077	0.07					QI
9+59	39.8068	0.07					QI
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10+ 1	39.8049	0.07					QI
10+ 2	39.8040	0.07					QI
10+ 3	39.8030	0.07					QI
10+ 4	39.8021	0.07					QI
10+ 5	39.8011	0.07					QI
10+ 6	39.8002	0.07					QI
10+ 7	39.7992	0.07					QI
10+ 8	39.7983	0.07					QI
10+ 9	39.7973	0.07					QI
10+10	39.7964	0.07					QI
10+11	39.7955	0.07					QI
10+12	39.7945	0.07					QI
10+13	39.7936	0.07					QI
10+14	39.7926	0.07					QI
10+15	39.7917	0.07					QI
10+16	39.7907	0.07					QI
10+17	39.7898	0.07					QI
10+18	39.7888	0.07					QI
10+19	39.7879	0.07					QI
10+20	39.7870	0.07					QI
10+21	39.7860	0.07					QI
10+22	39.7851	0.07					QI
10+23	39.7841	0.07					QI
10+24	39.7832	0.07					QI
10+25	39.7822	0.07					QI
10+26	39.7813	0.07					QI
10+27	39.7803	0.07					QI
10+28	39.7794	0.07					QI
10+29	39.7784	0.07					QI
10+30	39.7775	0.07					QI
10+31	39.7766	0.07					QI
10+32	39.7756	0.07					QI
10+33	39.7747	0.07					QI
10+34	39.7737	0.07					QI
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10+36	39.7718	0.07					QI
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10+38	39.7699	0.07					QI
10+39	39.7690	0.07					QI
10+40	39.7681	0.07					QI
10+41	39.7671	0.07					QI
10+42	39.7662	0.07					QI
10+43	39.7652	0.07					QI
10+44	39.7643	0.07					QI
10+45	39.7633	0.07					QI
10+46	39.7624	0.07					QI
10+47	39.7614	0.07					QI
10+48	39.7605	0.07					QI
10+49	39.7596	0.07					QI
10+50	39.7586	0.07					QI
10+51	39.7577	0.07					QI
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10+53	39.7558	0.07					QI
10+54	39.7548	0.07					QI
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10+56	39.7529	0.07					QI
10+57	39.7520	0.07					QI
10+58	39.7511	0.07					QI
10+59	39.7501	0.07					QI

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11+ 3	39.7463	0.07						QI
11+ 4	39.7454	0.07						QI
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11+13	39.7369	0.07						QI
11+14	39.7360	0.07						QI
11+15	39.7350	0.07						QI
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11+17	39.7331	0.07						QI
11+18	39.7322	0.07						QI
11+19	39.7312	0.07						QI
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11+22	39.7284	0.07						QI
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11+37	39.7143	0.07						QI
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11+39	39.7124	0.07						QI
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11+42	39.7095	0.07						QI
11+43	39.7086	0.07						QI
11+44	39.7077	0.07						QI
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11+47	39.7048	0.07						QI
11+48	39.7039	0.07						QI
11+49	39.7029	0.07						QI
11+50	39.7020	0.07						QI
11+51	39.7011	0.07						QI
11+52	39.7001	0.07						QI
11+53	39.6992	0.07						QI
11+54	39.6982	0.07						QI
11+55	39.6973	0.07						QI
11+56	39.6963	0.07						QI
11+57	39.6954	0.07						QI
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11+59	39.6935	0.07						QI
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12+ 3	39.6897	0.07						QI
12+ 4	39.6888	0.07						QI
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12+ 9	39.6841	0.07						QI
12+10	39.6831	0.07						QI

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12+18	39.6756	0.07					QI
12+19	39.6747	0.07					QI
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12+22	39.6718	0.07					QI
12+23	39.6709	0.07					QI
12+24	39.6700	0.07					QI
12+25	39.6690	0.07					QI
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12+27	39.6671	0.07					QI
12+28	39.6662	0.07					QI
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12+32	39.6624	0.07					QI
12+33	39.6615	0.07					QI
12+34	39.6605	0.07					QI
12+35	39.6596	0.07					QI
12+36	39.6587	0.07					QI
12+37	39.6577	0.07					QI
12+38	39.6568	0.07					QI
12+39	39.6558	0.07					QI
12+40	39.6549	0.07					QI
12+41	39.6539	0.07					QI
12+42	39.6530	0.07					QI
12+43	39.6521	0.07					QI
12+44	39.6511	0.07					QI
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13+ 4	39.6323	0.07					QI
13+ 5	39.6314	0.07					QI
13+ 6	39.6304	0.07					QI
13+ 7	39.6295	0.07					QI
13+ 8	39.6285	0.07					QI
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13+12	39.6248	0.07					QI
13+13	39.6238	0.07					QI
13+14	39.6229	0.07					QI
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13+16	39.6210	0.07					QI
13+17	39.6201	0.07					QI
13+18	39.6191	0.07					QI
13+19	39.6182	0.07					QI
13+20	39.6172	0.07					QI
13+21	39.6163	0.07					QI

13+22	39.6154	0.07					QI
13+23	39.6144	0.07					QI
13+24	39.6135	0.07					QI
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13+27	39.6106	0.07					QI
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13+30	39.6078	0.07					QI
13+31	39.6069	0.07					QI
13+32	39.6059	0.07					QI
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13+34	39.6041	0.07					QI
13+35	39.6031	0.07					QI
13+36	39.6022	0.07					QI
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13+41	39.5975	0.07					QI
13+42	39.5965	0.07					QI
13+43	39.5956	0.07					QI
13+44	39.5947	0.07					QI
13+45	39.5937	0.07					QI
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13+47	39.5918	0.07					QI
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13+56	39.5834	0.07					QI
13+57	39.5824	0.07					QI
13+58	39.5815	0.07					QI
13+59	39.5806	0.07					QI
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14+ 2	39.5777	0.07					QI
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14+ 4	39.5759	0.07					QI
14+ 5	39.5749	0.07					QI
14+ 6	39.5740	0.07					QI
14+ 7	39.5730	0.07					QI
14+ 8	39.5721	0.07					QI
14+ 9	39.5712	0.07					QI
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14+18	39.5627	0.07					QI
14+19	39.5618	0.07					QI
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14+24	39.5571	0.07					QI
14+25	39.5561	0.07					QI
14+26	39.5552	0.07					QI
14+27	39.5542	0.07					QI
14+28	39.5533	0.07					QI
14+29	39.5524	0.07					QI
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14+38	39.5439	0.07					QI
14+39	39.5430	0.07					QI
14+40	39.5420	0.07					QI
14+41	39.5411	0.07					QI
14+42	39.5402	0.07					QI
14+43	39.5392	0.07					QI
14+44	39.5383	0.07					QI
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14+59	39.5242	0.07					QI
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15+14	39.5101	0.07					QI
15+15	39.5092	0.07					QI
15+16	39.5082	0.07					QI
15+17	39.5073	0.07					QI
15+18	39.5064	0.07					QI
15+19	39.5054	0.07					QI
15+20	39.5045	0.07					QI
15+21	39.5036	0.07					QI
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15+33	39.4923	0.07					QI
15+34	39.4914	0.07					QI
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15+39	39.4867	0.07					QI
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15+42	39.4839	0.07					QI
15+43	39.4829	0.07					QI

15+44	39.4820	0.07						QI
15+45	39.4810	0.07						QI
15+46	39.4801	0.07						QI
15+47	39.4792	0.07						QI
15+48	39.4782	0.07						QI
15+49	39.4773	0.07						QI
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15+54	39.4726	0.07						QI
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15+59	39.4679	0.07						QI
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16+24	39.4445	0.07						QI
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16+27	39.4417	0.07						QI
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16+34	39.4351	0.07						QI
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16+36	39.4333	0.07						QI
16+37	39.4323	0.07						QI
16+38	39.4314	0.07						QI
16+39	39.4304	0.07						QI
16+40	39.4295	0.07						QI
16+41	39.4286	0.07						QI
16+42	39.4276	0.07						QI
16+43	39.4267	0.07						QI
16+44	39.4258	0.07						QI
16+45	39.4248	0.07						QI
16+46	39.4239	0.07						QI
16+47	39.4230	0.07						QI
16+48	39.4220	0.07						QI
16+49	39.4211	0.07						QI
16+50	39.4201	0.07						QI
16+51	39.4192	0.07						QI
16+52	39.4183	0.07						QI
16+53	39.4173	0.07						QI
16+54	39.4164	0.07						QI

16+55	39.4155	0.07					QI
16+56	39.4145	0.07					QI
16+57	39.4136	0.07					QI
16+58	39.4127	0.07					QI
16+59	39.4117	0.07					QI
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17+ 2	39.4089	0.07					QI
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17+ 4	39.4070	0.07					QI
17+ 5	39.4061	0.07					QI
17+ 6	39.4052	0.07					QI
17+ 7	39.4042	0.07					QI
17+ 8	39.4033	0.07					QI
17+ 9	39.4024	0.07					QI
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17+14	39.3977	0.07					QI
17+15	39.3968	0.07					QI
17+16	39.3958	0.07					QI
17+17	39.3949	0.07					QI
17+18	39.3939	0.07					QI
17+19	39.3930	0.07					QI
17+20	39.3921	0.07					QI
17+21	39.3911	0.07					QI
17+22	39.3902	0.07					QI
17+23	39.3893	0.07					QI
17+24	39.3883	0.07					QI
17+25	39.3874	0.07					QI
17+26	39.3865	0.07					QI
17+27	39.3855	0.07					QI
17+28	39.3846	0.07					QI
17+29	39.3836	0.07					QI
17+30	39.3827	0.07					QI
17+31	39.3817	0.07					QI
17+32	39.3807	0.07					QI
17+33	39.3797	0.07					QI
17+34	39.3787	0.07					QI
17+35	39.3777	0.07					QI
17+36	39.3766	0.07					QI
17+37	39.3756	0.07					QI
17+38	39.3746	0.07					QI
17+39	39.3735	0.07					QI
17+40	39.3725	0.07					QI
17+41	39.3715	0.07					QI
17+42	39.3704	0.07					QI
17+43	39.3694	0.07					QI
17+44	39.3683	0.07					QI
17+45	39.3673	0.07					QI
17+46	39.3663	0.07					QI
17+47	39.3652	0.07					QI
17+48	39.3642	0.07					QI
17+49	39.3631	0.07					QI
17+50	39.3621	0.07					QI
17+51	39.3611	0.07					QI
17+52	39.3600	0.07					QI
17+53	39.3590	0.07					QI
17+54	39.3579	0.07					QI
17+55	39.3569	0.07					QI
17+56	39.3558	0.07					QI
17+57	39.3548	0.07					QI
17+58	39.3538	0.07					QI
17+59	39.3527	0.07					QI
18+ 0	39.3517	0.07					QI
18+ 1	39.3506	0.07					QI
18+ 2	39.3496	0.07					QI
18+ 3	39.3485	0.07					QI
18+ 4	39.3475	0.07					QI
18+ 5	39.3465	0.07					QI

18+ 6	39.3454	0.07						QI
18+ 7	39.3444	0.07						QI
18+ 8	39.3433	0.07						QI
18+ 9	39.3423	0.07						QI
18+10	39.3413	0.07						QI
18+11	39.3402	0.07						QI
18+12	39.3392	0.07						QI
18+13	39.3381	0.07						QI
18+14	39.3371	0.07						QI
18+15	39.3360	0.07						QI
18+16	39.3350	0.07						QI
18+17	39.3340	0.07						QI
18+18	39.3329	0.07						QI
18+19	39.3319	0.07						QI
18+20	39.3308	0.07						QI
18+21	39.3298	0.07						QI
18+22	39.3287	0.07						QI
18+23	39.3277	0.07						QI
18+24	39.3267	0.07						QI
18+25	39.3256	0.07						QI
18+26	39.3246	0.07						QI
18+27	39.3235	0.07						QI
18+28	39.3225	0.07						QI
18+29	39.3215	0.07						QI
18+30	39.3204	0.07						QI
18+31	39.3194	0.07						QI
18+32	39.3183	0.07						QI
18+33	39.3173	0.07						QI
18+34	39.3162	0.07						QI
18+35	39.3152	0.07						QI
18+36	39.3142	0.07						QI
18+37	39.3131	0.07						QI
18+38	39.3121	0.07						QI
18+39	39.3110	0.07						QI
18+40	39.3100	0.07						QI
18+41	39.3090	0.07						QI
18+42	39.3079	0.07						QI
18+43	39.3069	0.07						QI
18+44	39.3058	0.07						QI
18+45	39.3048	0.07						QI
18+46	39.3038	0.07						QI
18+47	39.3027	0.07						QI
18+48	39.3017	0.07						QI
18+49	39.3006	0.07						QI
18+50	39.2996	0.07						QI
18+51	39.2985	0.07						QI
18+52	39.2975	0.07						QI
18+53	39.2965	0.07						QI
18+54	39.2954	0.07						QI
18+55	39.2944	0.07						QI
18+56	39.2933	0.07						QI
18+57	39.2923	0.07						QI
18+58	39.2913	0.07						QI
18+59	39.2902	0.07						QI
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19+ 2	39.2871	0.07						QI
19+ 3	39.2861	0.07						QI
19+ 4	39.2850	0.07						QI
19+ 5	39.2840	0.07						QI
19+ 6	39.2829	0.07						QI
19+ 7	39.2819	0.07						QI
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19+ 9	39.2798	0.07						QI
19+10	39.2788	0.07						QI
19+11	39.2777	0.07						QI
19+12	39.2767	0.07						QI
19+13	39.2757	0.07						QI
19+14	39.2746	0.07						QI
19+15	39.2736	0.07						QI
19+16	39.2725	0.07						QI

19+17	39.2715	0.07					QI
19+18	39.2705	0.07					QI
19+19	39.2694	0.07					QI
19+20	39.2684	0.07					QI
19+21	39.2673	0.07					QI
19+22	39.2663	0.07					QI
19+23	39.2653	0.07					QI
19+24	39.2642	0.07					QI
19+25	39.2632	0.07					QI
19+26	39.2621	0.07					QI
19+27	39.2611	0.07					QI
19+28	39.2601	0.07					QI
19+29	39.2590	0.07					QI
19+30	39.2580	0.07					QI
19+31	39.2569	0.07					QI
19+32	39.2559	0.07					QI
19+33	39.2549	0.07					QI
19+34	39.2538	0.07					QI
19+35	39.2528	0.07					QI
19+36	39.2517	0.07					QI
19+37	39.2507	0.07					QI
19+38	39.2497	0.07					QI
19+39	39.2486	0.07					QI
19+40	39.2476	0.07					QI
19+41	39.2465	0.07					QI
19+42	39.2455	0.07					QI
19+43	39.2445	0.07					QI
19+44	39.2434	0.07					QI
19+45	39.2424	0.07					QI
19+46	39.2413	0.07					QI
19+47	39.2403	0.07					QI
19+48	39.2393	0.07					QI
19+49	39.2382	0.07					QI
19+50	39.2372	0.07					QI
19+51	39.2361	0.07					QI
19+52	39.2351	0.07					QI
19+53	39.2341	0.07					QI
19+54	39.2330	0.07					QI
19+55	39.2320	0.07					QI
19+56	39.2309	0.07					QI
19+57	39.2299	0.07					QI
19+58	39.2289	0.07					QI
19+59	39.2278	0.07					QI
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20+ 2	39.2247	0.07					QI
20+ 3	39.2237	0.07					QI
20+ 4	39.2226	0.07					QI
20+ 5	39.2216	0.07					QI
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20+ 8	39.2185	0.07					QI
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20+11	39.2154	0.07					QI
20+12	39.2143	0.07					QI
20+13	39.2133	0.07					QI
20+14	39.2122	0.07					QI
20+15	39.2112	0.07					QI
20+16	39.2102	0.07					QI
20+17	39.2091	0.07					QI
20+18	39.2081	0.07					QI
20+19	39.2071	0.07					QI
20+20	39.2060	0.07					QI
20+21	39.2050	0.07					QI
20+22	39.2039	0.07					QI
20+23	39.2029	0.07					QI
20+24	39.2019	0.07					QI
20+25	39.2008	0.07					QI
20+26	39.1998	0.07					QI
20+27	39.1987	0.07					QI

20+28	39.1977	0.07						QI
20+29	39.1967	0.07						QI
20+30	39.1956	0.07						QI
20+31	39.1946	0.07						QI
20+32	39.1936	0.07						QI
20+33	39.1925	0.07						QI
20+34	39.1915	0.07						QI
20+35	39.1904	0.07						QI
20+36	39.1894	0.07						QI
20+37	39.1884	0.07						QI
20+38	39.1873	0.07						QI
20+39	39.1863	0.07						QI
20+40	39.1852	0.07						QI
20+41	39.1842	0.07						QI
20+42	39.1832	0.07						QI
20+43	39.1821	0.07						QI
20+44	39.1811	0.07						QI
20+45	39.1801	0.07						QI
20+46	39.1790	0.07						QI
20+47	39.1780	0.07						QI
20+48	39.1769	0.07						QI
20+49	39.1759	0.07						QI
20+50	39.1749	0.07						QI
20+51	39.1738	0.07						QI
20+52	39.1728	0.07						QI
20+53	39.1718	0.07						QI
20+54	39.1707	0.07						QI
20+55	39.1697	0.07						QI
20+56	39.1686	0.07						QI
20+57	39.1676	0.07						QI
20+58	39.1666	0.07						QI
20+59	39.1655	0.07						QI
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21+ 1	39.1635	0.07						QI
21+ 2	39.1624	0.07						QI
21+ 3	39.1614	0.07						QI
21+ 4	39.1603	0.07						QI
21+ 5	39.1593	0.07						QI
21+ 6	39.1583	0.07						QI
21+ 7	39.1572	0.07						QI
21+ 8	39.1562	0.07						QI
21+ 9	39.1552	0.07						QI
21+10	39.1541	0.07						QI
21+11	39.1531	0.07						QI
21+12	39.1520	0.07						QI
21+13	39.1510	0.07						QI
21+14	39.1500	0.07						QI
21+15	39.1489	0.07						QI
21+16	39.1479	0.07						QI
21+17	39.1469	0.07						QI
21+18	39.1458	0.07						QI
21+19	39.1448	0.07						QI
21+20	39.1438	0.07						QI
21+21	39.1427	0.07						QI
21+22	39.1417	0.07						QI
21+23	39.1406	0.07						QI
21+24	39.1396	0.07						QI
21+25	39.1386	0.07						QI
21+26	39.1375	0.07						QI
21+27	39.1365	0.07						QI
21+28	39.1355	0.07						QI
21+29	39.1344	0.07						QI
21+30	39.1334	0.07						QI
21+31	39.1323	0.07						QI
21+32	39.1313	0.07						QI
21+33	39.1303	0.07						QI
21+34	39.1292	0.07						QI
21+35	39.1282	0.07						QI
21+36	39.1272	0.07						QI
21+37	39.1261	0.07						QI
21+38	39.1251	0.07						QI

21+39	39.1241	0.07					QI
21+40	39.1230	0.07					QI
21+41	39.1220	0.07					QI
21+42	39.1209	0.07					QI
21+43	39.1199	0.07					QI
21+44	39.1189	0.07					QI
21+45	39.1178	0.07					QI
21+46	39.1168	0.07					QI
21+47	39.1158	0.07					QI
21+48	39.1147	0.07					QI
21+49	39.1137	0.07					QI
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21+52	39.1106	0.07					QI
21+53	39.1095	0.07					QI
21+54	39.1085	0.07					QI
21+55	39.1075	0.07					QI
21+56	39.1064	0.07					QI
21+57	39.1054	0.07					QI
21+58	39.1044	0.07					QI
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22+ 9	39.0930	0.07					QI
22+10	39.0919	0.07					QI
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22+12	39.0899	0.07					QI
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22+14	39.0878	0.07					QI
22+15	39.0868	0.07					QI
22+16	39.0857	0.07					QI
22+17	39.0847	0.07					QI
22+18	39.0837	0.07					QI
22+19	39.0826	0.07					QI
22+20	39.0816	0.07					QI
22+21	39.0806	0.07					QI
22+22	39.0795	0.07					QI
22+23	39.0785	0.07					QI
22+24	39.0774	0.07					QI
22+25	39.0764	0.07					QI
22+26	39.0754	0.07					QI
22+27	39.0743	0.07					QI
22+28	39.0733	0.07					QI
22+29	39.0723	0.07					QI
22+30	39.0712	0.07					QI
22+31	39.0702	0.07					QI
22+32	39.0692	0.07					QI
22+33	39.0681	0.07					QI
22+34	39.0671	0.07					QI
22+35	39.0661	0.07					QI
22+36	39.0650	0.07					QI
22+37	39.0640	0.07					QI
22+38	39.0630	0.07					QI
22+39	39.0619	0.07					QI
22+40	39.0609	0.07					QI
22+41	39.0599	0.07					QI
22+42	39.0588	0.07					QI
22+43	39.0578	0.07					QI
22+44	39.0568	0.07					QI
22+45	39.0557	0.07					QI
22+46	39.0547	0.07					QI
22+47	39.0536	0.07					QI
22+48	39.0526	0.07					QI
22+49	39.0516	0.07					QI

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22+51	39.0495	0.07						Q
22+52	39.0485	0.07						Q
22+53	39.0474	0.07						Q
22+54	39.0464	0.07						Q
22+55	39.0454	0.07						Q
22+56	39.0443	0.07						Q
22+57	39.0433	0.07						Q
22+58	39.0423	0.07						Q
22+59	39.0412	0.07						Q
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23+ 3	39.0371	0.07						Q
23+ 4	39.0361	0.07						Q
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23+ 6	39.0340	0.07						Q
23+ 7	39.0330	0.07						Q
23+ 8	39.0319	0.07						Q
23+ 9	39.0309	0.07						Q
23+10	39.0299	0.07						Q
23+11	39.0288	0.07						Q
23+12	39.0278	0.07						Q
23+13	39.0268	0.07						Q
23+14	39.0257	0.07						Q
23+15	39.0247	0.07						Q
23+16	39.0237	0.07						Q
23+17	39.0226	0.07						Q
23+18	39.0216	0.07						Q
23+19	39.0206	0.07						Q
23+20	39.0195	0.07						Q
23+21	39.0185	0.07						Q
23+22	39.0175	0.07						Q
23+23	39.0164	0.07						Q
23+24	39.0154	0.07						Q
23+25	39.0144	0.07						Q
23+26	39.0133	0.07						Q
23+27	39.0123	0.07						Q
23+28	39.0113	0.07						Q
23+29	39.0102	0.07						Q
23+30	39.0092	0.07						Q
23+31	39.0082	0.07						Q
23+32	39.0071	0.07						Q
23+33	39.0061	0.07						Q
23+34	39.0051	0.07						Q
23+35	39.0040	0.07						Q
23+36	39.0030	0.07						Q
23+37	39.0020	0.07						Q
23+38	39.0009	0.07						Q
23+39	38.9999	0.07						Q
23+40	38.9989	0.07						Q
23+41	38.9978	0.07						Q
23+42	38.9968	0.07						Q
23+43	38.9958	0.07						Q
23+44	38.9947	0.07						Q
23+45	38.9937	0.07						Q
23+46	38.9927	0.07						Q
23+47	38.9916	0.07						Q
23+48	38.9906	0.07						Q
23+49	38.9896	0.07						Q
23+50	38.9885	0.07						Q
23+51	38.9875	0.07						Q
23+52	38.9865	0.07						Q
23+53	38.9854	0.07						Q
23+54	38.9844	0.07						Q
23+55	38.9834	0.07						Q
23+56	38.9823	0.07						Q
23+57	38.9813	0.07						Q
23+58	38.9803	0.07						Q
23+59	38.9792	0.07						Q
24+ 0	38.9782	0.07						Q

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24+ 2	38.9761	0.07						Q	
24+ 3	38.9751	0.07						Q	
24+ 4	38.9741	0.07						Q	
24+ 5	38.9730	0.07						Q	
24+ 6	38.9720	0.07						Q	
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24+11	38.9668	0.07						Q	
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24+35	38.9421	0.07						Q	
24+36	38.9411	0.07						Q	
24+37	38.9400	0.07						Q	
24+38	38.9390	0.07						Q	
24+39	38.9380	0.07						Q	
24+40	38.9369	0.07						Q	
24+41	38.9359	0.07						Q	
24+42	38.9349	0.07						Q	
24+43	38.9338	0.07						Q	
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24+47	38.9297	0.07						Q	
24+48	38.9287	0.07						Q	
24+49	38.9276	0.07						Q	
24+50	38.9266	0.07						Q	
24+51	38.9256	0.07						Q	
24+52	38.9246	0.07						Q	
24+53	38.9235	0.07						Q	
24+54	38.9225	0.07						Q	
24+55	38.9215	0.07						Q	
24+56	38.9204	0.07						Q	
24+57	38.9194	0.07						Q	
24+58	38.9184	0.07						Q	
24+59	38.9173	0.07						Q	
25+ 0	38.9163	0.07						Q	
25+ 1	38.9153	0.07						Q	
25+ 2	38.9142	0.07						Q	
25+ 3	38.9132	0.07						Q	
25+ 4	38.9122	0.07						Q	
25+ 5	38.9112	0.07						Q	
25+ 6	38.9101	0.07						Q	
25+ 7	38.9091	0.07						Q	
25+ 8	38.9081	0.07						Q	
25+ 9	38.9070	0.07						Q	
25+10	38.9060	0.07						Q	
25+11	38.9050	0.07						Q	

25+12	38.9039	0.07						Q	
25+13	38.9029	0.07						Q	
25+14	38.9019	0.07						Q	
25+15	38.9008	0.07						Q	
25+16	38.8998	0.07						Q	
25+17	38.8988	0.07						Q	
25+18	38.8978	0.07						Q	
25+19	38.8967	0.07						Q	
25+20	38.8957	0.07						Q	
25+21	38.8947	0.07						Q	
25+22	38.8936	0.07						Q	
25+23	38.8926	0.07						Q	
25+24	38.8916	0.07						Q	
25+25	38.8905	0.07						Q	
25+26	38.8895	0.07						Q	
25+27	38.8885	0.07						Q	
25+28	38.8875	0.07						Q	
25+29	38.8864	0.07						Q	
25+30	38.8854	0.07						Q	
25+31	38.8844	0.07						Q	
25+32	38.8833	0.07						Q	
25+33	38.8823	0.07						Q	
25+34	38.8813	0.07						Q	
25+35	38.8802	0.07						Q	
25+36	38.8792	0.07						Q	
25+37	38.8782	0.07						Q	
25+38	38.8772	0.07						Q	
25+39	38.8761	0.07						Q	
25+40	38.8751	0.07						Q	
25+41	38.8741	0.07						Q	
25+42	38.8730	0.07						Q	
25+43	38.8720	0.07						Q	
25+44	38.8710	0.07						Q	
25+45	38.8699	0.07						Q	
25+46	38.8689	0.07						Q	
25+47	38.8679	0.07						Q	
25+48	38.8669	0.07						Q	
25+49	38.8658	0.07						Q	
25+50	38.8648	0.07						Q	
25+51	38.8638	0.07						Q	
25+52	38.8627	0.07						Q	
25+53	38.8617	0.07						Q	
25+54	38.8607	0.07						Q	
25+55	38.8596	0.07						Q	
25+56	38.8586	0.07						Q	
25+57	38.8576	0.07						Q	
25+58	38.8566	0.07						Q	
25+59	38.8555	0.07						Q	
26+ 0	38.8545	0.07						Q	
26+ 1	38.8535	0.07						Q	
26+ 2	38.8524	0.07						Q	
26+ 3	38.8514	0.07						Q	
26+ 4	38.8504	0.07						Q	
26+ 5	38.8494	0.07						Q	
26+ 6	38.8483	0.07						Q	
26+ 7	38.8473	0.07						Q	
26+ 8	38.8463	0.07						Q	
26+ 9	38.8452	0.07						Q	
26+10	38.8442	0.07						Q	
26+11	38.8432	0.07						Q	
26+12	38.8422	0.07						Q	
26+13	38.8411	0.07						Q	
26+14	38.8401	0.07						Q	
26+15	38.8391	0.07						Q	
26+16	38.8380	0.07						Q	
26+17	38.8370	0.07						Q	
26+18	38.8360	0.07						Q	
26+19	38.8350	0.07						Q	
26+20	38.8339	0.07						Q	
26+21	38.8329	0.07						Q	
26+22	38.8319	0.07						Q	

26+23	38.8308	0.07						Q	
26+24	38.8298	0.07						Q	
26+25	38.8288	0.07						Q	
26+26	38.8278	0.07						Q	
26+27	38.8267	0.07						Q	
26+28	38.8257	0.07						Q	
26+29	38.8247	0.07						Q	
26+30	38.8236	0.07						Q	
26+31	38.8226	0.07						Q	
26+32	38.8216	0.07						Q	
26+33	38.8206	0.07						Q	
26+34	38.8195	0.07						Q	
26+35	38.8185	0.07						Q	
26+36	38.8175	0.07						Q	
26+37	38.8164	0.07						Q	
26+38	38.8154	0.07						Q	
26+39	38.8144	0.07						Q	
26+40	38.8134	0.07						Q	
26+41	38.8123	0.07						Q	
26+42	38.8113	0.07						Q	
26+43	38.8103	0.07						Q	
26+44	38.8092	0.07						Q	
26+45	38.8082	0.07						Q	
26+46	38.8072	0.07						Q	
26+47	38.8062	0.07						Q	
26+48	38.8051	0.07						Q	
26+49	38.8041	0.07						Q	
26+50	38.8031	0.07						Q	
26+51	38.8020	0.07						Q	
26+52	38.8010	0.07						Q	
26+53	38.8000	0.07						Q	
26+54	38.7990	0.07						Q	
26+55	38.7979	0.07						Q	
26+56	38.7969	0.07						Q	
26+57	38.7959	0.07						Q	
26+58	38.7949	0.07						Q	
26+59	38.7938	0.07						Q	
27+ 0	38.7928	0.07						Q	
27+ 1	38.7918	0.07						Q	
27+ 2	38.7907	0.07						Q	
27+ 3	38.7897	0.07						Q	
27+ 4	38.7887	0.07						Q	
27+ 5	38.7877	0.07						Q	
27+ 6	38.7866	0.07						Q	
27+ 7	38.7856	0.07						Q	
27+ 8	38.7846	0.07						Q	
27+ 9	38.7836	0.07						Q	
27+10	38.7825	0.07						Q	
27+11	38.7815	0.07						Q	
27+12	38.7805	0.07						Q	
27+13	38.7794	0.07						Q	
27+14	38.7784	0.07						Q	
27+15	38.7774	0.07						Q	
27+16	38.7764	0.07						Q	
27+17	38.7753	0.07						Q	
27+18	38.7743	0.07						Q	
27+19	38.7733	0.07						Q	
27+20	38.7723	0.07						Q	
27+21	38.7712	0.07						Q	
27+22	38.7702	0.07						Q	
27+23	38.7692	0.07						Q	
27+24	38.7681	0.07						Q	
27+25	38.7671	0.07						Q	
27+26	38.7661	0.07						Q	
27+27	38.7651	0.07						Q	
27+28	38.7640	0.07						Q	
27+29	38.7630	0.07						Q	
27+30	38.7620	0.07						Q	
27+31	38.7610	0.07						Q	
27+32	38.7599	0.07						Q	
27+33	38.7589	0.07						Q	

27+34	38.7579	0.07						Q	
27+35	38.7569	0.07						Q	
27+36	38.7558	0.07						Q	
27+37	38.7548	0.07						Q	
27+38	38.7538	0.07						Q	
27+39	38.7527	0.07						Q	
27+40	38.7517	0.07						Q	
27+41	38.7507	0.07						Q	
27+42	38.7497	0.07						Q	
27+43	38.7486	0.07						Q	
27+44	38.7476	0.07						Q	
27+45	38.7466	0.07						Q	
27+46	38.7456	0.07						Q	
27+47	38.7445	0.07						Q	
27+48	38.7435	0.07						Q	
27+49	38.7425	0.07						Q	
27+50	38.7415	0.07						Q	
27+51	38.7404	0.07						Q	
27+52	38.7394	0.07						Q	
27+53	38.7384	0.07						Q	
27+54	38.7374	0.07						Q	
27+55	38.7363	0.07						Q	
27+56	38.7353	0.07						Q	
27+57	38.7343	0.07						Q	
27+58	38.7332	0.07						Q	
27+59	38.7322	0.07						Q	
28+ 0	38.7312	0.07						Q	
28+ 1	38.7302	0.07						Q	
28+ 2	38.7291	0.07						Q	
28+ 3	38.7281	0.07						Q	
28+ 4	38.7271	0.07						Q	
28+ 5	38.7261	0.07						Q	
28+ 6	38.7250	0.07						Q	
28+ 7	38.7240	0.07						Q	
28+ 8	38.7230	0.07						Q	
28+ 9	38.7220	0.07						Q	
28+10	38.7209	0.07						Q	
28+11	38.7199	0.07						Q	
28+12	38.7189	0.07						Q	
28+13	38.7179	0.07						Q	
28+14	38.7168	0.07						Q	
28+15	38.7158	0.07						Q	
28+16	38.7148	0.07						Q	
28+17	38.7138	0.07						Q	
28+18	38.7127	0.07						Q	
28+19	38.7117	0.07						Q	
28+20	38.7107	0.07						Q	
28+21	38.7097	0.07						Q	
28+22	38.7086	0.07						Q	
28+23	38.7076	0.07						Q	
28+24	38.7066	0.07						Q	
28+25	38.7056	0.07						Q	
28+26	38.7045	0.07						Q	
28+27	38.7035	0.07						Q	
28+28	38.7025	0.07						Q	
28+29	38.7015	0.07						Q	
28+30	38.7004	0.07						Q	
28+31	38.6994	0.07						Q	
28+32	38.6984	0.07						Q	
28+33	38.6974	0.07						Q	
28+34	38.6963	0.07						Q	
28+35	38.6953	0.07						Q	
28+36	38.6943	0.07						Q	
28+37	38.6933	0.07						Q	
28+38	38.6922	0.07						Q	
28+39	38.6912	0.07						Q	
28+40	38.6902	0.07						Q	
28+41	38.6892	0.07						Q	
28+42	38.6881	0.07						Q	
28+43	38.6871	0.07						Q	
28+44	38.6861	0.07						Q	

28+45	38.6851	0.07						Q	
28+46	38.6840	0.07						Q	
28+47	38.6830	0.07						Q	
28+48	38.6820	0.07						Q	
28+49	38.6810	0.07						Q	
28+50	38.6799	0.07						Q	
28+51	38.6789	0.07						Q	
28+52	38.6779	0.07						Q	
28+53	38.6769	0.07						Q	
28+54	38.6758	0.07						Q	
28+55	38.6748	0.07						Q	
28+56	38.6738	0.07						Q	
28+57	38.6728	0.07						Q	
28+58	38.6717	0.07						Q	
28+59	38.6707	0.07						Q	
29+ 0	38.6697	0.07						Q	
29+ 1	38.6687	0.07						Q	
29+ 2	38.6676	0.07						Q	
29+ 3	38.6666	0.07						Q	
29+ 4	38.6656	0.07						Q	
29+ 5	38.6646	0.07						Q	
29+ 6	38.6635	0.07						Q	
29+ 7	38.6625	0.07						Q	
29+ 8	38.6615	0.07						Q	
29+ 9	38.6605	0.07						Q	
29+10	38.6594	0.07						Q	
29+11	38.6584	0.07						Q	
29+12	38.6574	0.07						Q	
29+13	38.6564	0.07						Q	
29+14	38.6553	0.07						Q	
29+15	38.6543	0.07						Q	
29+16	38.6533	0.07						Q	
29+17	38.6523	0.07						Q	
29+18	38.6513	0.07						Q	
29+19	38.6502	0.07						Q	
29+20	38.6492	0.07						Q	
29+21	38.6482	0.07						Q	
29+22	38.6472	0.07						Q	
29+23	38.6461	0.07						Q	
29+24	38.6451	0.07						Q	
29+25	38.6441	0.07						Q	
29+26	38.6431	0.07						Q	
29+27	38.6420	0.07						Q	
29+28	38.6410	0.07						Q	
29+29	38.6400	0.07						Q	
29+30	38.6390	0.07						Q	
29+31	38.6379	0.07						Q	
29+32	38.6369	0.07						Q	
29+33	38.6359	0.07						Q	
29+34	38.6349	0.07						Q	
29+35	38.6339	0.07						Q	
29+36	38.6328	0.07						Q	
29+37	38.6318	0.07						Q	
29+38	38.6308	0.07						Q	
29+39	38.6298	0.07						Q	
29+40	38.6287	0.07						Q	
29+41	38.6277	0.07						Q	
29+42	38.6267	0.07						Q	
29+43	38.6257	0.07						Q	
29+44	38.6246	0.07						Q	
29+45	38.6236	0.07						Q	
29+46	38.6226	0.07						Q	
29+47	38.6216	0.07						Q	
29+48	38.6206	0.07						Q	
29+49	38.6195	0.07						Q	
29+50	38.6185	0.07						Q	
29+51	38.6175	0.07						Q	
29+52	38.6165	0.07						Q	
29+53	38.6154	0.07						Q	
29+54	38.6144	0.07						Q	
29+55	38.6134	0.07						Q	

29+56	38.6124	0.07						Q	
29+57	38.6113	0.07						Q	
29+58	38.6103	0.07						Q	
29+59	38.6093	0.07						Q	
30+ 0	38.6083	0.07						Q	
30+ 1	38.6073	0.07						Q	
30+ 2	38.6062	0.07						Q	
30+ 3	38.6052	0.07						Q	
30+ 4	38.6042	0.07						Q	
30+ 5	38.6032	0.07						Q	
30+ 6	38.6021	0.07						Q	
30+ 7	38.6011	0.07						Q	
30+ 8	38.6001	0.07						Q	
30+ 9	38.5991	0.07						Q	
30+10	38.5981	0.07						Q	
30+11	38.5970	0.07						Q	
30+12	38.5960	0.07						Q	
30+13	38.5950	0.07						Q	
30+14	38.5940	0.07						Q	
30+15	38.5929	0.07						Q	
30+16	38.5919	0.07						Q	
30+17	38.5909	0.07						Q	
30+18	38.5899	0.07						Q	
30+19	38.5889	0.07						Q	
30+20	38.5878	0.07						Q	
30+21	38.5868	0.07						Q	
30+22	38.5858	0.07						Q	
30+23	38.5848	0.07						Q	
30+24	38.5837	0.07						Q	
30+25	38.5827	0.07						Q	
30+26	38.5817	0.07						Q	
30+27	38.5807	0.07						Q	
30+28	38.5797	0.07						Q	
30+29	38.5786	0.07						Q	
30+30	38.5776	0.07						Q	
30+31	38.5766	0.07						Q	
30+32	38.5756	0.07						Q	
30+33	38.5745	0.07						Q	
30+34	38.5735	0.07						Q	
30+35	38.5725	0.07						Q	
30+36	38.5715	0.07						Q	
30+37	38.5705	0.07						Q	
30+38	38.5694	0.07						Q	
30+39	38.5684	0.07						Q	
30+40	38.5674	0.07						Q	
30+41	38.5664	0.07						Q	
30+42	38.5653	0.07						Q	
30+43	38.5643	0.07						Q	
30+44	38.5633	0.07						Q	
30+45	38.5623	0.07						Q	
30+46	38.5613	0.07						Q	
30+47	38.5602	0.07						Q	
30+48	38.5592	0.07						Q	
30+49	38.5582	0.07						Q	
30+50	38.5572	0.07						Q	
30+51	38.5562	0.07						Q	
30+52	38.5551	0.07						Q	
30+53	38.5541	0.07						Q	
30+54	38.5531	0.07						Q	
30+55	38.5521	0.07						Q	
30+56	38.5510	0.07						Q	
30+57	38.5500	0.07						Q	
30+58	38.5490	0.07						Q	
30+59	38.5480	0.07						Q	
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31+ 1	38.5459	0.07						Q	
31+ 2	38.5449	0.07						Q	
31+ 3	38.5439	0.07						Q	
31+ 4	38.5429	0.07						Q	
31+ 5	38.5419	0.07						Q	
31+ 6	38.5408	0.07						Q	

31+ 7	38.5398	0.07						Q	
31+ 8	38.5388	0.07						Q	
31+ 9	38.5378	0.07						Q	
31+10	38.5368	0.07						Q	
31+11	38.5357	0.07						Q	
31+12	38.5347	0.07						Q	
31+13	38.5337	0.07						Q	
31+14	38.5327	0.07						Q	
31+15	38.5317	0.07						Q	
31+16	38.5306	0.07						Q	
31+17	38.5296	0.07						Q	
31+18	38.5286	0.07						Q	
31+19	38.5276	0.07						Q	
31+20	38.5265	0.07						Q	
31+21	38.5255	0.07						Q	
31+22	38.5245	0.07						Q	
31+23	38.5235	0.07						Q	
31+24	38.5225	0.07						Q	
31+25	38.5214	0.07						Q	
31+26	38.5204	0.07						Q	
31+27	38.5194	0.07						Q	
31+28	38.5184	0.07						Q	
31+29	38.5174	0.07						Q	
31+30	38.5163	0.07						Q	
31+31	38.5153	0.07						Q	
31+32	38.5143	0.07						Q	
31+33	38.5133	0.07						Q	
31+34	38.5123	0.07						Q	
31+35	38.5112	0.07						Q	
31+36	38.5102	0.07						Q	
31+37	38.5092	0.07						Q	
31+38	38.5082	0.07						Q	
31+39	38.5072	0.07						Q	
31+40	38.5061	0.07						Q	
31+41	38.5051	0.07						Q	
31+42	38.5041	0.07						Q	
31+43	38.5031	0.07						Q	
31+44	38.5021	0.07						Q	
31+45	38.5010	0.07						Q	
31+46	38.5000	0.07						Q	
31+47	38.4990	0.07						Q	
31+48	38.4980	0.07						Q	
31+49	38.4970	0.07						Q	
31+50	38.4959	0.07						Q	
31+51	38.4949	0.07						Q	
31+52	38.4939	0.07						Q	
31+53	38.4929	0.07						Q	
31+54	38.4919	0.07						Q	
31+55	38.4908	0.07						Q	
31+56	38.4898	0.07						Q	
31+57	38.4888	0.07						Q	
31+58	38.4878	0.07						Q	
31+59	38.4868	0.07						Q	
32+ 0	38.4858	0.07						Q	
32+ 1	38.4847	0.07						Q	
32+ 2	38.4837	0.07						Q	
32+ 3	38.4827	0.07						Q	
32+ 4	38.4817	0.07						Q	
32+ 5	38.4807	0.07						Q	
32+ 6	38.4796	0.07						Q	
32+ 7	38.4786	0.07						Q	
32+ 8	38.4776	0.07						Q	
32+ 9	38.4766	0.07						Q	
32+10	38.4756	0.07						Q	
32+11	38.4745	0.07						Q	
32+12	38.4735	0.07						Q	
32+13	38.4725	0.07						Q	
32+14	38.4715	0.07						Q	
32+15	38.4705	0.07						Q	
32+16	38.4694	0.07						Q	
32+17	38.4684	0.07						Q	

32+18	38.4674	0.07						Q	
32+19	38.4664	0.07						Q	
32+20	38.4654	0.07						Q	
32+21	38.4643	0.07						Q	
32+22	38.4633	0.07						Q	
32+23	38.4623	0.07						Q	
32+24	38.4613	0.07						Q	
32+25	38.4603	0.07						Q	
32+26	38.4593	0.07						Q	
32+27	38.4582	0.07						Q	
32+28	38.4572	0.07						Q	
32+29	38.4562	0.07						Q	
32+30	38.4552	0.07						Q	
32+31	38.4542	0.07						Q	
32+32	38.4531	0.07						Q	
32+33	38.4521	0.07						Q	
32+34	38.4511	0.07						Q	
32+35	38.4501	0.07						Q	
32+36	38.4491	0.07						Q	
32+37	38.4480	0.07						Q	
32+38	38.4470	0.07						Q	
32+39	38.4460	0.07						Q	
32+40	38.4450	0.07						Q	
32+41	38.4440	0.07						Q	
32+42	38.4430	0.07						Q	
32+43	38.4419	0.07						Q	
32+44	38.4409	0.07						Q	
32+45	38.4399	0.07						Q	
32+46	38.4389	0.07						Q	
32+47	38.4379	0.07						Q	
32+48	38.4368	0.07						Q	
32+49	38.4358	0.07						Q	
32+50	38.4348	0.07						Q	
32+51	38.4338	0.07						Q	
32+52	38.4328	0.07						Q	
32+53	38.4318	0.07						Q	
32+54	38.4307	0.07						Q	
32+55	38.4297	0.07						Q	
32+56	38.4287	0.07						Q	
32+57	38.4277	0.07						Q	
32+58	38.4267	0.07						Q	
32+59	38.4257	0.07						Q	
33+ 0	38.4246	0.07						Q	
33+ 1	38.4236	0.07						Q	
33+ 2	38.4226	0.07						Q	
33+ 3	38.4216	0.07						Q	
33+ 4	38.4206	0.07						Q	
33+ 5	38.4195	0.07						Q	
33+ 6	38.4185	0.07						Q	
33+ 7	38.4175	0.07						Q	
33+ 8	38.4165	0.07						Q	
33+ 9	38.4155	0.07						Q	
33+10	38.4145	0.07						Q	
33+11	38.4134	0.07						Q	
33+12	38.4124	0.07						Q	
33+13	38.4114	0.07						Q	
33+14	38.4104	0.07						Q	
33+15	38.4094	0.07						Q	
33+16	38.4084	0.07						Q	
33+17	38.4073	0.07						Q	
33+18	38.4063	0.07						Q	
33+19	38.4053	0.07						Q	
33+20	38.4043	0.07						Q	
33+21	38.4033	0.07						Q	
33+22	38.4022	0.07						Q	
33+23	38.4012	0.07						Q	
33+24	38.4002	0.07						Q	
33+25	38.3992	0.07						Q	
33+26	38.3982	0.07						Q	
33+27	38.3972	0.07						Q	
33+28	38.3961	0.07						Q	

33+29	38.3951	0.07						Q	
33+30	38.3941	0.07						Q	
33+31	38.3931	0.07						Q	
33+32	38.3921	0.07						Q	
33+33	38.3911	0.07						Q	
33+34	38.3900	0.07						Q	
33+35	38.3890	0.07						Q	
33+36	38.3880	0.07						Q	
33+37	38.3870	0.07						Q	
33+38	38.3860	0.07						Q	
33+39	38.3850	0.07						Q	
33+40	38.3839	0.07						Q	
33+41	38.3829	0.07						Q	
33+42	38.3819	0.07						Q	
33+43	38.3809	0.07						Q	
33+44	38.3799	0.07						Q	
33+45	38.3789	0.07						Q	
33+46	38.3778	0.07						Q	
33+47	38.3768	0.07						Q	
33+48	38.3758	0.07						Q	
33+49	38.3748	0.07						Q	
33+50	38.3738	0.07						Q	
33+51	38.3728	0.07						Q	
33+52	38.3717	0.07						Q	
33+53	38.3707	0.07						Q	
33+54	38.3697	0.07						Q	
33+55	38.3687	0.07						Q	
33+56	38.3677	0.07						Q	
33+57	38.3667	0.07						Q	
33+58	38.3656	0.07						Q	
33+59	38.3646	0.07						Q	
34+ 0	38.3636	0.07						Q	
34+ 1	38.3626	0.07						Q	
34+ 2	38.3616	0.07						Q	
34+ 3	38.3606	0.07						Q	
34+ 4	38.3595	0.07						Q	
34+ 5	38.3585	0.07						Q	
34+ 6	38.3575	0.07						Q	
34+ 7	38.3565	0.07						Q	
34+ 8	38.3555	0.07						Q	
34+ 9	38.3545	0.07						Q	
34+10	38.3535	0.07						Q	
34+11	38.3524	0.07						Q	
34+12	38.3514	0.07						Q	
34+13	38.3504	0.07						Q	
34+14	38.3494	0.07						Q	
34+15	38.3484	0.07						Q	
34+16	38.3474	0.07						Q	
34+17	38.3463	0.07						Q	
34+18	38.3453	0.07						Q	
34+19	38.3443	0.07						Q	
34+20	38.3433	0.07						Q	
34+21	38.3423	0.07						Q	
34+22	38.3413	0.07						Q	
34+23	38.3402	0.07						Q	
34+24	38.3392	0.07						Q	
34+25	38.3382	0.07						Q	
34+26	38.3372	0.07						Q	
34+27	38.3362	0.07						Q	
34+28	38.3352	0.07						Q	
34+29	38.3342	0.07						Q	
34+30	38.3331	0.07						Q	
34+31	38.3321	0.07						Q	
34+32	38.3311	0.07						Q	
34+33	38.3301	0.07						Q	
34+34	38.3291	0.07						Q	
34+35	38.3281	0.07						Q	
34+36	38.3270	0.07						Q	
34+37	38.3260	0.07						Q	
34+38	38.3250	0.07						Q	
34+39	38.3240	0.07						Q	

34+40	38.3230	0.07						Q	
34+41	38.3220	0.07						Q	
34+42	38.3210	0.07						Q	
34+43	38.3199	0.07						Q	
34+44	38.3189	0.07						Q	
34+45	38.3179	0.07						Q	
34+46	38.3169	0.07						Q	
34+47	38.3159	0.07						Q	
34+48	38.3149	0.07						Q	
34+49	38.3139	0.07						Q	
34+50	38.3128	0.07						Q	
34+51	38.3118	0.07						Q	
34+52	38.3108	0.07						Q	
34+53	38.3098	0.07						Q	
34+54	38.3088	0.07						Q	
34+55	38.3078	0.07						Q	
34+56	38.3067	0.07						Q	
34+57	38.3057	0.07						Q	
34+58	38.3047	0.07						Q	
34+59	38.3037	0.07						Q	
35+ 0	38.3027	0.07						Q	
35+ 1	38.3017	0.07						Q	
35+ 2	38.3007	0.07						Q	
35+ 3	38.2996	0.07						Q	
35+ 4	38.2986	0.07						Q	
35+ 5	38.2976	0.07						Q	
35+ 6	38.2966	0.07						Q	
35+ 7	38.2956	0.07						Q	
35+ 8	38.2946	0.07						Q	
35+ 9	38.2936	0.07						Q	
35+10	38.2925	0.07						Q	
35+11	38.2915	0.07						Q	
35+12	38.2905	0.07						Q	
35+13	38.2895	0.07						Q	
35+14	38.2885	0.07						Q	
35+15	38.2875	0.07						Q	
35+16	38.2865	0.07						Q	
35+17	38.2854	0.07						Q	
35+18	38.2844	0.07						Q	
35+19	38.2834	0.07						Q	
35+20	38.2824	0.07						Q	
35+21	38.2814	0.07						Q	
35+22	38.2804	0.07						Q	
35+23	38.2794	0.07						Q	
35+24	38.2783	0.07						Q	
35+25	38.2773	0.07						Q	
35+26	38.2763	0.07						Q	
35+27	38.2753	0.07						Q	
35+28	38.2743	0.07						Q	
35+29	38.2733	0.07						Q	
35+30	38.2723	0.07						Q	
35+31	38.2712	0.07						Q	
35+32	38.2702	0.07						Q	
35+33	38.2692	0.07						Q	
35+34	38.2682	0.07						Q	
35+35	38.2672	0.07						Q	
35+36	38.2662	0.07						Q	
35+37	38.2652	0.07						Q	
35+38	38.2642	0.07						Q	
35+39	38.2631	0.07						Q	
35+40	38.2621	0.07						Q	
35+41	38.2611	0.07						Q	
35+42	38.2601	0.07						Q	
35+43	38.2591	0.07						Q	
35+44	38.2581	0.07						Q	
35+45	38.2571	0.07						Q	
35+46	38.2560	0.07						Q	
35+47	38.2550	0.07						Q	
35+48	38.2540	0.07						Q	
35+49	38.2530	0.07						Q	
35+50	38.2520	0.07						Q	

35+51	38.2510	0.07						Q	
35+52	38.2500	0.07						Q	
35+53	38.2490	0.07						Q	
35+54	38.2479	0.07						Q	
35+55	38.2469	0.07						Q	
35+56	38.2459	0.07						Q	
35+57	38.2449	0.07						Q	
35+58	38.2439	0.07						Q	
35+59	38.2429	0.07						Q	
36+ 0	38.2419	0.07						Q	
36+ 1	38.2408	0.07						Q	
36+ 2	38.2398	0.07						Q	
36+ 3	38.2388	0.07						Q	
36+ 4	38.2378	0.07						Q	
36+ 5	38.2368	0.07						Q	
36+ 6	38.2358	0.07						Q	
36+ 7	38.2348	0.07						Q	
36+ 8	38.2338	0.07						Q	
36+ 9	38.2327	0.07						Q	
36+10	38.2317	0.07						Q	
36+11	38.2307	0.07						Q	
36+12	38.2297	0.07						Q	
36+13	38.2287	0.07						Q	
36+14	38.2277	0.07						Q	
36+15	38.2267	0.07						Q	
36+16	38.2257	0.07						Q	
36+17	38.2246	0.07						Q	
36+18	38.2236	0.07						Q	
36+19	38.2226	0.07						Q	
36+20	38.2216	0.07						Q	
36+21	38.2206	0.07						Q	
36+22	38.2196	0.07						Q	
36+23	38.2186	0.07						Q	
36+24	38.2176	0.07						Q	
36+25	38.2165	0.07						Q	
36+26	38.2155	0.07						Q	
36+27	38.2145	0.07						Q	
36+28	38.2135	0.07						Q	
36+29	38.2125	0.07						Q	
36+30	38.2115	0.07						Q	
36+31	38.2105	0.07						Q	
36+32	38.2095	0.07						Q	
36+33	38.2084	0.07						Q	
36+34	38.2074	0.07						Q	
36+35	38.2064	0.07						Q	
36+36	38.2054	0.07						Q	
36+37	38.2044	0.07						Q	
36+38	38.2034	0.07						Q	
36+39	38.2024	0.07						Q	
36+40	38.2014	0.07						Q	
36+41	38.2004	0.07						Q	
36+42	38.1993	0.07						Q	
36+43	38.1983	0.07						Q	
36+44	38.1973	0.07						Q	
36+45	38.1963	0.07						Q	
36+46	38.1953	0.07						Q	
36+47	38.1943	0.07						Q	
36+48	38.1933	0.07						Q	
36+49	38.1923	0.07						Q	
36+50	38.1912	0.07						Q	
36+51	38.1902	0.07						Q	
36+52	38.1892	0.07						Q	
36+53	38.1882	0.07						Q	
36+54	38.1872	0.07						Q	
36+55	38.1862	0.07						Q	
36+56	38.1852	0.07						Q	
36+57	38.1842	0.07						Q	
36+58	38.1832	0.07						Q	
36+59	38.1821	0.07						Q	
37+ 0	38.1811	0.07						Q	
37+ 1	38.1801	0.07						Q	

37+ 2	38.1791	0.07						Q	
37+ 3	38.1781	0.07						Q	
37+ 4	38.1771	0.07						Q	
37+ 5	38.1761	0.07						Q	
37+ 6	38.1751	0.07						Q	
37+ 7	38.1741	0.07						Q	
37+ 8	38.1730	0.07						Q	
37+ 9	38.1720	0.07						Q	
37+10	38.1710	0.07						Q	
37+11	38.1700	0.07						Q	
37+12	38.1690	0.07						Q	
37+13	38.1680	0.07						Q	
37+14	38.1670	0.07						Q	
37+15	38.1660	0.07						Q	
37+16	38.1650	0.07						Q	
37+17	38.1639	0.07						Q	
37+18	38.1629	0.07						Q	
37+19	38.1619	0.07						Q	
37+20	38.1609	0.07						Q	
37+21	38.1599	0.07						Q	
37+22	38.1589	0.07						Q	
37+23	38.1579	0.07						Q	
37+24	38.1569	0.07						Q	
37+25	38.1559	0.07						Q	
37+26	38.1548	0.07						Q	
37+27	38.1538	0.07						Q	
37+28	38.1528	0.07						Q	
37+29	38.1518	0.07						Q	
37+30	38.1508	0.07						Q	
37+31	38.1498	0.07						Q	
37+32	38.1488	0.07						Q	
37+33	38.1478	0.07						Q	
37+34	38.1468	0.07						Q	
37+35	38.1457	0.07						Q	
37+36	38.1447	0.07						Q	
37+37	38.1437	0.07						Q	
37+38	38.1427	0.07						Q	
37+39	38.1417	0.07						Q	
37+40	38.1407	0.07						Q	
37+41	38.1397	0.07						Q	
37+42	38.1387	0.07						Q	
37+43	38.1377	0.07						Q	
37+44	38.1367	0.07						Q	
37+45	38.1356	0.07						Q	
37+46	38.1346	0.07						Q	
37+47	38.1336	0.07						Q	
37+48	38.1326	0.07						Q	
37+49	38.1316	0.07						Q	
37+50	38.1306	0.07						Q	
37+51	38.1296	0.07						Q	
37+52	38.1286	0.07						Q	
37+53	38.1276	0.07						Q	
37+54	38.1266	0.07						Q	
37+55	38.1255	0.07						Q	
37+56	38.1245	0.07						Q	
37+57	38.1235	0.07						Q	
37+58	38.1225	0.07						Q	
37+59	38.1215	0.07						Q	
38+ 0	38.1205	0.07						Q	
38+ 1	38.1195	0.07						Q	
38+ 2	38.1185	0.07						Q	
38+ 3	38.1175	0.07						Q	
38+ 4	38.1165	0.07						Q	
38+ 5	38.1154	0.07						Q	
38+ 6	38.1144	0.07						Q	
38+ 7	38.1134	0.07						Q	
38+ 8	38.1124	0.07						Q	
38+ 9	38.1114	0.07						Q	
38+10	38.1104	0.07						Q	
38+11	38.1094	0.07						Q	
38+12	38.1084	0.07						Q	

38+13	38.1074	0.07						Q	
38+14	38.1064	0.07						Q	
38+15	38.1054	0.07						Q	
38+16	38.1043	0.07						Q	
38+17	38.1033	0.07						Q	
38+18	38.1023	0.07						Q	
38+19	38.1013	0.07						Q	
38+20	38.1003	0.07						Q	
38+21	38.0993	0.07						Q	
38+22	38.0983	0.07						Q	
38+23	38.0973	0.07						Q	
38+24	38.0963	0.07						Q	
38+25	38.0953	0.07						Q	
38+26	38.0943	0.07						Q	
38+27	38.0932	0.07						Q	
38+28	38.0922	0.07						Q	
38+29	38.0912	0.07						Q	
38+30	38.0902	0.07						Q	
38+31	38.0892	0.07						Q	
38+32	38.0882	0.07						Q	
38+33	38.0872	0.07						Q	
38+34	38.0862	0.07						Q	
38+35	38.0852	0.07						Q	
38+36	38.0842	0.07						Q	
38+37	38.0832	0.07						Q	
38+38	38.0821	0.07						Q	
38+39	38.0811	0.07						Q	
38+40	38.0801	0.07						Q	
38+41	38.0791	0.07						Q	
38+42	38.0781	0.07						Q	
38+43	38.0771	0.07						Q	
38+44	38.0761	0.07						Q	
38+45	38.0751	0.07						Q	
38+46	38.0741	0.07						Q	
38+47	38.0731	0.07						Q	
38+48	38.0721	0.07						Q	
38+49	38.0711	0.07						Q	
38+50	38.0700	0.07						Q	
38+51	38.0690	0.07						Q	
38+52	38.0680	0.07						Q	
38+53	38.0670	0.07						Q	
38+54	38.0660	0.07						Q	
38+55	38.0650	0.07						Q	
38+56	38.0640	0.07						Q	
38+57	38.0630	0.07						Q	
38+58	38.0620	0.07						Q	
38+59	38.0610	0.07						Q	
39+ 0	38.0600	0.07						Q	
39+ 1	38.0590	0.07						Q	
39+ 2	38.0579	0.07						Q	
39+ 3	38.0569	0.07						Q	
39+ 4	38.0559	0.07						Q	
39+ 5	38.0549	0.07						Q	
39+ 6	38.0539	0.07						Q	
39+ 7	38.0529	0.07						Q	
39+ 8	38.0519	0.07						Q	
39+ 9	38.0509	0.07						Q	
39+10	38.0499	0.07						Q	
39+11	38.0489	0.07						Q	
39+12	38.0479	0.07						Q	
39+13	38.0469	0.07						Q	
39+14	38.0458	0.07						Q	
39+15	38.0448	0.07						Q	
39+16	38.0438	0.07						Q	
39+17	38.0428	0.07						Q	
39+18	38.0418	0.07						Q	
39+19	38.0408	0.07						Q	
39+20	38.0398	0.07						Q	
39+21	38.0388	0.07						Q	
39+22	38.0378	0.07						Q	
39+23	38.0368	0.07						Q	

39+24	38.0358	0.07						Q	
39+25	38.0348	0.07						Q	
39+26	38.0338	0.07						Q	
39+27	38.0327	0.07						Q	
39+28	38.0317	0.07						Q	
39+29	38.0307	0.07						Q	
39+30	38.0297	0.07						Q	
39+31	38.0287	0.07						Q	
39+32	38.0277	0.07						Q	
39+33	38.0267	0.07						Q	
39+34	38.0257	0.07						Q	
39+35	38.0247	0.07						Q	
39+36	38.0237	0.07						Q	
39+37	38.0227	0.07						Q	
39+38	38.0217	0.07						Q	
39+39	38.0207	0.07						Q	
39+40	38.0197	0.07						Q	
39+41	38.0186	0.07						Q	
39+42	38.0176	0.07						Q	
39+43	38.0166	0.07						Q	
39+44	38.0156	0.07						Q	
39+45	38.0146	0.07						Q	
39+46	38.0136	0.07						Q	
39+47	38.0126	0.07						Q	
39+48	38.0116	0.07						Q	
39+49	38.0106	0.07						Q	
39+50	38.0096	0.07						Q	
39+51	38.0086	0.07						Q	
39+52	38.0076	0.07						Q	
39+53	38.0066	0.07						Q	
39+54	38.0056	0.07						Q	
39+55	38.0046	0.07						Q	
39+56	38.0035	0.07						Q	
39+57	38.0025	0.07						Q	
39+58	38.0015	0.07						Q	
39+59	38.0005	0.07						Q	
40+ 0	37.9995	0.07						Q	
40+ 1	37.9985	0.07						Q	
40+ 2	37.9975	0.07						Q	
40+ 3	37.9965	0.07						Q	
40+ 4	37.9955	0.07						Q	
40+ 5	37.9945	0.07						Q	
40+ 6	37.9935	0.07						Q	
40+ 7	37.9925	0.07						Q	
40+ 8	37.9915	0.07						Q	
40+ 9	37.9905	0.07						Q	
40+10	37.9895	0.07						Q	
40+11	37.9884	0.07						Q	
40+12	37.9874	0.07						Q	
40+13	37.9864	0.07						Q	
40+14	37.9854	0.07						Q	
40+15	37.9844	0.07						Q	
40+16	37.9834	0.07						Q	
40+17	37.9824	0.07						Q	
40+18	37.9814	0.07						Q	
40+19	37.9804	0.07						Q	
40+20	37.9794	0.07						Q	
40+21	37.9784	0.07						Q	
40+22	37.9774	0.07						Q	
40+23	37.9764	0.07						Q	
40+24	37.9754	0.07						Q	
40+25	37.9744	0.07						Q	
40+26	37.9734	0.07						Q	
40+27	37.9724	0.07						Q	
40+28	37.9713	0.07						Q	
40+29	37.9703	0.07						Q	
40+30	37.9693	0.07						Q	
40+31	37.9683	0.07						Q	
40+32	37.9673	0.07						Q	
40+33	37.9663	0.07						Q	
40+34	37.9653	0.07						Q	

40+35	37.9643	0.07						Q	
40+36	37.9633	0.07						Q	
40+37	37.9623	0.07						Q	
40+38	37.9613	0.07						Q	
40+39	37.9603	0.07						Q	
40+40	37.9593	0.07						Q	
40+41	37.9583	0.07						Q	
40+42	37.9573	0.07						Q	
40+43	37.9563	0.07						Q	
40+44	37.9553	0.07						Q	
40+45	37.9543	0.07						Q	
40+46	37.9532	0.07						Q	
40+47	37.9522	0.07						Q	
40+48	37.9512	0.07						Q	
40+49	37.9502	0.07						Q	
40+50	37.9492	0.07						Q	
40+51	37.9482	0.07						Q	
40+52	37.9472	0.07						Q	
40+53	37.9462	0.07						Q	
40+54	37.9452	0.07						Q	
40+55	37.9442	0.07						Q	
40+56	37.9432	0.07						Q	
40+57	37.9422	0.07						Q	
40+58	37.9412	0.07						Q	
40+59	37.9402	0.07						Q	
41+ 0	37.9392	0.07						Q	
41+ 1	37.9382	0.07						Q	
41+ 2	37.9372	0.07						Q	
41+ 3	37.9362	0.07						Q	
41+ 4	37.9352	0.07						Q	
41+ 5	37.9341	0.07						Q	
41+ 6	37.9331	0.07						Q	
41+ 7	37.9321	0.07						Q	
41+ 8	37.9311	0.07						Q	
41+ 9	37.9301	0.07						Q	
41+10	37.9291	0.07						Q	
41+11	37.9281	0.07						Q	
41+12	37.9271	0.07						Q	
41+13	37.9261	0.07						Q	
41+14	37.9251	0.07						Q	
41+15	37.9241	0.07						Q	
41+16	37.9231	0.07						Q	
41+17	37.9221	0.07						Q	
41+18	37.9211	0.07						Q	
41+19	37.9201	0.07						Q	
41+20	37.9191	0.07						Q	
41+21	37.9181	0.07						Q	
41+22	37.9171	0.07						Q	
41+23	37.9161	0.07						Q	
41+24	37.9151	0.07						Q	
41+25	37.9141	0.07						Q	
41+26	37.9131	0.07						Q	
41+27	37.9120	0.07						Q	
41+28	37.9110	0.07						Q	
41+29	37.9100	0.07						Q	
41+30	37.9090	0.07						Q	
41+31	37.9080	0.07						Q	
41+32	37.9070	0.07						Q	
41+33	37.9060	0.07						Q	
41+34	37.9050	0.07						Q	
41+35	37.9040	0.07						Q	
41+36	37.9030	0.07						Q	
41+37	37.9020	0.07						Q	
41+38	37.9010	0.07						Q	
41+39	37.9000	0.07						Q	
41+40	37.8990	0.07						Q	
41+41	37.8980	0.07						Q	
41+42	37.8970	0.07						Q	
41+43	37.8960	0.07						Q	
41+44	37.8950	0.07						Q	
41+45	37.8940	0.07						Q	

41+46	37.8930	0.07					Q	
41+47	37.8920	0.07					Q	
41+48	37.8910	0.07					Q	
41+49	37.8900	0.07					Q	
41+50	37.8890	0.07					Q	
41+51	37.8880	0.07					Q	
41+52	37.8870	0.07					Q	
41+53	37.8859	0.07					Q	
41+54	37.8849	0.07					Q	
41+55	37.8839	0.07					Q	
41+56	37.8829	0.07					Q	
41+57	37.8819	0.07					Q	
41+58	37.8809	0.07					Q	
41+59	37.8799	0.07					Q	
42+ 0	37.8789	0.07					Q	
42+ 1	37.8779	0.07					Q	
42+ 2	37.8769	0.07					Q	
42+ 3	37.8759	0.07					Q	
42+ 4	37.8749	0.07					Q	
42+ 5	37.8739	0.07					Q	
42+ 6	37.8729	0.07					Q	
42+ 7	37.8719	0.07					Q	
42+ 8	37.8709	0.07					Q	
42+ 9	37.8699	0.07					Q	
42+10	37.8689	0.07					Q	
42+11	37.8679	0.07					Q	
42+12	37.8669	0.07					Q	
42+13	37.8659	0.07					Q	
42+14	37.8649	0.07					Q	
42+15	37.8639	0.07					Q	
42+16	37.8629	0.07					Q	
42+17	37.8619	0.07					Q	
42+18	37.8609	0.07					Q	
42+19	37.8599	0.07					Q	
42+20	37.8589	0.07					Q	
42+21	37.8579	0.07					Q	
42+22	37.8569	0.07					Q	
42+23	37.8559	0.07					Q	
42+24	37.8549	0.07					Q	
42+25	37.8538	0.07					Q	
42+26	37.8528	0.07					Q	
42+27	37.8518	0.07					Q	
42+28	37.8508	0.07					Q	
42+29	37.8498	0.07					Q	
42+30	37.8488	0.07					Q	
42+31	37.8478	0.07					Q	
42+32	37.8468	0.07					Q	
42+33	37.8458	0.07					Q	
42+34	37.8448	0.07					Q	
42+35	37.8438	0.07					Q	
42+36	37.8428	0.07					Q	
42+37	37.8418	0.07					Q	
42+38	37.8408	0.07					Q	
42+39	37.8398	0.07					Q	
42+40	37.8388	0.07					Q	
42+41	37.8378	0.07					Q	
42+42	37.8368	0.07					Q	
42+43	37.8358	0.07					Q	
42+44	37.8348	0.07					Q	
42+45	37.8338	0.07					Q	
42+46	37.8328	0.07					Q	
42+47	37.8318	0.07					Q	
42+48	37.8308	0.07					Q	
42+49	37.8298	0.07					Q	
42+50	37.8288	0.07					Q	
42+51	37.8278	0.07					Q	
42+52	37.8268	0.07					Q	
42+53	37.8258	0.07					Q	
42+54	37.8248	0.07					Q	
42+55	37.8238	0.07					Q	
42+56	37.8228	0.07					Q	

42+57	37.8218	0.07						Q	
42+58	37.8208	0.07						Q	
42+59	37.8198	0.07						Q	
43+ 0	37.8188	0.07						Q	
43+ 1	37.8178	0.07						Q	
43+ 2	37.8168	0.07						Q	
43+ 3	37.8158	0.07						Q	
43+ 4	37.8148	0.07						Q	
43+ 5	37.8138	0.07						Q	
43+ 6	37.8128	0.07						Q	
43+ 7	37.8118	0.07						Q	
43+ 8	37.8108	0.07						Q	
43+ 9	37.8098	0.07						Q	
43+10	37.8088	0.07						Q	
43+11	37.8078	0.07						Q	
43+12	37.8068	0.07						Q	
43+13	37.8057	0.07						Q	
43+14	37.8047	0.07						Q	
43+15	37.8037	0.07						Q	
43+16	37.8027	0.07						Q	
43+17	37.8017	0.07						Q	
43+18	37.8007	0.07						Q	
43+19	37.7997	0.07						Q	
43+20	37.7987	0.07						Q	
43+21	37.7977	0.07						Q	
43+22	37.7967	0.07						Q	
43+23	37.7957	0.07						Q	
43+24	37.7947	0.07						Q	
43+25	37.7937	0.07						Q	
43+26	37.7927	0.07						Q	
43+27	37.7917	0.07						Q	
43+28	37.7907	0.07						Q	
43+29	37.7897	0.07						Q	
43+30	37.7887	0.07						Q	
43+31	37.7877	0.07						Q	
43+32	37.7867	0.07						Q	
43+33	37.7857	0.07						Q	
43+34	37.7847	0.07						Q	
43+35	37.7837	0.07						Q	
43+36	37.7827	0.07						Q	
43+37	37.7817	0.07						Q	
43+38	37.7807	0.07						Q	
43+39	37.7797	0.07						Q	
43+40	37.7787	0.07						Q	
43+41	37.7777	0.07						Q	
43+42	37.7767	0.07						Q	
43+43	37.7757	0.07						Q	
43+44	37.7747	0.07						Q	
43+45	37.7737	0.07						Q	
43+46	37.7727	0.07						Q	
43+47	37.7717	0.07						Q	
43+48	37.7707	0.07						Q	
43+49	37.7697	0.07						Q	
43+50	37.7687	0.07						Q	
43+51	37.7677	0.07						Q	
43+52	37.7667	0.07						Q	
43+53	37.7657	0.07						Q	
43+54	37.7647	0.07						Q	
43+55	37.7637	0.07						Q	
43+56	37.7627	0.07						Q	
43+57	37.7617	0.07						Q	
43+58	37.7607	0.07						Q	
43+59	37.7597	0.07						Q	
44+ 0	37.7587	0.07						Q	
44+ 1	37.7577	0.07						Q	
44+ 2	37.7567	0.07						Q	
44+ 3	37.7557	0.07						Q	
44+ 4	37.7547	0.07						Q	
44+ 5	37.7537	0.07						Q	
44+ 6	37.7527	0.07						Q	
44+ 7	37.7517	0.07						Q	

44+ 8	37.7507	0.07						Q	
44+ 9	37.7497	0.07						Q	
44+10	37.7487	0.07						Q	
44+11	37.7477	0.07						Q	
44+12	37.7467	0.07						Q	
44+13	37.7457	0.07						Q	
44+14	37.7447	0.07						Q	
44+15	37.7437	0.07						Q	
44+16	37.7427	0.07						Q	
44+17	37.7417	0.07						Q	
44+18	37.7407	0.07						Q	
44+19	37.7397	0.07						Q	
44+20	37.7387	0.07						Q	
44+21	37.7377	0.07						Q	
44+22	37.7367	0.07						Q	
44+23	37.7357	0.07						Q	
44+24	37.7347	0.07						Q	
44+25	37.7337	0.07						Q	
44+26	37.7327	0.07						Q	
44+27	37.7317	0.07						Q	
44+28	37.7307	0.07						Q	
44+29	37.7297	0.07						Q	
44+30	37.7287	0.07						Q	
44+31	37.7277	0.07						Q	
44+32	37.7267	0.07						Q	
44+33	37.7257	0.07						Q	
44+34	37.7247	0.07						Q	
44+35	37.7237	0.07						Q	
44+36	37.7227	0.07						Q	
44+37	37.7217	0.07						Q	
44+38	37.7207	0.07						Q	
44+39	37.7197	0.07						Q	
44+40	37.7187	0.07						Q	
44+41	37.7177	0.07						Q	
44+42	37.7167	0.07						Q	
44+43	37.7157	0.07						Q	
44+44	37.7147	0.07						Q	
44+45	37.7137	0.07						Q	
44+46	37.7127	0.07						Q	
44+47	37.7117	0.07						Q	
44+48	37.7107	0.07						Q	
44+49	37.7097	0.07						Q	
44+50	37.7087	0.07						Q	
44+51	37.7077	0.07						Q	
44+52	37.7067	0.07						Q	
44+53	37.7057	0.07						Q	
44+54	37.7047	0.07						Q	
44+55	37.7037	0.07						Q	
44+56	37.7027	0.07						Q	
44+57	37.7017	0.07						Q	
44+58	37.7007	0.07						Q	
44+59	37.6997	0.07						Q	
45+ 0	37.6987	0.07						Q	
45+ 1	37.6977	0.07						Q	
45+ 2	37.6968	0.07						Q	
45+ 3	37.6958	0.07						Q	
45+ 4	37.6948	0.07						Q	
45+ 5	37.6938	0.07						Q	
45+ 6	37.6928	0.07						Q	
45+ 7	37.6918	0.07						Q	
45+ 8	37.6908	0.07						Q	
45+ 9	37.6898	0.07						Q	
45+10	37.6888	0.07						Q	
45+11	37.6878	0.07						Q	
45+12	37.6868	0.07						Q	
45+13	37.6858	0.07						Q	
45+14	37.6848	0.07						Q	
45+15	37.6838	0.07						Q	
45+16	37.6828	0.07						Q	
45+17	37.6818	0.07						Q	
45+18	37.6808	0.07						Q	

45+19	37.6798	0.07						Q	
45+20	37.6788	0.07						Q	
45+21	37.6778	0.07						Q	
45+22	37.6768	0.07						Q	
45+23	37.6758	0.07						Q	
45+24	37.6748	0.07						Q	
45+25	37.6738	0.07						Q	
45+26	37.6728	0.07						Q	
45+27	37.6718	0.07						Q	
45+28	37.6708	0.07						Q	
45+29	37.6698	0.07						Q	
45+30	37.6688	0.07						Q	
45+31	37.6678	0.07						Q	
45+32	37.6668	0.07						Q	
45+33	37.6658	0.07						Q	
45+34	37.6648	0.07						Q	
45+35	37.6638	0.07						Q	
45+36	37.6628	0.07						Q	
45+37	37.6618	0.07						Q	
45+38	37.6608	0.07						Q	
45+39	37.6598	0.07						Q	
45+40	37.6588	0.07						Q	
45+41	37.6578	0.07						Q	
45+42	37.6568	0.07						Q	
45+43	37.6558	0.07						Q	
45+44	37.6548	0.07						Q	
45+45	37.6538	0.07						Q	
45+46	37.6528	0.07						Q	
45+47	37.6518	0.07						Q	
45+48	37.6508	0.07						Q	
45+49	37.6498	0.07						Q	
45+50	37.6489	0.07						Q	
45+51	37.6479	0.07						Q	
45+52	37.6469	0.07						Q	
45+53	37.6459	0.07						Q	
45+54	37.6449	0.07						Q	
45+55	37.6439	0.07						Q	
45+56	37.6429	0.07						Q	
45+57	37.6419	0.07						Q	
45+58	37.6409	0.07						Q	
45+59	37.6399	0.07						Q	
46+ 0	37.6389	0.07						Q	
46+ 1	37.6379	0.07						Q	
46+ 2	37.6369	0.07						Q	
46+ 3	37.6359	0.07						Q	
46+ 4	37.6349	0.07						Q	
46+ 5	37.6339	0.07						Q	
46+ 6	37.6329	0.07						Q	
46+ 7	37.6319	0.07						Q	
46+ 8	37.6309	0.07						Q	
46+ 9	37.6299	0.07						Q	
46+10	37.6289	0.07						Q	
46+11	37.6279	0.07						Q	
46+12	37.6269	0.07						Q	
46+13	37.6259	0.07						Q	
46+14	37.6249	0.07						Q	
46+15	37.6239	0.07						Q	
46+16	37.6229	0.07						Q	
46+17	37.6219	0.07						Q	
46+18	37.6209	0.07						Q	
46+19	37.6199	0.07						Q	
46+20	37.6189	0.07						Q	
46+21	37.6179	0.07						Q	
46+22	37.6170	0.07						Q	
46+23	37.6160	0.07						Q	
46+24	37.6150	0.07						Q	
46+25	37.6140	0.07						Q	
46+26	37.6130	0.07						Q	
46+27	37.6120	0.07						Q	
46+28	37.6110	0.07						Q	
46+29	37.6100	0.07						Q	

46+30	37.6090	0.07					Q	
46+31	37.6080	0.07					Q	
46+32	37.6070	0.07					Q	
46+33	37.6060	0.07					Q	
46+34	37.6050	0.07					Q	
46+35	37.6040	0.07					Q	
46+36	37.6030	0.07					Q	
46+37	37.6020	0.07					Q	
46+38	37.6010	0.07					Q	
46+39	37.6000	0.07					Q	
46+40	37.5990	0.07					Q	
46+41	37.5980	0.07					Q	
46+42	37.5970	0.07					Q	
46+43	37.5960	0.07					Q	
46+44	37.5950	0.07					Q	
46+45	37.5940	0.07					Q	
46+46	37.5930	0.07					Q	
46+47	37.5921	0.07					Q	
46+48	37.5911	0.07					Q	
46+49	37.5901	0.07					Q	
46+50	37.5891	0.07					Q	
46+51	37.5881	0.07					Q	
46+52	37.5871	0.07					Q	
46+53	37.5861	0.07					Q	
46+54	37.5851	0.07					Q	
46+55	37.5841	0.07					Q	
46+56	37.5831	0.07					Q	
46+57	37.5821	0.07					Q	
46+58	37.5811	0.07					Q	
46+59	37.5801	0.07					Q	
47+ 0	37.5791	0.07					Q	
47+ 1	37.5781	0.07					Q	
47+ 2	37.5771	0.07					Q	
47+ 3	37.5761	0.07					Q	
47+ 4	37.5751	0.07					Q	
47+ 5	37.5741	0.07					Q	
47+ 6	37.5731	0.07					Q	
47+ 7	37.5721	0.07					Q	
47+ 8	37.5711	0.07					Q	
47+ 9	37.5702	0.07					Q	
47+10	37.5692	0.07					Q	
47+11	37.5682	0.07					Q	
47+12	37.5672	0.07					Q	
47+13	37.5662	0.07					Q	
47+14	37.5652	0.07					Q	
47+15	37.5642	0.07					Q	
47+16	37.5632	0.07					Q	
47+17	37.5622	0.07					Q	
47+18	37.5612	0.07					Q	
47+19	37.5602	0.07					Q	
47+20	37.5592	0.07					Q	
47+21	37.5582	0.07					Q	
47+22	37.5572	0.07					Q	
47+23	37.5562	0.07					Q	
47+24	37.5552	0.07					Q	
47+25	37.5542	0.07					Q	
47+26	37.5532	0.07					Q	
47+27	37.5522	0.07					Q	
47+28	37.5512	0.07					Q	
47+29	37.5503	0.07					Q	
47+30	37.5493	0.07					Q	
47+31	37.5483	0.07					Q	
47+32	37.5473	0.07					Q	
47+33	37.5463	0.07					Q	
47+34	37.5453	0.07					Q	
47+35	37.5443	0.07					Q	
47+36	37.5433	0.07					Q	
47+37	37.5423	0.07					Q	
47+38	37.5413	0.07					Q	
47+39	37.5403	0.07					Q	
47+40	37.5393	0.07					Q	

47+41	37.5383	0.07					Q	
47+42	37.5373	0.07					Q	
47+43	37.5363	0.07					Q	
47+44	37.5353	0.07					Q	
47+45	37.5343	0.07					Q	
47+46	37.5333	0.07					Q	
47+47	37.5324	0.07					Q	
47+48	37.5314	0.07					Q	
47+49	37.5304	0.07					Q	
47+50	37.5294	0.07					Q	
47+51	37.5284	0.07					Q	
47+52	37.5274	0.07					Q	
47+53	37.5264	0.07					Q	
47+54	37.5254	0.07					Q	
47+55	37.5244	0.07					Q	
47+56	37.5234	0.07					Q	
47+57	37.5224	0.07					Q	
47+58	37.5214	0.07					Q	
47+59	37.5204	0.07					Q	
48+ 0	37.5194	0.07					Q	
48+ 1	37.5184	0.07					Q	
48+ 2	37.5174	0.07					Q	
48+ 3	37.5164	0.07					Q	
48+ 4	37.5155	0.07					Q	
48+ 5	37.5145	0.07					Q	
48+ 6	37.5135	0.07					Q	
48+ 7	37.5125	0.07					Q	
48+ 8	37.5115	0.07					Q	
48+ 9	37.5105	0.07					Q	
48+10	37.5095	0.07					Q	
48+11	37.5085	0.07					Q	
48+12	37.5075	0.07					Q	
48+13	37.5065	0.07					Q	
48+14	37.5055	0.07					Q	
48+15	37.5045	0.07					Q	
48+16	37.5035	0.07					Q	
48+17	37.5025	0.07					Q	
48+18	37.5015	0.07					Q	
48+19	37.5006	0.07					Q	
48+20	37.4996	0.07					Q	
48+21	37.4986	0.07					Q	
48+22	37.4976	0.07					Q	
48+23	37.4966	0.07					Q	
48+24	37.4956	0.07					Q	
48+25	37.4946	0.07					Q	
48+26	37.4936	0.07					Q	
48+27	37.4926	0.07					Q	
48+28	37.4916	0.07					Q	
48+29	37.4906	0.07					Q	
48+30	37.4896	0.07					Q	
48+31	37.4886	0.07					Q	
48+32	37.4876	0.07					Q	
48+33	37.4866	0.07					Q	
48+34	37.4857	0.07					Q	
48+35	37.4847	0.07					Q	
48+36	37.4837	0.07					Q	
48+37	37.4827	0.07					Q	
48+38	37.4817	0.07					Q	
48+39	37.4807	0.07					Q	
48+40	37.4797	0.07					Q	
48+41	37.4787	0.07					Q	
48+42	37.4777	0.07					Q	
48+43	37.4767	0.07					Q	
48+44	37.4757	0.07					Q	
48+45	37.4747	0.07					Q	
48+46	37.4737	0.07					Q	
48+47	37.4727	0.07					Q	
48+48	37.4718	0.07					Q	
48+49	37.4708	0.07					Q	
48+50	37.4698	0.07					Q	
48+51	37.4688	0.07					Q	

48+52	37.4678	0.07						Q	
48+53	37.4668	0.07						Q	
48+54	37.4658	0.07						Q	
48+55	37.4648	0.07						Q	
48+56	37.4638	0.07						Q	
48+57	37.4628	0.07						Q	
48+58	37.4618	0.07						Q	
48+59	37.4608	0.07						Q	
49+ 0	37.4598	0.07						Q	
49+ 1	37.4589	0.07						Q	
49+ 2	37.4579	0.07						Q	
49+ 3	37.4569	0.07						Q	
49+ 4	37.4559	0.07						Q	
49+ 5	37.4549	0.07						Q	
49+ 6	37.4539	0.07						Q	
49+ 7	37.4529	0.07						Q	
49+ 8	37.4519	0.07						Q	
49+ 9	37.4509	0.07						Q	
49+10	37.4499	0.07						Q	
49+11	37.4489	0.07						Q	
49+12	37.4479	0.07						Q	
49+13	37.4469	0.07						Q	
49+14	37.4460	0.07						Q	
49+15	37.4450	0.07						Q	
49+16	37.4440	0.07						Q	
49+17	37.4430	0.07						Q	
49+18	37.4420	0.07						Q	
49+19	37.4410	0.07						Q	
49+20	37.4400	0.07						Q	
49+21	37.4390	0.07						Q	
49+22	37.4380	0.07						Q	
49+23	37.4370	0.07						Q	
49+24	37.4360	0.07						Q	
49+25	37.4350	0.07						Q	
49+26	37.4341	0.07						Q	
49+27	37.4331	0.07						Q	
49+28	37.4321	0.07						Q	
49+29	37.4311	0.07						Q	
49+30	37.4301	0.07						Q	
49+31	37.4291	0.07						Q	
49+32	37.4281	0.07						Q	
49+33	37.4271	0.07						Q	
49+34	37.4261	0.07						Q	
49+35	37.4251	0.07						Q	
49+36	37.4241	0.07						Q	
49+37	37.4232	0.07						Q	
49+38	37.4222	0.07						Q	
49+39	37.4212	0.07						Q	
49+40	37.4202	0.07						Q	
49+41	37.4192	0.07						Q	
49+42	37.4182	0.07						Q	
49+43	37.4172	0.07						Q	
49+44	37.4162	0.07						Q	
49+45	37.4152	0.07						Q	
49+46	37.4142	0.07						Q	
49+47	37.4132	0.07						Q	
49+48	37.4122	0.07						Q	
49+49	37.4113	0.07						Q	
49+50	37.4103	0.07						Q	
49+51	37.4093	0.07						Q	
49+52	37.4083	0.07						Q	
49+53	37.4073	0.07						Q	
49+54	37.4063	0.07						Q	
49+55	37.4053	0.07						Q	
49+56	37.4043	0.07						Q	
49+57	37.4033	0.07						Q	
49+58	37.4023	0.07						Q	
49+59	37.4013	0.07						Q	
50+ 0	37.4004	0.07						Q	
50+ 1	37.3994	0.07						Q	
50+ 2	37.3984	0.07						Q	

50+ 3	37.3974	0.07						Q	
50+ 4	37.3964	0.07						Q	
50+ 5	37.3954	0.07						Q	
50+ 6	37.3944	0.07						Q	
50+ 7	37.3934	0.07						Q	
50+ 8	37.3924	0.07						Q	
50+ 9	37.3914	0.07						Q	
50+10	37.3905	0.07						Q	
50+11	37.3895	0.07						Q	
50+12	37.3885	0.07						Q	
50+13	37.3875	0.07						Q	
50+14	37.3865	0.07						Q	
50+15	37.3855	0.07						Q	
50+16	37.3845	0.07						Q	
50+17	37.3835	0.07						Q	
50+18	37.3825	0.07						Q	
50+19	37.3815	0.07						Q	
50+20	37.3806	0.07						Q	
50+21	37.3796	0.07						Q	
50+22	37.3786	0.07						Q	
50+23	37.3776	0.07						Q	
50+24	37.3766	0.07						Q	
50+25	37.3756	0.07						Q	
50+26	37.3746	0.07						Q	
50+27	37.3736	0.07						Q	
50+28	37.3726	0.07						Q	
50+29	37.3716	0.07						Q	
50+30	37.3706	0.07						Q	
50+31	37.3697	0.07						Q	
50+32	37.3687	0.07						Q	
50+33	37.3677	0.07						Q	
50+34	37.3667	0.07						Q	
50+35	37.3657	0.07						Q	
50+36	37.3647	0.07						Q	
50+37	37.3637	0.07						Q	
50+38	37.3627	0.07						Q	
50+39	37.3617	0.07						Q	
50+40	37.3608	0.07						Q	
50+41	37.3598	0.07						Q	
50+42	37.3588	0.07						Q	
50+43	37.3578	0.07						Q	
50+44	37.3568	0.07						Q	
50+45	37.3558	0.07						Q	
50+46	37.3548	0.07						Q	
50+47	37.3538	0.07						Q	
50+48	37.3528	0.07						Q	
50+49	37.3518	0.07						Q	
50+50	37.3509	0.07						Q	
50+51	37.3499	0.07						Q	
50+52	37.3489	0.07						Q	
50+53	37.3479	0.07						Q	
50+54	37.3469	0.07						Q	
50+55	37.3459	0.07						Q	
50+56	37.3449	0.07						Q	
50+57	37.3439	0.07						Q	
50+58	37.3429	0.07						Q	
50+59	37.3420	0.07						Q	
51+ 0	37.3410	0.07						Q	
51+ 1	37.3400	0.07						Q	
51+ 2	37.3390	0.07						Q	
51+ 3	37.3380	0.07						Q	
51+ 4	37.3370	0.07						Q	
51+ 5	37.3360	0.07						Q	
51+ 6	37.3350	0.07						Q	
51+ 7	37.3340	0.07						Q	
51+ 8	37.3331	0.07						Q	
51+ 9	37.3321	0.07						Q	
51+10	37.3311	0.07						Q	
51+11	37.3301	0.07						Q	
51+12	37.3291	0.07						Q	
51+13	37.3281	0.07						Q	

51+14	37.3271	0.07						Q	
51+15	37.3261	0.07						Q	
51+16	37.3251	0.07						Q	
51+17	37.3242	0.07						Q	
51+18	37.3232	0.07						Q	
51+19	37.3222	0.07						Q	
51+20	37.3212	0.07						Q	
51+21	37.3202	0.07						Q	
51+22	37.3192	0.07						Q	
51+23	37.3182	0.07						Q	
51+24	37.3172	0.07						Q	
51+25	37.3162	0.07						Q	
51+26	37.3153	0.07						Q	
51+27	37.3143	0.07						Q	
51+28	37.3133	0.07						Q	
51+29	37.3123	0.07						Q	
51+30	37.3113	0.07						Q	
51+31	37.3103	0.07						Q	
51+32	37.3093	0.07						Q	
51+33	37.3083	0.07						Q	
51+34	37.3074	0.07						Q	
51+35	37.3064	0.07						Q	
51+36	37.3054	0.07						Q	
51+37	37.3044	0.07						Q	
51+38	37.3034	0.07						Q	
51+39	37.3024	0.07						Q	
51+40	37.3014	0.07						Q	
51+41	37.3004	0.07						Q	
51+42	37.2994	0.07						Q	
51+43	37.2985	0.07						Q	
51+44	37.2975	0.07						Q	
51+45	37.2965	0.07						Q	
51+46	37.2955	0.07						Q	
51+47	37.2945	0.07						Q	
51+48	37.2935	0.07						Q	
51+49	37.2925	0.07						Q	
51+50	37.2915	0.07						Q	
51+51	37.2906	0.07						Q	
51+52	37.2896	0.07						Q	
51+53	37.2886	0.07						Q	
51+54	37.2876	0.07						Q	
51+55	37.2866	0.07						Q	
51+56	37.2856	0.07						Q	
51+57	37.2846	0.07						Q	
51+58	37.2836	0.07						Q	
51+59	37.2827	0.07						Q	
52+ 0	37.2817	0.07						Q	
52+ 1	37.2807	0.07						Q	
52+ 2	37.2797	0.07						Q	
52+ 3	37.2787	0.07						Q	
52+ 4	37.2777	0.07						Q	
52+ 5	37.2767	0.07						Q	
52+ 6	37.2757	0.07						Q	
52+ 7	37.2748	0.07						Q	
52+ 8	37.2738	0.07						Q	
52+ 9	37.2728	0.07						Q	
52+10	37.2718	0.07						Q	
52+11	37.2708	0.07						Q	
52+12	37.2698	0.07						Q	
52+13	37.2688	0.07						Q	
52+14	37.2678	0.07						Q	
52+15	37.2669	0.07						Q	
52+16	37.2659	0.07						Q	
52+17	37.2649	0.07						Q	
52+18	37.2639	0.07						Q	
52+19	37.2629	0.07						Q	
52+20	37.2619	0.07						Q	
52+21	37.2609	0.07						Q	
52+22	37.2599	0.07						Q	
52+23	37.2590	0.07						Q	
52+24	37.2580	0.07						Q	

52+25	37.2570	0.07					Q	
52+26	37.2560	0.07					Q	
52+27	37.2550	0.07					Q	
52+28	37.2540	0.07					Q	
52+29	37.2530	0.07					Q	
52+30	37.2521	0.07					Q	
52+31	37.2511	0.07					Q	
52+32	37.2501	0.07					Q	
52+33	37.2491	0.07					Q	
52+34	37.2481	0.07					Q	
52+35	37.2471	0.07					Q	
52+36	37.2461	0.07					Q	
52+37	37.2451	0.07					Q	
52+38	37.2442	0.07					Q	
52+39	37.2432	0.07					Q	
52+40	37.2422	0.07					Q	
52+41	37.2412	0.07					Q	
52+42	37.2402	0.07					Q	
52+43	37.2392	0.07					Q	
52+44	37.2382	0.07					Q	
52+45	37.2373	0.07					Q	
52+46	37.2363	0.07					Q	
52+47	37.2353	0.07					Q	
52+48	37.2343	0.07					Q	
52+49	37.2333	0.07					Q	
52+50	37.2323	0.07					Q	
52+51	37.2313	0.07					Q	
52+52	37.2303	0.07					Q	
52+53	37.2294	0.07					Q	
52+54	37.2284	0.07					Q	
52+55	37.2274	0.07					Q	
52+56	37.2264	0.07					Q	
52+57	37.2254	0.07					Q	
52+58	37.2244	0.07					Q	
52+59	37.2234	0.07					Q	
53+ 0	37.2225	0.07					Q	
53+ 1	37.2215	0.07					Q	
53+ 2	37.2205	0.07					Q	
53+ 3	37.2195	0.07					Q	
53+ 4	37.2185	0.07					Q	
53+ 5	37.2175	0.07					Q	
53+ 6	37.2165	0.07					Q	
53+ 7	37.2156	0.07					Q	
53+ 8	37.2146	0.07					Q	
53+ 9	37.2136	0.07					Q	
53+10	37.2126	0.07					Q	
53+11	37.2116	0.07					Q	
53+12	37.2106	0.07					Q	
53+13	37.2096	0.07					Q	
53+14	37.2087	0.07					Q	
53+15	37.2077	0.07					Q	
53+16	37.2067	0.07					Q	
53+17	37.2057	0.07					Q	
53+18	37.2047	0.07					Q	
53+19	37.2037	0.07					Q	
53+20	37.2027	0.07					Q	
53+21	37.2018	0.07					Q	
53+22	37.2008	0.07					Q	
53+23	37.1998	0.07					Q	
53+24	37.1988	0.07					Q	
53+25	37.1978	0.07					Q	
53+26	37.1968	0.07					Q	
53+27	37.1958	0.07					Q	
53+28	37.1949	0.07					Q	
53+29	37.1939	0.07					Q	
53+30	37.1929	0.07					Q	
53+31	37.1919	0.07					Q	
53+32	37.1909	0.07					Q	
53+33	37.1899	0.07					Q	
53+34	37.1890	0.07					Q	
53+35	37.1880	0.07					Q	

53+36	37.1870	0.07						Q	
53+37	37.1860	0.07						Q	
53+38	37.1850	0.07						Q	
53+39	37.1840	0.07						Q	
53+40	37.1830	0.07						Q	
53+41	37.1821	0.07						Q	
53+42	37.1811	0.07						Q	
53+43	37.1801	0.07						Q	
53+44	37.1791	0.07						Q	
53+45	37.1781	0.07						Q	
53+46	37.1771	0.07						Q	
53+47	37.1761	0.07						Q	
53+48	37.1752	0.07						Q	
53+49	37.1742	0.07						Q	
53+50	37.1732	0.07						Q	
53+51	37.1722	0.07						Q	
53+52	37.1712	0.07						Q	
53+53	37.1702	0.07						Q	
53+54	37.1693	0.07						Q	
53+55	37.1683	0.07						Q	
53+56	37.1673	0.07						Q	
53+57	37.1663	0.07						Q	
53+58	37.1653	0.07						Q	
53+59	37.1643	0.07						Q	
54+ 0	37.1633	0.07						Q	
54+ 1	37.1624	0.07						Q	
54+ 2	37.1614	0.07						Q	
54+ 3	37.1604	0.07						Q	
54+ 4	37.1594	0.07						Q	
54+ 5	37.1584	0.07						Q	
54+ 6	37.1574	0.07						Q	
54+ 7	37.1565	0.07						Q	
54+ 8	37.1555	0.07						Q	
54+ 9	37.1545	0.07						Q	
54+10	37.1535	0.07						Q	
54+11	37.1525	0.07						Q	
54+12	37.1515	0.07						Q	
54+13	37.1506	0.07						Q	
54+14	37.1496	0.07						Q	
54+15	37.1486	0.07						Q	
54+16	37.1476	0.07						Q	
54+17	37.1466	0.07						Q	
54+18	37.1456	0.07						Q	
54+19	37.1446	0.07						Q	
54+20	37.1437	0.07						Q	
54+21	37.1427	0.07						Q	
54+22	37.1417	0.07						Q	
54+23	37.1407	0.07						Q	
54+24	37.1397	0.07						Q	
54+25	37.1387	0.07						Q	
54+26	37.1378	0.07						Q	
54+27	37.1368	0.07						Q	
54+28	37.1358	0.07						Q	
54+29	37.1348	0.07						Q	
54+30	37.1338	0.07						Q	
54+31	37.1328	0.07						Q	
54+32	37.1319	0.07						Q	
54+33	37.1309	0.07						Q	
54+34	37.1299	0.07						Q	
54+35	37.1289	0.07						Q	
54+36	37.1279	0.07						Q	
54+37	37.1269	0.07						Q	
54+38	37.1260	0.07						Q	
54+39	37.1250	0.07						Q	
54+40	37.1240	0.07						Q	
54+41	37.1230	0.07						Q	
54+42	37.1220	0.07						Q	
54+43	37.1210	0.07						Q	
54+44	37.1201	0.07						Q	
54+45	37.1191	0.07						Q	
54+46	37.1181	0.07						Q	

54+47	37.1171	0.07						Q	
54+48	37.1161	0.07						Q	
54+49	37.1151	0.07						Q	
54+50	37.1142	0.07						Q	
54+51	37.1132	0.07						Q	
54+52	37.1122	0.07						Q	
54+53	37.1112	0.07						Q	
54+54	37.1102	0.07						Q	
54+55	37.1092	0.07						Q	
54+56	37.1083	0.07						Q	
54+57	37.1073	0.07						Q	
54+58	37.1063	0.07						Q	
54+59	37.1053	0.07						Q	
55+ 0	37.1043	0.07						Q	
55+ 1	37.1033	0.07						Q	
55+ 2	37.1024	0.07						Q	
55+ 3	37.1014	0.07						Q	
55+ 4	37.1004	0.07						Q	
55+ 5	37.0994	0.07						Q	
55+ 6	37.0984	0.07						Q	
55+ 7	37.0975	0.07						Q	
55+ 8	37.0965	0.07						Q	
55+ 9	37.0955	0.07						Q	
55+10	37.0945	0.07						Q	
55+11	37.0935	0.07						Q	
55+12	37.0925	0.07						Q	
55+13	37.0916	0.07						Q	
55+14	37.0906	0.07						Q	
55+15	37.0896	0.07						Q	
55+16	37.0886	0.07						Q	
55+17	37.0876	0.07						Q	
55+18	37.0866	0.07						Q	
55+19	37.0857	0.07						Q	
55+20	37.0847	0.07						Q	
55+21	37.0837	0.07						Q	
55+22	37.0827	0.07						Q	
55+23	37.0817	0.07						Q	
55+24	37.0808	0.07						Q	
55+25	37.0798	0.07						Q	
55+26	37.0788	0.07						Q	
55+27	37.0778	0.07						Q	
55+28	37.0768	0.07						Q	
55+29	37.0758	0.07						Q	
55+30	37.0749	0.07						Q	
55+31	37.0739	0.07						Q	
55+32	37.0729	0.07						Q	
55+33	37.0719	0.07						Q	
55+34	37.0709	0.07						Q	
55+35	37.0699	0.07						Q	
55+36	37.0690	0.07						Q	
55+37	37.0680	0.07						Q	
55+38	37.0670	0.07						Q	
55+39	37.0660	0.07						Q	
55+40	37.0650	0.07						Q	
55+41	37.0641	0.07						Q	
55+42	37.0631	0.07						Q	
55+43	37.0621	0.07						Q	
55+44	37.0611	0.07						Q	
55+45	37.0601	0.07						Q	
55+46	37.0591	0.07						Q	
55+47	37.0582	0.07						Q	
55+48	37.0572	0.07						Q	
55+49	37.0562	0.07						Q	
55+50	37.0552	0.07						Q	
55+51	37.0542	0.07						Q	
55+52	37.0533	0.07						Q	
55+53	37.0523	0.07						Q	
55+54	37.0513	0.07						Q	
55+55	37.0503	0.07						Q	
55+56	37.0493	0.07						Q	
55+57	37.0484	0.07						Q	

55+58	37.0474	0.07						Q	
55+59	37.0464	0.07						Q	
56+ 0	37.0454	0.07						Q	
56+ 1	37.0444	0.07						Q	
56+ 2	37.0434	0.07						Q	
56+ 3	37.0425	0.07						Q	
56+ 4	37.0415	0.07						Q	
56+ 5	37.0405	0.07						Q	
56+ 6	37.0395	0.07						Q	
56+ 7	37.0385	0.07						Q	
56+ 8	37.0376	0.07						Q	
56+ 9	37.0366	0.07						Q	
56+10	37.0356	0.07						Q	
56+11	37.0346	0.07						Q	
56+12	37.0336	0.07						Q	
56+13	37.0327	0.07						Q	
56+14	37.0317	0.07						Q	
56+15	37.0307	0.07						Q	
56+16	37.0297	0.07						Q	
56+17	37.0287	0.07						Q	
56+18	37.0277	0.07						Q	
56+19	37.0268	0.07						Q	
56+20	37.0258	0.07						Q	
56+21	37.0248	0.07						Q	
56+22	37.0238	0.07						Q	
56+23	37.0228	0.07						Q	
56+24	37.0219	0.07						Q	
56+25	37.0209	0.07						Q	
56+26	37.0199	0.07						Q	
56+27	37.0189	0.07						Q	
56+28	37.0179	0.07						Q	
56+29	37.0170	0.07						Q	
56+30	37.0160	0.07						Q	
56+31	37.0150	0.07						Q	
56+32	37.0140	0.07						Q	
56+33	37.0130	0.07						Q	
56+34	37.0121	0.07						Q	
56+35	37.0111	0.07						Q	
56+36	37.0101	0.07						Q	
56+37	37.0091	0.07						Q	
56+38	37.0081	0.07						Q	
56+39	37.0072	0.07						Q	
56+40	37.0062	0.07						Q	
56+41	37.0052	0.07						Q	
56+42	37.0042	0.07						Q	
56+43	37.0032	0.07						Q	
56+44	37.0023	0.07						Q	
56+45	37.0013	0.07						Q	
56+46	37.0003	0.07						Q	
56+47	36.9993	0.07						Q	
56+48	36.9983	0.07						Q	
56+49	36.9974	0.07						Q	
56+50	36.9964	0.07						Q	
56+51	36.9954	0.07						Q	
56+52	36.9944	0.07						Q	
56+53	36.9934	0.07						Q	
56+54	36.9925	0.07						Q	
56+55	36.9915	0.07						Q	
56+56	36.9905	0.07						Q	
56+57	36.9895	0.07						Q	
56+58	36.9885	0.07						Q	
56+59	36.9876	0.07						Q	
57+ 0	36.9866	0.07						Q	
57+ 1	36.9856	0.07						Q	
57+ 2	36.9846	0.07						Q	
57+ 3	36.9836	0.07						Q	
57+ 4	36.9827	0.07						Q	
57+ 5	36.9817	0.07						Q	
57+ 6	36.9807	0.07						Q	
57+ 7	36.9797	0.07						Q	
57+ 8	36.9787	0.07						Q	

57+ 9	36.9778	0.07						Q	
57+10	36.9768	0.07						Q	
57+11	36.9758	0.07						Q	
57+12	36.9748	0.07						Q	
57+13	36.9738	0.07						Q	
57+14	36.9729	0.07						Q	
57+15	36.9719	0.07						Q	
57+16	36.9709	0.07						Q	
57+17	36.9699	0.07						Q	
57+18	36.9689	0.07						Q	
57+19	36.9680	0.07						Q	
57+20	36.9670	0.07						Q	
57+21	36.9660	0.07						Q	
57+22	36.9650	0.07						Q	
57+23	36.9640	0.07						Q	
57+24	36.9631	0.07						Q	
57+25	36.9621	0.07						Q	
57+26	36.9611	0.07						Q	
57+27	36.9601	0.07						Q	
57+28	36.9592	0.07						Q	
57+29	36.9582	0.07						Q	
57+30	36.9572	0.07						Q	
57+31	36.9562	0.07						Q	
57+32	36.9552	0.07						Q	
57+33	36.9543	0.07						Q	
57+34	36.9533	0.07						Q	
57+35	36.9523	0.07						Q	
57+36	36.9513	0.07						Q	
57+37	36.9503	0.07						Q	
57+38	36.9494	0.07						Q	
57+39	36.9484	0.07						Q	
57+40	36.9474	0.07						Q	
57+41	36.9464	0.07						Q	
57+42	36.9455	0.07						Q	
57+43	36.9445	0.07						Q	
57+44	36.9435	0.07						Q	
57+45	36.9425	0.07						Q	
57+46	36.9415	0.07						Q	
57+47	36.9406	0.07						Q	
57+48	36.9396	0.07						Q	
57+49	36.9386	0.07						Q	
57+50	36.9376	0.07						Q	
57+51	36.9366	0.07						Q	
57+52	36.9357	0.07						Q	
57+53	36.9347	0.07						Q	
57+54	36.9337	0.07						Q	
57+55	36.9327	0.07						Q	
57+56	36.9318	0.07						Q	
57+57	36.9308	0.07						Q	
57+58	36.9298	0.07						Q	
57+59	36.9288	0.07						Q	
58+ 0	36.9278	0.07						Q	
58+ 1	36.9269	0.07						Q	
58+ 2	36.9259	0.07						Q	
58+ 3	36.9249	0.07						Q	
58+ 4	36.9239	0.07						Q	
58+ 5	36.9229	0.07						Q	
58+ 6	36.9220	0.07						Q	
58+ 7	36.9210	0.07						Q	
58+ 8	36.9200	0.07						Q	
58+ 9	36.9190	0.07						Q	
58+10	36.9181	0.07						Q	
58+11	36.9171	0.07						Q	
58+12	36.9161	0.07						Q	
58+13	36.9151	0.07						Q	
58+14	36.9141	0.07						Q	
58+15	36.9132	0.07						Q	
58+16	36.9122	0.07						Q	
58+17	36.9112	0.07						Q	
58+18	36.9102	0.07						Q	
58+19	36.9093	0.07						Q	

58+20	36.9083	0.07						Q	
58+21	36.9073	0.07						Q	
58+22	36.9063	0.07						Q	
58+23	36.9053	0.07						Q	
58+24	36.9044	0.07						Q	
58+25	36.9034	0.07						Q	
58+26	36.9024	0.07						Q	
58+27	36.9014	0.07						Q	
58+28	36.9005	0.07						Q	
58+29	36.8995	0.07						Q	
58+30	36.8985	0.07						Q	
58+31	36.8975	0.07						Q	
58+32	36.8966	0.07						Q	
58+33	36.8956	0.07						Q	
58+34	36.8946	0.07						Q	
58+35	36.8936	0.07						Q	
58+36	36.8926	0.07						Q	
58+37	36.8917	0.07						Q	
58+38	36.8907	0.07						Q	
58+39	36.8897	0.07						Q	
58+40	36.8887	0.07						Q	
58+41	36.8878	0.07						Q	
58+42	36.8868	0.07						Q	
58+43	36.8858	0.07						Q	
58+44	36.8848	0.07						Q	
58+45	36.8838	0.07						Q	
58+46	36.8829	0.07						Q	
58+47	36.8819	0.07						Q	
58+48	36.8809	0.07						Q	
58+49	36.8799	0.07						Q	
58+50	36.8790	0.07						Q	
58+51	36.8780	0.07						Q	
58+52	36.8770	0.07						Q	
58+53	36.8760	0.07						Q	
58+54	36.8751	0.07						Q	
58+55	36.8741	0.07						Q	
58+56	36.8731	0.07						Q	
58+57	36.8721	0.07						Q	
58+58	36.8711	0.07						Q	
58+59	36.8702	0.07						Q	
59+ 0	36.8692	0.07						Q	
59+ 1	36.8682	0.07						Q	
59+ 2	36.8672	0.07						Q	
59+ 3	36.8663	0.07						Q	
59+ 4	36.8653	0.07						Q	
59+ 5	36.8643	0.07						Q	
59+ 6	36.8633	0.07						Q	
59+ 7	36.8624	0.07						Q	
59+ 8	36.8614	0.07						Q	
59+ 9	36.8604	0.07						Q	
59+10	36.8594	0.07						Q	
59+11	36.8585	0.07						Q	
59+12	36.8575	0.07						Q	
59+13	36.8565	0.07						Q	
59+14	36.8555	0.07						Q	
59+15	36.8546	0.07						Q	
59+16	36.8536	0.07						Q	
59+17	36.8526	0.07						Q	
59+18	36.8516	0.07						Q	
59+19	36.8506	0.07						Q	
59+20	36.8497	0.07						Q	
59+21	36.8487	0.07						Q	
59+22	36.8477	0.07						Q	
59+23	36.8467	0.07						Q	
59+24	36.8458	0.07						Q	
59+25	36.8448	0.07						Q	
59+26	36.8438	0.07						Q	
59+27	36.8428	0.07						Q	
59+28	36.8419	0.07						Q	
59+29	36.8409	0.07						Q	
59+30	36.8399	0.07						Q	

59+31	36.8389	0.07					Q	
59+32	36.8380	0.07					Q	
59+33	36.8370	0.07					Q	
59+34	36.8360	0.07					Q	
59+35	36.8350	0.07					Q	
59+36	36.8341	0.07					Q	
59+37	36.8331	0.07					Q	
59+38	36.8321	0.07					Q	
59+39	36.8311	0.07					Q	
59+40	36.8302	0.07					Q	
59+41	36.8292	0.07					Q	
59+42	36.8282	0.07					Q	
59+43	36.8272	0.07					Q	
59+44	36.8263	0.07					Q	
59+45	36.8253	0.07					Q	
59+46	36.8243	0.07					Q	
59+47	36.8233	0.07					Q	
59+48	36.8223	0.07					Q	
59+49	36.8214	0.07					Q	
59+50	36.8204	0.07					Q	
59+51	36.8194	0.07					Q	
59+52	36.8184	0.07					Q	
59+53	36.8175	0.07					Q	
59+54	36.8165	0.07					Q	
59+55	36.8155	0.07					Q	
59+56	36.8145	0.07					Q	
59+57	36.8136	0.07					Q	
59+58	36.8126	0.07					Q	
59+59	36.8116	0.07					Q	
60+ 0	36.8106	0.07					Q	
60+ 1	36.8097	0.07					Q	
60+ 2	36.8087	0.07					Q	
60+ 3	36.8077	0.07					Q	
60+ 4	36.8067	0.07					Q	
60+ 5	36.8058	0.07					Q	
60+ 6	36.8048	0.07					Q	
60+ 7	36.8038	0.07					Q	
60+ 8	36.8028	0.07					Q	
60+ 9	36.8019	0.07					Q	
60+10	36.8009	0.07					Q	
60+11	36.7999	0.07					Q	
60+12	36.7989	0.07					Q	
60+13	36.7980	0.07					Q	
60+14	36.7970	0.07					Q	
60+15	36.7960	0.07					Q	
60+16	36.7950	0.07					Q	
60+17	36.7941	0.07					Q	
60+18	36.7931	0.07					Q	
60+19	36.7921	0.07					Q	
60+20	36.7911	0.07					Q	
60+21	36.7902	0.07					Q	
60+22	36.7892	0.07					Q	
60+23	36.7882	0.07					Q	
60+24	36.7873	0.07					Q	
60+25	36.7863	0.07					Q	
60+26	36.7853	0.07					Q	
60+27	36.7843	0.07					Q	
60+28	36.7834	0.07					Q	
60+29	36.7824	0.07					Q	
60+30	36.7814	0.07					Q	
60+31	36.7804	0.07					Q	
60+32	36.7795	0.07					Q	
60+33	36.7785	0.07					Q	
60+34	36.7775	0.07					Q	
60+35	36.7765	0.07					Q	
60+36	36.7756	0.07					Q	
60+37	36.7746	0.07					Q	
60+38	36.7736	0.07					Q	
60+39	36.7726	0.07					Q	
60+40	36.7717	0.07					Q	
60+41	36.7707	0.07					Q	

60+42	36.7697	0.07						Q	
60+43	36.7687	0.07						Q	
60+44	36.7678	0.07						Q	
60+45	36.7668	0.07						Q	
60+46	36.7658	0.07						Q	
60+47	36.7648	0.07						Q	
60+48	36.7639	0.07						Q	
60+49	36.7629	0.07						Q	
60+50	36.7619	0.07						Q	
60+51	36.7610	0.07						Q	
60+52	36.7600	0.07						Q	
60+53	36.7590	0.07						Q	
60+54	36.7580	0.07						Q	
60+55	36.7571	0.07						Q	
60+56	36.7561	0.07						Q	
60+57	36.7551	0.07						Q	
60+58	36.7541	0.07						Q	
60+59	36.7532	0.07						Q	
61+ 0	36.7522	0.07						Q	
61+ 1	36.7512	0.07						Q	
61+ 2	36.7502	0.07						Q	
61+ 3	36.7493	0.07						Q	
61+ 4	36.7483	0.07						Q	
61+ 5	36.7473	0.07						Q	
61+ 6	36.7463	0.07						Q	
61+ 7	36.7454	0.07						Q	
61+ 8	36.7444	0.07						Q	
61+ 9	36.7434	0.07						Q	
61+10	36.7425	0.07						Q	
61+11	36.7415	0.07						Q	
61+12	36.7405	0.07						Q	
61+13	36.7395	0.07						Q	
61+14	36.7386	0.07						Q	
61+15	36.7376	0.07						Q	
61+16	36.7366	0.07						Q	
61+17	36.7356	0.07						Q	
61+18	36.7347	0.07						Q	
61+19	36.7337	0.07						Q	
61+20	36.7327	0.07						Q	
61+21	36.7318	0.07						Q	
61+22	36.7308	0.07						Q	
61+23	36.7298	0.07						Q	
61+24	36.7288	0.07						Q	
61+25	36.7279	0.07						Q	
61+26	36.7269	0.07						Q	
61+27	36.7259	0.07						Q	
61+28	36.7249	0.07						Q	
61+29	36.7240	0.07						Q	
61+30	36.7230	0.07						Q	
61+31	36.7220	0.07						Q	
61+32	36.7210	0.07						Q	
61+33	36.7201	0.07						Q	
61+34	36.7191	0.07						Q	
61+35	36.7181	0.07						Q	
61+36	36.7172	0.07						Q	
61+37	36.7162	0.07						Q	
61+38	36.7152	0.07						Q	
61+39	36.7142	0.07						Q	
61+40	36.7133	0.07						Q	
61+41	36.7123	0.07						Q	
61+42	36.7113	0.07						Q	
61+43	36.7104	0.07						Q	
61+44	36.7094	0.07						Q	
61+45	36.7084	0.07						Q	
61+46	36.7074	0.07						Q	
61+47	36.7065	0.07						Q	
61+48	36.7055	0.07						Q	
61+49	36.7045	0.07						Q	
61+50	36.7035	0.07						Q	
61+51	36.7026	0.07						Q	
61+52	36.7016	0.07						Q	

61+53	36.7006	0.07						Q	
61+54	36.6997	0.07						Q	
61+55	36.6987	0.07						Q	
61+56	36.6977	0.07						Q	
61+57	36.6967	0.07						Q	
61+58	36.6958	0.07						Q	
61+59	36.6948	0.07						Q	
62+ 0	36.6938	0.07						Q	
62+ 1	36.6929	0.07						Q	
62+ 2	36.6919	0.07						Q	
62+ 3	36.6909	0.07						Q	
62+ 4	36.6899	0.07						Q	
62+ 5	36.6890	0.07						Q	
62+ 6	36.6880	0.07						Q	
62+ 7	36.6870	0.07						Q	
62+ 8	36.6860	0.07						Q	
62+ 9	36.6849	0.07						Q	
62+10	36.6837	0.07						Q	
62+11	36.6825	0.07						Q	
62+12	36.6812	0.07						Q	
62+13	36.6799	0.07						Q	
62+14	36.6786	0.07						Q	
62+15	36.6773	0.07						Q	
62+16	36.6760	0.07						Q	
62+17	36.6747	0.07						Q	
62+18	36.6733	0.07						Q	
62+19	36.6719	0.07						Q	
62+20	36.6706	0.07						Q	
62+21	36.6692	0.07						Q	
62+22	36.6679	0.07						Q	
62+23	36.6665	0.07						Q	
62+24	36.6651	0.07						Q	
62+25	36.6637	0.07						Q	
62+26	36.6624	0.07						Q	
62+27	36.6610	0.07						Q	
62+28	36.6596	0.07						Q	
62+29	36.6582	0.07						Q	
62+30	36.6569	0.07						Q	
62+31	36.6555	0.07						Q	
62+32	36.6541	0.07						Q	
62+33	36.6527	0.07						Q	
62+34	36.6514	0.07						Q	
62+35	36.6500	0.07						Q	
62+36	36.6486	0.07						Q	
62+37	36.6472	0.07						Q	
62+38	36.6459	0.07						Q	
62+39	36.6445	0.07						Q	
62+40	36.6431	0.07						Q	
62+41	36.6417	0.07						Q	
62+42	36.6403	0.07						Q	
62+43	36.6390	0.07						Q	
62+44	36.6376	0.07						Q	
62+45	36.6362	0.07						Q	
62+46	36.6348	0.07						Q	
62+47	36.6335	0.07						Q	
62+48	36.6321	0.07						Q	
62+49	36.6307	0.07						Q	
62+50	36.6293	0.07						Q	
62+51	36.6280	0.07						Q	
62+52	36.6266	0.07						Q	
62+53	36.6252	0.07						Q	
62+54	36.6238	0.07						Q	
62+55	36.6225	0.07						Q	
62+56	36.6211	0.07						Q	
62+57	36.6197	0.07						Q	
62+58	36.6183	0.07						Q	
62+59	36.6170	0.07						Q	
63+ 0	36.6156	0.07						Q	
63+ 1	36.6142	0.07						Q	
63+ 2	36.6128	0.07						Q	
63+ 3	36.6115	0.07						Q	

63+ 4	36.6101	0.07						Q	
63+ 5	36.6087	0.07						Q	
63+ 6	36.6073	0.07						Q	
63+ 7	36.6060	0.07						Q	
63+ 8	36.6046	0.07						Q	
63+ 9	36.6032	0.07						Q	
63+10	36.6018	0.07						Q	
63+11	36.6005	0.07						Q	
63+12	36.5991	0.07						Q	
63+13	36.5977	0.07						Q	
63+14	36.5963	0.07						Q	
63+15	36.5950	0.07						Q	
63+16	36.5936	0.07						Q	
63+17	36.5922	0.07						Q	
63+18	36.5908	0.07						Q	
63+19	36.5895	0.07						Q	
63+20	36.5881	0.07						Q	
63+21	36.5867	0.07						Q	
63+22	36.5853	0.07						Q	
63+23	36.5840	0.07						Q	
63+24	36.5826	0.07						Q	
63+25	36.5812	0.07						Q	
63+26	36.5798	0.07						Q	
63+27	36.5785	0.07						Q	
63+28	36.5771	0.07						Q	
63+29	36.5757	0.07						Q	
63+30	36.5743	0.07						Q	
63+31	36.5730	0.07						Q	
63+32	36.5716	0.07						Q	
63+33	36.5702	0.07						Q	
63+34	36.5688	0.07						Q	
63+35	36.5675	0.07						Q	
63+36	36.5661	0.07						Q	
63+37	36.5647	0.07						Q	
63+38	36.5634	0.07						Q	
63+39	36.5620	0.07						Q	
63+40	36.5606	0.07						Q	
63+41	36.5592	0.07						Q	
63+42	36.5579	0.07						Q	
63+43	36.5565	0.07						Q	
63+44	36.5551	0.07						Q	
63+45	36.5537	0.07						Q	
63+46	36.5524	0.07						Q	
63+47	36.5510	0.07						Q	
63+48	36.5496	0.07						Q	
63+49	36.5482	0.07						Q	
63+50	36.5469	0.07						Q	
63+51	36.5455	0.07						Q	
63+52	36.5441	0.07						Q	
63+53	36.5428	0.07						Q	
63+54	36.5414	0.07						Q	
63+55	36.5400	0.07						Q	
63+56	36.5386	0.07						Q	
63+57	36.5373	0.07						Q	
63+58	36.5359	0.07						Q	
63+59	36.5345	0.07						Q	
64+ 0	36.5331	0.07						Q	
64+ 1	36.5318	0.07						Q	
64+ 2	36.5304	0.07						Q	
64+ 3	36.5290	0.07						Q	
64+ 4	36.5277	0.07						Q	
64+ 5	36.5263	0.07						Q	
64+ 6	36.5249	0.07						Q	
64+ 7	36.5235	0.07						Q	
64+ 8	36.5222	0.07						Q	
64+ 9	36.5208	0.07						Q	
64+10	36.5194	0.07						Q	
64+11	36.5181	0.07						Q	
64+12	36.5167	0.07						Q	
64+13	36.5153	0.07						Q	
64+14	36.5139	0.07						Q	

64+15	36.5126	0.07						Q	
64+16	36.5112	0.07						Q	
64+17	36.5098	0.07						Q	
64+18	36.5085	0.07						Q	
64+19	36.5071	0.07						Q	
64+20	36.5057	0.07						Q	
64+21	36.5043	0.07						Q	
64+22	36.5030	0.07						Q	
64+23	36.5016	0.07						Q	
64+24	36.5002	0.07						Q	
64+25	36.4989	0.07						Q	
64+26	36.4975	0.07						Q	
64+27	36.4961	0.07						Q	
64+28	36.4947	0.07						Q	
64+29	36.4934	0.07						Q	
64+30	36.4920	0.07						Q	
64+31	36.4906	0.07						Q	
64+32	36.4893	0.07						Q	
64+33	36.4879	0.07						Q	
64+34	36.4865	0.07						Q	
64+35	36.4851	0.07						Q	
64+36	36.4838	0.07						Q	
64+37	36.4824	0.07						Q	
64+38	36.4810	0.07						Q	
64+39	36.4797	0.07						Q	
64+40	36.4783	0.07						Q	
64+41	36.4769	0.07						Q	
64+42	36.4755	0.07						Q	
64+43	36.4742	0.07						Q	
64+44	36.4728	0.07						Q	
64+45	36.4714	0.07						Q	
64+46	36.4701	0.07						Q	
64+47	36.4687	0.07						Q	
64+48	36.4673	0.07						Q	
64+49	36.4660	0.07						Q	
64+50	36.4646	0.07						Q	
64+51	36.4632	0.07						Q	
64+52	36.4619	0.07						Q	
64+53	36.4605	0.07						Q	
64+54	36.4591	0.07						Q	
64+55	36.4577	0.07						Q	
64+56	36.4564	0.07						Q	
64+57	36.4550	0.07						Q	
64+58	36.4536	0.07						Q	
64+59	36.4523	0.07						Q	
65+ 0	36.4509	0.07						Q	
65+ 1	36.4495	0.07						Q	
65+ 2	36.4482	0.07						Q	
65+ 3	36.4468	0.07						Q	
65+ 4	36.4454	0.07						Q	
65+ 5	36.4440	0.07						Q	
65+ 6	36.4427	0.07						Q	
65+ 7	36.4413	0.07						Q	
65+ 8	36.4399	0.07						Q	
65+ 9	36.4386	0.07						Q	
65+10	36.4372	0.07						Q	
65+11	36.4358	0.07						Q	
65+12	36.4345	0.07						Q	
65+13	36.4331	0.07						Q	
65+14	36.4317	0.07						Q	
65+15	36.4304	0.07						Q	
65+16	36.4290	0.07						Q	
65+17	36.4276	0.07						Q	
65+18	36.4263	0.07						Q	
65+19	36.4249	0.07						Q	
65+20	36.4235	0.07						Q	
65+21	36.4221	0.07						Q	
65+22	36.4208	0.07						Q	
65+23	36.4194	0.07						Q	
65+24	36.4180	0.07						Q	
65+25	36.4167	0.07						Q	

65+26	36.4153	0.07						Q	
65+27	36.4139	0.07						Q	
65+28	36.4126	0.07						Q	
65+29	36.4112	0.07						Q	
65+30	36.4098	0.07						Q	
65+31	36.4085	0.07						Q	
65+32	36.4071	0.07						Q	
65+33	36.4057	0.07						Q	
65+34	36.4044	0.07						Q	
65+35	36.4030	0.07						Q	
65+36	36.4016	0.07						Q	
65+37	36.4003	0.07						Q	
65+38	36.3989	0.07						Q	
65+39	36.3975	0.07						Q	
65+40	36.3962	0.07						Q	
65+41	36.3948	0.07						Q	
65+42	36.3934	0.07						Q	
65+43	36.3921	0.07						Q	
65+44	36.3907	0.07						Q	
65+45	36.3893	0.07						Q	
65+46	36.3880	0.07						Q	
65+47	36.3866	0.07						Q	
65+48	36.3852	0.07						Q	
65+49	36.3839	0.07						Q	
65+50	36.3825	0.07						Q	
65+51	36.3811	0.07						Q	
65+52	36.3798	0.07						Q	
65+53	36.3784	0.07						Q	
65+54	36.3770	0.07						Q	
65+55	36.3757	0.07						Q	
65+56	36.3743	0.07						Q	
65+57	36.3729	0.07						Q	
65+58	36.3716	0.07						Q	
65+59	36.3702	0.07						Q	
66+ 0	36.3688	0.07						Q	
66+ 1	36.3675	0.07						Q	
66+ 2	36.3661	0.07						Q	
66+ 3	36.3647	0.07						Q	
66+ 4	36.3634	0.07						Q	
66+ 5	36.3620	0.07						Q	
66+ 6	36.3606	0.07						Q	
66+ 7	36.3593	0.07						Q	
66+ 8	36.3579	0.07						Q	
66+ 9	36.3565	0.07						Q	
66+10	36.3552	0.07						Q	
66+11	36.3538	0.07						Q	
66+12	36.3524	0.07						Q	
66+13	36.3511	0.07						Q	
66+14	36.3497	0.07						Q	
66+15	36.3483	0.07						Q	
66+16	36.3470	0.07						Q	
66+17	36.3456	0.07						Q	
66+18	36.3442	0.07						Q	
66+19	36.3429	0.07						Q	
66+20	36.3415	0.07						Q	
66+21	36.3401	0.07						Q	
66+22	36.3388	0.07						Q	
66+23	36.3374	0.07						Q	
66+24	36.3361	0.07						Q	
66+25	36.3347	0.07						Q	
66+26	36.3333	0.07						Q	
66+27	36.3320	0.07						Q	
66+28	36.3306	0.07						Q	
66+29	36.3292	0.07						Q	
66+30	36.3279	0.07						Q	
66+31	36.3265	0.07						Q	
66+32	36.3251	0.07						Q	
66+33	36.3238	0.07						Q	
66+34	36.3224	0.07						Q	
66+35	36.3210	0.07						Q	
66+36	36.3197	0.07						Q	

66+37	36.3183	0.07					Q	
66+38	36.3169	0.07					Q	
66+39	36.3156	0.07					Q	
66+40	36.3142	0.07					Q	
66+41	36.3129	0.07					Q	
66+42	36.3115	0.07					Q	
66+43	36.3101	0.07					Q	
66+44	36.3088	0.07					Q	
66+45	36.3074	0.07					Q	
66+46	36.3060	0.07					Q	
66+47	36.3047	0.07					Q	
66+48	36.3033	0.07					Q	
66+49	36.3019	0.07					Q	
66+50	36.3006	0.07					Q	
66+51	36.2992	0.07					Q	
66+52	36.2979	0.07					Q	
66+53	36.2965	0.07					Q	
66+54	36.2951	0.07					Q	
66+55	36.2938	0.07					Q	
66+56	36.2924	0.07					Q	
66+57	36.2910	0.07					Q	
66+58	36.2897	0.07					Q	
66+59	36.2883	0.07					Q	
67+ 0	36.2869	0.07					Q	
67+ 1	36.2856	0.07					Q	
67+ 2	36.2842	0.07					Q	
67+ 3	36.2829	0.07					Q	
67+ 4	36.2815	0.07					Q	
67+ 5	36.2801	0.07					Q	
67+ 6	36.2788	0.07					Q	
67+ 7	36.2774	0.07					Q	
67+ 8	36.2760	0.07					Q	
67+ 9	36.2747	0.07					Q	
67+10	36.2733	0.07					Q	
67+11	36.2720	0.07					Q	
67+12	36.2706	0.07					Q	
67+13	36.2692	0.07					Q	
67+14	36.2679	0.07					Q	
67+15	36.2665	0.07					Q	
67+16	36.2651	0.07					Q	
67+17	36.2638	0.07					Q	
67+18	36.2624	0.07					Q	
67+19	36.2611	0.07					Q	
67+20	36.2597	0.07					Q	
67+21	36.2583	0.07					Q	
67+22	36.2570	0.07					Q	
67+23	36.2556	0.07					Q	
67+24	36.2542	0.07					Q	
67+25	36.2529	0.07					Q	
67+26	36.2515	0.07					Q	
67+27	36.2502	0.07					Q	
67+28	36.2488	0.07					Q	
67+29	36.2474	0.07					Q	
67+30	36.2461	0.07					Q	
67+31	36.2447	0.07					Q	
67+32	36.2434	0.07					Q	
67+33	36.2420	0.07					Q	
67+34	36.2406	0.07					Q	
67+35	36.2393	0.07					Q	
67+36	36.2379	0.07					Q	
67+37	36.2365	0.07					Q	
67+38	36.2352	0.07					Q	
67+39	36.2338	0.07					Q	
67+40	36.2325	0.07					Q	
67+41	36.2311	0.07					Q	
67+42	36.2297	0.07					Q	
67+43	36.2284	0.07					Q	
67+44	36.2270	0.07					Q	
67+45	36.2257	0.07					Q	
67+46	36.2243	0.07					Q	
67+47	36.2229	0.07					Q	

67+48	36.2216	0.07						Q	
67+49	36.2202	0.07						Q	
67+50	36.2189	0.07						Q	
67+51	36.2175	0.07						Q	
67+52	36.2161	0.07						Q	
67+53	36.2148	0.07						Q	
67+54	36.2134	0.07						Q	
67+55	36.2121	0.07						Q	
67+56	36.2107	0.07						Q	
67+57	36.2093	0.07						Q	
67+58	36.2080	0.07						Q	
67+59	36.2066	0.07						Q	
68+ 0	36.2053	0.07						Q	
68+ 1	36.2039	0.07						Q	
68+ 2	36.2025	0.07						Q	
68+ 3	36.2012	0.07						Q	
68+ 4	36.1998	0.07						Q	
68+ 5	36.1985	0.07						Q	
68+ 6	36.1971	0.07						Q	
68+ 7	36.1957	0.07						Q	
68+ 8	36.1944	0.07						Q	
68+ 9	36.1930	0.07						Q	
68+10	36.1917	0.07						Q	
68+11	36.1903	0.07						Q	
68+12	36.1889	0.07						Q	
68+13	36.1876	0.07						Q	
68+14	36.1862	0.07						Q	
68+15	36.1849	0.07						Q	
68+16	36.1835	0.07						Q	
68+17	36.1821	0.07						Q	
68+18	36.1808	0.07						Q	
68+19	36.1794	0.07						Q	
68+20	36.1781	0.07						Q	
68+21	36.1767	0.07						Q	
68+22	36.1753	0.07						Q	
68+23	36.1740	0.07						Q	
68+24	36.1726	0.07						Q	
68+25	36.1713	0.07						Q	
68+26	36.1699	0.07						Q	
68+27	36.1685	0.07						Q	
68+28	36.1672	0.07						Q	
68+29	36.1658	0.07						Q	
68+30	36.1645	0.07						Q	
68+31	36.1631	0.07						Q	
68+32	36.1618	0.07						Q	
68+33	36.1604	0.07						Q	
68+34	36.1590	0.07						Q	
68+35	36.1577	0.07						Q	
68+36	36.1563	0.07						Q	
68+37	36.1550	0.07						Q	
68+38	36.1536	0.07						Q	
68+39	36.1522	0.07						Q	
68+40	36.1509	0.07						Q	
68+41	36.1495	0.07						Q	
68+42	36.1482	0.07						Q	
68+43	36.1468	0.07						Q	
68+44	36.1455	0.07						Q	
68+45	36.1441	0.07						Q	
68+46	36.1427	0.07						Q	
68+47	36.1414	0.07						Q	
68+48	36.1400	0.07						Q	
68+49	36.1387	0.07						Q	
68+50	36.1373	0.07						Q	
68+51	36.1360	0.07						Q	
68+52	36.1346	0.07						Q	
68+53	36.1332	0.07						Q	
68+54	36.1319	0.07						Q	
68+55	36.1305	0.07						Q	
68+56	36.1292	0.07						Q	
68+57	36.1278	0.07						Q	
68+58	36.1265	0.07						Q	

68+59	36.1251	0.07						Q	
69+ 0	36.1237	0.07						Q	
69+ 1	36.1224	0.07						Q	
69+ 2	36.1210	0.07						Q	
69+ 3	36.1197	0.07						Q	
69+ 4	36.1183	0.07						Q	
69+ 5	36.1170	0.07						Q	
69+ 6	36.1156	0.07						Q	
69+ 7	36.1142	0.07						Q	
69+ 8	36.1129	0.07						Q	
69+ 9	36.1115	0.07						Q	
69+10	36.1102	0.07						Q	
69+11	36.1088	0.07						Q	
69+12	36.1075	0.07						Q	
69+13	36.1061	0.07						Q	
69+14	36.1047	0.07						Q	
69+15	36.1034	0.07						Q	
69+16	36.1020	0.07						Q	
69+17	36.1007	0.07						Q	
69+18	36.0993	0.07						Q	
69+19	36.0980	0.07						Q	
69+20	36.0966	0.07						Q	
69+21	36.0953	0.07						Q	
69+22	36.0939	0.07						Q	
69+23	36.0925	0.07						Q	
69+24	36.0912	0.07						Q	
69+25	36.0898	0.07						Q	
69+26	36.0885	0.07						Q	
69+27	36.0871	0.07						Q	
69+28	36.0858	0.07						Q	
69+29	36.0844	0.07						Q	
69+30	36.0831	0.07						Q	
69+31	36.0817	0.07						Q	
69+32	36.0803	0.07						Q	
69+33	36.0790	0.07						Q	
69+34	36.0776	0.07						Q	
69+35	36.0763	0.07						Q	
69+36	36.0749	0.07						Q	
69+37	36.0736	0.07						Q	
69+38	36.0722	0.07						Q	
69+39	36.0709	0.07						Q	
69+40	36.0695	0.07						Q	
69+41	36.0681	0.07						Q	
69+42	36.0668	0.07						Q	
69+43	36.0654	0.07						Q	
69+44	36.0641	0.07						Q	
69+45	36.0627	0.07						Q	
69+46	36.0614	0.07						Q	
69+47	36.0600	0.07						Q	
69+48	36.0587	0.07						Q	
69+49	36.0573	0.07						Q	
69+50	36.0560	0.07						Q	
69+51	36.0546	0.07						Q	
69+52	36.0532	0.07						Q	
69+53	36.0519	0.07						Q	
69+54	36.0505	0.07						Q	
69+55	36.0492	0.07						Q	
69+56	36.0478	0.07						Q	
69+57	36.0465	0.07						Q	
69+58	36.0451	0.07						Q	
69+59	36.0438	0.07						Q	
70+ 0	36.0424	0.07						Q	
70+ 1	36.0411	0.07						Q	
70+ 2	36.0397	0.07						Q	
70+ 3	36.0383	0.07						Q	
70+ 4	36.0370	0.07						Q	
70+ 5	36.0356	0.07						Q	
70+ 6	36.0343	0.07						Q	
70+ 7	36.0329	0.07						Q	
70+ 8	36.0316	0.07						Q	
70+ 9	36.0302	0.07						Q	

70+10	36.0289	0.07						Q	
70+11	36.0275	0.07						Q	
70+12	36.0262	0.07						Q	
70+13	36.0248	0.07						Q	
70+14	36.0235	0.07						Q	
70+15	36.0221	0.07						Q	
70+16	36.0208	0.07						Q	
70+17	36.0194	0.07						Q	
70+18	36.0180	0.07						Q	
70+19	36.0167	0.07						Q	
70+20	36.0153	0.07						Q	
70+21	36.0140	0.07						Q	
70+22	36.0126	0.07						Q	
70+23	36.0113	0.07						Q	
70+24	36.0099	0.07						Q	
70+25	36.0086	0.07						Q	
70+26	36.0072	0.07						Q	
70+27	36.0059	0.07						Q	
70+28	36.0045	0.07						Q	
70+29	36.0032	0.07						Q	
70+30	36.0018	0.07						Q	
70+31	36.0005	0.07						Q	
70+32	35.9991	0.07						Q	
70+33	35.9978	0.07						Q	
70+34	35.9964	0.07						Q	
70+35	35.9951	0.07						Q	
70+36	35.9937	0.07						Q	
70+37	35.9923	0.07						Q	
70+38	35.9910	0.07						Q	
70+39	35.9896	0.07						Q	
70+40	35.9883	0.07						Q	
70+41	35.9869	0.07						Q	
70+42	35.9856	0.07						Q	
70+43	35.9842	0.07						Q	
70+44	35.9829	0.07						Q	
70+45	35.9815	0.07						Q	
70+46	35.9802	0.07						Q	
70+47	35.9788	0.07						Q	
70+48	35.9775	0.07						Q	
70+49	35.9761	0.07						Q	
70+50	35.9748	0.07						Q	
70+51	35.9734	0.07						Q	
70+52	35.9721	0.07						Q	
70+53	35.9707	0.07						Q	
70+54	35.9694	0.07						Q	
70+55	35.9680	0.07						Q	
70+56	35.9667	0.07						Q	
70+57	35.9653	0.07						Q	
70+58	35.9640	0.07						Q	
70+59	35.9626	0.07						Q	
71+ 0	35.9613	0.07						Q	
71+ 1	35.9599	0.07						Q	
71+ 2	35.9586	0.07						Q	
71+ 3	35.9572	0.07						Q	
71+ 4	35.9559	0.07						Q	
71+ 5	35.9545	0.07						Q	
71+ 6	35.9532	0.07						Q	
71+ 7	35.9518	0.07						Q	
71+ 8	35.9505	0.07						Q	
71+ 9	35.9491	0.07						Q	
71+10	35.9478	0.07						Q	
71+11	35.9464	0.07						Q	
71+12	35.9451	0.07						Q	
71+13	35.9437	0.07						Q	
71+14	35.9424	0.07						Q	
71+15	35.9410	0.07						Q	
71+16	35.9397	0.07						Q	
71+17	35.9383	0.07						Q	
71+18	35.9370	0.07						Q	
71+19	35.9356	0.07						Q	
71+20	35.9343	0.07						Q	

71+21	35.9329	0.07					Q	
71+22	35.9316	0.07					Q	
71+23	35.9302	0.07					Q	
71+24	35.9289	0.07					Q	
71+25	35.9275	0.07					Q	
71+26	35.9262	0.07					Q	
71+27	35.9248	0.07					Q	
71+28	35.9235	0.07					Q	
71+29	35.9221	0.07					Q	
71+30	35.9208	0.07					Q	
71+31	35.9194	0.07					Q	
71+32	35.9181	0.07					Q	
71+33	35.9167	0.07					Q	
71+34	35.9154	0.07					Q	
71+35	35.9140	0.07					Q	
71+36	35.9127	0.07					Q	
71+37	35.9113	0.07					Q	
71+38	35.9100	0.07					Q	
71+39	35.9086	0.07					Q	
71+40	35.9073	0.07					Q	
71+41	35.9059	0.07					Q	
71+42	35.9046	0.07					Q	
71+43	35.9032	0.07					Q	
71+44	35.9019	0.07					Q	
71+45	35.9005	0.07					Q	
71+46	35.8992	0.07					Q	
71+47	35.8978	0.07					Q	
71+48	35.8965	0.07					Q	
71+49	35.8951	0.07					Q	
71+50	35.8938	0.07					Q	
71+51	35.8924	0.07					Q	
71+52	35.8911	0.07					Q	
71+53	35.8897	0.07					Q	
71+54	35.8884	0.07					Q	
71+55	35.8870	0.07					Q	
71+56	35.8857	0.07					Q	
71+57	35.8843	0.07					Q	
71+58	35.8830	0.07					Q	
71+59	35.8816	0.07					Q	
72+ 0	35.8803	0.07					Q	
72+ 1	35.8790	0.07					Q	
72+ 2	35.8776	0.07					Q	
72+ 3	35.8763	0.07					Q	
72+ 4	35.8749	0.07					Q	
72+ 5	35.8736	0.07					Q	
72+ 6	35.8722	0.07					Q	
72+ 7	35.8709	0.07					Q	
72+ 8	35.8695	0.07					Q	
72+ 9	35.8682	0.07					Q	
72+10	35.8668	0.07					Q	
72+11	35.8655	0.07					Q	
72+12	35.8641	0.07					Q	
72+13	35.8628	0.07					Q	
72+14	35.8614	0.07					Q	
72+15	35.8601	0.07					Q	
72+16	35.8587	0.07					Q	
72+17	35.8574	0.07					Q	
72+18	35.8560	0.07					Q	
72+19	35.8547	0.07					Q	
72+20	35.8534	0.07					Q	
72+21	35.8520	0.07					Q	
72+22	35.8507	0.07					Q	
72+23	35.8493	0.07					Q	
72+24	35.8480	0.07					Q	
72+25	35.8466	0.07					Q	
72+26	35.8453	0.07					Q	
72+27	35.8439	0.07					Q	
72+28	35.8426	0.07					Q	
72+29	35.8412	0.07					Q	
72+30	35.8399	0.07					Q	
72+31	35.8385	0.07					Q	

72+32	35.8372	0.07						Q	
72+33	35.8358	0.07						Q	
72+34	35.8345	0.07						Q	
72+35	35.8332	0.07						Q	
72+36	35.8318	0.07						Q	
72+37	35.8305	0.07						Q	
72+38	35.8291	0.07						Q	
72+39	35.8278	0.07						Q	
72+40	35.8264	0.07						Q	
72+41	35.8251	0.07						Q	
72+42	35.8237	0.07						Q	
72+43	35.8224	0.07						Q	
72+44	35.8210	0.07						Q	
72+45	35.8197	0.07						Q	
72+46	35.8184	0.07						Q	
72+47	35.8170	0.07						Q	
72+48	35.8157	0.07						Q	
72+49	35.8143	0.07						Q	
72+50	35.8130	0.07						Q	
72+51	35.8116	0.07						Q	
72+52	35.8103	0.07						Q	
72+53	35.8089	0.07						Q	
72+54	35.8076	0.07						Q	
72+55	35.8062	0.07						Q	
72+56	35.8049	0.07						Q	
72+57	35.8036	0.07						Q	
72+58	35.8022	0.07						Q	
72+59	35.8009	0.07						Q	
73+ 0	35.7995	0.07						Q	
73+ 1	35.7982	0.07						Q	
73+ 2	35.7968	0.07						Q	
73+ 3	35.7955	0.07						Q	
73+ 4	35.7941	0.07						Q	
73+ 5	35.7928	0.07						Q	
73+ 6	35.7914	0.07						Q	
73+ 7	35.7901	0.07						Q	
73+ 8	35.7888	0.07						Q	
73+ 9	35.7874	0.07						Q	
73+10	35.7861	0.07						Q	
73+11	35.7847	0.07						Q	
73+12	35.7834	0.07						Q	
73+13	35.7820	0.07						Q	
73+14	35.7807	0.07						Q	
73+15	35.7794	0.07						Q	
73+16	35.7780	0.07						Q	
73+17	35.7767	0.07						Q	
73+18	35.7753	0.07						Q	
73+19	35.7740	0.07						Q	
73+20	35.7726	0.07						Q	
73+21	35.7713	0.07						Q	
73+22	35.7699	0.07						Q	
73+23	35.7686	0.07						Q	
73+24	35.7673	0.07						Q	
73+25	35.7659	0.07						Q	
73+26	35.7646	0.07						Q	
73+27	35.7632	0.07						Q	
73+28	35.7619	0.07						Q	
73+29	35.7605	0.07						Q	
73+30	35.7592	0.07						Q	
73+31	35.7579	0.07						Q	
73+32	35.7565	0.07						Q	
73+33	35.7552	0.07						Q	
73+34	35.7538	0.07						Q	
73+35	35.7525	0.07						Q	
73+36	35.7511	0.07						Q	
73+37	35.7498	0.07						Q	
73+38	35.7485	0.07						Q	
73+39	35.7471	0.07						Q	
73+40	35.7458	0.07						Q	
73+41	35.7444	0.07						Q	
73+42	35.7431	0.07						Q	

73+43	35.7417	0.07						Q	
73+44	35.7404	0.07						Q	
73+45	35.7391	0.07						Q	
73+46	35.7377	0.07						Q	
73+47	35.7364	0.07						Q	
73+48	35.7350	0.07						Q	
73+49	35.7337	0.07						Q	
73+50	35.7323	0.07						Q	
73+51	35.7310	0.07						Q	
73+52	35.7297	0.07						Q	
73+53	35.7283	0.07						Q	
73+54	35.7270	0.07						Q	
73+55	35.7256	0.07						Q	
73+56	35.7243	0.07						Q	
73+57	35.7229	0.07						Q	
73+58	35.7216	0.07						Q	
73+59	35.7203	0.07						Q	
74+ 0	35.7189	0.07						Q	
74+ 1	35.7176	0.07						Q	
74+ 2	35.7162	0.07						Q	
74+ 3	35.7149	0.07						Q	
74+ 4	35.7136	0.07						Q	
74+ 5	35.7122	0.07						Q	
74+ 6	35.7109	0.07						Q	
74+ 7	35.7095	0.07						Q	
74+ 8	35.7082	0.07						Q	
74+ 9	35.7068	0.07						Q	
74+10	35.7055	0.07						Q	
74+11	35.7042	0.07						Q	
74+12	35.7028	0.07						Q	
74+13	35.7015	0.07						Q	
74+14	35.7001	0.07						Q	
74+15	35.6988	0.07						Q	
74+16	35.6975	0.07						Q	
74+17	35.6961	0.07						Q	
74+18	35.6948	0.07						Q	
74+19	35.6934	0.07						Q	
74+20	35.6921	0.07						Q	
74+21	35.6908	0.07						Q	
74+22	35.6894	0.07						Q	
74+23	35.6881	0.07						Q	
74+24	35.6867	0.07						Q	
74+25	35.6854	0.07						Q	
74+26	35.6840	0.07						Q	
74+27	35.6827	0.07						Q	
74+28	35.6814	0.07						Q	
74+29	35.6800	0.07						Q	
74+30	35.6787	0.07						Q	
74+31	35.6773	0.07						Q	
74+32	35.6760	0.07						Q	
74+33	35.6747	0.07						Q	
74+34	35.6733	0.07						Q	
74+35	35.6720	0.07						Q	
74+36	35.6706	0.07						Q	
74+37	35.6693	0.07						Q	
74+38	35.6680	0.07						Q	
74+39	35.6666	0.07						Q	
74+40	35.6653	0.07						Q	
74+41	35.6639	0.07						Q	
74+42	35.6626	0.07						Q	
74+43	35.6613	0.07						Q	
74+44	35.6599	0.07						Q	
74+45	35.6586	0.07						Q	
74+46	35.6572	0.07						Q	
74+47	35.6559	0.07						Q	
74+48	35.6546	0.07						Q	
74+49	35.6532	0.07						Q	
74+50	35.6519	0.07						Q	
74+51	35.6506	0.07						Q	
74+52	35.6492	0.07						Q	
74+53	35.6479	0.07						Q	

74+54	35.6465	0.07						Q	
74+55	35.6452	0.07						Q	
74+56	35.6439	0.07						Q	
74+57	35.6425	0.07						Q	
74+58	35.6412	0.07						Q	
74+59	35.6398	0.07						Q	
75+ 0	35.6385	0.07						Q	
75+ 1	35.6372	0.07						Q	
75+ 2	35.6358	0.07						Q	
75+ 3	35.6345	0.07						Q	
75+ 4	35.6331	0.07						Q	
75+ 5	35.6318	0.07						Q	
75+ 6	35.6305	0.07						Q	
75+ 7	35.6291	0.07						Q	
75+ 8	35.6278	0.07						Q	
75+ 9	35.6265	0.07						Q	
75+10	35.6251	0.07						Q	
75+11	35.6238	0.07						Q	
75+12	35.6224	0.07						Q	
75+13	35.6211	0.07						Q	
75+14	35.6198	0.07						Q	
75+15	35.6184	0.07						Q	
75+16	35.6171	0.07						Q	
75+17	35.6157	0.07						Q	
75+18	35.6144	0.07						Q	
75+19	35.6131	0.07						Q	
75+20	35.6117	0.07						Q	
75+21	35.6104	0.07						Q	
75+22	35.6091	0.07						Q	
75+23	35.6077	0.07						Q	
75+24	35.6064	0.07						Q	
75+25	35.6050	0.07						Q	
75+26	35.6037	0.07						Q	
75+27	35.6024	0.07						Q	
75+28	35.6010	0.07						Q	
75+29	35.5997	0.07						Q	
75+30	35.5984	0.07						Q	
75+31	35.5970	0.07						Q	
75+32	35.5957	0.07						Q	
75+33	35.5943	0.07						Q	
75+34	35.5930	0.07						Q	
75+35	35.5917	0.07						Q	
75+36	35.5903	0.07						Q	
75+37	35.5890	0.07						Q	
75+38	35.5877	0.07						Q	
75+39	35.5863	0.07						Q	
75+40	35.5850	0.07						Q	
75+41	35.5837	0.07						Q	
75+42	35.5823	0.07						Q	
75+43	35.5810	0.07						Q	
75+44	35.5796	0.07						Q	
75+45	35.5783	0.07						Q	
75+46	35.5770	0.07						Q	
75+47	35.5756	0.07						Q	
75+48	35.5743	0.07						Q	
75+49	35.5730	0.07						Q	
75+50	35.5716	0.07						Q	
75+51	35.5703	0.07						Q	
75+52	35.5690	0.07						Q	
75+53	35.5676	0.07						Q	
75+54	35.5663	0.07						Q	
75+55	35.5649	0.07						Q	
75+56	35.5636	0.07						Q	
75+57	35.5623	0.07						Q	
75+58	35.5609	0.07						Q	
75+59	35.5596	0.07						Q	
76+ 0	35.5583	0.07						Q	
76+ 1	35.5569	0.07						Q	
76+ 2	35.5556	0.07						Q	
76+ 3	35.5543	0.07						Q	
76+ 4	35.5529	0.07						Q	

76+ 5	35.5516	0.07						Q	
76+ 6	35.5503	0.07						Q	
76+ 7	35.5489	0.07						Q	
76+ 8	35.5476	0.07						Q	
76+ 9	35.5462	0.07						Q	
76+10	35.5449	0.07						Q	
76+11	35.5436	0.07						Q	
76+12	35.5422	0.07						Q	
76+13	35.5409	0.07						Q	
76+14	35.5396	0.07						Q	
76+15	35.5382	0.07						Q	
76+16	35.5369	0.07						Q	
76+17	35.5356	0.07						Q	
76+18	35.5342	0.07						Q	
76+19	35.5329	0.07						Q	
76+20	35.5316	0.07						Q	
76+21	35.5302	0.07						Q	
76+22	35.5289	0.07						Q	
76+23	35.5276	0.07						Q	
76+24	35.5262	0.07						Q	
76+25	35.5249	0.07						Q	
76+26	35.5236	0.07						Q	
76+27	35.5222	0.07						Q	
76+28	35.5209	0.07						Q	
76+29	35.5195	0.07						Q	
76+30	35.5182	0.07						Q	
76+31	35.5169	0.07						Q	
76+32	35.5155	0.07						Q	
76+33	35.5142	0.07						Q	
76+34	35.5129	0.07						Q	
76+35	35.5115	0.07						Q	
76+36	35.5102	0.07						Q	
76+37	35.5089	0.07						Q	
76+38	35.5075	0.07						Q	
76+39	35.5062	0.07						Q	
76+40	35.5049	0.07						Q	
76+41	35.5035	0.07						Q	
76+42	35.5022	0.07						Q	
76+43	35.5009	0.07						Q	
76+44	35.4995	0.07						Q	
76+45	35.4982	0.07						Q	
76+46	35.4969	0.07						Q	
76+47	35.4955	0.07						Q	
76+48	35.4942	0.07						Q	
76+49	35.4929	0.07						Q	
76+50	35.4915	0.07						Q	
76+51	35.4902	0.07						Q	
76+52	35.4889	0.07						Q	
76+53	35.4875	0.07						Q	
76+54	35.4862	0.07						Q	
76+55	35.4849	0.07						Q	
76+56	35.4835	0.07						Q	
76+57	35.4822	0.07						Q	
76+58	35.4809	0.07						Q	
76+59	35.4795	0.07						Q	
77+ 0	35.4782	0.07						Q	
77+ 1	35.4769	0.07						Q	
77+ 2	35.4755	0.07						Q	
77+ 3	35.4742	0.07						Q	
77+ 4	35.4729	0.07						Q	
77+ 5	35.4715	0.07						Q	
77+ 6	35.4702	0.07						Q	
77+ 7	35.4689	0.07						Q	
77+ 8	35.4675	0.07						Q	
77+ 9	35.4662	0.07						Q	
77+10	35.4649	0.07						Q	
77+11	35.4636	0.07						Q	
77+12	35.4622	0.07						Q	
77+13	35.4609	0.07						Q	
77+14	35.4596	0.07						Q	
77+15	35.4582	0.07						Q	

77+16	35.4569	0.07						Q	
77+17	35.4556	0.07						Q	
77+18	35.4542	0.07						Q	
77+19	35.4529	0.07						Q	
77+20	35.4516	0.07						Q	
77+21	35.4502	0.07						Q	
77+22	35.4489	0.07						Q	
77+23	35.4476	0.07						Q	
77+24	35.4462	0.07						Q	
77+25	35.4449	0.07						Q	
77+26	35.4436	0.07						Q	
77+27	35.4422	0.07						Q	
77+28	35.4409	0.07						Q	
77+29	35.4396	0.07						Q	
77+30	35.4382	0.07						Q	
77+31	35.4369	0.07						Q	
77+32	35.4356	0.07						Q	
77+33	35.4343	0.07						Q	
77+34	35.4329	0.07						Q	
77+35	35.4316	0.07						Q	
77+36	35.4303	0.07						Q	
77+37	35.4289	0.07						Q	
77+38	35.4276	0.07						Q	
77+39	35.4263	0.07						Q	
77+40	35.4249	0.07						Q	
77+41	35.4236	0.07						Q	
77+42	35.4223	0.07						Q	
77+43	35.4209	0.07						Q	
77+44	35.4196	0.07						Q	
77+45	35.4183	0.07						Q	
77+46	35.4170	0.07						Q	
77+47	35.4156	0.07						Q	
77+48	35.4143	0.07						Q	
77+49	35.4130	0.07						Q	
77+50	35.4116	0.07						Q	
77+51	35.4103	0.07						Q	
77+52	35.4090	0.07						Q	
77+53	35.4076	0.07						Q	
77+54	35.4063	0.07						Q	
77+55	35.4050	0.07						Q	
77+56	35.4037	0.07						Q	
77+57	35.4023	0.07						Q	
77+58	35.4010	0.07						Q	
77+59	35.3997	0.07						Q	
78+ 0	35.3983	0.07						Q	
78+ 1	35.3970	0.07						Q	
78+ 2	35.3957	0.07						Q	
78+ 3	35.3943	0.07						Q	
78+ 4	35.3930	0.07						Q	
78+ 5	35.3917	0.07						Q	
78+ 6	35.3904	0.07						Q	
78+ 7	35.3890	0.07						Q	
78+ 8	35.3877	0.07						Q	
78+ 9	35.3864	0.07						Q	
78+10	35.3850	0.07						Q	
78+11	35.3837	0.07						Q	
78+12	35.3824	0.07						Q	
78+13	35.3810	0.07						Q	
78+14	35.3797	0.07						Q	
78+15	35.3784	0.07						Q	
78+16	35.3771	0.07						Q	
78+17	35.3757	0.07						Q	
78+18	35.3744	0.07						Q	
78+19	35.3731	0.07						Q	
78+20	35.3717	0.07						Q	
78+21	35.3704	0.07						Q	
78+22	35.3691	0.07						Q	
78+23	35.3678	0.07						Q	
78+24	35.3664	0.07						Q	
78+25	35.3651	0.07						Q	
78+26	35.3638	0.07						Q	

78+27	35.3624	0.07						Q	
78+28	35.3611	0.07						Q	
78+29	35.3598	0.07						Q	
78+30	35.3585	0.07						Q	
78+31	35.3571	0.07						Q	
78+32	35.3558	0.07						Q	
78+33	35.3545	0.07						Q	
78+34	35.3531	0.07						Q	
78+35	35.3518	0.07						Q	
78+36	35.3505	0.07						Q	
78+37	35.3492	0.07						Q	
78+38	35.3478	0.07						Q	
78+39	35.3465	0.07						Q	
78+40	35.3452	0.07						Q	
78+41	35.3439	0.07						Q	
78+42	35.3425	0.07						Q	
78+43	35.3412	0.07						Q	
78+44	35.3399	0.07						Q	
78+45	35.3385	0.07						Q	
78+46	35.3372	0.07						Q	
78+47	35.3359	0.07						Q	
78+48	35.3346	0.07						Q	
78+49	35.3332	0.07						Q	
78+50	35.3319	0.07						Q	
78+51	35.3306	0.07						Q	
78+52	35.3293	0.07						Q	
78+53	35.3279	0.07						Q	
78+54	35.3266	0.07						Q	
78+55	35.3253	0.07						Q	
78+56	35.3239	0.07						Q	
78+57	35.3226	0.07						Q	
78+58	35.3213	0.07						Q	
78+59	35.3200	0.07						Q	
79+ 0	35.3186	0.07						Q	
79+ 1	35.3173	0.07						Q	
79+ 2	35.3160	0.07						Q	
79+ 3	35.3147	0.07						Q	
79+ 4	35.3133	0.07						Q	
79+ 5	35.3120	0.07						Q	
79+ 6	35.3107	0.07						Q	
79+ 7	35.3093	0.07						Q	
79+ 8	35.3080	0.07						Q	
79+ 9	35.3067	0.07						Q	
79+10	35.3054	0.07						Q	
79+11	35.3040	0.07						Q	
79+12	35.3027	0.07						Q	
79+13	35.3014	0.07						Q	
79+14	35.3001	0.07						Q	
79+15	35.2987	0.07						Q	
79+16	35.2974	0.07						Q	
79+17	35.2961	0.07						Q	
79+18	35.2948	0.07						Q	
79+19	35.2934	0.07						Q	
79+20	35.2921	0.07						Q	
79+21	35.2908	0.07						Q	
79+22	35.2895	0.07						Q	
79+23	35.2881	0.07						Q	
79+24	35.2868	0.07						Q	
79+25	35.2855	0.07						Q	
79+26	35.2842	0.07						Q	
79+27	35.2828	0.07						Q	
79+28	35.2815	0.07						Q	
79+29	35.2802	0.07						Q	
79+30	35.2789	0.07						Q	
79+31	35.2775	0.07						Q	
79+32	35.2762	0.07						Q	
79+33	35.2749	0.07						Q	
79+34	35.2736	0.07						Q	
79+35	35.2722	0.07						Q	
79+36	35.2709	0.07						Q	
79+37	35.2696	0.07						Q	

79+38	35.2683	0.07						Q	
79+39	35.2669	0.07						Q	
79+40	35.2656	0.07						Q	
79+41	35.2643	0.07						Q	
79+42	35.2630	0.07						Q	
79+43	35.2616	0.07						Q	
79+44	35.2603	0.07						Q	
79+45	35.2590	0.07						Q	
79+46	35.2577	0.07						Q	
79+47	35.2563	0.07						Q	
79+48	35.2550	0.07						Q	
79+49	35.2537	0.07						Q	
79+50	35.2524	0.07						Q	
79+51	35.2510	0.07						Q	
79+52	35.2497	0.07						Q	
79+53	35.2484	0.07						Q	
79+54	35.2471	0.07						Q	
79+55	35.2457	0.07						Q	
79+56	35.2444	0.07						Q	
79+57	35.2431	0.07						Q	
79+58	35.2418	0.07						Q	
79+59	35.2404	0.07						Q	
80+ 0	35.2391	0.07						Q	
80+ 1	35.2378	0.07						Q	
80+ 2	35.2365	0.07						Q	
80+ 3	35.2351	0.07						Q	
80+ 4	35.2338	0.07						Q	
80+ 5	35.2325	0.07						Q	
80+ 6	35.2312	0.07						Q	
80+ 7	35.2299	0.07						Q	
80+ 8	35.2285	0.07						Q	
80+ 9	35.2272	0.07						Q	
80+10	35.2259	0.07						Q	
80+11	35.2246	0.07						Q	
80+12	35.2232	0.07						Q	
80+13	35.2219	0.07						Q	
80+14	35.2206	0.07						Q	
80+15	35.2193	0.07						Q	
80+16	35.2179	0.07						Q	
80+17	35.2166	0.07						Q	
80+18	35.2153	0.07						Q	
80+19	35.2140	0.07						Q	
80+20	35.2127	0.07						Q	
80+21	35.2113	0.07						Q	
80+22	35.2100	0.07						Q	
80+23	35.2087	0.07						Q	
80+24	35.2074	0.07						Q	
80+25	35.2060	0.07						Q	
80+26	35.2047	0.07						Q	
80+27	35.2034	0.07						Q	
80+28	35.2021	0.07						Q	
80+29	35.2008	0.07						Q	
80+30	35.1994	0.07						Q	
80+31	35.1981	0.07						Q	
80+32	35.1968	0.07						Q	
80+33	35.1955	0.07						Q	
80+34	35.1941	0.07						Q	
80+35	35.1928	0.07						Q	
80+36	35.1915	0.07						Q	
80+37	35.1902	0.07						Q	
80+38	35.1889	0.07						Q	
80+39	35.1875	0.07						Q	
80+40	35.1862	0.07						Q	
80+41	35.1849	0.07						Q	
80+42	35.1836	0.07						Q	
80+43	35.1822	0.07						Q	
80+44	35.1809	0.07						Q	
80+45	35.1796	0.07						Q	
80+46	35.1783	0.07						Q	
80+47	35.1770	0.07						Q	
80+48	35.1756	0.07						Q	

80+49	35.1743	0.07						Q	
80+50	35.1730	0.07						Q	
80+51	35.1717	0.07						Q	
80+52	35.1704	0.07						Q	
80+53	35.1690	0.07						Q	
80+54	35.1677	0.07						Q	
80+55	35.1664	0.07						Q	
80+56	35.1651	0.07						Q	
80+57	35.1637	0.07						Q	
80+58	35.1624	0.07						Q	
80+59	35.1611	0.07						Q	
81+ 0	35.1598	0.07						Q	
81+ 1	35.1585	0.07						Q	
81+ 2	35.1571	0.07						Q	
81+ 3	35.1558	0.07						Q	
81+ 4	35.1545	0.07						Q	
81+ 5	35.1532	0.07						Q	
81+ 6	35.1519	0.07						Q	
81+ 7	35.1505	0.07						Q	
81+ 8	35.1492	0.07						Q	
81+ 9	35.1479	0.07						Q	
81+10	35.1466	0.07						Q	
81+11	35.1453	0.07						Q	
81+12	35.1439	0.07						Q	
81+13	35.1426	0.07						Q	
81+14	35.1413	0.07						Q	
81+15	35.1400	0.07						Q	
81+16	35.1387	0.07						Q	
81+17	35.1373	0.07						Q	
81+18	35.1360	0.07						Q	
81+19	35.1347	0.07						Q	
81+20	35.1334	0.07						Q	
81+21	35.1321	0.07						Q	
81+22	35.1307	0.07						Q	
81+23	35.1294	0.07						Q	
81+24	35.1281	0.07						Q	
81+25	35.1268	0.07						Q	
81+26	35.1255	0.07						Q	
81+27	35.1241	0.07						Q	
81+28	35.1228	0.07						Q	
81+29	35.1215	0.07						Q	
81+30	35.1202	0.07						Q	
81+31	35.1189	0.07						Q	
81+32	35.1175	0.07						Q	
81+33	35.1162	0.07						Q	
81+34	35.1149	0.07						Q	
81+35	35.1136	0.07						Q	
81+36	35.1123	0.07						Q	
81+37	35.1109	0.07						Q	
81+38	35.1096	0.07						Q	
81+39	35.1083	0.07						Q	
81+40	35.1070	0.07						Q	
81+41	35.1057	0.07						Q	
81+42	35.1044	0.07						Q	
81+43	35.1030	0.07						Q	
81+44	35.1017	0.07						Q	
81+45	35.1004	0.07						Q	
81+46	35.0991	0.07						Q	
81+47	35.0978	0.07						Q	
81+48	35.0964	0.07						Q	
81+49	35.0951	0.07						Q	
81+50	35.0938	0.07						Q	
81+51	35.0925	0.07						Q	
81+52	35.0912	0.07						Q	
81+53	35.0898	0.07						Q	
81+54	35.0885	0.07						Q	
81+55	35.0872	0.07						Q	
81+56	35.0859	0.07						Q	
81+57	35.0846	0.07						Q	
81+58	35.0833	0.07						Q	
81+59	35.0819	0.07						Q	

82+ 0	35.0806	0.07						Q	
82+ 1	35.0793	0.07						Q	
82+ 2	35.0780	0.07						Q	
82+ 3	35.0767	0.07						Q	
82+ 4	35.0754	0.07						Q	
82+ 5	35.0740	0.07						Q	
82+ 6	35.0727	0.07						Q	
82+ 7	35.0714	0.07						Q	
82+ 8	35.0701	0.07						Q	
82+ 9	35.0688	0.07						Q	
82+10	35.0674	0.07						Q	
82+11	35.0661	0.07						Q	
82+12	35.0648	0.06						Q	
82+13	35.0635	0.06						Q	
82+14	35.0622	0.06						Q	
82+15	35.0609	0.06						Q	
82+16	35.0595	0.06						Q	
82+17	35.0582	0.06						Q	
82+18	35.0569	0.06						Q	
82+19	35.0556	0.06						Q	
82+20	35.0543	0.06						Q	
82+21	35.0530	0.06						Q	
82+22	35.0516	0.06						Q	
82+23	35.0503	0.06						Q	
82+24	35.0490	0.06						Q	
82+25	35.0477	0.06						Q	
82+26	35.0464	0.06						Q	
82+27	35.0451	0.06						Q	
82+28	35.0437	0.06						Q	
82+29	35.0424	0.06						Q	
82+30	35.0411	0.06						Q	
82+31	35.0398	0.06						Q	
82+32	35.0385	0.06						Q	
82+33	35.0372	0.06						Q	
82+34	35.0358	0.06						Q	
82+35	35.0345	0.06						Q	
82+36	35.0332	0.06						Q	
82+37	35.0319	0.06						Q	
82+38	35.0306	0.06						Q	
82+39	35.0293	0.06						Q	
82+40	35.0279	0.06						Q	
82+41	35.0266	0.06						Q	
82+42	35.0253	0.06						Q	
82+43	35.0240	0.06						Q	
82+44	35.0227	0.06						Q	
82+45	35.0214	0.06						Q	
82+46	35.0201	0.06						Q	
82+47	35.0187	0.06						Q	
82+48	35.0174	0.06						Q	
82+49	35.0161	0.06						Q	
82+50	35.0148	0.06						Q	
82+51	35.0135	0.06						Q	
82+52	35.0122	0.06						Q	
82+53	35.0108	0.06						Q	
82+54	35.0095	0.06						Q	
82+55	35.0082	0.06						Q	
82+56	35.0069	0.06						Q	
82+57	35.0056	0.06						Q	
82+58	35.0043	0.06						Q	
82+59	35.0030	0.06						Q	
83+ 0	35.0016	0.06						Q	
83+ 1	35.0003	0.06						Q	
83+ 2	34.9990	0.06						Q	
83+ 3	34.9977	0.06						Q	
83+ 4	34.9964	0.06						Q	
83+ 5	34.9951	0.06						Q	
83+ 6	34.9938	0.06						Q	
83+ 7	34.9924	0.06						Q	
83+ 8	34.9911	0.06						Q	
83+ 9	34.9898	0.06						Q	
83+10	34.9885	0.06						Q	

83+11	34.9872	0.06					Q	
83+12	34.9859	0.06					Q	
83+13	34.9846	0.06					Q	
83+14	34.9832	0.06					Q	
83+15	34.9819	0.06					Q	
83+16	34.9806	0.06					Q	
83+17	34.9793	0.06					Q	
83+18	34.9780	0.06					Q	
83+19	34.9767	0.06					Q	
83+20	34.9491	0.06					Q	

```

*****HYDROGRAPH DATA*****
      Number of intervals = 5000
      Time interval = 1.0 (Min.)
      Maximum/Peak flow rate = 0.074 (CFS)
      Total volume = 0.477 (Ac.Ft)
      Status of hydrographs being held in storage
      Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
      Peak (CFS) 64.478 0.000 0.000 0.000 0.000
      Vol (Ac.Ft) 22.425 0.000 0.000 0.000 0.000
*****

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Process from Point/Station 3.000 to Point/Station 3.000
**** ADD/COMBINE/RECOVER HYDROGRAPHS ****

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From stored stream number 1 the total
volume of 22.43 (Ac.Ft) is being added to the
current hydrograph at its original rate from user
with a delay time to start of addition of 0.00 hours.
+++++

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P R I N T O F S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 1 Minute intervals (CFS)

Time (h+m)	Add q(CFS)	Tot. Q	0	16.1	32.3	48.4	64.5
0+ 1	0.9431	1.52	Q				
0+ 2	1.0155	1.64	Q				
0+ 3	1.1306	1.82	Q				
0+ 4	1.3447	2.17	Q				
0+ 5	1.4254	2.30	Q				
0+ 6	1.4559	2.35	Q				
0+ 7	1.4676	2.37	Q				
0+ 8	1.4722	2.38	Q				
0+ 9	1.4742	2.38	Q				
0+10	1.4754	2.38	Q				
0+11	1.4784	2.39	Q				
0+12	1.4816	2.39	Q				
0+13	1.4848	2.40	Q				
0+14	1.4880	2.40	Q				
0+15	1.4914	2.41	Q				
0+16	1.4947	2.41	Q				
0+17	1.4982	2.42	Q				
0+18	1.5017	2.42	Q				
0+19	1.5052	2.43	Q				
0+20	1.5088	2.43	Q				
0+21	1.5125	2.45	Q				
0+22	1.5162	2.47	Q				
0+23	1.5200	2.48	Q				
0+24	1.5238	2.50	Q				
0+25	1.5278	2.51	Q				
0+26	1.5317	2.52	Q				
0+27	1.5358	2.53	Q				
0+28	1.5399	2.54	Q				
0+29	1.5440	2.55	Q				

0+30	1.5482	2.56	Q				
0+31	1.5524	2.56	Q				
0+32	1.5567	2.57	Q				
0+33	1.5611	2.58	Q				
0+34	1.5655	2.59	Q				
0+35	1.5700	2.59	Q				
0+36	1.5746	2.60	Q				
0+37	1.5792	2.61	Q				
0+38	1.5838	2.62	Q				
0+39	1.5885	2.62	Q				
0+40	1.5932	2.63	Q				
0+41	1.5980	2.64	Q				
0+42	1.6040	2.65	Q				
0+43	1.6183	2.67	Q				
0+44	1.6450	2.72	Q				
0+45	1.6763	2.77	Q				
0+46	1.7093	2.82	Q				
0+47	1.7430	2.87	Q				
0+48	1.7769	2.93	Q				
0+49	1.8109	2.98	Q				
0+50	1.8450	3.04	Q				
0+51	1.8791	3.09	Q				
0+52	1.9133	3.15	Q				
0+53	1.9476	3.21	Q				
0+54	1.9819	3.26	qQ				
0+55	2.0162	3.32	Q				
0+56	2.0506	3.37	Q				
0+57	2.0849	3.43	Q				
0+58	2.1192	3.48	Q				
0+59	2.1534	3.54	Q				
1+ 0	2.1877	3.59	Q				
1+ 1	2.2219	3.65	Q				
1+ 2	2.2562	3.70	Q				
1+ 3	2.2906	3.76	Q				
1+ 4	2.3250	3.81	Q				
1+ 5	2.3595	3.87	Q				
1+ 6	2.3940	3.93	Q				
1+ 7	2.4286	3.98	Q				
1+ 8	2.4632	4.04	Q				
1+ 9	2.4979	4.09	Q				
1+10	2.5325	4.15	Q				
1+11	2.5672	4.21	Q				
1+12	2.6019	4.26	Q				
1+13	2.6366	4.32	Q				
1+14	2.6713	4.37	Q				
1+15	2.7060	4.43	Q				
1+16	2.7407	4.49	Q				
1+17	2.7756	4.54	Q				
1+18	2.8137	4.60	Q				
1+19	2.8586	4.68	Q				
1+20	2.9073	4.75	Q				
1+21	2.9573	4.83	Q				
1+22	3.0078	4.92	Q				
1+23	3.0585	5.00	Q				
1+24	3.1091	5.08	Q				
1+25	3.1597	5.16	Q				
1+26	3.2102	5.24	Q				
1+27	3.2605	5.32	Q				
1+28	3.3108	5.41	Q				
1+29	3.3609	5.49	Q				
1+30	3.4109	5.57	Q				
1+31	3.4610	5.65	Q				
1+32	3.5110	5.73	Q				
1+33	3.5612	5.81	Q				
1+34	3.6114	5.89	Q				
1+35	3.6616	5.97	Q				
1+36	3.7119	6.05	Q				
1+37	3.7621	6.13	Q				
1+38	3.8122	6.21	Q				
1+39	3.8623	6.30	Q				
1+40	3.9122	6.38	Q				

1+41	3.9621	6.46	qQ						
1+42	4.0119	6.54	Q						
1+43	4.0617	6.62	Q						
1+44	4.1115	6.70	Q						
1+45	4.1614	6.78	Q						
1+46	4.2114	6.86	Q						
1+47	4.2614	6.94	Q						
1+48	4.3115	7.02	Q						
1+49	4.3617	7.10	Q						
1+50	4.4119	7.18	Q						
1+51	4.4623	7.26	Q						
1+52	4.5126	7.35	Q						
1+53	4.5629	7.43	Q						
1+54	4.6131	7.51	Q						
1+55	4.6634	7.59	Q						
1+56	4.7136	7.67	Q						
1+57	4.7638	7.75	Q						
1+58	4.8140	7.83	Q						
1+59	4.8644	7.91	Q						
2+ 0	4.9149	7.99	Q						
2+ 1	4.9656	8.08	qQ						
2+ 2	5.0164	8.16	Q						
2+ 3	5.0675	8.24	Q						
2+ 4	5.1187	8.32	Q						
2+ 5	5.1700	8.41	Q						
2+ 6	5.2214	8.49	Q						
2+ 7	5.2728	8.57	Q						
2+ 8	5.3242	8.66	Q						
2+ 9	5.3756	8.74	Q						
2+10	5.4270	8.82	Q						
2+11	5.4784	8.90	Q						
2+12	5.5300	8.99	Q						
2+13	5.5818	9.07	Q						
2+14	5.6339	9.15	Q						
2+15	5.6863	9.24	Q						
2+16	5.7390	9.32	Q						
2+17	5.7919	9.41	Q						
2+18	5.8451	9.50	Q						
2+19	5.8983	9.58	Q						
2+20	5.9516	9.67	Q						
2+21	6.0050	9.75	Q						
2+22	6.0585	9.84	Q						
2+23	6.1121	9.93	Q						
2+24	6.1657	10.01	Q						
2+25	6.2195	10.10	Q						
2+26	6.2734	10.19	Q						
2+27	6.3276	10.27	Q						
2+28	6.3821	10.36	Q						
2+29	6.4369	10.45	Q						
2+30	6.4921	10.54	Q						
2+31	6.5476	10.63	Q						
2+32	6.6036	10.72	Q						
2+33	6.6598	10.81	Q						
2+34	6.7162	10.90	Q						
2+35	6.7728	10.99	Q						
2+36	6.8295	11.08	Q						
2+37	6.8863	11.18	Q						
2+38	6.9443	11.27	Q						
2+39	7.0058	11.37	Q						
2+40	7.0706	11.47	Q						
2+41	7.1369	11.58	Q						
2+42	7.2042	11.69	Q						
2+43	7.2723	11.80	Q						
2+44	7.3410	11.91	Q						
2+45	7.4103	12.02	Q						
2+46	7.4803	12.14	Q						
2+47	7.5506	12.25	Q						
2+48	7.6211	12.36	Q						
2+49	7.6918	12.48	Q						
2+50	7.7626	12.59	Q						
2+51	7.8336	12.71	Q						

2+52	7.9049	12.82	Q						
2+53	7.9766	12.94	qQ						
2+54	8.0490	13.05	Q						
2+55	8.1222	13.17	Q						
2+56	8.1962	13.29	Q						
2+57	8.2710	13.41	Q						
2+58	8.3466	13.53	Q						
2+59	8.4230	13.66	Q						
3+ 0	8.5001	13.78	Q						
3+ 1	8.5780	13.91	Q						
3+ 2	8.6566	14.03	Q						
3+ 3	8.7357	14.16	Q						
3+ 4	8.8280	14.31	Q						
3+ 5	8.9259	14.47	Q						
3+ 6	9.0246	14.63	Q						
3+ 7	9.1236	14.79	Q						
3+ 8	9.2233	14.95	Q						
3+ 9	9.3242	15.11	Q						
3+10	9.4263	15.28	Q						
3+11	9.5299	15.44	Q						
3+12	9.6352	15.61	Q						
3+13	9.7422	15.79	Q						
3+14	9.8508	15.96	Q						
3+15	9.9607	16.14	qQ						
3+16	10.0717	16.32	Q						
3+17	10.1835	16.50	Q						
3+18	10.2962	16.68	Q						
3+19	10.4097	16.86	Q						
3+20	10.5240	17.05	Q						
3+21	10.6394	17.23	Q						
3+22	10.7570	17.42	Q						
3+23	10.8771	17.62	Q						
3+24	11.0002	17.82	Q						
3+25	11.1264	18.02	Q						
3+26	11.2554	18.23	Q						
3+27	11.3870	18.44	Q						
3+28	11.5210	18.66	Q						
3+29	11.6571	18.88	Q						
3+30	11.7948	19.10	Q						
3+31	11.9346	19.32	Q						
3+32	12.0773	19.55	Q						
3+33	12.2229	19.79	Q						
3+34	12.3716	20.03	Q						
3+35	12.5236	20.27	Q						
3+36	12.6796	20.53	Q						
3+37	12.8402	20.79	Q						
3+38	13.0056	21.05	Q						
3+39	13.1829	21.34	Q						
3+40	13.3800	21.66	Q						
3+41	13.5921	22.00	Q						
3+42	13.8157	22.36	Q						
3+43	14.0485	22.74	Q						
3+44	14.2890	23.12	Q						
3+45	14.5366	23.52	Q						
3+46	14.7906	23.93	Q						
3+47	15.0506	24.35	Q						
3+48	15.3172	24.78	Q						
3+49	15.5928	25.23	Q						
3+50	15.8821	25.69	Q						
3+51	16.1926	26.20	Q						
3+52	16.5297	26.74	Q						
3+53	16.8963	27.33	Q						
3+54	17.2943	27.97	Q						
3+55	17.7169	28.66	Q						
3+56	18.1578	29.37	Q						
3+57	18.6169	30.11	Q						
3+58	19.0934	30.88	Q						
3+59	19.5872	31.67	Q						
4+ 0	20.1312	32.55	Q						
4+ 1	21.3152	34.46	Q						
4+ 2	22.9199	37.05	Q						

4+ 3	24.9555	40.34				Q		
4+ 4	27.7384	44.83				Q		
4+ 5	31.5004	50.90				Q		
4+ 6	36.8236	59.49				Q		
4+ 7	38.4479	62.11				Q		
4+ 8	39.4828	63.78				Q		
4+ 9	39.9579	64.55				Q		
4+10	39.9010	64.45				Q		
4+11	39.5609	63.91				Q		
4+12	39.1910	63.31				Q		
4+13	38.8091	62.69				Q		
4+14	38.4153	62.06				Q		
4+15	38.0094	61.40				Q		
4+16	37.6002	60.74				Q		
4+17	37.1972	60.09				Q		
4+18	36.8004	59.45				Q		
4+19	36.4096	58.82				Q		
4+20	36.0243	58.20				Q		
4+21	35.6472	57.59				Q		
4+22	35.2807	57.00				Q		
4+23	34.9244	56.43				Q		
4+24	34.5778	55.87				Q		
4+25	34.2404	55.32				Q		
4+26	33.9128	54.79				Q		
4+27	33.5960	54.28				Q		
4+28	33.2895	53.79				Q		
4+29	32.9928	53.31				Q		
4+30	32.7054	52.85				Q		
4+31	32.4276	52.40				Q		
4+32	32.1596	51.97				Q		
4+33	31.9010	51.55				Q		
4+34	31.6514	51.15				Q		
4+35	31.4102	50.76				Q		
4+36	31.1776	50.38				Q		
4+37	30.9535	50.02				Q		
4+38	30.7376	49.67				Q		
4+39	30.5294	49.34				Q		
4+40	30.3286	49.01				Q		
4+41	30.1350	48.70				Q		
4+42	29.9487	48.40				Q		
4+43	29.7693	48.11				Q		
4+44	29.5965	47.83				Q		
4+45	29.4298	47.56				Q		
4+46	29.2693	47.30				Q		
4+47	29.1148	47.05				Q		
4+48	28.9661	46.81				Q		
4+49	28.8228	46.58				Q		
4+50	28.6847	46.36				Q		
4+51	28.5517	46.15				Q		
4+52	28.4236	45.94				Q		
4+53	28.3003	45.74				Q		
4+54	28.1815	45.55				Q		
4+55	28.0670	45.36				Q		
4+56	27.9567	45.19				Q		
4+57	27.8505	45.01				Q		
4+58	27.7482	44.85				Q		
4+59	27.6495	44.69				Q		
5+ 0	27.5544	44.54				Q		
5+ 1	27.4628	44.39				Q		
5+ 2	27.3744	44.25				Q		
5+ 3	27.2893	44.11				Q		
5+ 4	27.2072	43.98				Q		
5+ 5	27.1280	43.85				Q		
5+ 6	27.0516	43.73				Q		
5+ 7	26.9780	43.61				Q		
5+ 8	26.9069	43.49				Q		
5+ 9	26.8384	43.38				Q		
5+10	26.7722	43.27				Q		
5+11	26.7082	43.17				Q		
5+12	26.6466	43.07				Q		
5+13	26.5870	42.98				Q		

5+14	26.5391	42.90				Q	
5+15	26.5217	42.87				Q	
5+16	26.5065	42.85				Q	
5+17	26.4913	42.82				Q	
5+18	26.4761	42.80				Q	
5+19	26.4608	42.77				Q	
5+20	26.4456	42.75				Q	
5+21	26.4303	42.72				Q	
5+22	26.4150	42.70				Q	
5+23	26.3997	42.67				Q	
5+24	26.3844	42.65				Q	
5+25	26.3691	42.62				Q	
5+26	26.3538	42.60				Q	
5+27	26.3385	42.57				Q	
5+28	26.3233	42.55				Q	
5+29	26.3080	42.53				Q	
5+30	26.2928	42.50				Q	
5+31	26.2776	42.48				Q	
5+32	26.2624	42.45				Q	
5+33	26.2473	42.43				Q	
5+34	26.2322	42.40				Q	
5+35	26.2171	42.38				Q	
5+36	26.2021	42.35				Q	
5+37	26.1871	42.33				Q	
5+38	26.1722	42.31				Q	
5+39	26.1573	42.28				Q	
5+40	26.1424	42.26				Q	
5+41	26.1276	42.23				Q	
5+42	26.1129	42.21				Q	
5+43	26.0982	42.19				Q	
5+44	26.0835	42.16				Q	
5+45	26.0690	42.14				Q	
5+46	26.0544	42.12				Q	
5+47	26.0399	42.09				Q	
5+48	26.0255	42.07				Q	
5+49	26.0112	42.05				Q	
5+50	25.9969	42.02				qQ	
5+51	25.9826	42.00				qQ	
5+52	25.9685	41.98				qQ	
5+53	25.9544	41.96				qQ	
5+54	25.9403	41.93				Q	
5+55	25.9264	41.91				Q	
5+56	25.9125	41.89				Q	
5+57	25.8986	41.87				Q	
5+58	25.8849	41.84				Q	
5+59	25.8712	41.82				Q	
6+ 0	25.8575	41.80				Q	
6+ 1	25.8440	41.78				Q	
6+ 2	25.8305	41.76				Q	
6+ 3	25.8171	41.73				Q	
6+ 4	25.8037	41.71				Q	
6+ 5	25.7905	41.69				Q	
6+ 6	25.7685	41.66				Q	
6+ 7	25.7374	41.61				Q	
6+ 8	25.7059	41.55				Q	
6+ 9	25.6749	41.50				Q	
6+10	25.6443	41.45				Q	
6+11	25.6139	41.41				Q	
6+12	25.5840	41.36				Q	
6+13	25.5544	41.31				Q	
6+14	25.5251	41.26				Q	
6+15	25.4962	41.22				Q	
6+16	25.4676	41.17				Q	
6+17	25.4393	41.12				Q	
6+18	25.4113	41.08				Q	
6+19	25.3837	41.03				Q	
6+20	25.3564	40.99				Q	
6+21	25.3294	40.95				Q	
6+22	25.3026	40.90				Q	
6+23	25.2762	40.86				Q	
6+24	25.2501	40.82				Q	

6+25	25.2243	40.78				Q	
6+26	25.1988	40.74				Q	
6+27	25.1735	40.70				Q	
6+28	25.1486	40.66				Q	
6+29	25.1239	40.62				Q	
6+30	25.0995	40.58				Q	
6+31	25.0753	40.54				Q	
6+32	25.0514	40.50				Q	
6+33	25.0278	40.46				Q	
6+34	25.0045	40.42				Q	
6+35	24.9814	40.39				qQ	
6+36	24.9585	40.35				qQ	
6+37	24.9360	40.31				Q	
6+38	24.9136	40.28				Q	
6+39	24.8915	40.24				Q	
6+40	24.8697	40.21				Q	
6+41	24.8480	40.17				Q	
6+42	24.8266	40.14				Q	
6+43	24.8055	40.10				Q	
6+44	24.7846	40.07				Q	
6+45	24.7639	40.03				Q	
6+46	24.7434	40.00				Q	
6+47	24.7231	39.97				Q	
6+48	24.7031	39.94				Q	
6+49	24.6832	39.90				Q	
6+50	24.6636	39.87				Q	
6+51	24.6442	39.84				Q	
6+52	24.6250	39.81				Q	
6+53	24.6060	39.78				Q	
6+54	24.5872	39.75				Q	
6+55	24.5686	39.72				Q	
6+56	24.5501	39.69				Q	
6+57	24.5319	39.66				Q	
6+58	24.5139	39.63				Q	
6+59	24.4960	39.60				Q	
7+ 0	24.4784	39.57				Q	
7+ 1	24.4609	39.55				Q	
7+ 2	24.4436	39.52				Q	
7+ 3	24.4265	39.49				Q	
7+ 4	24.4095	39.46				Q	
7+ 5	24.3928	39.44				Q	
7+ 6	24.3762	39.41				Q	
7+ 7	24.3598	39.38				Q	
7+ 8	24.3436	39.36				Q	
7+ 9	24.3276	39.33				Q	
7+10	24.3118	39.30				Q	
7+11	24.2961	39.28				Q	
7+12	24.2806	39.25				Q	
7+13	24.2652	39.23				Q	
7+14	24.2501	39.21				Q	
7+15	24.2350	39.18				Q	
7+16	24.2202	39.16				Q	
7+17	24.2055	39.13				Q	
7+18	24.1910	39.11				Q	
7+19	24.1766	39.09				Q	
7+20	24.1624	39.06				Q	
7+21	24.1483	39.04				Q	
7+22	24.1344	39.02				Q	
7+23	24.1206	39.00				Q	
7+24	24.1070	38.97				Q	
7+25	24.0935	38.95				Q	
7+26	24.0801	38.93				Q	
7+27	24.0669	38.91				Q	
7+28	24.0539	38.89				Q	
7+29	24.0409	38.87				Q	
7+30	24.0281	38.85				Q	
7+31	24.0155	38.83				Q	
7+32	24.0029	38.81				Q	
7+33	23.9905	38.79				qQ	
7+34	23.9782	38.77				qQ	
7+35	23.9661	38.75				qQ	

7+36	23.9541	38.73				Q		
7+37	23.9422	38.71				Q		
7+38	23.9304	38.69				Q		
7+39	23.9187	38.67				Q		
7+40	23.9072	38.65				Q		
7+41	23.8957	38.63				Q		
7+42	23.8844	38.62				Q		
7+43	23.8732	38.60				Q		
7+44	23.8621	38.58				Q		
7+45	23.8511	38.56				Q		
7+46	23.8402	38.54				Q		
7+47	23.8295	38.53				Q		
7+48	23.8188	38.51				Q		
7+49	23.8083	38.49				Q		
7+50	23.7978	38.48				Q		
7+51	23.7875	38.46				Q		
7+52	23.7772	38.44				Q		
7+53	23.7670	38.43				Q		
7+54	23.7570	38.41				Q		
7+55	23.7470	38.39				Q		
7+56	23.7372	38.38				Q		
7+57	23.7274	38.36				Q		
7+58	23.7177	38.35				Q		
7+59	23.7081	38.33				Q		
8+ 0	23.6986	38.32				Q		
8+ 1	23.6892	38.30				Q		
8+ 2	23.6799	38.29				Q		
8+ 3	23.6707	38.27				Q		
8+ 4	23.6616	38.26				Q		
8+ 5	23.6525	38.24				Q		
8+ 6	23.6435	38.23				Q		
8+ 7	23.6346	38.21				Q		
8+ 8	23.6258	38.20				Q		
8+ 9	23.6171	38.18				Q		
8+10	23.6084	38.17				Q		
8+11	23.5999	38.16				Q		
8+12	23.5914	38.14				Q		
8+13	23.5829	38.13				Q		
8+14	23.5746	38.12				Q		
8+15	23.5663	38.10				Q		
8+16	23.5581	38.09				Q		
8+17	23.5500	38.08				Q		
8+18	23.5420	38.06				Q		
8+19	23.5340	38.05				Q		
8+20	23.5261	38.04				Q		
8+21	23.5182	38.02				Q		
8+22	23.5104	38.01				Q		
8+23	23.5027	38.00				Q		
8+24	23.4951	37.99				Q		
8+25	23.4875	37.97				Q		
8+26	23.4800	37.96				Q		
8+27	23.4726	37.95				Q		
8+28	23.4652	37.94				Q		
8+29	23.4578	37.93				Q		
8+30	23.4505	37.91				Q		
8+31	23.4433	37.90				Q		
8+32	23.4361	37.89				Q		
8+33	23.4289	37.88				Q		
8+34	2.5341	4.16	Q					
8+35	2.5270	4.15	Q					
8+36	2.5201	4.14	Q					
8+37	2.5131	4.13	Q					
8+38	2.5062	4.12	Q					
8+39	2.4994	4.11	Q					
8+40	2.4926	4.10	Q					
8+41	2.4858	4.09	Q					
8+42	2.4791	4.07	Q					
8+43	2.4724	4.06	Q					
8+44	2.4658	4.05	Q					
8+45	2.4592	4.04	Q					
8+46	2.4527	4.03	Q					

8+47	2.4462	4.02	Q				
8+48	2.4397	4.01	Q				
8+49	2.4333	4.00	Q				
8+50	2.4269	3.99	Q				
8+51	2.4206	3.98	Q				
8+52	2.4143	3.97	Q				
8+53	2.4081	3.96	Q				
8+54	2.4018	3.95	Q				
8+55	2.3957	3.94	Q				
8+56	2.3895	3.93	Q				
8+57	2.3834	3.92	Q				
8+58	2.3774	3.91	Q				
8+59	2.3714	3.90	Q				
9+ 0	2.3654	3.89	Q				
9+ 1	2.3594	3.88	Q				
9+ 2	2.3535	3.87	Q				
9+ 3	2.3476	3.86	Q				
9+ 4	2.3418	3.85	Q				
9+ 5	2.3360	3.84	Q				
9+ 6	2.3304	3.83	Q				
9+ 7	2.3276	3.83	Q				
9+ 8	2.3251	3.83	Q				
9+ 9	2.3226	3.82	Q				
9+10	2.3201	3.82	Q				
9+11	2.3176	3.81	Q				
9+12	2.3150	3.81	Q				
9+13	2.3125	3.81	Q				
9+14	2.3099	3.80	Q				
9+15	2.3074	3.80	Q				
9+16	2.3048	3.79	Q				
9+17	2.3023	3.79	Q				
9+18	2.2997	3.78	Q				
9+19	2.2972	3.78	Q				
9+20	2.2946	3.78	Q				
9+21	2.2920	3.77	Q				
9+22	2.2895	3.77	Q				
9+23	2.2869	3.76	Q				
9+24	2.2843	3.76	Q				
9+25	2.2817	3.76	Q				
9+26	2.2791	3.75	Q				
9+27	2.2765	3.75	Q				
9+28	2.2739	3.74	Q				
9+29	2.2713	3.74	Q				
9+30	2.2687	3.73	Q				
9+31	2.2661	3.73	Q				
9+32	2.2635	3.73	Q				
9+33	2.2609	3.72	Q				
9+34	2.2583	3.72	Q				
9+35	2.2557	3.71	Q				
9+36	2.2531	3.71	Q				
9+37	2.2504	3.71	Q				
9+38	2.2478	3.70	Q				
9+39	2.2452	3.70	Q				
9+40	2.2425	3.69	Q				
9+41	2.2399	3.69	Q				
9+42	2.2373	3.68	Q				
9+43	2.2346	3.68	Q				
9+44	2.2320	3.68	Q				
9+45	2.2293	3.67	Q				
9+46	2.2267	3.67	Q				
9+47	2.2240	3.66	Q				
9+48	2.2214	3.66	Q				
9+49	2.2187	3.65	Q				
9+50	2.2161	3.65	Q				
9+51	2.2134	3.65	Q				
9+52	2.2107	3.64	Q				
9+53	2.2081	3.64	Q				
9+54	2.2054	3.63	Q				
9+55	2.2027	3.63	Q				
9+56	2.2001	3.62	Q				
9+57	2.1974	3.62	Q				

9+58	2.1947	3.62		Q					
9+59	2.1920	3.61		Q					
10+ 0	2.1894	3.61		Q					
10+ 1	2.1867	3.60		Q					
10+ 2	2.1840	3.60		Q					
10+ 3	2.1813	3.59		Q					
10+ 4	2.1786	3.59		Q					
10+ 5	2.1759	3.59		Q					
10+ 6	2.1733	3.58		Q					
10+ 7	2.1706	3.58		Q					
10+ 8	2.1679	3.57		Q					
10+ 9	2.1652	3.57		Q					
10+10	2.1625	3.56		Q					
10+11	2.1598	3.56		Q					
10+12	2.1571	3.55		Q					
10+13	2.1544	3.55		Q					
10+14	2.1517	3.55		Q					
10+15	2.1490	3.54		Q					
10+16	2.1463	3.54		Q					
10+17	2.1436	3.53		Q					
10+18	2.1410	3.53		Q					
10+19	2.1383	3.52		Q					
10+20	2.1356	3.52		Q					
10+21	2.1329	3.52		Q					
10+22	2.1302	3.51		Q					
10+23	2.1275	3.51		Q					
10+24	2.1248	3.50		Q					
10+25	2.1221	3.50		Q					
10+26	2.1194	3.49		Q					
10+27	2.1167	3.49		Q					
10+28	2.1140	3.48		Q					
10+29	2.1113	3.48		Q					
10+30	2.1086	3.48		Q					
10+31	2.1059	3.47		Q					
10+32	2.1032	3.47		Q					
10+33	2.1005	3.46		Q					
10+34	2.0978	3.46		Q					
10+35	2.0951	3.45		Q					
10+36	2.0923	3.45		Q					
10+37	2.0896	3.45		Q					
10+38	2.0869	3.44		Q					
10+39	2.0842	3.44		Q					
10+40	2.0815	3.43		Q					
10+41	2.0788	3.43		Q					
10+42	2.0761	3.42		Q					
10+43	2.0734	3.42		Q					
10+44	2.0707	3.42		Q					
10+45	2.0680	3.41		Q					
10+46	2.0653	3.41		Q					
10+47	2.0626	3.40		Q					
10+48	2.0599	3.40		Q					
10+49	2.0572	3.39		Q					
10+50	2.0545	3.39		Q					
10+51	2.0518	3.38		Q					
10+52	2.0491	3.38		Q					
10+53	2.0464	3.38		Q					
10+54	2.0437	3.37		Q					
10+55	2.0410	3.37		Q					
10+56	2.0383	3.36		Q					
10+57	2.0356	3.36		Q					
10+58	2.0329	3.35		Q					
10+59	2.0302	3.35		Q					
11+ 0	2.0275	3.35		Q					
11+ 1	2.0249	3.34		Q					
11+ 2	2.0222	3.34		Q					
11+ 3	2.0195	3.33		Q					
11+ 4	2.0168	3.33		Q					
11+ 5	2.0141	3.32		Q					
11+ 6	2.0114	3.32		Q					
11+ 7	2.0087	3.31		Q					
11+ 8	2.0060	3.31		Q					

11+ 9	2.0033	3.31	Q				
11+10	2.0006	3.30	Q				
11+11	1.9979	3.30	qQ				
11+12	1.9952	3.29	qQ				
11+13	1.9926	3.29	qQ				
11+14	1.9899	3.28	qQ				
11+15	1.9872	3.28	qQ				
11+16	1.9845	3.28	qQ				
11+17	1.9818	3.27	qQ				
11+18	1.9791	3.27	qQ				
11+19	1.9765	3.26	qQ				
11+20	1.9738	3.26	qQ				
11+21	1.9711	3.25	qQ				
11+22	1.9684	3.25	qQ				
11+23	1.9657	3.25	qQ				
11+24	1.9631	3.24	qQ				
11+25	1.9604	3.24	qQ				
11+26	1.9577	3.23	qQ				
11+27	1.9550	3.23	qQ				
11+28	1.9524	3.22	Q				
11+29	1.9497	3.22	Q				
11+30	1.9470	3.22	Q				
11+31	1.9443	3.21	Q				
11+32	1.9417	3.21	Q				
11+33	1.9390	3.20	Q				
11+34	1.9363	3.20	Q				
11+35	1.9337	3.19	Q				
11+36	1.9310	3.19	Q				
11+37	1.9284	3.19	Q				
11+38	1.9257	3.18	Q				
11+39	1.9230	3.18	Q				
11+40	1.9204	3.17	Q				
11+41	1.9177	3.17	Q				
11+42	1.9151	3.16	Q				
11+43	1.9124	3.16	Q				
11+44	1.9098	3.16	Q				
11+45	1.9071	3.15	Q				
11+46	1.9045	3.15	Q				
11+47	1.9018	3.14	Q				
11+48	1.8992	3.14	Q				
11+49	1.8965	3.13	Q				
11+50	1.8939	3.13	Q				
11+51	1.8912	3.13	Q				
11+52	1.8886	3.12	Q				
11+53	1.8859	3.12	Q				
11+54	1.8833	3.11	Q				
11+55	1.8807	3.11	Q				
11+56	1.8780	3.10	Q				
11+57	1.8754	3.10	Q				
11+58	1.8728	3.10	Q				
11+59	1.8701	3.09	Q				
12+ 0	1.8675	3.09	Q				
12+ 1	1.8649	3.08	Q				
12+ 2	1.8623	3.08	Q				
12+ 3	1.8596	3.07	Q				
12+ 4	1.8570	3.07	Q				
12+ 5	1.8544	3.07	Q				
12+ 6	1.8518	3.06	Q				
12+ 7	1.8492	3.06	Q				
12+ 8	1.8465	3.05	Q				
12+ 9	1.8439	3.05	Q				
12+10	1.8413	3.04	Q				
12+11	1.8387	3.04	Q				
12+12	1.8361	3.04	Q				
12+13	1.8335	3.03	Q				
12+14	1.8309	3.03	Q				
12+15	1.8283	3.02	Q				
12+16	1.8257	3.02	Q				
12+17	1.8231	3.02	Q				
12+18	1.8205	3.01	Q				
12+19	1.8179	3.01	Q				

12+20	1.8153	3.00	IQ				
12+21	1.8127	3.00	IQ				
12+22	1.8101	2.99	IQ				
12+23	1.8075	2.99	IQ				
12+24	1.8049	2.99	IQ				
12+25	1.8023	2.98	IQ				
12+26	1.7998	2.98	IQ				
12+27	1.7972	2.97	IQ				
12+28	1.7946	2.97	IQ				
12+29	1.7920	2.97	IQ				
12+30	1.7894	2.96	IQ				
12+31	1.7869	2.96	IQ				
12+32	1.7843	2.95	IQ				
12+33	1.7817	2.95	IQ				
12+34	1.7791	2.94	IQ				
12+35	1.7766	2.94	IQ				
12+36	1.7740	2.94	IQ				
12+37	1.7714	2.93	IQ				
12+38	1.7688	2.93	IQ				
12+39	1.7663	2.92	IQ				
12+40	1.7637	2.92	IQ				
12+41	1.7611	2.92	IQ				
12+42	1.7585	2.91	IQ				
12+43	1.7560	2.91	IQ				
12+44	1.7534	2.90	IQ				
12+45	1.7508	2.90	IQ				
12+46	1.7483	2.89	IQ				
12+47	1.7457	2.89	IQ				
12+48	1.7431	2.89	IQ				
12+49	1.7406	2.88	IQ				
12+50	1.7380	2.88	IQ				
12+51	1.7354	2.87	IQ				
12+52	1.7329	2.87	IQ				
12+53	1.7303	2.87	IQ				
12+54	1.7278	2.86	IQ				
12+55	1.7252	2.86	IQ				
12+56	1.7226	2.85	IQ				
12+57	1.7201	2.85	IQ				
12+58	1.7175	2.84	IQ				
12+59	1.7150	2.84	IQ				
13+ 0	1.7124	2.84	IQ				
13+ 1	1.7099	2.83	IQ				
13+ 2	1.7073	2.83	IQ				
13+ 3	1.7048	2.82	IQ				
13+ 4	1.7022	2.82	IQ				
13+ 5	1.6997	2.82	IQ				
13+ 6	1.6971	2.81	IQ				
13+ 7	1.6946	2.81	IQ				
13+ 8	1.6920	2.80	IQ				
13+ 9	1.6895	2.80	IQ				
13+10	1.6870	2.80	IQ				
13+11	1.6844	2.79	IQ				
13+12	1.6819	2.79	IQ				
13+13	1.6793	2.78	IQ				
13+14	1.6768	2.78	IQ				
13+15	1.6743	2.78	IQ				
13+16	1.6717	2.77	IQ				
13+17	1.6692	2.77	IQ				
13+18	1.6667	2.76	IQ				
13+19	1.6642	2.76	IQ				
13+20	1.6616	2.75	IQ				
13+21	1.6591	2.75	IQ				
13+22	1.6566	2.75	IQ				
13+23	1.6541	2.74	IQ				
13+24	1.6515	2.74	IQ				
13+25	1.6490	2.73	IQ				
13+26	1.6465	2.73	IQ				
13+27	1.6440	2.73	IQ				
13+28	1.6415	2.72	IQ				
13+29	1.6390	2.72	IQ				
13+30	1.6364	2.71	IQ				

13+31	1.6339	2.71	Q				
13+32	1.6314	2.71	Q				
13+33	1.6289	2.70	Q				
13+34	1.6264	2.70	Q				
13+35	1.6239	2.69	Q				
13+36	1.6214	2.69	Q				
13+37	1.6189	2.69	Q				
13+38	1.6164	2.68	Q				
13+39	1.6139	2.68	Q				
13+40	1.6114	2.67	Q				
13+41	1.6089	2.67	Q				
13+42	1.6064	2.67	Q				
13+43	1.6040	2.66	Q				
13+44	1.6015	2.66	Q				
13+45	1.5990	2.65	Q				
13+46	1.5965	2.65	Q				
13+47	1.5940	2.65	Q				
13+48	1.5915	2.64	Q				
13+49	1.5891	2.64	Q				
13+50	1.5866	2.63	Q				
13+51	1.5841	2.63	Q				
13+52	1.5816	2.63	Q				
13+53	1.5792	2.62	Q				
13+54	1.5767	2.62	Q				
13+55	1.5742	2.61	Q				
13+56	1.5718	2.61	Q				
13+57	1.5693	2.61	Q				
13+58	1.5669	2.60	Q				
13+59	1.5644	2.60	Q				
14+ 0	1.5620	2.59	Q				
14+ 1	1.5595	2.59	Q				
14+ 2	1.5570	2.59	Q				
14+ 3	1.5546	2.58	Q				
14+ 4	1.5521	2.58	Q				
14+ 5	1.5497	2.57	Q				
14+ 6	1.5473	2.57	Q				
14+ 7	1.5448	2.57	Q				
14+ 8	1.5424	2.56	Q				
14+ 9	1.5399	2.56	Q				
14+10	1.5375	2.55	Q				
14+11	1.5351	2.55	Q				
14+12	1.5326	2.55	Q				
14+13	1.5302	2.54	Q				
14+14	1.5278	2.54	Q				
14+15	1.5254	2.53	Q				
14+16	1.5229	2.53	Q				
14+17	1.5205	2.53	Q				
14+18	1.5181	2.52	Q				
14+19	1.5156	2.52	Q				
14+20	1.5131	2.51	Q				
14+21	1.5106	2.51	Q				
14+22	1.5080	2.51	Q				
14+23	1.5055	2.50	Q				
14+24	1.5029	2.50	Q				
14+25	1.5003	2.49	Q				
14+26	1.4976	2.49	Q				
14+27	1.4950	2.49	Q				
14+28	1.4923	2.48	Q				
14+29	1.4896	2.48	Q				
14+30	1.4868	2.47	Q				
14+31	1.4841	2.47	Q				
14+32	1.4813	2.46	Q				
14+33	1.4785	2.46	Q				
14+34	1.4757	2.45	Q				
14+35	1.4729	2.45	Q				
14+36	1.4700	2.45	Q				
14+37	1.4671	2.44	Q				
14+38	1.4643	2.44	Q				
14+39	1.4613	2.43	Q				
14+40	1.4584	2.43	Q				
14+41	1.4555	2.42	Q				

14+42	1.4525	2.42	Q				
14+43	1.4495	2.41	Q				
14+44	1.4465	2.41	Q				
14+45	1.4435	2.40	Q				
14+46	1.4405	2.40	Q				
14+47	1.4374	2.39	Q				
14+48	1.4343	2.39	Q				
14+49	1.4313	2.38	Q				
14+50	1.4282	2.38	Q				
14+51	1.4250	2.37	Q				
14+52	1.4219	2.37	Q				
14+53	1.4188	2.36	Q				
14+54	1.4156	2.36	Q				
14+55	1.4125	2.35	Q				
14+56	1.4093	2.35	Q				
14+57	1.4061	2.34	Q				
14+58	1.4029	2.34	Q				
14+59	1.3996	2.33	Q				
15+ 0	1.3964	2.33	Q				
15+ 1	1.3932	2.32	Q				
15+ 2	1.3899	2.32	Q				
15+ 3	1.3866	2.31	Q				
15+ 4	1.3833	2.31	Q				
15+ 5	1.3801	2.30	Q				
15+ 6	1.3768	2.29	Q				
15+ 7	1.3734	2.29	Q				
15+ 8	1.3701	2.28	Q				
15+ 9	1.3668	2.28	Q				
15+10	1.3634	2.27	Q				
15+11	1.3601	2.27	Q				
15+12	1.3567	2.26	Q				
15+13	1.3533	2.26	Q				
15+14	1.3500	2.25	Q				
15+15	1.3466	2.25	Q				
15+16	1.3432	2.24	Q				
15+17	1.3398	2.24	Q				
15+18	1.3363	2.23	Q				
15+19	1.3329	2.22	Q				
15+20	1.3295	2.22	Q				
15+21	1.3261	2.21	Q				
15+22	1.3226	2.21	Q				
15+23	1.3192	2.20	Q				
15+24	1.3157	2.20	Q				
15+25	1.3122	2.19	Q				
15+26	1.3088	2.19	Q				
15+27	1.3053	2.18	Q				
15+28	1.3018	2.17	Q				
15+29	1.2983	2.17	Q				
15+30	1.2948	2.16	Q				
15+31	1.2913	2.16	Q				
15+32	1.2878	2.15	Q				
15+33	1.2843	2.15	Q				
15+34	1.2808	2.14	Q				
15+35	1.2773	2.13	Q				
15+36	1.2737	2.13	Q				
15+37	1.2702	2.12	Q				
15+38	1.2667	2.12	Q				
15+39	1.2631	2.11	Q				
15+40	1.2596	2.11	Q				
15+41	1.2561	2.10	Q				
15+42	1.2525	2.09	Q				
15+43	1.2490	2.09	Q				
15+44	1.2454	2.08	Q				
15+45	1.2419	2.08	Q				
15+46	1.2383	2.07	Q				
15+47	1.2347	2.07	Q				
15+48	1.2312	2.06	Q				
15+49	1.2276	2.05	Q				
15+50	1.2241	2.05	Q				
15+51	1.2205	2.04	Q				
15+52	1.2169	2.04	Q				

15+53	1.2133	2.03	Q				
15+54	1.2098	2.03	Q				
15+55	1.2062	2.02	Q				
15+56	1.2026	2.01	Q				
15+57	1.1990	2.01	Q				
15+58	1.1955	2.00	Q				
15+59	1.1919	2.00	Q				
16+ 0	1.1883	1.99	Q				
16+ 1	1.1847	1.98	Q				
16+ 2	1.1812	1.98	Q				
16+ 3	1.1776	1.97	Q				
16+ 4	1.1740	1.97	Q				
16+ 5	1.1704	1.96	Q				
16+ 6	1.1668	1.96	Q				
16+ 7	1.1633	1.95	Q				
16+ 8	1.1597	1.94	Q				
16+ 9	1.1561	1.94	Q				
16+10	1.1525	1.93	Q				
16+11	1.1489	1.93	Q				
16+12	1.1454	1.92	Q				
16+13	1.1418	1.92	Q				
16+14	1.1382	1.91	Q				
16+15	1.1347	1.90	Q				
16+16	1.1311	1.90	Q				
16+17	1.1275	1.89	Q				
16+18	1.1240	1.89	Q				
16+19	1.1204	1.88	Q				
16+20	1.1168	1.88	Q				
16+21	1.1133	1.87	Q				
16+22	1.1097	1.86	Q				
16+23	1.1062	1.86	Q				
16+24	1.1026	1.85	Q				
16+25	1.0991	1.85	Q				
16+26	1.0955	1.84	Q				
16+27	1.0920	1.84	Q				
16+28	1.0884	1.83	Q				
16+29	1.0849	1.82	Q				
16+30	1.0813	1.82	Q				
16+31	1.0778	1.81	Q				
16+32	1.0743	1.81	Q				
16+33	1.0707	1.80	Q				
16+34	1.0672	1.80	Q				
16+35	1.0637	1.79	Q				
16+36	1.0602	1.78	Q				
16+37	1.0567	1.78	Q				
16+38	1.0532	1.77	Q				
16+39	1.0497	1.77	Q				
16+40	1.0461	1.76	Q				
16+41	1.0427	1.76	Q				
16+42	1.0392	1.75	Q				
16+43	1.0357	1.74	Q				
16+44	1.0322	1.74	Q				
16+45	1.0287	1.73	Q				
16+46	1.0252	1.73	Q				
16+47	1.0217	1.72	Q				
16+48	1.0183	1.72	Q				
16+49	1.0163	1.71	Q				
16+50	1.0160	1.71	Q				
16+51	1.0157	1.71	Q				
16+52	1.0155	1.71	Q				
16+53	1.0153	1.71	Q				
16+54	1.0150	1.71	Q				
16+55	1.0148	1.71	Q				
16+56	1.0145	1.71	Q				
16+57	1.0143	1.71	Q				
16+58	1.0141	1.71	Q				
16+59	1.0138	1.71	Q				
17+ 0	1.0136	1.71	Q				
17+ 1	1.0133	1.71	Q				
17+ 2	1.0131	1.71	Q				
17+ 3	1.0128	1.71	Q				

17+ 4	1.0126	1.71	IQ				
17+ 5	1.0123	1.71	IQ				
17+ 6	1.0121	1.71	IQ				
17+ 7	1.0118	1.71	IQ				
17+ 8	1.0116	1.71	IQ				
17+ 9	1.0113	1.70	IQ				
17+10	1.0110	1.70	IQ				
17+11	1.0108	1.70	IQ				
17+12	1.0105	1.70	IQ				
17+13	1.0103	1.70	IQ				
17+14	1.0100	1.70	IQ				
17+15	1.0097	1.70	IQ				
17+16	1.0095	1.70	IQ				
17+17	1.0092	1.70	IQ				
17+18	1.0090	1.70	IQ				
17+19	1.0087	1.70	IQ				
17+20	1.0084	1.70	IQ				
17+21	1.0082	1.70	IQ				
17+22	1.0079	1.70	IQ				
17+23	1.0076	1.70	IQ				
17+24	1.0074	1.70	IQ				
17+25	1.0071	1.70	IQ				
17+26	1.0068	1.70	IQ				
17+27	1.0066	1.70	IQ				
17+28	1.0063	1.70	IQ				
17+29	1.0060	1.70	IQ				
17+30	1.0057	1.70	IQ				
17+31	1.0055	1.70	IQ				
17+32	1.0052	1.70	IQ				
17+33	1.0049	1.69	IQ				
17+34	1.0047	1.69	IQ				
17+35	1.0044	1.69	IQ				
17+36	1.0041	1.69	IQ				
17+37	1.0038	1.69	IQ				
17+38	1.0035	1.69	IQ				
17+39	1.0033	1.69	IQ				
17+40	1.0030	1.69	IQ				
17+41	1.0027	1.69	IQ				
17+42	1.0024	1.69	IQ				
17+43	1.0021	1.69	IQ				
17+44	1.0019	1.69	IQ				
17+45	1.0016	1.69	IQ				
17+46	1.0013	1.69	IQ				
17+47	1.0010	1.69	IQ				
17+48	1.0007	1.69	IQ				
17+49	1.0004	1.69	IQ				
17+50	1.0002	1.69	IQ				
17+51	0.9999	1.69	qQ				
17+52	0.9996	1.69	qQ				
17+53	0.9993	1.69	qQ				
17+54	0.9990	1.69	qQ				
17+55	0.9987	1.68	qQ				
17+56	0.9984	1.68	qQ				
17+57	0.9981	1.68	qQ				
17+58	0.9979	1.68	qQ				
17+59	0.9976	1.68	qQ				
18+ 0	0.9973	1.68	qQ				
18+ 1	0.9970	1.68	qQ				
18+ 2	0.9967	1.68	qQ				
18+ 3	0.9964	1.68	qQ				
18+ 4	0.9961	1.68	qQ				
18+ 5	0.9958	1.68	qQ				
18+ 6	0.9955	1.68	qQ				
18+ 7	0.9952	1.68	qQ				
18+ 8	0.9949	1.68	qQ				
18+ 9	0.9946	1.68	qQ				
18+10	0.9943	1.68	qQ				
18+11	0.9940	1.68	qQ				
18+12	0.9937	1.68	qQ				
18+13	0.9934	1.68	qQ				
18+14	0.9931	1.68	qQ				

18+15	0.9928	1.67	qQ				
18+16	0.9925	1.67	qQ				
18+17	0.9922	1.67	qQ				
18+18	0.9919	1.67	qQ				
18+19	0.9916	1.67	qQ				
18+20	0.9913	1.67	qQ				
18+21	0.9910	1.67	qQ				
18+22	0.9907	1.67	qQ				
18+23	0.9904	1.67	qQ				
18+24	0.9901	1.67	qQ				
18+25	0.9898	1.67	qQ				
18+26	0.9895	1.67	qQ				
18+27	0.9892	1.67	qQ				
18+28	0.9889	1.67	qQ				
18+29	0.9886	1.67	qQ				
18+30	0.9883	1.67	qQ				
18+31	0.9880	1.67	qQ				
18+32	0.9876	1.67	qQ				
18+33	0.9873	1.67	qQ				
18+34	0.9870	1.67	qQ				
18+35	0.9867	1.67	qQ				
18+36	0.9864	1.66	qQ				
18+37	0.9861	1.66	qQ				
18+38	0.9858	1.66	qQ				
18+39	0.9855	1.66	qQ				
18+40	0.9852	1.66	qQ				
18+41	0.9848	1.66	qQ				
18+42	0.9845	1.66	qQ				
18+43	0.9842	1.66	qQ				
18+44	0.9839	1.66	qQ				
18+45	0.9836	1.66	qQ				
18+46	0.9833	1.66	qQ				
18+47	0.9830	1.66	qQ				
18+48	0.9826	1.66	qQ				
18+49	0.9823	1.66	qQ				
18+50	0.9820	1.66	qQ				
18+51	0.9817	1.66	qQ				
18+52	0.9814	1.66	qQ				
18+53	0.9811	1.66	qQ				
18+54	0.9807	1.66	qQ				
18+55	0.9804	1.65	qQ				
18+56	0.9801	1.65	qQ				
18+57	0.9798	1.65	qQ				
18+58	0.9795	1.65	qQ				
18+59	0.9792	1.65	qQ				
19+ 0	0.9788	1.65	qQ				
19+ 1	0.9785	1.65	qQ				
19+ 2	0.9782	1.65	qQ				
19+ 3	0.9779	1.65	qQ				
19+ 4	0.9776	1.65	qQ				
19+ 5	0.9772	1.65	qQ				
19+ 6	0.9769	1.65	qQ				
19+ 7	0.9766	1.65	qQ				
19+ 8	0.9763	1.65	qQ				
19+ 9	0.9759	1.65	qQ				
19+10	0.9756	1.65	qQ				
19+11	0.9753	1.65	qQ				
19+12	0.9750	1.65	qQ				
19+13	0.9746	1.65	qQ				
19+14	0.9743	1.65	qQ				
19+15	0.9740	1.64	qQ				
19+16	0.9737	1.64	qQ				
19+17	0.9733	1.64	qQ				
19+18	0.9730	1.64	qQ				
19+19	0.9727	1.64	qQ				
19+20	0.9724	1.64	qQ				
19+21	0.9720	1.64	qQ				
19+22	0.9717	1.64	qQ				
19+23	0.9714	1.64	qQ				
19+24	0.9711	1.64	qQ				
19+25	0.9707	1.64	qQ				

19+26	0.9704	1.64	qQ				
19+27	0.9701	1.64	qQ				
19+28	0.9697	1.64	qQ				
19+29	0.9694	1.64	qQ				
19+30	0.9691	1.64	qQ				
19+31	0.9688	1.64	qQ				
19+32	0.9684	1.64	qQ				
19+33	0.9681	1.63	qQ				
19+34	0.9678	1.63	qQ				
19+35	0.9674	1.63	qQ				
19+36	0.9671	1.63	qQ				
19+37	0.9668	1.63	qQ				
19+38	0.9664	1.63	qQ				
19+39	0.9661	1.63	qQ				
19+40	0.9658	1.63	qQ				
19+41	0.9655	1.63	qQ				
19+42	0.9651	1.63	qQ				
19+43	0.9648	1.63	qQ				
19+44	0.9645	1.63	qQ				
19+45	0.9641	1.63	qQ				
19+46	0.9638	1.63	qQ				
19+47	0.9635	1.63	qQ				
19+48	0.9631	1.63	qQ				
19+49	0.9628	1.63	qQ				
19+50	0.9625	1.63	qQ				
19+51	0.9621	1.63	qQ				
19+52	0.9618	1.62	qQ				
19+53	0.9615	1.62	qQ				
19+54	0.9611	1.62	qQ				
19+55	0.9608	1.62	qQ				
19+56	0.9604	1.62	qQ				
19+57	0.9601	1.62	qQ				
19+58	0.9598	1.62	qQ				
19+59	0.9594	1.62	qQ				
20+ 0	0.9591	1.62	qQ				
20+ 1	0.9588	1.62	qQ				
20+ 2	0.9584	1.62	qQ				
20+ 3	0.9581	1.62	qQ				
20+ 4	0.9578	1.62	qQ				
20+ 5	0.9574	1.62	qQ				
20+ 6	0.9571	1.62	qQ				
20+ 7	0.9567	1.62	qQ				
20+ 8	0.9564	1.62	qQ				
20+ 9	0.9561	1.62	qQ				
20+10	0.9557	1.61	qQ				
20+11	0.9554	1.61	qQ				
20+12	0.9551	1.61	qQ				
20+13	0.9547	1.61	Q				
20+14	0.9544	1.61	Q				
20+15	0.9540	1.61	Q				
20+16	0.9537	1.61	Q				
20+17	0.9534	1.61	Q				
20+18	0.9530	1.61	Q				
20+19	0.9527	1.61	Q				
20+20	0.9523	1.61	Q				
20+21	0.9520	1.61	Q				
20+22	0.9517	1.61	Q				
20+23	0.9513	1.61	Q				
20+24	0.9510	1.61	Q				
20+25	0.9506	1.61	Q				
20+26	0.9503	1.61	Q				
20+27	0.9500	1.61	Q				
20+28	0.9496	1.61	Q				
20+29	0.9493	1.60	Q				
20+30	0.9489	1.60	Q				
20+31	0.9486	1.60	Q				
20+32	0.9483	1.60	Q				
20+33	0.9479	1.60	Q				
20+34	0.9476	1.60	Q				
20+35	0.9472	1.60	Q				
20+36	0.9469	1.60	Q				

20+37	0.9465	1.60	Q				
20+38	0.9462	1.60	Q				
20+39	0.9459	1.60	Q				
20+40	0.9455	1.60	Q				
20+41	0.9452	1.60	Q				
20+42	0.9448	1.60	Q				
20+43	0.9445	1.60	Q				
20+44	0.9441	1.60	Q				
20+45	0.9438	1.60	Q				
20+46	0.9435	1.60	Q				
20+47	0.9431	1.59	Q				
20+48	0.9428	1.59	Q				
20+49	0.9424	1.59	Q				
20+50	0.9421	1.59	Q				
20+51	0.9417	1.59	Q				
20+52	0.9414	1.59	Q				
20+53	0.9410	1.59	Q				
20+54	0.9407	1.59	Q				
20+55	0.9404	1.59	Q				
20+56	0.9400	1.59	Q				
20+57	0.9397	1.59	Q				
20+58	0.9393	1.59	Q				
20+59	0.9390	1.59	Q				
21+ 0	0.9386	1.59	Q				
21+ 1	0.9383	1.59	Q				
21+ 2	0.9379	1.59	Q				
21+ 3	0.9376	1.59	Q				
21+ 4	0.9373	1.58	Q				
21+ 5	0.9369	1.58	Q				
21+ 6	0.9366	1.58	Q				
21+ 7	0.9362	1.58	Q				
21+ 8	0.9359	1.58	Q				
21+ 9	0.9350	1.58	Q				
21+10	0.9338	1.58	Q				
21+11	0.9326	1.58	Q				
21+12	0.9315	1.58	Q				
21+13	0.9303	1.57	Q				
21+14	0.9291	1.57	Q				
21+15	0.9280	1.57	Q				
21+16	0.9268	1.57	Q				
21+17	0.9257	1.57	Q				
21+18	0.9245	1.56	Q				
21+19	0.9233	1.56	Q				
21+20	0.9222	1.56	Q				
21+21	0.9210	1.56	Q				
21+22	0.9199	1.56	Q				
21+23	0.9187	1.56	Q				
21+24	0.9175	1.55	Q				
21+25	0.9164	1.55	Q				
21+26	0.9152	1.55	Q				
21+27	0.9141	1.55	Q				
21+28	0.9129	1.55	Q				
21+29	0.9118	1.54	Q				
21+30	0.9106	1.54	Q				
21+31	0.9095	1.54	Q				
21+32	0.9083	1.54	Q				
21+33	0.9072	1.54	Q				
21+34	0.9060	1.53	Q				
21+35	0.9049	1.53	Q				
21+36	0.9038	1.53	Q				
21+37	0.9026	1.53	Q				
21+38	0.9015	1.53	Q				
21+39	0.9003	1.53	Q				
21+40	0.8992	1.52	Q				
21+41	0.8980	1.52	Q				
21+42	0.8969	1.52	Q				
21+43	0.8958	1.52	Q				
21+44	0.8946	1.52	Q				
21+45	0.8935	1.51	Q				
21+46	0.8924	1.51	Q				
21+47	0.8912	1.51	Q				

21+48	0.8901	1.51	Q				
21+49	0.8890	1.51	Q				
21+50	0.8878	1.51	Q				
21+51	0.8867	1.50	Q				
21+52	0.8856	1.50	Q				
21+53	0.8844	1.50	Q				
21+54	0.8833	1.50	Q				
21+55	0.8822	1.50	Q				
21+56	0.8811	1.49	Q				
21+57	0.8799	1.49	Q				
21+58	0.8788	1.49	Q				
21+59	0.8777	1.49	Q				
22+ 0	0.8766	1.49	Q				
22+ 1	0.8755	1.49	Q				
22+ 2	0.8743	1.48	Q				
22+ 3	0.8732	1.48	Q				
22+ 4	0.8721	1.48	Q				
22+ 5	0.8710	1.48	Q				
22+ 6	0.8699	1.48	Q				
22+ 7	0.8688	1.47	Q				
22+ 8	0.8676	1.47	Q				
22+ 9	0.8665	1.47	Q				
22+10	0.8654	1.47	Q				
22+11	0.8643	1.47	Q				
22+12	0.8632	1.47	Q				
22+13	0.8621	1.46	Q				
22+14	0.8610	1.46	Q				
22+15	0.8599	1.46	Q				
22+16	0.8588	1.46	Q				
22+17	0.8577	1.46	Q				
22+18	0.8566	1.45	Q				
22+19	0.8555	1.45	Q				
22+20	0.8544	1.45	Q				
22+21	0.8533	1.45	Q				
22+22	0.8522	1.45	Q				
22+23	0.8511	1.45	Q				
22+24	0.8500	1.44	Q				
22+25	0.8489	1.44	Q				
22+26	0.8478	1.44	Q				
22+27	0.8467	1.44	Q				
22+28	0.8456	1.44	Q				
22+29	0.8445	1.44	Q				
22+30	0.8434	1.43	Q				
22+31	0.8423	1.43	Q				
22+32	0.8412	1.43	Q				
22+33	0.8402	1.43	Q				
22+34	0.8391	1.43	Q				
22+35	0.8380	1.42	Q				
22+36	0.8369	1.42	Q				
22+37	0.8362	1.42	Q				
22+38	0.8355	1.42	Q				
22+39	0.8349	1.42	Q				
22+40	0.8342	1.42	Q				
22+41	0.8336	1.42	Q				
22+42	0.8330	1.42	Q				
22+43	0.8323	1.42	Q				
22+44	0.8317	1.41	Q				
22+45	0.8311	1.41	Q				
22+46	0.8304	1.41	Q				
22+47	0.8298	1.41	Q				
22+48	0.8292	1.41	Q				
22+49	0.8285	1.41	Q				
22+50	0.8279	1.41	Q				
22+51	0.8273	1.41	Q				
22+52	0.8266	1.41	Q				
22+53	0.8260	1.41	Q				
22+54	0.8254	1.40	Q				
22+55	0.8247	1.40	Q				
22+56	0.8241	1.40	Q				
22+57	0.8235	1.40	Q				
22+58	0.8228	1.40	Q				

22+59	0.8222	1.40	Q				
23+ 0	0.8216	1.40	Q				
23+ 1	0.8209	1.40	Q				
23+ 2	0.8203	1.40	Q				
23+ 3	0.8197	1.40	Q				
23+ 4	0.8191	1.39	Q				
23+ 5	0.8184	1.39	Q				
23+ 6	0.8178	1.39	Q				
23+ 7	0.8172	1.39	Q				
23+ 8	0.8165	1.39	Q				
23+ 9	0.8159	1.39	Q				
23+10	0.8153	1.39	Q				
23+11	0.8147	1.39	Q				
23+12	0.8140	1.39	Q				
23+13	0.8134	1.38	Q				
23+14	0.8128	1.38	Q				
23+15	0.8121	1.38	Q				
23+16	0.8115	1.38	Q				
23+17	0.8109	1.38	Q				
23+18	0.8103	1.38	Q				
23+19	0.8096	1.38	Q				
23+20	0.8090	1.38	Q				
23+21	0.8084	1.38	Q				
23+22	0.8078	1.38	Q				
23+23	0.8072	1.37	Q				
23+24	0.8065	1.37	Q				
23+25	0.8059	1.37	Q				
23+26	0.8053	1.37	Q				
23+27	0.8047	1.37	Q				
23+28	0.8040	1.37	Q				
23+29	0.8034	1.37	Q				
23+30	0.8028	1.37	Q				
23+31	0.8022	1.37	Q				
23+32	0.8016	1.37	Q				
23+33	0.8009	1.36	Q				
23+34	0.8003	1.36	Q				
23+35	0.7997	1.36	Q				
23+36	0.7991	1.36	Q				
23+37	0.7985	1.36	Q				
23+38	0.7978	1.36	Q				
23+39	0.7972	1.36	Q				
23+40	0.7966	1.36	Q				
23+41	0.7960	1.36	Q				
23+42	0.7954	1.36	Q				
23+43	0.7947	1.35	Q				
23+44	0.7941	1.35	Q				
23+45	0.7935	1.35	Q				
23+46	0.7929	1.35	Q				
23+47	0.7923	1.35	Q				
23+48	0.7917	1.35	Q				
23+49	0.7911	1.35	Q				
23+50	0.7904	1.35	Q				
23+51	0.7898	1.35	Q				
23+52	0.7892	1.35	Q				
23+53	0.7886	1.34	Q				
23+54	0.7880	1.34	Q				
23+55	0.7874	1.34	Q				
23+56	0.7868	1.34	Q				
23+57	0.7861	1.34	Q				
23+58	0.7855	1.34	Q				
23+59	0.7849	1.34	Q				
24+ 0	0.7843	1.34	Q				
24+ 1	0.7837	1.34	Q				
24+ 2	0.7831	1.34	Q				
24+ 3	0.7825	1.33	Q				
24+ 4	0.7819	1.33	Q				
24+ 5	0.7813	1.33	Q				
24+ 6	0.7806	1.33	Q				
24+ 7	0.7800	1.33	Q				
24+ 8	0.7794	1.33	Q				
24+ 9	0.7788	1.33	Q				

24+10	0.7782	1.33	Q				
24+11	0.7776	1.33	Q				
24+12	0.7770	1.33	Q				
24+13	0.7764	1.33	Q				
24+14	0.7758	1.32	Q				
24+15	0.7752	1.32	Q				
24+16	0.7743	1.32	Q				
24+17	0.7721	1.32	Q				
24+18	0.7698	1.31	Q				
24+19	0.7675	1.31	Q				
24+20	0.7652	1.31	Q				
24+21	0.7629	1.30	Q				
24+22	0.7606	1.30	Q				
24+23	0.7583	1.30	Q				
24+24	0.7561	1.29	Q				
24+25	0.7538	1.29	Q				
24+26	0.7516	1.28	Q				
24+27	0.7493	1.28	Q				
24+28	0.7471	1.28	Q				
24+29	0.7448	1.27	Q				
24+30	0.7426	1.27	Q				
24+31	0.7404	1.27	Q				
24+32	0.7382	1.26	Q				
24+33	0.7360	1.26	Q				
24+34	0.7338	1.26	Q				
24+35	0.7316	1.25	Q				
24+36	0.7294	1.25	Q				
24+37	0.7272	1.25	Q				
24+38	0.7250	1.24	Q				
24+39	0.7228	1.24	Q				
24+40	0.7207	1.24	Q				
24+41	0.7185	1.23	Q				
24+42	0.7164	1.23	Q				
24+43	0.7142	1.22	Q				
24+44	0.7121	1.22	Q				
24+45	0.7100	1.22	Q				
24+46	0.7078	1.21	Q				
24+47	0.7057	1.21	Q				
24+48	0.7036	1.21	Q				
24+49	0.7015	1.20	Q				
24+50	0.6994	1.20	Q				
24+51	0.6973	1.20	Q				
24+52	0.6952	1.19	Q				
24+53	0.6931	1.19	Q				
24+54	0.6910	1.19	Q				
24+55	0.6890	1.18	Q				
24+56	0.6869	1.18	Q				
24+57	0.6848	1.18	Q				
24+58	0.6828	1.17	Q				
24+59	0.6807	1.17	Q				
25+ 0	0.6787	1.17	Q				
25+ 1	0.6767	1.16	Q				
25+ 2	0.6746	1.16	Q				
25+ 3	0.6726	1.16	Q				
25+ 4	0.6706	1.15	Q				
25+ 5	0.6686	1.15	Q				
25+ 6	0.6666	1.15	Q				
25+ 7	0.6646	1.14	Q				
25+ 8	0.6613	1.14	Q				
25+ 9	0.6556	1.13	Q				
25+10	0.6498	1.12	Q				
25+11	0.6440	1.11	Q				
25+12	0.6383	1.10	Q				
25+13	0.6326	1.09	Q				
25+14	0.6270	1.08	Q				
25+15	0.6214	1.07	Q				
25+16	0.6159	1.07	Q				
25+17	0.6104	1.06	Q				
25+18	0.6050	1.05	Q				
25+19	0.5996	1.04	Q				
25+20	0.5943	1.03	Q				

25+21	0.5890	1.02	Q				
25+22	0.5838	1.01	Q				
25+23	0.5786	1.01	Q				
25+24	0.5734	1.00	Q				
25+25	0.5683	0.99	Q				
25+26	0.5633	0.98	Q				
25+27	0.5583	0.97	Q				
25+28	0.5533	0.96	Q				
25+29	0.5484	0.96	Q				
25+30	0.5436	0.95	Q				
25+31	0.5387	0.94	Q				
25+32	0.5339	0.93	Q				
25+33	0.5292	0.93	Q				
25+34	0.5245	0.92	Q				
25+35	0.5198	0.91	Q				
25+36	0.5152	0.90	Q				
25+37	0.5107	0.90	Q				
25+38	0.5061	0.89	Q				
25+39	0.5016	0.88	Q				
25+40	0.4972	0.87	Q				
25+41	0.4928	0.87	Q				
25+42	0.4884	0.86	Q				
25+43	0.4841	0.85	Q				
25+44	0.4798	0.85	Q				
25+45	0.4755	0.84	Q				
25+46	0.4713	0.83	Q				
25+47	0.4671	0.83	Q				
25+48	0.4630	0.82	Q				
25+49	0.4589	0.81	Q				
25+50	0.4548	0.81	Q				
25+51	0.4508	0.80	Q				
25+52	0.4468	0.79	Q				
25+53	0.4428	0.79	Q				
25+54	0.4389	0.78	Q				
25+55	0.4350	0.77	Q				
25+56	0.4312	0.77	Q				
25+57	0.4273	0.76	Q				
25+58	0.4235	0.76	Q				
25+59	0.4198	0.75	Q				
26+ 0	0.4161	0.74	Q				
26+ 1	0.4124	0.74	Q				
26+ 2	0.4087	0.73	Q				
26+ 3	0.4051	0.73	Q				
26+ 4	0.4015	0.72	Q				
26+ 5	0.3980	0.71	Q				
26+ 6	0.3945	0.71	Q				
26+ 7	0.3910	0.70	Q				
26+ 8	0.3875	0.70	Q				
26+ 9	0.3841	0.69	Q				
26+10	0.3807	0.69	Q				
26+11	0.3773	0.68	Q				
26+12	0.3740	0.68	Q				
26+13	0.3707	0.67	Q				
26+14	0.3674	0.66	Q				
26+15	0.3641	0.66	Q				
26+16	0.3609	0.65	Q				
26+17	0.3577	0.65	Q				
26+18	0.3546	0.64	Q				
26+19	0.3514	0.64	Q				
26+20	0.3483	0.63	Q				
26+21	0.3452	0.63	Q				
26+22	0.3422	0.62	Q				
26+23	0.3392	0.62	Q				
26+24	0.3362	0.61	Q				
26+25	0.3332	0.61	Q				
26+26	0.3303	0.60	Q				
26+27	0.3273	0.60	Q				
26+28	0.3245	0.60	Q				
26+29	0.3216	0.59	Q				
26+30	0.3187	0.59	Q				
26+31	0.3159	0.58	Q				

26+32	0.3131	0.58	Q				
26+33	0.3104	0.57	Q				
26+34	0.3076	0.57	Q				
26+35	0.3049	0.56	Q				
26+36	0.3022	0.56	Q				
26+37	0.2996	0.56	Q				
26+38	0.2969	0.55	Q				
26+39	0.2943	0.55	Q				
26+40	0.2917	0.54	Q				
26+41	0.2891	0.54	Q				
26+42	0.2866	0.53	Q				
26+43	0.2841	0.53	Q				
26+44	0.2816	0.53	Q				
26+45	0.2791	0.52	Q				
26+46	0.2766	0.52	Q				
26+47	0.2742	0.51	Q				
26+48	0.2718	0.51	Q				
26+49	0.2694	0.51	Q				
26+50	0.2670	0.50	Q				
26+51	0.2646	0.50	Q				
26+52	0.2623	0.50	Q				
26+53	0.2600	0.49	Q				
26+54	0.2577	0.49	Q				
26+55	0.2554	0.48	Q				
26+56	0.2532	0.48	Q				
26+57	0.2510	0.48	Q				
26+58	0.2487	0.47	Q				
26+59	0.2466	0.47	Q				
27+ 0	0.2444	0.47	Q				
27+ 1	0.2422	0.46	Q				
27+ 2	0.2401	0.46	Q				
27+ 3	0.2380	0.46	Q				
27+ 4	0.2359	0.45	Q				
27+ 5	0.2338	0.45	Q				
27+ 6	0.2318	0.45	Q				
27+ 7	0.2297	0.44	Q				
27+ 8	0.2277	0.44	Q				
27+ 9	0.2257	0.44	Q				
27+10	0.2237	0.43	Q				
27+11	0.2217	0.43	Q				
27+12	0.2198	0.43	Q				
27+13	0.2179	0.42	Q				
27+14	0.2160	0.42	Q				
27+15	0.2141	0.42	Q				
27+16	0.2122	0.41	Q				
27+17	0.2103	0.41	Q				
27+18	0.2085	0.41	Q				
27+19	0.2066	0.41	Q				
27+20	0.2048	0.40	Q				
27+21	0.2030	0.40	Q				
27+22	0.2012	0.40	Q				
27+23	0.1995	0.39	Q				
27+24	0.1977	0.39	Q				
27+25	0.1960	0.39	Q				
27+26	0.1943	0.39	Q				
27+27	0.1926	0.38	Q				
27+28	0.1909	0.38	Q				
27+29	0.1892	0.38	Q				
27+30	0.1875	0.37	Q				
27+31	0.1859	0.37	Q				
27+32	0.1843	0.37	Q				
27+33	0.1826	0.37	Q				
27+34	0.1810	0.36	Q				
27+35	0.1795	0.36	Q				
27+36	0.1779	0.36	Q				
27+37	0.1763	0.36	Q				
27+38	0.1748	0.35	Q				
27+39	0.1732	0.35	Q				
27+40	0.1717	0.35	Q				
27+41	0.1702	0.35	Q				
27+42	0.1687	0.34	Q				

27+43	0.1673	0.34	Q				
27+44	0.1658	0.34	Q				
27+45	0.1643	0.34	Q				
27+46	0.1629	0.33	Q				
27+47	0.1615	0.33	Q				
27+48	0.1601	0.33	Q				
27+49	0.1587	0.33	Q				
27+50	0.1573	0.33	Q				
27+51	0.1559	0.32	Q				
27+52	0.1545	0.32	Q				
27+53	0.1532	0.32	Q				
27+54	0.1518	0.32	Q				
27+55	0.1505	0.31	Q				
27+56	0.1492	0.31	Q				
27+57	0.1479	0.31	Q				
27+58	0.1466	0.31	Q				
27+59	0.1453	0.31	Q				
28+ 0	0.1440	0.30	Q				
28+ 1	0.1428	0.30	Q				
28+ 2	0.1415	0.30	Q				
28+ 3	0.1403	0.30	Q				
28+ 4	0.1391	0.30	Q				
28+ 5	0.1379	0.29	Q				
28+ 6	0.1367	0.29	Q				
28+ 7	0.1355	0.29	Q				
28+ 8	0.1343	0.29	Q				
28+ 9	0.1331	0.29	Q				
28+10	0.1319	0.28	Q				
28+11	0.1308	0.28	Q				
28+12	0.1297	0.28	Q				
28+13	0.1285	0.28	Q				
28+14	0.1274	0.28	Q				
28+15	0.1263	0.28	Q				
28+16	0.1252	0.27	Q				
28+17	0.1241	0.27	Q				
28+18	0.1230	0.27	Q				
28+19	0.1219	0.27	Q				
28+20	0.1209	0.27	Q				
28+21	0.1198	0.27	Q				
28+22	0.1188	0.26	Q				
28+23	0.1177	0.26	Q				
28+24	0.1167	0.26	Q				
28+25	0.1157	0.26	Q				
28+26	0.1147	0.26	Q				
28+27	0.1137	0.26	Q				
28+28	0.1127	0.25	Q				
28+29	0.1117	0.25	Q				
28+30	0.1108	0.25	Q				
28+31	0.1098	0.25	Q				
28+32	0.1088	0.25	Q				
28+33	0.1079	0.25	Q				
28+34	0.1069	0.24	Q				
28+35	0.1060	0.24	Q				
28+36	0.1051	0.24	Q				
28+37	0.1042	0.24	Q				
28+38	0.1033	0.24	Q				
28+39	0.1024	0.24	Q				
28+40	0.1015	0.24	Q				
28+41	0.1006	0.23	Q				
28+42	0.0997	0.23	Q				
28+43	0.0989	0.23	Q				
28+44	0.0980	0.23	Q				
28+45	0.0972	0.23	Q				
28+46	0.0963	0.23	Q				
28+47	0.0955	0.23	Q				
28+48	0.0946	0.22	Q				
28+49	0.0938	0.22	Q				
28+50	0.0930	0.22	Q				
28+51	0.0922	0.22	Q				
28+52	0.0914	0.22	Q				
28+53	0.0906	0.22	Q				

28+54	0.0898	0.22	Q				
28+55	0.0890	0.22	Q				
28+56	0.0883	0.21	Q				
28+57	0.0875	0.21	Q				
28+58	0.0867	0.21	Q				
28+59	0.0860	0.21	Q				
29+ 0	0.0852	0.21	Q				
29+ 1	0.0845	0.21	Q				
29+ 2	0.0838	0.21	Q				
29+ 3	0.0830	0.21	Q				
29+ 4	0.0823	0.20	Q				
29+ 5	0.0816	0.20	Q				
29+ 6	0.0809	0.20	Q				
29+ 7	0.0802	0.20	Q				
29+ 8	0.0795	0.20	Q				
29+ 9	0.0788	0.20	Q				
29+10	0.0781	0.20	Q				
29+11	0.0775	0.20	Q				
29+12	0.0768	0.20	Q				
29+13	0.0761	0.19	Q				
29+14	0.0755	0.19	Q				
29+15	0.0748	0.19	Q				
29+16	0.0742	0.19	Q				
29+17	0.0735	0.19	Q				
29+18	0.0729	0.19	Q				
29+19	0.0723	0.19	Q				
29+20	0.0716	0.19	Q				
29+21	0.0710	0.19	Q				
29+22	0.0704	0.19	Q				
29+23	0.0698	0.18	Q				
29+24	0.0692	0.18	Q				
29+25	0.0686	0.18	Q				
29+26	0.0680	0.18	Q				
29+27	0.0674	0.18	Q				
29+28	0.0668	0.18	Q				
29+29	0.0663	0.18	Q				
29+30	0.0657	0.18	Q				
29+31	0.0651	0.18	Q				
29+32	0.0646	0.18	Q				
29+33	0.0640	0.17	Q				
29+34	0.0635	0.17	Q				
29+35	0.0629	0.17	Q				
29+36	0.0624	0.17	Q				
29+37	0.0618	0.17	Q				
29+38	0.0613	0.17	Q				
29+39	0.0608	0.17	Q				
29+40	0.0602	0.17	Q				
29+41	0.0597	0.17	Q				
29+42	0.0592	0.17	Q				
29+43	0.0587	0.17	Q				
29+44	0.0582	0.17	Q				
29+45	0.0577	0.16	Q				
29+46	0.0572	0.16	Q				
29+47	0.0567	0.16	Q				
29+48	0.0562	0.16	Q				
29+49	0.0557	0.16	Q				
29+50	0.0552	0.16	Q				
29+51	0.0548	0.16	Q				
29+52	0.0543	0.16	Q				
29+53	0.0538	0.16	Q				
29+54	0.0534	0.16	Q				
29+55	0.0529	0.16	Q				
29+56	0.0525	0.16	Q				
29+57	0.0520	0.16	Q				
29+58	0.0516	0.15	Q				
29+59	0.0511	0.15	Q				
30+ 0	0.0507	0.15	Q				
30+ 1	0.0502	0.15	Q				
30+ 2	0.0498	0.15	Q				
30+ 3	0.0494	0.15	Q				
30+ 4	0.0490	0.15	Q				

30+ 5	0.0485	0.15	Q				
30+ 6	0.0481	0.15	Q				
30+ 7	0.0477	0.15	Q				
30+ 8	0.0473	0.15	Q				
30+ 9	0.0469	0.15	Q				
30+10	0.0465	0.15	Q				
30+11	0.0461	0.15	Q				
30+12	0.0457	0.15	Q				
30+13	0.0453	0.14	Q				
30+14	0.0449	0.14	Q				
30+15	0.0445	0.14	Q				
30+16	0.0442	0.14	Q				
30+17	0.0438	0.14	Q				
30+18	0.0434	0.14	Q				
30+19	0.0430	0.14	Q				
30+20	0.0427	0.14	Q				
30+21	0.0423	0.14	Q				
30+22	0.0419	0.14	Q				
30+23	0.0416	0.14	Q				
30+24	0.0412	0.14	Q				
30+25	0.0409	0.14	Q				
30+26	0.0405	0.14	Q				
30+27	0.0402	0.14	Q				
30+28	0.0398	0.14	Q				
30+29	0.0395	0.14	Q				
30+30	0.0391	0.13	Q				
30+31	0.0388	0.13	Q				
30+32	0.0385	0.13	Q				
30+33	0.0382	0.13	Q				
30+34	0.0378	0.13	Q				
30+35	0.0375	0.13	Q				
30+36	0.0372	0.13	Q				
30+37	0.0369	0.13	Q				
30+38	0.0366	0.13	Q				
30+39	0.0362	0.13	Q				
30+40	0.0359	0.13	Q				
30+41	0.0356	0.13	Q				
30+42	0.0353	0.13	Q				
30+43	0.0350	0.13	Q				
30+44	0.0347	0.13	Q				
30+45	0.0344	0.13	Q				
30+46	0.0341	0.13	Q				
30+47	0.0338	0.13	Q				
30+48	0.0336	0.13	Q				
30+49	0.0333	0.13	Q				
30+50	0.0330	0.12	Q				
30+51	0.0327	0.12	Q				
30+52	0.0324	0.12	Q				
30+53	0.0321	0.12	Q				
30+54	0.0319	0.12	Q				
30+55	0.0316	0.12	Q				
30+56	0.0313	0.12	Q				
30+57	0.0311	0.12	Q				
30+58	0.0308	0.12	Q				
30+59	0.0305	0.12	Q				
31+ 0	0.0303	0.12	Q				
31+ 1	0.0300	0.12	Q				
31+ 2	0.0298	0.12	Q				
31+ 3	0.0295	0.12	Q				
31+ 4	0.0293	0.12	Q				
31+ 5	0.0290	0.12	Q				
31+ 6	0.0288	0.12	Q				
31+ 7	0.0285	0.12	Q				
31+ 8	0.0283	0.12	Q				
31+ 9	0.0280	0.12	Q				
31+10	0.0278	0.12	Q				
31+11	0.0276	0.12	Q				
31+12	0.0273	0.12	Q				
31+13	0.0271	0.12	Q				
31+14	0.0269	0.11	Q				
31+15	0.0266	0.11	Q				

31+16	0.0264	0.11	Q				
31+17	0.0262	0.11	Q				
31+18	0.0260	0.11	Q				
31+19	0.0258	0.11	Q				
31+20	0.0255	0.11	Q				
31+21	0.0253	0.11	Q				
31+22	0.0251	0.11	Q				
31+23	0.0249	0.11	Q				
31+24	0.0247	0.11	Q				
31+25	0.0245	0.11	Q				
31+26	0.0243	0.11	Q				
31+27	0.0241	0.11	Q				
31+28	0.0239	0.11	Q				
31+29	0.0237	0.11	Q				
31+30	0.0235	0.11	Q				
31+31	0.0233	0.11	Q				
31+32	0.0231	0.11	Q				
31+33	0.0229	0.11	Q				
31+34	0.0227	0.11	Q				
31+35	0.0225	0.11	Q				
31+36	0.0223	0.11	Q				
31+37	0.0221	0.11	Q				
31+38	0.0219	0.11	Q				
31+39	0.0217	0.11	Q				
31+40	0.0216	0.11	Q				
31+41	0.0214	0.11	Q				
31+42	0.0212	0.11	Q				
31+43	0.0210	0.11	Q				
31+44	0.0208	0.10	Q				
31+45	0.0207	0.10	Q				
31+46	0.0205	0.10	Q				
31+47	0.0203	0.10	Q				
31+48	0.0201	0.10	Q				
31+49	0.0200	0.10	Q				
31+50	0.0198	0.10	Q				
31+51	0.0196	0.10	Q				
31+52	0.0195	0.10	Q				
31+53	0.0193	0.10	Q				
31+54	0.0191	0.10	Q				
31+55	0.0190	0.10	Q				
31+56	0.0188	0.10	Q				
31+57	0.0187	0.10	Q				
31+58	0.0185	0.10	Q				
31+59	0.0184	0.10	Q				
32+ 0	0.0182	0.10	Q				
32+ 1	0.0180	0.10	Q				
32+ 2	0.0179	0.10	Q				
32+ 3	0.0177	0.10	Q				
32+ 4	0.0176	0.10	Q				
32+ 5	0.0174	0.10	Q				
32+ 6	0.0173	0.10	Q				
32+ 7	0.0172	0.10	Q				
32+ 8	0.0170	0.10	Q				
32+ 9	0.0169	0.10	Q				
32+10	0.0167	0.10	Q				
32+11	0.0166	0.10	Q				
32+12	0.0164	0.10	Q				
32+13	0.0163	0.10	Q				
32+14	0.0162	0.10	Q				
32+15	0.0160	0.10	Q				
32+16	0.0159	0.10	Q				
32+17	0.0158	0.10	Q				
32+18	0.0156	0.10	Q				
32+19	0.0155	0.10	Q				
32+20	0.0154	0.10	Q				
32+21	0.0153	0.10	Q				
32+22	0.0151	0.10	Q				
32+23	0.0150	0.10	Q				
32+24	0.0149	0.10	Q				
32+25	0.0147	0.10	Q				
32+26	0.0146	0.09	Q				

32+27	0.0145	0.09	Q				
32+28	0.0144	0.09	Q				
32+29	0.0143	0.09	Q				
32+30	0.0141	0.09	Q				
32+31	0.0140	0.09	Q				
32+32	0.0139	0.09	Q				
32+33	0.0138	0.09	Q				
32+34	0.0137	0.09	Q				
32+35	0.0136	0.09	Q				
32+36	0.0134	0.09	Q				
32+37	0.0133	0.09	Q				
32+38	0.0132	0.09	Q				
32+39	0.0131	0.09	Q				
32+40	0.0130	0.09	Q				
32+41	0.0129	0.09	Q				
32+42	0.0128	0.09	Q				
32+43	0.0127	0.09	Q				
32+44	0.0126	0.09	Q				
32+45	0.0125	0.09	Q				
32+46	0.0124	0.09	Q				
32+47	0.0123	0.09	Q				
32+48	0.0122	0.09	Q				
32+49	0.0121	0.09	Q				
32+50	0.0120	0.09	Q				
32+51	0.0119	0.09	Q				
32+52	0.0118	0.09	Q				
32+53	0.0117	0.09	Q				
32+54	0.0116	0.09	Q				
32+55	0.0115	0.09	Q				
32+56	0.0114	0.09	Q				
32+57	0.0113	0.09	Q				
32+58	0.0112	0.09	Q				
32+59	0.0111	0.09	Q				
33+ 0	0.0110	0.09	Q				
33+ 1	0.0109	0.09	Q				
33+ 2	0.0108	0.09	Q				
33+ 3	0.0107	0.09	Q				
33+ 4	0.0106	0.09	Q				
33+ 5	0.0106	0.09	Q				
33+ 6	0.0105	0.09	Q				
33+ 7	0.0104	0.09	Q				
33+ 8	0.0103	0.09	Q				
33+ 9	0.0102	0.09	Q				
33+10	0.0101	0.09	Q				
33+11	0.0100	0.09	Q				
33+12	0.0100	0.09	Q				
33+13	0.0099	0.09	Q				
33+14	0.0098	0.09	Q				
33+15	0.0097	0.09	Q				
33+16	0.0096	0.09	Q				
33+17	0.0096	0.09	Q				
33+18	0.0095	0.09	Q				
33+19	0.0094	0.09	Q				
33+20	0.0093	0.09	Q				
33+21	0.0092	0.09	Q				
33+22	0.0092	0.09	Q				
33+23	0.0091	0.09	Q				
33+24	0.0090	0.09	Q				
33+25	0.0089	0.09	Q				
33+26	0.0089	0.09	Q				
33+27	0.0088	0.09	Q				
33+28	0.0087	0.09	Q				
33+29	0.0087	0.09	Q				
33+30	0.0086	0.09	Q				
33+31	0.0085	0.08	Q				
33+32	0.0084	0.08	Q				
33+33	0.0084	0.08	Q				
33+34	0.0083	0.08	Q				
33+35	0.0082	0.08	Q				
33+36	0.0082	0.08	Q				
33+37	0.0081	0.08	Q				

33+38	0.0080	0.08	Q				
33+39	0.0080	0.08	Q				
33+40	0.0079	0.08	Q				
33+41	0.0078	0.08	Q				
33+42	0.0078	0.08	Q				
33+43	0.0077	0.08	Q				
33+44	0.0076	0.08	Q				
33+45	0.0076	0.08	Q				
33+46	0.0075	0.08	Q				
33+47	0.0075	0.08	Q				
33+48	0.0074	0.08	Q				
33+49	0.0073	0.08	Q				
33+50	0.0073	0.08	Q				
33+51	0.0072	0.08	Q				
33+52	0.0071	0.08	Q				
33+53	0.0071	0.08	Q				
33+54	0.0070	0.08	Q				
33+55	0.0069	0.08	Q				
33+56	0.0069	0.08	Q				
33+57	0.0068	0.08	Q				
33+58	0.0067	0.08	Q				
33+59	0.0067	0.08	Q				
34+ 0	0.0066	0.08	Q				
34+ 1	0.0066	0.08	Q				
34+ 2	0.0065	0.08	Q				
34+ 3	0.0064	0.08	Q				
34+ 4	0.0064	0.08	Q				
34+ 5	0.0063	0.08	Q				
34+ 6	0.0063	0.08	Q				
34+ 7	0.0062	0.08	Q				
34+ 8	0.0062	0.08	Q				
34+ 9	0.0061	0.08	Q				
34+10	0.0060	0.08	Q				
34+11	0.0060	0.08	Q				
34+12	0.0059	0.08	Q				
34+13	0.0059	0.08	Q				
34+14	0.0058	0.08	Q				
34+15	0.0058	0.08	Q				
34+16	0.0057	0.08	Q				
34+17	0.0057	0.08	Q				
34+18	0.0056	0.08	Q				
34+19	0.0056	0.08	Q				
34+20	0.0055	0.08	Q				
34+21	0.0055	0.08	Q				
34+22	0.0054	0.08	Q				
34+23	0.0054	0.08	Q				
34+24	0.0053	0.08	Q				
34+25	0.0053	0.08	Q				
34+26	0.0052	0.08	Q				
34+27	0.0052	0.08	Q				
34+28	0.0051	0.08	Q				
34+29	0.0051	0.08	Q				
34+30	0.0050	0.08	Q				
34+31	0.0050	0.08	Q				
34+32	0.0049	0.08	Q				
34+33	0.0049	0.08	Q				
34+34	0.0048	0.08	Q				
34+35	0.0048	0.08	Q				
34+36	0.0048	0.08	Q				
34+37	0.0047	0.08	Q				
34+38	0.0047	0.08	Q				
34+39	0.0046	0.08	Q				
34+40	0.0046	0.08	Q				
34+41	0.0045	0.08	Q				
34+42	0.0045	0.08	Q				
34+43	0.0045	0.08	Q				
34+44	0.0044	0.08	Q				
34+45	0.0044	0.08	Q				
34+46	0.0043	0.08	Q				
34+47	0.0043	0.08	Q				
34+48	0.0043	0.08	Q				

34+49	0.0042	0.08	Q				
34+50	0.0042	0.08	Q				
34+51	0.0041	0.08	Q				
34+52	0.0041	0.08	Q				
34+53	0.0041	0.08	Q				
34+54	0.0040	0.08	Q				
34+55	0.0040	0.08	Q				
34+56	0.0040	0.08	Q				
34+57	0.0039	0.08	Q				
34+58	0.0039	0.08	Q				
34+59	0.0038	0.08	Q				
35+ 0	0.0038	0.08	Q				
35+ 1	0.0038	0.08	Q				
35+ 2	0.0037	0.08	Q				
35+ 3	0.0037	0.08	Q				
35+ 4	0.0037	0.08	Q				
35+ 5	0.0036	0.08	Q				
35+ 6	0.0036	0.08	Q				
35+ 7	0.0036	0.08	Q				
35+ 8	0.0035	0.08	Q				
35+ 9	0.0035	0.08	Q				
35+10	0.0035	0.08	Q				
35+11	0.0034	0.08	Q				
35+12	0.0034	0.08	Q				
35+13	0.0034	0.08	Q				
35+14	0.0034	0.08	Q				
35+15	0.0033	0.08	Q				
35+16	0.0033	0.08	Q				
35+17	0.0033	0.08	Q				
35+18	0.0032	0.08	Q				
35+19	0.0032	0.08	Q				
35+20	0.0032	0.08	Q				
35+21	0.0031	0.08	Q				
35+22	0.0031	0.08	Q				
35+23	0.0031	0.08	Q				
35+24	0.0031	0.08	Q				
35+25	0.0030	0.08	Q				
35+26	0.0030	0.08	Q				
35+27	0.0030	0.08	Q				
35+28	0.0029	0.08	Q				
35+29	0.0029	0.08	Q				
35+30	0.0029	0.08	Q				
35+31	0.0029	0.08	Q				
35+32	0.0028	0.08	Q				
35+33	0.0028	0.08	Q				
35+34	0.0028	0.08	Q				
35+35	0.0028	0.08	Q				
35+36	0.0027	0.08	Q				
35+37	0.0027	0.08	Q				
35+38	0.0027	0.08	Q				
35+39	0.0027	0.08	Q				
35+40	0.0026	0.08	Q				
35+41	0.0026	0.08	Q				
35+42	0.0026	0.08	Q				
35+43	0.0026	0.08	Q				
35+44	0.0025	0.08	Q				
35+45	0.0025	0.07	Q				
35+46	0.0025	0.07	Q				
35+47	0.0025	0.07	Q				
35+48	0.0024	0.07	Q				
35+49	0.0024	0.07	Q				
35+50	0.0024	0.07	Q				
35+51	0.0024	0.07	Q				
35+52	0.0024	0.07	Q				
35+53	0.0023	0.07	Q				
35+54	0.0023	0.07	Q				
35+55	0.0023	0.07	Q				
35+56	0.0023	0.07	Q				
35+57	0.0023	0.07	Q				
35+58	0.0022	0.07	Q				
35+59	0.0022	0.07	Q				

36+ 0	0.0022	0.07	Q				
36+ 1	0.0022	0.07	Q				
36+ 2	0.0022	0.07	Q				
36+ 3	0.0021	0.07	Q				
36+ 4	0.0021	0.07	Q				
36+ 5	0.0021	0.07	Q				
36+ 6	0.0021	0.07	Q				
36+ 7	0.0021	0.07	Q				
36+ 8	0.0020	0.07	Q				
36+ 9	0.0020	0.07	Q				
36+10	0.0020	0.07	Q				
36+11	0.0020	0.07	Q				
36+12	0.0020	0.07	Q				
36+13	0.0019	0.07	Q				
36+14	0.0019	0.07	Q				
36+15	0.0019	0.07	Q				
36+16	0.0019	0.07	Q				
36+17	0.0019	0.07	Q				
36+18	0.0019	0.07	Q				
36+19	0.0018	0.07	Q				
36+20	0.0018	0.07	Q				
36+21	0.0018	0.07	Q				
36+22	0.0018	0.07	Q				
36+23	0.0018	0.07	Q				
36+24	0.0018	0.07	Q				
36+25	0.0017	0.07	Q				
36+26	0.0017	0.07	Q				
36+27	0.0017	0.07	Q				
36+28	0.0017	0.07	Q				
36+29	0.0017	0.07	Q				
36+30	0.0017	0.07	Q				
36+31	0.0016	0.07	Q				
36+32	0.0016	0.07	Q				
36+33	0.0016	0.07	Q				
36+34	0.0016	0.07	Q				
36+35	0.0016	0.07	Q				
36+36	0.0016	0.07	Q				
36+37	0.0016	0.07	Q				
36+38	0.0015	0.07	Q				
36+39	0.0015	0.07	Q				
36+40	0.0015	0.07	Q				
36+41	0.0015	0.07	Q				
36+42	0.0015	0.07	Q				
36+43	0.0015	0.07	Q				
36+44	0.0015	0.07	Q				
36+45	0.0014	0.07	Q				
36+46	0.0014	0.07	Q				
36+47	0.0014	0.07	Q				
36+48	0.0014	0.07	Q				
36+49	0.0014	0.07	Q				
36+50	0.0014	0.07	Q				
36+51	0.0014	0.07	Q				
36+52	0.0014	0.07	Q				
36+53	0.0013	0.07	Q				
36+54	0.0013	0.07	Q				
36+55	0.0013	0.07	Q				
36+56	0.0013	0.07	Q				
36+57	0.0013	0.07	Q				
36+58	0.0013	0.07	Q				
36+59	0.0013	0.07	Q				
37+ 0	0.0013	0.07	Q				
37+ 1	0.0013	0.07	Q				
37+ 2	0.0012	0.07	Q				
37+ 3	0.0012	0.07	Q				
37+ 4	0.0012	0.07	Q				
37+ 5	0.0012	0.07	Q				
37+ 6	0.0012	0.07	Q				
37+ 7	0.0012	0.07	Q				
37+ 8	0.0012	0.07	Q				
37+ 9	0.0012	0.07	Q				
37+10	0.0012	0.07	Q				

37+11	0.0011	0.07	Q				
37+12	0.0011	0.07	Q				
37+13	0.0011	0.07	Q				
37+14	0.0011	0.07	Q				
37+15	0.0011	0.07	Q				
37+16	0.0011	0.07	Q				
37+17	0.0011	0.07	Q				
37+18	0.0011	0.07	Q				
37+19	0.0011	0.07	Q				
37+20	0.0010	0.07	Q				
37+21	0.0010	0.07	Q				
37+22	0.0010	0.07	Q				
37+23	0.0010	0.07	Q				
37+24	0.0010	0.07	Q				
37+25	0.0010	0.07	Q				
37+26	0.0010	0.07	Q				
37+27	0.0010	0.07	Q				
37+28	0.0010	0.07	Q				
37+29	0.0010	0.07	Q				
37+30	0.0010	0.07	Q				
37+31	0.0009	0.07	Q				
37+32	0.0009	0.07	Q				
37+33	0.0009	0.07	Q				
37+34	0.0009	0.07	Q				
37+35	0.0009	0.07	Q				
37+36	0.0009	0.07	Q				
37+37	0.0009	0.07	Q				
37+38	0.0009	0.07	Q				
37+39	0.0009	0.07	Q				
37+40	0.0009	0.07	Q				
37+41	0.0009	0.07	Q				
37+42	0.0009	0.07	Q				
37+43	0.0008	0.07	Q				
37+44	0.0008	0.07	Q				
37+45	0.0008	0.07	Q				
37+46	0.0008	0.07	Q				
37+47	0.0008	0.07	Q				
37+48	0.0008	0.07	Q				
37+49	0.0008	0.07	Q				
37+50	0.0008	0.07	Q				
37+51	0.0008	0.07	Q				
37+52	0.0008	0.07	Q				
37+53	0.0008	0.07	Q				
37+54	0.0008	0.07	Q				
37+55	0.0008	0.07	Q				
37+56	0.0008	0.07	Q				
37+57	0.0007	0.07	Q				
37+58	0.0007	0.07	Q				
37+59	0.0007	0.07	Q				
38+ 0	0.0007	0.07	Q				
38+ 1	0.0007	0.07	Q				
38+ 2	0.0007	0.07	Q				
38+ 3	0.0007	0.07	Q				
38+ 4	0.0007	0.07	Q				
38+ 5	0.0007	0.07	Q				
38+ 6	0.0007	0.07	Q				
38+ 7	0.0007	0.07	Q				
38+ 8	0.0007	0.07	Q				
38+ 9	0.0007	0.07	Q				
38+10	0.0007	0.07	Q				
38+11	0.0000	0.07	Q				
38+12	0.0000	0.07	Q				
38+13	0.0000	0.07	Q				
38+14	0.0000	0.07	Q				
38+15	0.0000	0.07	Q				
38+16	0.0000	0.07	Q				
38+17	0.0000	0.07	Q				
38+18	0.0000	0.07	Q				
38+19	0.0000	0.07	Q				
38+20	0.0000	0.07	Q				
38+21	0.0000	0.07	Q				

43+ 6	0.0000	0.07	Q				
43+ 7	0.0000	0.07	Q				
43+ 8	0.0000	0.07	Q				
43+ 9	0.0000	0.07	Q				
43+10	0.0000	0.07	Q				
43+11	0.0000	0.07	Q				
43+12	0.0000	0.07	Q				
43+13	0.0000	0.07	Q				
43+14	0.0000	0.07	Q				
43+15	0.0000	0.07	Q				
43+16	0.0000	0.07	Q				
43+17	0.0000	0.07	Q				
43+18	0.0000	0.07	Q				
43+19	0.0000	0.07	Q				
43+20	0.0000	0.07	Q				
43+21	0.0000	0.07	Q				
43+22	0.0000	0.07	Q				
43+23	0.0000	0.07	Q				
43+24	0.0000	0.07	Q				
43+25	0.0000	0.07	Q				
43+26	0.0000	0.07	Q				
43+27	0.0000	0.07	Q				
43+28	0.0000	0.07	Q				
43+29	0.0000	0.07	Q				
43+30	0.0000	0.07	Q				
43+31	0.0000	0.07	Q				
43+32	0.0000	0.07	Q				
43+33	0.0000	0.07	Q				
43+34	0.0000	0.07	Q				
43+35	0.0000	0.07	Q				
43+36	0.0000	0.07	Q				
43+37	0.0000	0.07	Q				
43+38	0.0000	0.07	Q				
43+39	0.0000	0.07	Q				
43+40	0.0000	0.07	Q				
43+41	0.0000	0.07	Q				
43+42	0.0000	0.07	Q				
43+43	0.0000	0.07	Q				
43+44	0.0000	0.07	Q				
43+45	0.0000	0.07	Q				
43+46	0.0000	0.07	Q				
43+47	0.0000	0.07	Q				
43+48	0.0000	0.07	Q				
43+49	0.0000	0.07	Q				
43+50	0.0000	0.07	Q				
43+51	0.0000	0.07	Q				
43+52	0.0000	0.07	Q				
43+53	0.0000	0.07	Q				
43+54	0.0000	0.07	Q				
43+55	0.0000	0.07	Q				
43+56	0.0000	0.07	Q				
43+57	0.0000	0.07	Q				
43+58	0.0000	0.07	Q				
43+59	0.0000	0.07	Q				
44+ 0	0.0000	0.07	Q				
44+ 1	0.0000	0.07	Q				
44+ 2	0.0000	0.07	Q				
44+ 3	0.0000	0.07	Q				
44+ 4	0.0000	0.07	Q				
44+ 5	0.0000	0.07	Q				
44+ 6	0.0000	0.07	Q				
44+ 7	0.0000	0.07	Q				
44+ 8	0.0000	0.07	Q				
44+ 9	0.0000	0.07	Q				
44+10	0.0000	0.07	Q				
44+11	0.0000	0.07	Q				
44+12	0.0000	0.07	Q				
44+13	0.0000	0.07	Q				
44+14	0.0000	0.07	Q				
44+15	0.0000	0.07	Q				
44+16	0.0000	0.07	Q				

44+17	0.0000	0.07	Q				
44+18	0.0000	0.07	Q				
44+19	0.0000	0.07	Q				
44+20	0.0000	0.07	Q				
44+21	0.0000	0.07	Q				
44+22	0.0000	0.07	Q				
44+23	0.0000	0.07	Q				
44+24	0.0000	0.07	Q				
44+25	0.0000	0.07	Q				
44+26	0.0000	0.07	Q				
44+27	0.0000	0.07	Q				
44+28	0.0000	0.07	Q				
44+29	0.0000	0.07	Q				
44+30	0.0000	0.07	Q				
44+31	0.0000	0.07	Q				
44+32	0.0000	0.07	Q				
44+33	0.0000	0.07	Q				
44+34	0.0000	0.07	Q				
44+35	0.0000	0.07	Q				
44+36	0.0000	0.07	Q				
44+37	0.0000	0.07	Q				
44+38	0.0000	0.07	Q				
44+39	0.0000	0.07	Q				
44+40	0.0000	0.07	Q				
44+41	0.0000	0.07	Q				
44+42	0.0000	0.07	Q				
44+43	0.0000	0.07	Q				
44+44	0.0000	0.07	Q				
44+45	0.0000	0.07	Q				
44+46	0.0000	0.07	Q				
44+47	0.0000	0.07	Q				
44+48	0.0000	0.07	Q				
44+49	0.0000	0.07	Q				
44+50	0.0000	0.07	Q				
44+51	0.0000	0.07	Q				
44+52	0.0000	0.07	Q				
44+53	0.0000	0.07	Q				
44+54	0.0000	0.07	Q				
44+55	0.0000	0.07	Q				
44+56	0.0000	0.07	Q				
44+57	0.0000	0.07	Q				
44+58	0.0000	0.07	Q				
44+59	0.0000	0.07	Q				
45+ 0	0.0000	0.07	Q				
45+ 1	0.0000	0.07	Q				
45+ 2	0.0000	0.07	Q				
45+ 3	0.0000	0.07	Q				
45+ 4	0.0000	0.07	Q				
45+ 5	0.0000	0.07	Q				
45+ 6	0.0000	0.07	Q				
45+ 7	0.0000	0.07	Q				
45+ 8	0.0000	0.07	Q				
45+ 9	0.0000	0.07	Q				
45+10	0.0000	0.07	Q				
45+11	0.0000	0.07	Q				
45+12	0.0000	0.07	Q				
45+13	0.0000	0.07	Q				
45+14	0.0000	0.07	Q				
45+15	0.0000	0.07	Q				
45+16	0.0000	0.07	Q				
45+17	0.0000	0.07	Q				
45+18	0.0000	0.07	Q				
45+19	0.0000	0.07	Q				
45+20	0.0000	0.07	Q				
45+21	0.0000	0.07	Q				
45+22	0.0000	0.07	Q				
45+23	0.0000	0.07	Q				
45+24	0.0000	0.07	Q				
45+25	0.0000	0.07	Q				
45+26	0.0000	0.07	Q				
45+27	0.0000	0.07	Q				

52+34	0.0000	0.07	Q				
52+35	0.0000	0.07	Q				
52+36	0.0000	0.07	Q				
52+37	0.0000	0.07	Q				
52+38	0.0000	0.07	Q				
52+39	0.0000	0.07	Q				
52+40	0.0000	0.07	Q				
52+41	0.0000	0.07	Q				
52+42	0.0000	0.07	Q				
52+43	0.0000	0.07	Q				
52+44	0.0000	0.07	Q				
52+45	0.0000	0.07	Q				
52+46	0.0000	0.07	Q				
52+47	0.0000	0.07	Q				
52+48	0.0000	0.07	Q				
52+49	0.0000	0.07	Q				
52+50	0.0000	0.07	Q				
52+51	0.0000	0.07	Q				
52+52	0.0000	0.07	Q				
52+53	0.0000	0.07	Q				
52+54	0.0000	0.07	Q				
52+55	0.0000	0.07	Q				
52+56	0.0000	0.07	Q				
52+57	0.0000	0.07	Q				
52+58	0.0000	0.07	Q				
52+59	0.0000	0.07	Q				
53+ 0	0.0000	0.07	Q				
53+ 1	0.0000	0.07	Q				
53+ 2	0.0000	0.07	Q				
53+ 3	0.0000	0.07	Q				
53+ 4	0.0000	0.07	Q				
53+ 5	0.0000	0.07	Q				
53+ 6	0.0000	0.07	Q				
53+ 7	0.0000	0.07	Q				
53+ 8	0.0000	0.07	Q				
53+ 9	0.0000	0.07	Q				
53+10	0.0000	0.07	Q				
53+11	0.0000	0.07	Q				
53+12	0.0000	0.07	Q				
53+13	0.0000	0.07	Q				
53+14	0.0000	0.07	Q				
53+15	0.0000	0.07	Q				
53+16	0.0000	0.07	Q				
53+17	0.0000	0.07	Q				
53+18	0.0000	0.07	Q				
53+19	0.0000	0.07	Q				
53+20	0.0000	0.07	Q				
53+21	0.0000	0.07	Q				
53+22	0.0000	0.07	Q				
53+23	0.0000	0.07	Q				
53+24	0.0000	0.07	Q				
53+25	0.0000	0.07	Q				
53+26	0.0000	0.07	Q				
53+27	0.0000	0.07	Q				
53+28	0.0000	0.07	Q				
53+29	0.0000	0.07	Q				
53+30	0.0000	0.07	Q				
53+31	0.0000	0.07	Q				
53+32	0.0000	0.07	Q				
53+33	0.0000	0.07	Q				
53+34	0.0000	0.07	Q				
53+35	0.0000	0.07	Q				
53+36	0.0000	0.07	Q				
53+37	0.0000	0.07	Q				
53+38	0.0000	0.07	Q				
53+39	0.0000	0.07	Q				
53+40	0.0000	0.07	Q				
53+41	0.0000	0.07	Q				
53+42	0.0000	0.07	Q				
53+43	0.0000	0.07	Q				
53+44	0.0000	0.07	Q				

56+ 7	0.0000	0.07	Q				
56+ 8	0.0000	0.07	Q				
56+ 9	0.0000	0.07	Q				
56+10	0.0000	0.07	Q				
56+11	0.0000	0.07	Q				
56+12	0.0000	0.07	Q				
56+13	0.0000	0.07	Q				
56+14	0.0000	0.07	Q				
56+15	0.0000	0.07	Q				
56+16	0.0000	0.07	Q				
56+17	0.0000	0.07	Q				
56+18	0.0000	0.07	Q				
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*****HYDROGRAPH DATA*****
Number of intervals = 5000
Time interval = 1.0 (Min.)
Maximum/Peak flow rate = 64.546 (CFS)
Total volume = 22.902 (Ac.Ft)
Status of hydrographs being held in storage
Stream 1 Stream 2 Stream 3 Stream 4 Stream 5
Peak (CFS) 0.000 0.000 0.000 0.000 0.000
Vol (Ac.Ft) 0.000 0.000 0.000 0.000 0.000

APPENDIX F
SOILS REPORT STORM WATER MANAGEMENT
RECOMMENDATIONS

**UPDATED
GEOTECHNICAL INVESTIGATION**

**SUNROAD 200
OTAY MESA AND HARVEST ROADS
SAN DIEGO COUNTY, CALIFORNIA**



GEOCON
INCORPORATED

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

PREPARED FOR

**COMMERCE CONSTRUCTION CO., L.P.
CITY OF INDUSTRY, CALIFORNIA**

**MARCH 13, 2023
PROJECT NO. 06263-42-08**



Project No. 06263-42-08
March 13, 2023

Commerce Construction Co. L.P.
13191 Crossroads Parkway North, Sixth Floor
City of Industry, California 91746

Attention: Mr. Matthew Vawter, Vice President – District Manager

Subject: UPDATED GEOTECHNICAL INVESTIGATION
SUNROAD 200
OTAY MESA AND HARVEST ROADS
SAN DIEGO COUNTY, CALIFORNIA

Dear Mr. Vawter:

In accordance with your authorization of our proposal (LG-23022 dated January 17, 2023), we herein submit the results of our updated geotechnical investigation for the subject site. The accompanying report presents the findings and conclusions from our study. It is our opinion that the subject site can be developed as proposed, provided the recommendations of this report are followed.

This updated report presents recommendations that should be incorporated into the phases of design and construction. The recommendations presented herein supersede those presented in our reports titled *Updated Geotechnical Investigation for East Otay Mesa Center Mixed-Use, Otay Mesa and Harvest Roads, San Diego County, California*, dated July 20, 2015 (Project No. 06263-42-03). Differences between the recommendations are attributable to changes in the standard of geotechnical practice that have occurred since the issuing our previous reports. The recommendations presented herein are based on proposed grades shown on the project Preliminary Grading Plan.

If you should have any questions regarding this report, or if we may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON INCORPORATED

Raul R. Garcia
GE 2842

RRG:GWC:am

(e-mail) Addressee
(e-mail) PBLA Engineering, Inc.
Attention: Mr. Steve Levissee

Garry W. Cannon
CEG 2201
RCE 56468

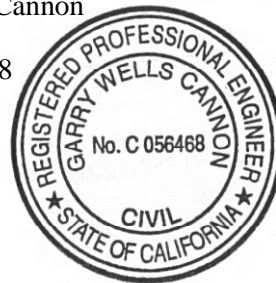


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APPENDIX A

FIELD INVESTIGATION

- Figures A-1–A-18, Logs of Borings
- Figures A-19–A-45, Logs of Trenches

APPENDIX B

LABORATORY TESTING

- Table B-I, Summary of Laboratory Maximum Dry Density and Optimum Moisture Content Test Results
- Table B-II, Summary of In-Place Moisture Density and Direct Shear Test Results
- Table B-III, Summary of Laboratory Expansion Index Test Results
- Figures B-1 – B-6, Consolidation Curves

APPENDIX C

STORM WATER MANAGEMENT RECOMMENDATIONS

APPENDIX D

RECOMMENDED GRADING SPECIFICATIONS

LIST OF REFERENCES

APPENDIX C

STORM WATER MANAGEMENT

We understand storm water management devices are being proposed in accordance with the current Storm Water Standards (SWS). If not properly constructed, there is a potential for distress to improvements and properties located hydrologically down gradient or adjacent to these devices. Factors such as the amount of water to be detained, its residence time, and soil permeability have an important effect on seepage transmission and the potential adverse impacts that may occur if the storm water management features are not properly designed and constructed. We have not performed a hydrogeological study at the site. If infiltration of storm water runoff occurs, downstream properties and improvements may be subjected to seeps, springs, slope instability, raised groundwater, movement of foundations and slabs, or other undesirable impacts as a result of water infiltration.

Hydrologic Soil Group

The United States Department of Agriculture (USDA), Natural Resources Conservation Services, possesses general information regarding the existing soil conditions for areas within the United States (CRSL, 2008). The website also provides the Hydrologic Soil Group. Table C-1 presents the descriptions of the hydrologic soil groups. In addition, the USDA website also provides an estimated saturated hydraulic conductivity for the existing soil.

**TABLE C-1
HYDROLOGIC SOIL GROUP DEFINITIONS**

Soil Group	Soil Group Definition
A	Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.
B	Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.
C	Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.
D	Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

The property is underlain by undocumented fill, surficial deposits such as topsoil, and Otay Mesa Formation. Table C-2 presents the information from the USDA website for the subject property.

**TABLE C-2
USDA WEB SOIL SURVEY – HYDROLOGIC SOIL GROUP**

Map Unit Symbol	Map Unit Name	Approximate Percentage of Property	Hydrologic Soil Group
DaC	Diablo clay, 2 to 9 percent slopes	65.7	D
DaD	Diablo clay, 9 to 15 percent slopes, warm MAAT	17.7	C
ScA	Salinas clay, 0 to 2 percent slopes	2.8	C
SuB	Stockpen gravelly clay loam, 2 to 5 percent slopes	13.8	D

Infiltration Testing

We performed 15 borehole infiltration tests at the locations shown on Figure 2. The tests were performed in 4-inch-diameter borings that ranged from approximately 5 to 15 feet deep. Table C-3 presents the results of the testing.

**TABLE C-3
FIELD-SATURATED, INFILTRATION TEST RESULTS**

Test No.	Depth (inches)	Geologic Unit	Field Saturated Infiltration Rate (in/hr)	Factored* Infiltration Rate (in/hr)
I-1	60	To	3.88E-03	1.94E-03
I-2	60	To	2.33E-02	1.16E-02
I-3	62	To	3.82E-03	1.91E-03
I-4	62	To	3.82E-03	1.91E-03
I-5	63	To	9.04E-03	4.52E-03
I-6	63	To	2.32E-02	1.16E-02
I-7	60	To	7.65E-03	3.83E-03
I-8	180	To	1.91E-01	9.53E-02
I-9	86	To	1.03E-01	5.17E-02
I-10	64	To	5.41E-01	2.70E-01
I-11	60	To	8.13E-02	4.07E-02
I-12	62	To	3.59E-02	1.79E-02
I-13	102	To	4.42E-02	2.21E-02
I-14	62	To	2.20E-01	1.10E-01
I-15	180	To	2.40E-02	1.20E-02

*Using a Factor of Safety of 2

STORM WATER MANAGEMENT CONCLUSIONS

Soil Types

Undocumented Fill (Qudf) – We undocumented fill exists within the waterline utility and gas easements of the site. The undocumented fill within structural improvement areas will be partially removed and replaced with compacted fill. Water that is allowed to migrate into the undocumented fill will cause settlement. Therefore, full and partial infiltration should be considered infeasible within undocumented fill located within easements.

Topsoil (Unmapped) – We encountered topsoil varying between 1 to 2 feet thick across the site. Topsoil within structural improvement areas will be removed and replaced with compacted fill and should not impact infiltration.

Otay Formation – The areas of the planned detention basins at the site is underlain by soils of the Otay Formation. Based on our field investigation, laboratory tests and our observations, the Otay Formation consists of dense to very dense, very silty, clayey, fine to coarse sands. Full and partial infiltration is considered unfeasible within the Otay Formation.

Groundwater Elevation

The permanent groundwater should be at depths in excess of 100 feet. Considering the expected depth, ground water should not be a concern for the design of the BMPs.

Existing Utilities

Waterline and gas utility easements do not cross the areas of the planned detention basins. Infiltration due to existing utility concerns would be feasible.

Soil or Groundwater Contamination

We are unaware of contaminated soil or groundwater on the property. Therefore, full and partial infiltration associated with this risk is considered feasible.

Slopes

Proposed slopes are close to projected parking lots, buildings and adjacent to existing Otay Mesa Road. Water infiltration into slopes will likely create an instability condition due to water lateral migration, therefore, the detention basins should be fully lined.

Infiltration Rates

Our test results indicated relatively low infiltration rates, with factored rates ranging from 0.00191 to 0.271 in/hr, which can be used as the corrected infiltration rate on Table D.2-1 of the County of San Diego Storm Water Manual.

Infiltration Restrictions

We have evaluated the proposed basin with respect to the infiltration restrictions contained in Table D.1-1 in Appendix D of the County of San Diego Storm Water Manual. Table C-4 below provides the information.

**TABLE C-4
INFILTRATION RESTRICTIONS FOR BASIC INFILTRATION ANALYSIS
(TABLE D.1-1 OF APPENDIX D)**

Restriction Element		Is Element Applicable? (Yes/No)
Mandatory Considerations	BMP is within 100' of Contaminated Soils	No
	BMP is within 100' of Industrial Activities Lacking Source Control	No
	BMP is within 100' of Well/Groundwater Basin	No
	BMP is within 50' of Septic Tanks/Leach Fields	No
	BMP is within 10' of Structures/Tanks/Walls	No
	BMP is within 10' of Sewer Utilities	No
	BMP is within 10' of Seasonal High Groundwater	Yes
	BMP is within Hydric Soils	No
	BMP is within Highly Liquefiabale Soils and has Connectivity to Structures	No
	BMP is within 1.5 Times the Height of Adjacent Steep Slopes ($\geq 25\%$)	Yes
	County Staff has Assigned "Restricted" Infiltration Category	No
	Optional Considerations	BMP is within Predominantly Type D Soil
BMP is within 5' of Property Line		No
BMP is within Fill Depths of $\geq 5'$ (Existing or Proposed)		Yes
BMP is within 10' of Underground Utilities		No
BMP is within 250' of Ephemeral Stream		No
Result	Based on examination of the best available information, I have not identified any restrictions above.	
	Based on examination of the best available information, I have identified one or more restrictions above.	X

Based on the information in Table 3, there is one or more restriction identified. The restriction is fills in excess of 5 feet and proximity of existing and proposed improvement to slopes and seasonal groundwater.

Table C-5 presents the estimated factor values for the evaluation of the factor of safety. This table only presents the suitability assessment safety factor (Part A) of the worksheet. The project civil engineer should evaluate the safety factor for design (Part B) and use the combined safety factor for the design infiltration rate.

**TABLE C-5
FACTOR OF SAFETY WORKSHEET
(TABLE D.2-3 OF APPENDIX D)**

Suitability Assessment Factor Category	Assigned Weight (w)	Factor Value (v)	Product (p = w x v)
Infiltration Testing Method	0.25	1	0.25
Soil Texture Class	0.25	2	0.50
Soil Variability	0.25	2	0.50
Depth to Groundwater	0.25	2	0.50
Suitability Assessment Safety Factor, $S_A = \sum p$			1.75

¹ The project civil engineer should complete Worksheet D.2-3 using the data on this table.

CONCLUSIONS AND RECOMMENDATIONS

The site is considered “restricted” based on the County’s guidelines. The majority of the basin areas is underlain by Type D soils based on the USDA’s Web Soil Survey. The southern portion of the basin is underlain by Type C soils based on the Web Soil Survey. The corrected infiltration rates for the respective delisting basins presented in Table C 3 can be utilized in determining the design infiltration rates. The design rate should incorporate a factor of safety as determined from Table D.2-3 of the County of San Diego’s Storm Water Manual.

APPENDIX G

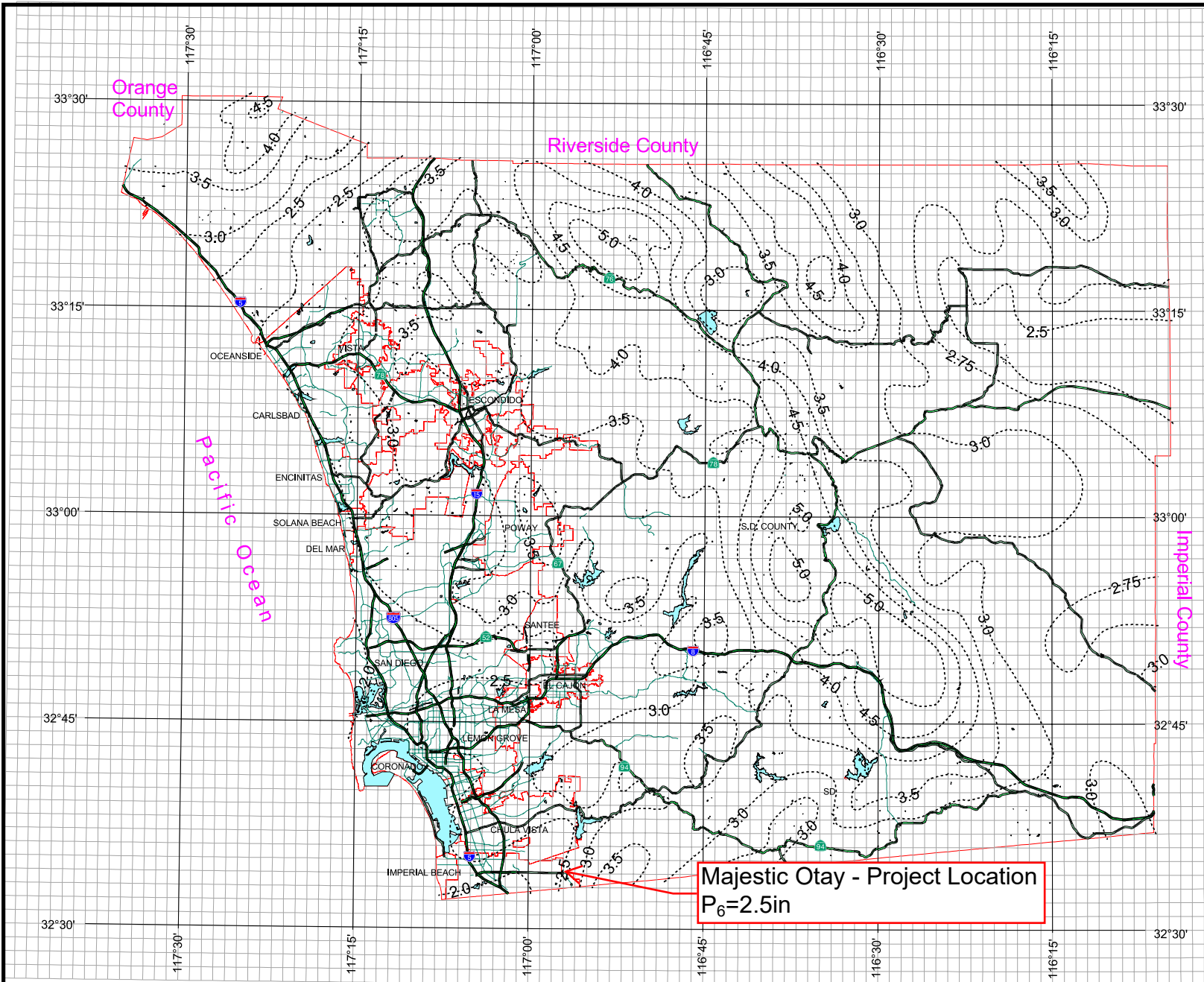
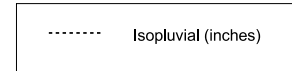
ISOPLUVIAL MAPS, TIME OF CONCENTRATION NOMOGRAPHS AND RUNOFF COEFFICIENT TABLE

County of San Diego Hydrology Manual

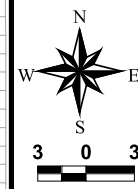


Rainfall Isopluvials

100 Year Rainfall Event - 6 Hours



Majestic Otay - Project Location
P₆=2.5in



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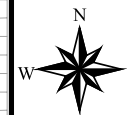
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County of San Diego Hydrology Manual



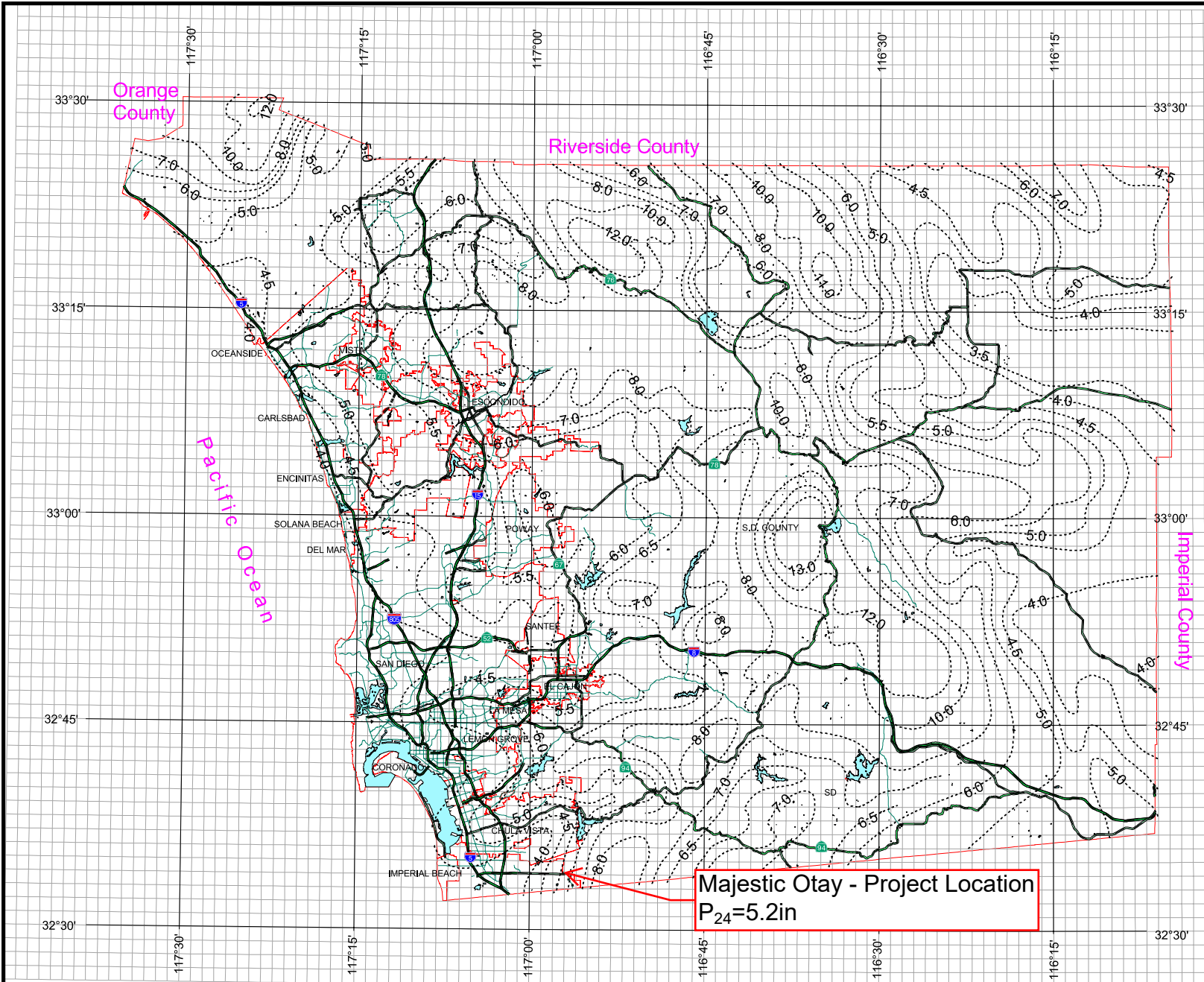
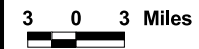
Rainfall Isopleths

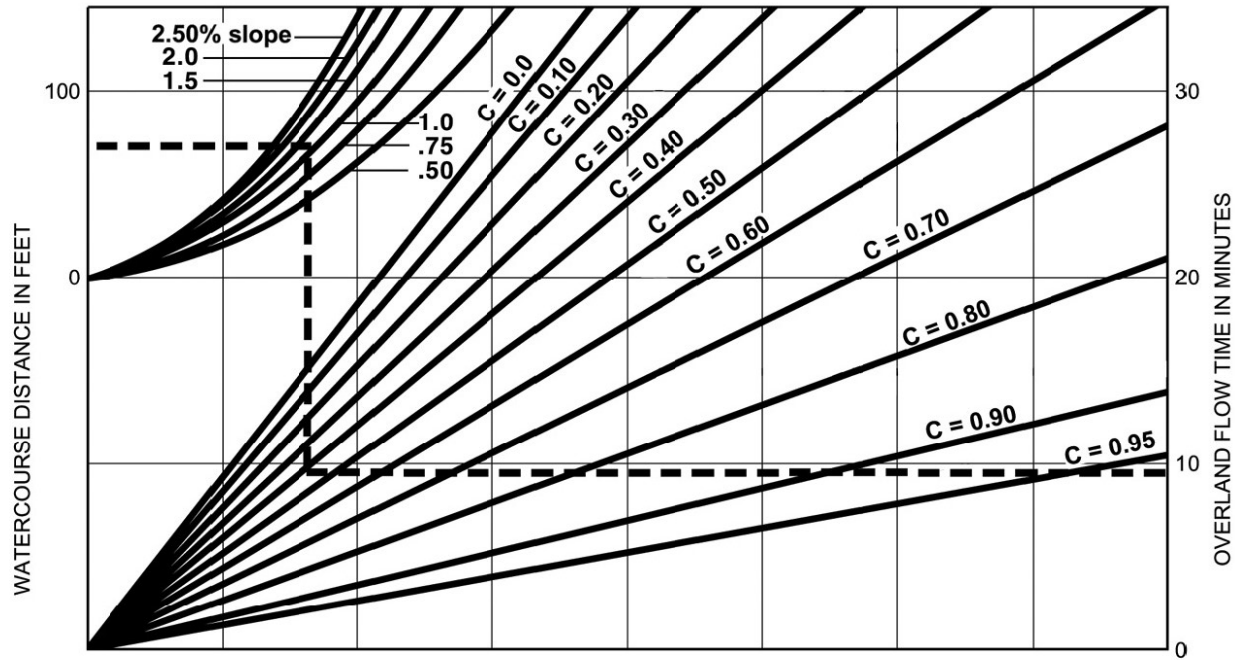
100 Year Rainfall Event - 24 Hours



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EXAMPLE:

Given: Watercourse Distance (D) = 70 Feet
 Slope (s) = 1.3%
 Runoff Coefficient (C) = 0.41
 Overland Flow Time (T) = 9.5 Minutes

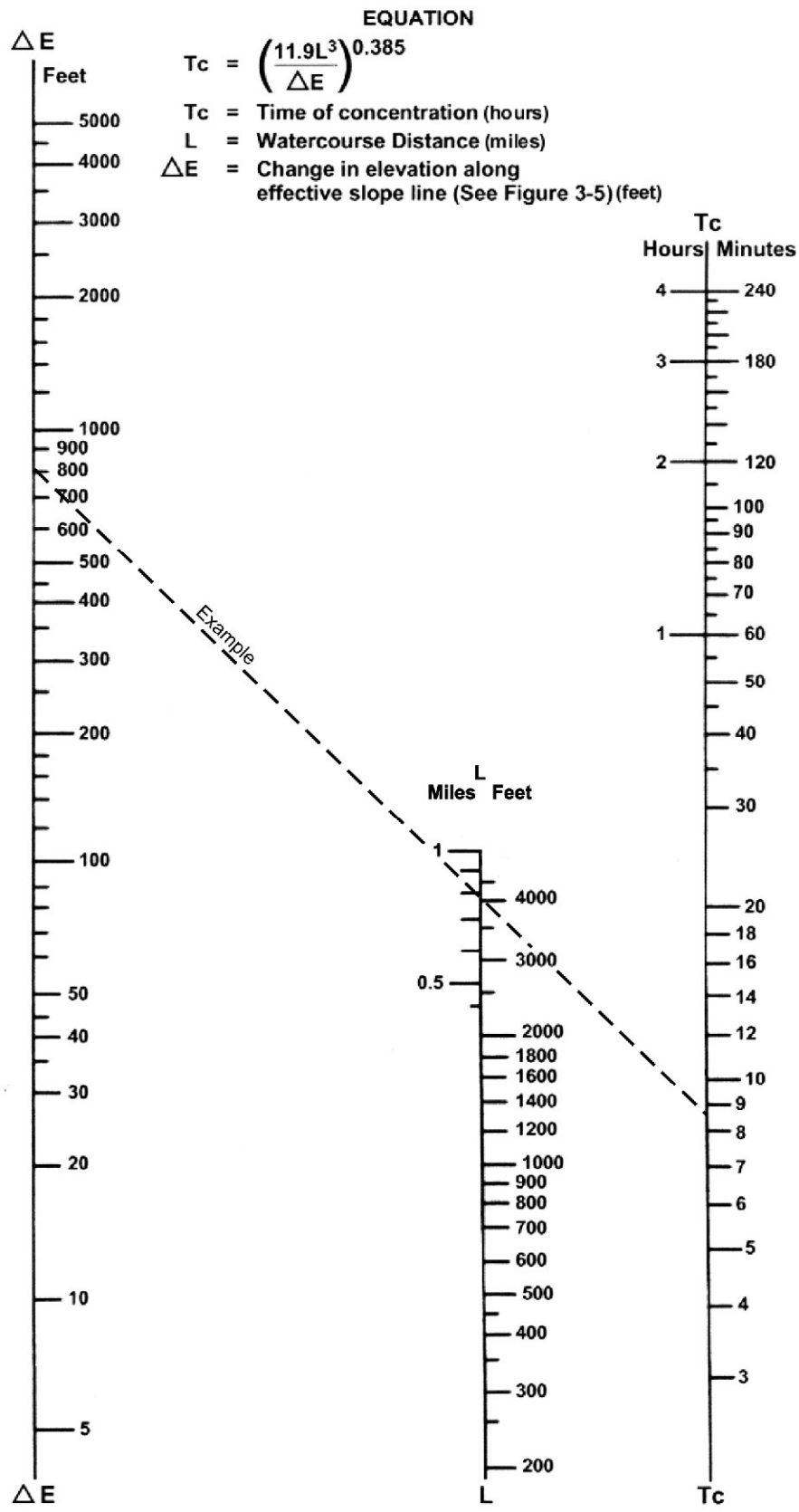
$$T = \frac{1.8 (1.1-C) \sqrt{D}}{\sqrt[3]{s}}$$

SOURCE: Airport Drainage, Federal Aviation Administration, 1965

F I G U R E

Rational Formula - Overland Time of Flow Nomograph

3-3



SOURCE: California Division of Highways (1941) and Kirpich (1940)

Nomograph for Determination of
Time of Concentration (T_c) or Travel Time (T_t) for Natural Watersheds

FIGURE

3-4

**Table 3-1
RUNOFF COEFFICIENTS FOR URBAN AREAS**

Land Use		Runoff Coefficient "C"				
		% IMPER.	Soil Type			
NRCS Elements	County Elements			A	B	C
Undisturbed Natural Terrain (Natural)	Permanent Open Space	0*	0.20	0.25	0.30	0.35
Low Density Residential (LDR)	Residential, 1.0 DU/A or less	10	0.27	0.32	0.36	0.41
Low Density Residential (LDR)	Residential, 2.0 DU/A or less	20	0.34	0.38	0.42	0.46
Low Density Residential (LDR)	Residential, 2.9 DU/A or less	25	0.38	0.41	0.45	0.49
Medium Density Residential (MDR)	Residential, 4.3 DU/A or less	30	0.41	0.45	0.48	0.52
Medium Density Residential (MDR)	Residential, 7.3 DU/A or less	40	0.48	0.51	0.54	0.57
Medium Density Residential (MDR)	Residential, 10.9 DU/A or less	45	0.52	0.54	0.57	0.60
Medium Density Residential (MDR)	Residential, 14.5 DU/A or less	50	0.55	0.58	0.60	0.63
High Density Residential (HDR)	Residential, 24.0 DU/A or less	65	0.66	0.67	0.69	0.71
High Density Residential (HDR)	Residential, 43.0 DU/A or less	80	0.76	0.77	0.78	0.79
Commercial/Industrial (N. Com)	Neighborhood Commercial	80	0.76	0.77	0.78	0.79
Commercial/Industrial (G. Com)	General Commercial	85	0.80	0.80	0.81	0.82
Commercial/Industrial (O.P. Com)	Office Professional/Commercial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (Limited I.)	Limited Industrial	90	0.83	0.84	0.84	0.85
Commercial/Industrial (General I.)	General Industrial	95	0.87	0.87	0.87	0.87

*The values associated with 0% impervious may be used for direct calculation of the runoff coefficient as described in Section 3.1.2 (representing the pervious runoff coefficient, Cp, for the soil type), or for areas that will remain undisturbed in perpetuity. Justification must be given that the area will remain natural forever (e.g., the area is located in Cleveland National Forest).

DU/A = dwelling units per acre

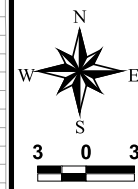
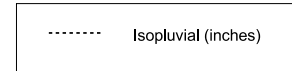
NRCS = National Resources Conservation Service

County of San Diego Hydrology Manual



Rainfall Isopluvials

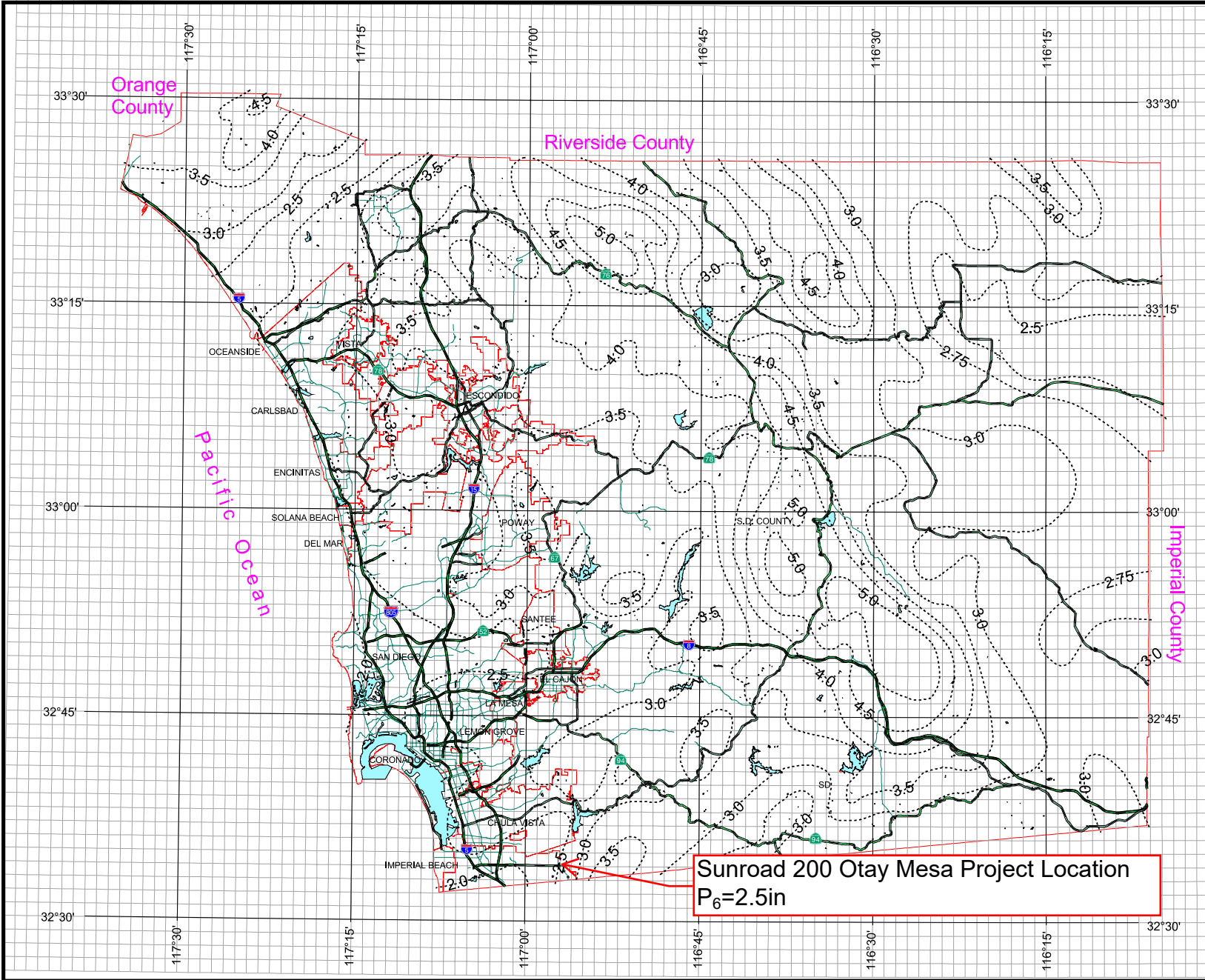
100 Year Rainfall Event - 6 Hours



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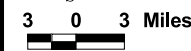
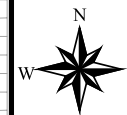
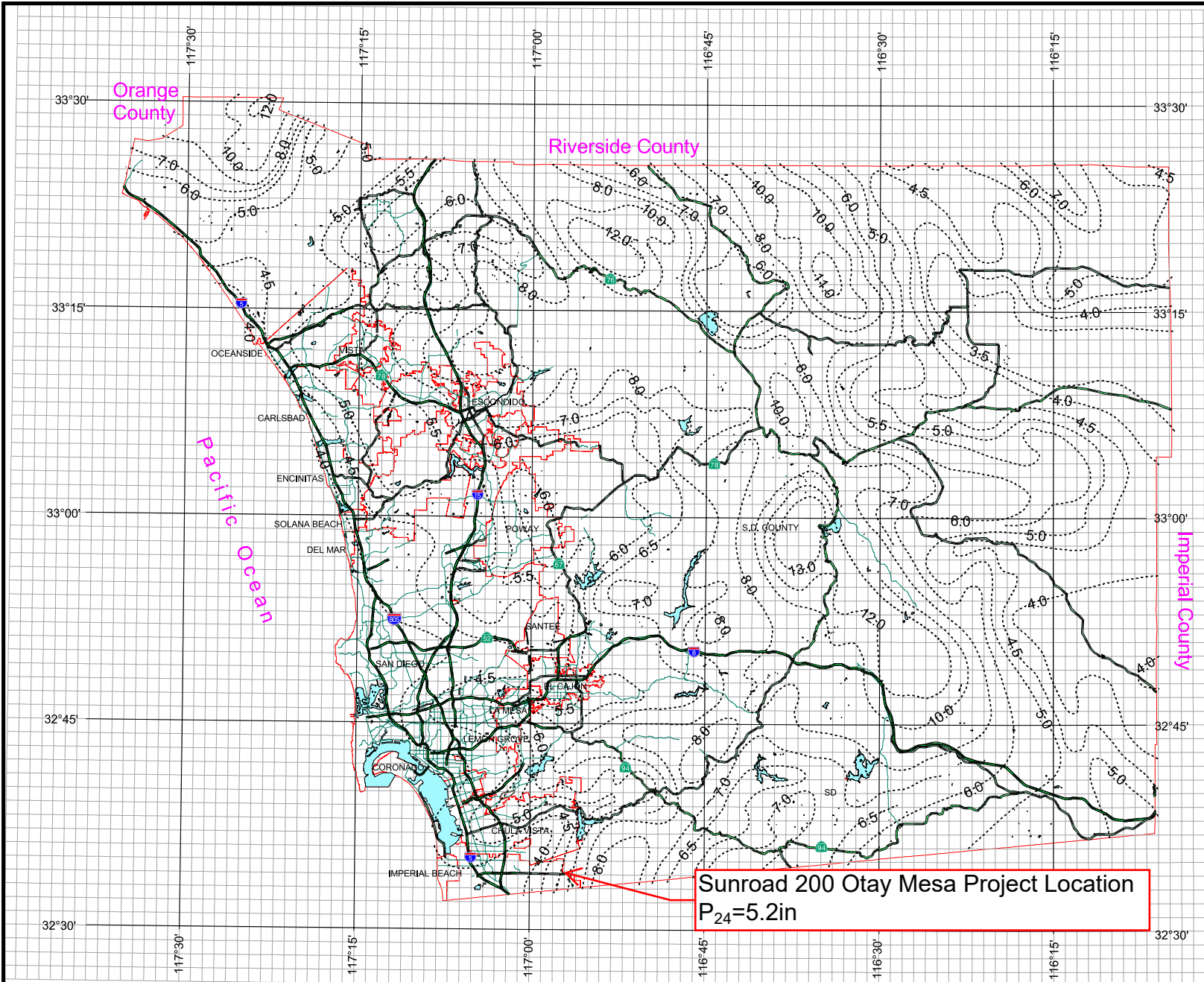
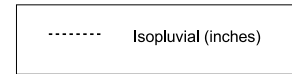
Sunroad 200 Otay Mesa Project Location
 $P_6=2.5\text{in}$

County of San Diego Hydrology Manual



Rainfall Isopleths

100 Year Rainfall Event - 24 Hours



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APPENDIX H
SYNTHESIZED C-VALUES

Synthesized C Value Calculations

Majestic Otay - Otay Mesa, San Diego County

Existing Condition - Rational Method

TRIBUTARY	Imperv. Ratio	Soil-C Ratio	Soil-C Cp	Soil-D Ratio	Soil-D Cp	Synth. C
1	0.00	0.27	0.30	0.73	0.35	0.34
2	0.00	0.00	0.30	1.00	0.35	0.35
3	0.00	0.09	0.30	0.91	0.35	0.35
4	0.00	0.18	0.30	0.82	0.35	0.34

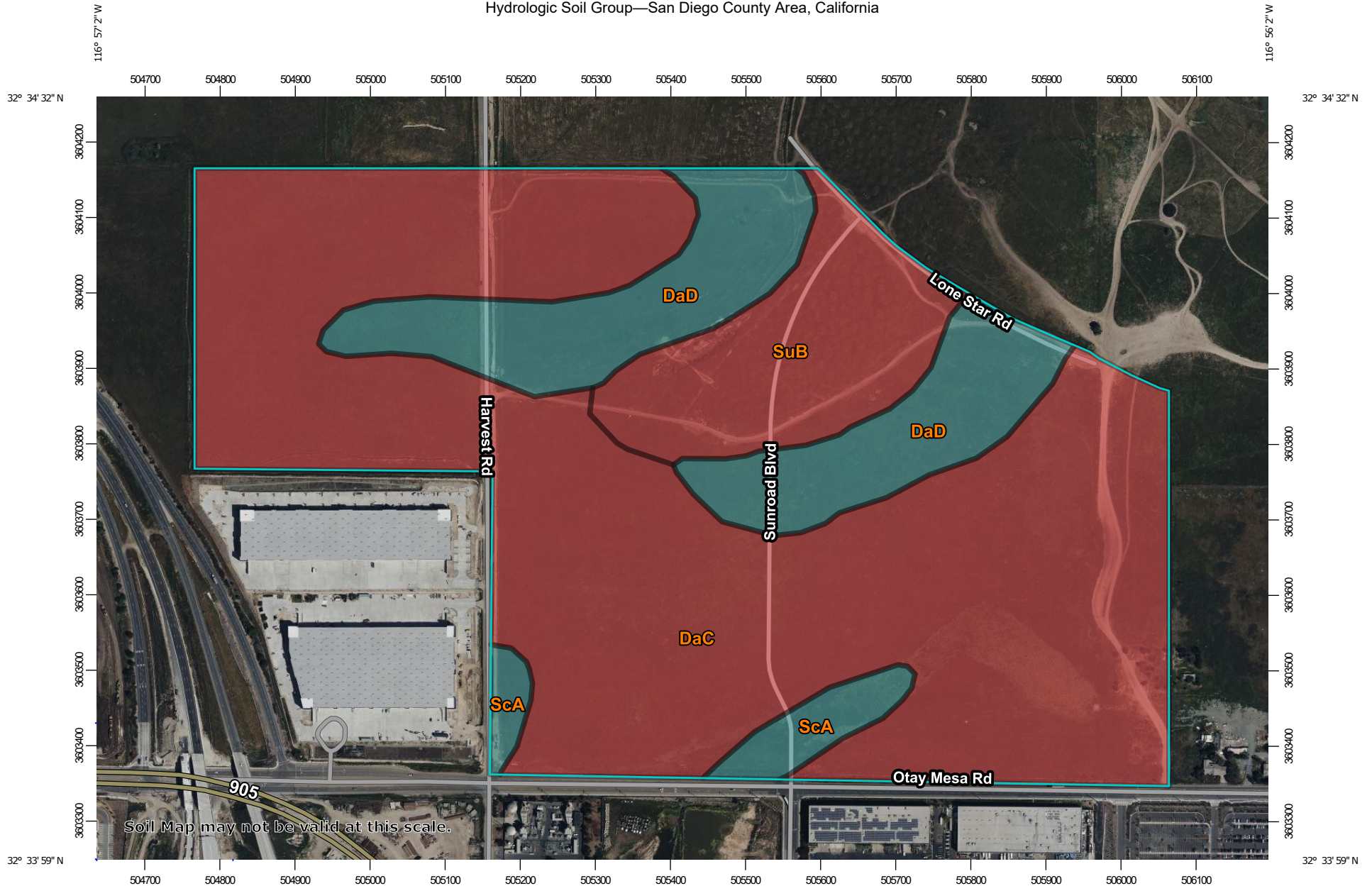
Developed Condition - Rational Method

TRIBUTARY	Imperv. Ratio	Soil-C Ratio	Soil-C Cp	Soil-D Ratio	Soil-D Cp	Synth. C
1A	0.00	0.00	0.30	1.00	0.35	0.35
1	0.77	0.08	0.30	0.92	0.35	0.77
2	0.63	0.25	0.30	0.75	0.35	0.69
3	0.60	0.40	0.30	0.60	0.35	0.67
4	0.72	0.19	0.30	0.81	0.35	0.74
5	0.74	0.12	0.30	0.88	0.35	0.76
6	0.68	0.19	0.30	0.81	0.35	0.72
7	0.63	0.00	0.30	1.00	0.35	0.70

APPENDIX I

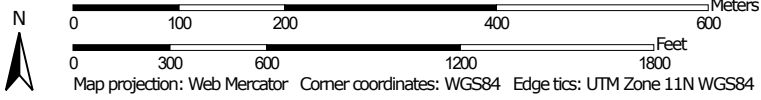
HYDROLOGIC SOIL GROUP

Hydrologic Soil Group—San Diego County Area, California



Soil Map may not be valid at this scale.

Map Scale: 1:7,140 if printed on A landscape (11" x 8.5") sheet.



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Diego County Area, California
 Survey Area Data: Version 18, Sep 14, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 24, 2022—Apr 29, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
DaC	Diablo clay, 2 to 9 percent slopes	D	137.9	68.7%
DaD	Diablo clay, 9 to 15 percent slopes, warm MAAT	C	34.0	16.9%
ScA	Salinas clay, 0 to 2 percent slopes	C	6.0	3.0%
SuB	Stockpen gravelly clay loam, 2 to 5 percent slopes	D	22.9	11.4%
Totals for Area of Interest			200.9	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

APPENDIX J

**FEMA NATIONAL FLOOD
HAZARD LAYER FIRM MAP**



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes Zone X
	Area with Flood Risk due to Levee Zone D
	NO SCREEN Area of Minimal Flood Hazard Zone X
	Effective LOMRs
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	20.2 Cross Sections with 1% Annual Chance
	17.5 Water Surface Elevation
	8 Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

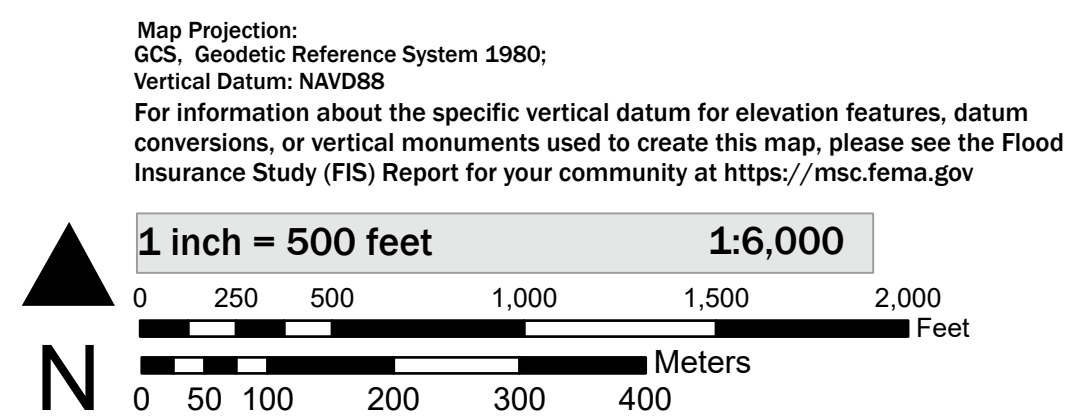
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by the United States Geological Survey (USGS). The basemap shown is the USGS National Map: Orthoimagery. Last refreshed October, 2020.

This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 4/19/2023 1:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at <https://www.fema.gov/media-library/assets/documents/118418>

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SCALE



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

PANEL 2179 of 2300

Panel Contains:

COMMUNITY	NUMBER	PANEL
SAN DIEGO, CITY OF	060295	2179
SAN DIEGO COUNTY	06FED	2179
CHULA VISTA, CITY OF	065021	2179

APPENDIX K
POC HYDRAULICS

POC 1 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.019 ft/ft
Discharge	51.10 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+66	526.28
0+78	523.08
2+52	526.28

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+66, 526.28)	(2+52, 526.28)	0.030

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	8.6 in
Roughness Coefficient	0.030
Elevation	523.80 ft
Elevation Range	523.1 to 526.3 ft
Flow Area	15.0 ft ²
Wetted Perimeter	41.9 ft
Hydraulic Radius	4.3 in
Top Width	41.79 ft
Normal Depth	8.6 in
Critical Depth	8.6 in
Critical Slope	0.019 ft/ft
Velocity	3.40 ft/s
Velocity Head	0.18 ft
Specific Energy	0.90 ft
Froude Number	1.000
Flow Type	Subcritical

GVF Input Data

POC 1 EXIST OUTFLOW

GVF Input Data

Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data

Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	8.6 in
Critical Depth	8.6 in
Channel Slope	0.019 ft/ft
Critical Slope	0.019 ft/ft

Cross Section for POC 1 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.019 ft/ft
Normal Depth	8.6 in
Discharge	51.10 cfs



POC 2 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.060 ft/ft
Discharge	7.80 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+00	564.97
1+13	559.71
1+69	558.30
2+21	558.02
3+11	561.05

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 564.97)	(3+11, 561.05)	0.030

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	2.1 in
Roughness Coefficient	0.030
Elevation	558.19 ft
Elevation Range	558.0 to 565.0 ft
Flow Area	3.3 ft ²
Wetted Perimeter	37.8 ft
Hydraulic Radius	1.0 in
Top Width	37.83 ft
Normal Depth	2.1 in
Critical Depth	2.4 in
Critical Slope	0.028 ft/ft
Velocity	2.37 ft/s
Velocity Head	0.09 ft
Specific Energy	0.26 ft
Froude Number	1.420
Flow Type	Supercritical

POC 2 EXIST OUTFLOW

GVF Input Data

Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

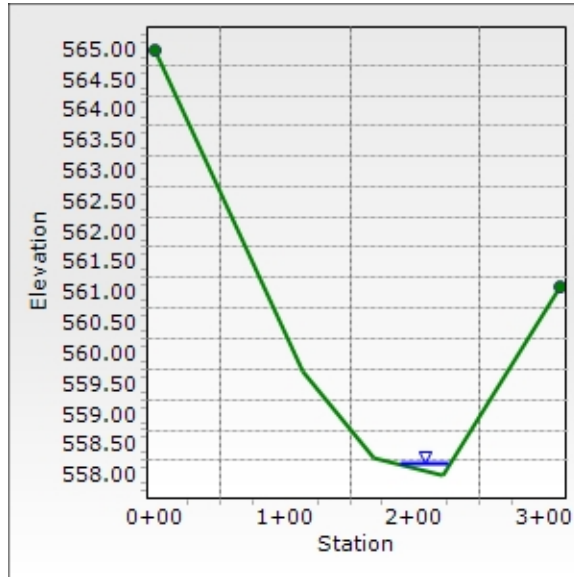
GVF Output Data

Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	2.1 in
Critical Depth	2.4 in
Channel Slope	0.060 ft/ft
Critical Slope	0.028 ft/ft

Cross Section for POC 2 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.060 ft/ft
Normal Depth	2.1 in
Discharge	7.80 cfs



POC 3 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.032 ft/ft
Discharge	24.30 cfs

Section Definitions

Station (ft)	Elevation (ft)
0+07	541.03
0+20	540.61
0+27	540.13
0+36	540.43
0+38	541.41

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+07, 541.03)	(0+38, 541.41)	0.030

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	6.8 in
Roughness Coefficient	0.030
Elevation	540.69 ft
Elevation Range	540.1 to 541.4 ft
Flow Area	5.9 ft ²
Wetted Perimeter	18.4 ft
Hydraulic Radius	3.8 in
Top Width	18.27 ft
Normal Depth	6.8 in
Critical Depth	7.6 in
Critical Slope	0.019 ft/ft
Velocity	4.14 ft/s
Velocity Head	0.27 ft
Specific Energy	0.83 ft
Froude Number	1.289
Flow Type	Supercritical

POC 3 EXIST OUTFLOW

GVF Input Data

Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

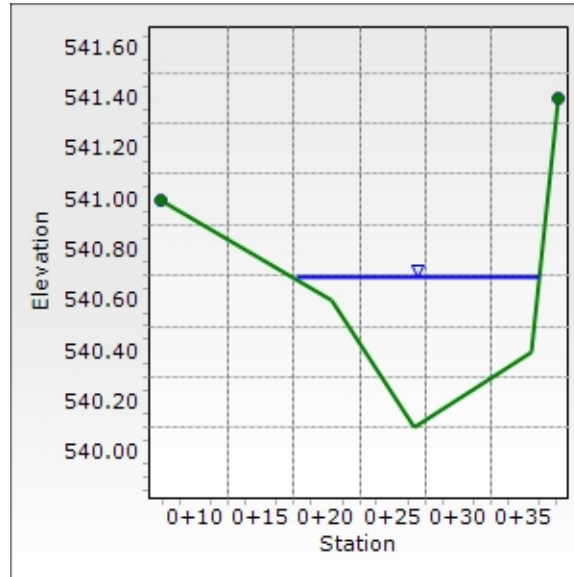
GVF Output Data

Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	6.8 in
Critical Depth	7.6 in
Channel Slope	0.032 ft/ft
Critical Slope	0.019 ft/ft

Cross Section for POC 3 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.032 ft/ft
Normal Depth	6.8 in
Discharge	24.30 cfs



POC 4 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.009 ft/ft
Discharge	84.90 cfs

Section Definitions

	Station (ft)	Elevation (ft)	
	0+00		541.47
	1+45		536.92
	1+55		535.32
	1+58		535.44
	1+58		541.50

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 541.47)	(1+58, 541.50)	0.030

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	24.4 in
Roughness Coefficient	0.030
Elevation	537.35 ft
Elevation Range	535.3 to 541.5 ft
Flow Area	22.2 ft ²
Wetted Perimeter	29.3 ft
Hydraulic Radius	9.1 in
Top Width	27.31 ft
Normal Depth	24.4 in
Critical Depth	21.3 in
Critical Slope	0.016 ft/ft
Velocity	3.82 ft/s
Velocity Head	0.23 ft
Specific Energy	2.26 ft
Froude Number	0.747
Flow Type	Subcritical

POC 4 EXIST OUTFLOW

GVF Input Data

Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

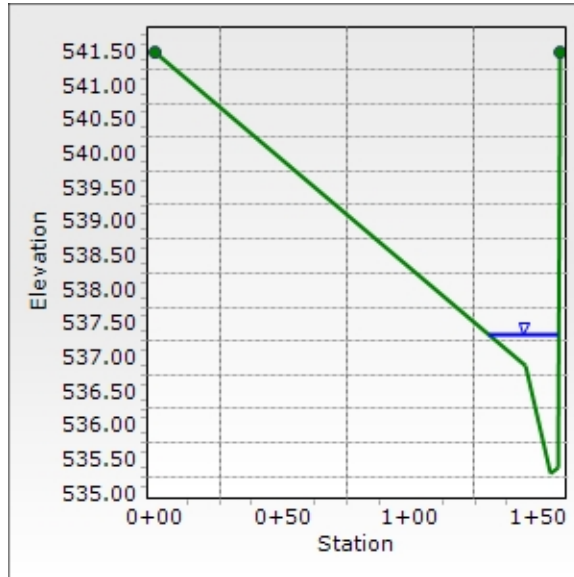
GVF Output Data

Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	24.4 in
Critical Depth	21.3 in
Channel Slope	0.009 ft/ft
Critical Slope	0.016 ft/ft

Cross Section for POC 4 EXIST OUTFLOW

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data	
Channel Slope	0.009 ft/ft
Normal Depth	24.4 in
Discharge	84.90 cfs



POC 1 DEV OUTFLOW

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.045 ft/ft
Diameter	36.0 in
Discharge	50.70 cfs
Results	
Normal Depth	14.9 in
Flow Area	2.8 ft ²
Wetted Perimeter	4.2 ft
Hydraulic Radius	7.9 in
Top Width	2.96 ft
Critical Depth	27.8 in
Percent Full	41.4 %
Critical Slope	0.007 ft/ft
Velocity	18.36 ft/s
Velocity Head	5.24 ft
Specific Energy	6.48 ft
Froude Number	3.348
Maximum Discharge	152.19 cfs
Discharge Full	141.48 cfs
Slope Full	0.006 ft/ft
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	41.4 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	14.9 in
Critical Depth	27.8 in
Channel Slope	0.045 ft/ft
Critical Slope	0.007 ft/ft

POC 3 DEV OUTFLOW

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.026 ft/ft
Diameter	32.0 in
Discharge	14.70 cfs
Results	
Normal Depth	9.4 in
Flow Area	1.4 ft ²
Wetted Perimeter	3.1 ft
Hydraulic Radius	5.4 in
Top Width	2.43 ft
Critical Depth	15.2 in
Percent Full	29.5 %
Critical Slope	0.004 ft/ft
Velocity	10.70 ft/s
Velocity Head	1.78 ft
Specific Energy	2.57 ft
Froude Number	2.510
Maximum Discharge	83.69 cfs
Discharge Full	77.80 cfs
Slope Full	0.001 ft/ft
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	29.5 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	9.4 in
Critical Depth	15.2 in
Channel Slope	0.026 ft/ft
Critical Slope	0.004 ft/ft

POC 3 DEV OUTFLOW

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.011 ft/ft
Height	5.0 ft
Bottom Width	5.00 ft
Discharge	32.25 cfs
Results	
Normal Depth	9.2 in
Flow Area	3.8 ft ²
Wetted Perimeter	6.5 ft
Hydraulic Radius	7.0 in
Top Width	5.00 ft
Critical Depth	13.1 in
Percent Full	15.3 %
Critical Slope	0.004 ft/ft
Velocity	8.41 ft/s
Velocity Head	1.10 ft
Specific Energy	1.87 ft
Froude Number	1.692
Discharge Full	347.77 cfs
Slope Full	0.011 ft/ft
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	15.3 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	9.2 in
Critical Depth	13.1 in
Channel Slope	0.011 ft/ft
Critical Slope	0.004 ft/ft