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September 9, 2021

Ms. Tanowa Troupe, Secretary Ohio Power Siting Board Docketing Division 180 East Broad Street, 11th Floor Columbus, Ohio 43215-3797

Re: Case No. 20-417-EL-BGN -In the Matter of the Application of Grover Hill

Wind, LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Wind-Powered Electric Generation Facility in Paulding

County, Ohio.

Supplemental Response to Third Data Request from Staff of the Ohio Power Siting Board

Dear Ms. Troupe:

Attached please find Grover Hill Wind, LLC's ("Applicant") Supplemental Response to Question 3 of the Third Data Request from Staff of the Ohio Power Siting Board ("OPSB Staff"). The Applicant provided this response to OPSB Staff on September 9, 2021.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik

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CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 9th day of September, 2021.

/s/ Christine M.T. Pirik
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Administrative Law Judge:

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4822-9432-3962 v1 [73809-23]

BEFORE THE OHIO POWER SITING BOARD

In the Matter of the Application of Grover Hill Wind	,)	
LLC for a Certificate of Environmental	l)	
Compatibility and Public Need to Construct a Wind-	-)	Case No: 20-417-EL-BGN
Powered Electric Generation Facility in Paulding	g)	
County, Ohio.)	

GROVER HILL WIND, LLC 'S SUPPLEMENTAL RESPONSE TO THE THIRD DATA REQUEST FROM THE STAFF OF THE OHIO POWER SITING BOARD

On May 3, 2021, as supplemented on June 7, 2021, Grover Hill Wind, LLC ("Applicant") filed an application ("Application") with the Ohio Power Siting Board ("OPSB") proposing to construct a wind-powered electric generation facility in Paulding County, Ohio ("Project").

On June 29, 2021, the Staff of the OPSB ("OPSB Staff") provided the Applicant with OPSB Staff's Third Data Request. Now comes the Applicant providing the following Supplemental Response to the Third Data Request from the OPSB Staff regarding Question 3.

<u>Question 3</u>: Given the potential for perched groundwater discussed within the application, has the Applicant determined if the turbine foundations are expected to impact the project area hydrogeology? If so, please discuss the extent of that potential impact.

Response: The Applicant engaged Westwood to review the hydrological features of the Project Area and to determine if turbine foundations would impact area hydrogeology, including a Hydrology Report. Attached please find the Hydrology Report.

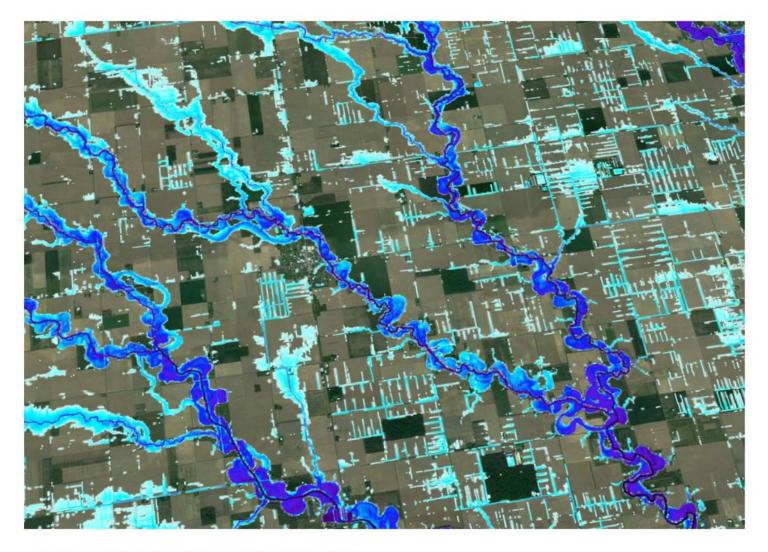
Respectfully submitted,

/s/ Christine M.T. Pirik_

Christine M.T. Pirik (0029759) (Counsel of Record) Terrence O'Donnell (0074213) William V. Vorys (0093479) Matthew C. McDonnell (0090164) Dickinson Wright PLLC 150 East Gay Street, Suite 2400 Columbus, Ohio 43215

Attorneys for Grover Hill Wind, LLC

4843-9042-4314 v2 [73809-23]



PRELIMINARY HYDROLOGY STUDY

Grover Hill Wind Project

Paulding County, Ohio

AUGUST 2021

PREPARED FOR:

STARWOOD ENERGY GROUP PREPARED BY:

Westwood

Preliminary Hydrology Study

Grover Hill Wind Project

Paulding County, Ohio

Prepared For:

Starwood Energy Group 591 West Putnam Avenue Greenwich, CT 06830

Prepared By:

Westwood 12701 Whitewater Drive, Suite 300 Minnetonka, MN 55343 (952) 937-5150

Project Number: R0015695.00

Date: August 13, 2021



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Exhibits

Exhibit 1: **Location Map** Exhibit 2: Base Map Exhibit 3: Soils Map

Exhibit 4: Landcover Map

Exhibit 5: Curve Number and Topographic Source Map

Exhibit 6: 100-Year Max Flood Depth Map

Exhibit 6A: 100-Year Max Flood Depth Project Area Map

Exhibit 7: 100-Year Peak Velocity Map

Exhibit 7A: 100-Year Peak Velocity Project Area Map

Exhibit 8: FLO-2D Model Inputs Map

Appendices

Appendix A: NOAA Atlas 14 Precipitation Data

Appendix B: Curve Number Table

Appendix C: FEMA Flood Insurance Rate Maps (FIRM)

Appendix D: Inflow Hydrographs

Appendix E: 100-Year Flood Depth at Turbine Locations

Appendix F: Ohio EPA Rainwater and Land Development Manual – Section 2.2: Sheet Flow to

Filter Strip or Conservation Area

Appendix G: Ohio EPA Runoff Reduction Volume Spreadsheet Calculations

Appendix H: HydroCAD Reports

Appendix I: Ohio Guidance on Post-Construction Storm Water Controls for Wind Turbine

Facilities

Executive Summary

The purpose of the study is to analyze and review the existing hydrology of the Grover Hill Wind Project ("the project") and any impacts that the hydrology may play in the design of the proposed turbine array consisting of 23 turbine locations.

The project site is proposed on approximately 9.647 acres and surrounds the village of Grover Hill in Paulding County, Ohio. The site is located on relatively flat land that generally slopes to the northeast. The modeled watershed area encompasses approximately 102 square miles and generally slopes northeast.

FEMA has completed a study to determine flood hazards for the selected location; the project area contains FEMA Zone A areas. A Preliminary FIS report prepared by FEMA and data dated 10/16/2020 will affect the FEMA zones onsite.

The hydrologic modeling in this report was created using FLO-2D modeling software. FLO-2D was used to review the overall watershed drainage to and through the project to determine if any overland runoff causes flooding or high velocity impacts to the site.

The analysis shows low to moderate water depths and low velocities (Exhibits 6 through 7A) across the majority of the site. Higher flood depths exist within the creeks and their surrounding areas located within and adjacent to the site. There are also scattered low-lying areas with localized ponding. Minimal velocities are expected on site due to the flat terrain. Based on experience with similar projects, the majority of the site is suitable for the planned development by avoiding or designing to areas of high flood depths.

Data Sources

TABLE 1: DATA SOURCES

Task	Format	Source	Use
Elevation	2.5-foot DEM	OGRIP	FLO-2D Model Elevations
Crop Data	Shapefile	USDA 2013 Crop Data Layer	Landcover
Soils	Shapefile	USGS SSURGO Dataset	Curve Numbers
Precipitation	PDF File	NOAA Atlas 14	Design Storms
HUC-12 Drainage Boundary	Shapefile	USGS	Define Model Extents
Site Boundary	GH_ProjectBoundary_200915.shp	Starwood Energy Group	Define Model Extents
2014 Aerial Photography	ArcGIS Map Service	USDA FSA	Reference
FEMA Flood Zones	PDF	FEMA	Reference
Culvert Locating and Sizing	Aerial Imagery	Google Earth	Culvert Modeling
Turbine Array	20210329_Grover_Hill_Turbines.shp	Starwood Energy Group	Define Model Extents

Existing Conditions

The project area surrounds the village of Grover Hill in Paulding County, Ohio. The project site is approximately 9,647 acres with 23 proposed turbines and is located on relatively flat terrain that generally slopes to the northeast.

Watershed Hydrology

The modeled watershed area encompasses approximately 102 square miles that generally slopes to the northeast. Big Run, Blue Creek, Cunningham Creek, Hagerman Creek, Hoaglin Creek, Maddox Creek, Prairie Creek, Town Creek, and an unnamed tributary to Blue Creek all enter the modeled watershed from the southwest boundary and drain to the northeast, through or near the project boundary.

Onsite Conditions

The project is located on very flat terrain except in channelized areas. The northern portion of the site drains north toward Blue Creek, the north central portion of the site drains into Prairie Creek, the south-central portion of the site drains to Hog Run and West Branch Prairie Creek, and the south portion of the site drains to Hoaglin Creek, Maddox Creek, and Town Creek. In general, the site is relatively flat with slopes of less than 1% across the site except in channelized areas. The landcover on the project area is primarily agricultural used for the production of corn, soybeans, and winter wheat. Smaller forested and developed areas exist across the site as well (Exhibit 4). Soils onsite generally belong to Hydrologic Soil Groups (HSG) C/D and D (Exhibit 3). The main potential hydrologic issues on site are flooding and erosive velocities.

FEMA Flood Zones

FEMA has completed a study to determine flood hazards for the selected location. The project area is covered by panels 3907770125C, 3907770150D, and 390436B. These Flood Insurance Rate Maps (FIRMs) have been digitized and the flood zones can be seen in Exhibits 2 and 6-7A. FEMA Zone A areas surrounding Prairie Creek, West Branch Prairie Creek, Hoaglin Creek, Maddox Creek, Town Creek, and Middle Creek exist onsite. A FEMA Zone A flood hazard is a 100-year flood hazard with no base flood elevation determined.

A preliminary FEMA FIS report and associated data dated 10/16/2020 will affect the FEMA zone extents onsite once they are approved and adopted in the future. See Exhibit 2 for a graphical representation of FEMA Zone updates for this preliminary data.

Proposed Conditions

The majority of the proposed wind facility will consist of turbines, turbine pads, access roads, and associated facilities. In order to prevent erosion and maintain access during wet conditions low water crossing (LWC) or culvert locations should be identified and sized.

Post-Construction Stormwater Management

A desktop review of the Paulding County stormwater and drainage did not yield any county specific requirements.

A review of the Guidance on Post-Construction Storm Water Controls for Wind Turbine Facilities and the Ohio NPDES Stormwater Requirements shows the following requirements for the proposed site:

- According to the Guidance on Post-Construction Storm Water Controls for Wind **Turbine Facilities:**
 - Although wind turbine facilities are often dispersed geographically and standard post-construction water quality best management practices (BMPs) may be challenging for these sites, a combination of acceptable practices such as runoff reduction practices or approvable alternative agricultural conservation practices may be considered as an alternative.
 - Grass swales, grass filter strips, stream buffers, stream restoration, or wetlands are all recommended alternative BMPs to the standard post-construction water quality BMPs.
- According to the Ohio NPDES Permit:
 - Water quality volume equivalent to the volume of runoff from a 0.90-inch rainfall for the site must be treated to ensure compliance with Ohio's Water Quality Standards for OAC Chapter 3745-1.
 - An additional volume equal to 20 percent of the water quality volume shall be incorporated into the BMP design for sediment storage.
 - The size of structural post-construction practices used to capture and treat the water quality volume can be reduced by incorporating runoff reduction practices into the design of the site's drainage system, including impervious surface disconnection, sheet flow to filter strip, grass swales, and other treatment BMPs.

Methodology

Existing and proposed conditions are modeled in HydroCAD software. HydroCAD is a widely accepted hydrologic and hydraulic modeling package based on TR-20 unit hydrograph equations. It models stormwater runoff discharge rates and velocities from ponds, culverts, outlet control structures, and stream reaches.

Hydrology

Curve Number Methodology, based on the NRSC-TR 55 method, was used in the modeling for predicting direct runoff at the substation and O&M facility. Curve numbers were assigned by reviewing the soil and landcover for the area.

The time of concentration was calculated in HydroCAD using the lag method. The lag method uses the hydraulic length (distance traveled by a drop of water from the most distant part of the subcatchment to the outlet point) and the average land slope (average slope of entire watershed). The overall curve number for the site along with the lag information is used to get the time of concentration for the site.

Atlas 14 precipitation and distribution data for the 10-year, and 100-year 24-hour storm events were used as input for the analysis (Appendix A).

Pre-Post Analysis

The substation and O&M facilities are located on soils belonging to Hydrologic Soil Group (HSG) D. The existing conditions for the proposed substation and O&M facilities are a combination of row crop, farmstead, and wooded area. Cover for the analysis was determined using the USDA Crop Data Layer and aerial photos. The proposed conditions will contain gravel and paved surfaces for these areas. Curve numbers (CN) for existing and proposed conditions were assigned based on the landcover and soil types, see tables below for summary.

TABLE 2: EXISTING CONDITIONS COVERS

Hydrologic Soil Group	Land	cover (CN Val	ue)
, u. o.og.o oo o.oup	Row Crops	Farmstead	Woods
D	89	86	77

TABLE 3: PROPOSED CONDITIONS COVERS

Hydrologic Soil Group	Landcover (C	N Value)
, a e.e.g. e e e e e	Gravel w/o ROW	Pavement
D	96	98

The substation and O&M facilities discharge to the south and were analyzed as one drainage area that will be treated by a combined basin. A summary of the runoff rates for each event at the discharge location is show in Table 4. Calculations can be found in Appendix H.

TABLE 4: EXISTING AND PROPOSED RUNOFF RATE SUMMARY

Drainage	Total	10	-year Runoff	(cfs)	10	0-year Runof	f (cfs)
Area	Area (ac)	Existing	Proposed	Proposed with Basin	Existing	Existing Proposed	
Substation /O&M	3.86	8.92	13.87	7.89	14.44	19.87	14.37

As shown in the table above, runoff rates increase for both events between existing and proposed conditions. However, with the addition of a basin, runoff rates are reduced for both storm events. The preliminary sized basin will also hold adequate storage for the required water quality volume discussed in the next section. The required basin volume to reduce runoff rates from pre to post conditions is 0.94 acre-feet.

Water Quality Analysis

The Ohio NPDES Permit was used to find the required water quality volume for areas onsite that may not be properly through surface disconnection and sheet flow over vegetated filter. The following equations were used to calculate the water quality volumes:

RV (Equation 1) = 0.05 + 0.9i

WQv = RV * P * A/12(Equation 2)

Where:

WQv = water quality volume in acre-feet

RV = the volumetric flow runoff coefficient calculated using Equation 1

P = 0.9 inch precipitation depth

= area draining into the BMP in acres A

= fraction of post-construction impervious surface

An additional volume equal to 20% of the water quality volume shall be incorporated into the BMP for sediment storage, therefore all water quality volumes should be multiplied by 1.2 to obtain minimum storage requirements for these treatment BMPs.

Table 5 summarizes the calculations for the O&M and substation basin.

TABLE 5: REQUIRED WATER QUALITY TREATMENT SUMMARY

Location	Contributing Area (ac)	Proposed Impervious (ac)	Rv	Required WQv (ac-ft)	Required WQV w/ Sediment Storage (ac-ft)
Substation /O&M	3.86	3.32	0.86	0.239	0.286

A graded basin with 0.94 acre-feet of storage will provide adequate storage for the water quality volume at the substation and O&M as well as reduce runoff rates and between pre and post conditions as discussed above. As for the access road and turbine pad locations, standard BMPs are not feasible to treat the water quality volume. Therefore, vegetated filter strips are recommended to reduce runoff in these areas from pre to post conditions.

The Ohio NPDES states that alternative BMPs that utilize treatment processes such as filtering or centrifugal separation, rather than a detention and settling volume, must be designed to ensure treatment of 90 percent of the average annual runoff volume. For a vegetated filter strip, the water quality flow rate (WQF) considered equivalent to the Water Quality Volume (WQv) shall be determined utilizing the Rational Method with an intensity appropriate for the water quality precipitation event. The Runoff Reduction Volume Spreadsheet provided by the Ohio Environmental Protection Agency and referenced in section 2.2 of the Rainwater and Land Development Manual (Appendix F) was used to calculate the required grass buffer width along the access roads and around turbine pads on this project.

Per the Ohio EPA Runoff Reduction Volume spreadsheet (Appendix G), an 11-foot grass buffer will be required along both sides of each access road to treat the runoff reduction volume. A 10foot grass buffer surrounding each turbine pad and gravel ring will be sufficient to treat the runoff reduction volume for these areas.

Construction Stormwater Management

A separate Construction Stormwater Pollution Prevention Plan should be prepared for the project. During construction conditions, higher runoff rates and volumes can be expected than the fully vegetated final condition. To account for this, dewatering should be anticipated as needed until vegetation has fully established on the site. This may include pumping of temporary swales and diversions. Once the site has been stabilized, sediment will need to be removed from any permanent basins on site. Using temporary seed/mulch at the onset of construction can greatly reduce the amount of erosion and rework on solar sites.

FLO-2D Modeling

FLO-2D is a physical process model that routes rainfall runoff and flood hydrographs over flow surfaces or in channels using the dynamic wave approximation to the momentum equation. FLO-2D offers advantages over 1-D models and unit hydrograph methods by allowing for breakout flows and visualization of flows across a potential site. The primary inputs are a DTM

(elevation data), curve numbers and precipitation. Major culverts impacting the site were modeled based on aerial imagery provided by Google Earth (Exhibit 8).

Because of the inflows into the modeled watershed and the projects proximity to the various creeks, a FLO-2D model with 50' grid cells was utilized to determine flow depths and velocities throughout the site.

Elevation Data

The elevation data input into the FLO-2D model was 2.5-foot DEM data from the Ohio Geographically Referenced Information Program (Exhibit 5), which was incorporated into the DTM using the export to xyz function in Global Mapper. These XYZ files are read directly into FLO-2D.

Watershed Soils and Land Cover

USDA-NRCS SSURGO soil data provides soil types within the project boundary and full coverage of the contributing watershed. Soils are primarily classified as Hydrologic Soil Groups C/D and D in the project boundary (Exhibit 3). Land cover was obtained from the USDA 2013 Crop Data Layer. Exhibit 4 displays the land cover classes for the entire watershed. Curve numbers were applied to each grid cell in the FLO-2D model based on intersecting the grid with the curve numbers (Exhibit 5).

Precipitation

Precipitation data was downloaded from the NOAA Atlas 14 (Appendix A) and used for the FLO-2D analysis for the 100-year, 24-hour storm. Using the 100-year rainfall depth of 5.40 inches for this location allows for the best initial analysis in order to determine the worst areas of flooding and erosion. Rainfall inputs were distributed based on a nested Atlas 14 distribution pattern.

Inflows

Various creeks flow into the modeled watershed from the southwest and flow northeast through or near the project boundary. Flow rates were determined by cross section analysis in a coarse scale FLO-2D model that covers the entire contributing area to the site. The 100-year peak flow rates for each inflow can be seen in Table 6 below. Inflow hydrographs were created from this cross-section analysis and added to the site-specific model (Appendix D). Inflow locations can be seen in Exhibit 8.

100-Year Peak Waterbody Flow Rate (cfs) **Big Run** 303 **Blue Creek** 1,095 **Cunningham Creek** 443 **Hagerman Creek** 218 **Hoaglin Creek** 1,092 Maddox Creek 1,217

TABLE 6: FLO-2D MODEL INFLOW DATA

Prairie Creek

Town Creek

Unnamed Tributary to Blue Creek

1,090

1,151

307

Flood Analysis Results

Existing Conditions Flood Analysis

The analysis shows low to moderate water depths and low velocities (Exhibits 6 through 7A) across the majority of the site. During a 100-year storm, the flood depths across the majority of the project area are less than 0.5 feet with velocities less than 1 foot/second with the exception of near the creeks and in depression areas where the depths can reach as high as 13 feet. See Exhibits 6 through 7A for areas within the project with higher flood depths and velocities. The maximum 100-year flood depth at a turbine foundation on the project is 4.6 feet (T-13) with 4 turbines experiencing depths greater than 1 foot. Please see Appendix E for flood depths at all turbine locations.

Recommendations

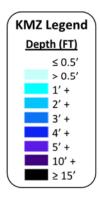
Based on experience on similar projects, the site is suitable for the planned development and hydrologic concerns can be addressed by either avoiding areas of high flood depths or through detailed engineering design. Turbine pedestals that experience high water should be made watertight, elevated above the base flood elevation, or moved to a new location. Note that our best management practice is to raise all turbine pedestals a minimum of 18" above the existing ground elevation to address minor localized flooding. Water depths that are less than 0.5 feet are considered localized flooding due to rainfall events do not require special considerations. Any impacts to defined flow paths (including road and crane crossings) will have an increased risk of erosion and should be stabilized as soon as possible per the project Storm Water Pollution Prevention Plan (SWPPP).

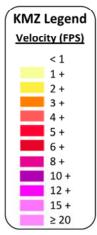
Next Steps

- 1. Final engineering design should account for the flood depths and velocities presented in Exhibits 6-7A.
- 2. Facilities to be elevated 1' above the 100-year, 24-hour peak flood elevations.
- 3. Proposed facilities should avoid existing and preliminary FEMA Flood Zones located onsite.
- Stormwater management should be revisited to ensure the final design meets the local and state requirements.
- 5. Low water crossing and culvert crossing locations should be identified and sized.

Included Output Files

- 1. Shapefile of 100-year Rain Event Flow Depth 2021-08-04_GroverHill_PrelimFlowDepthatCell_100yr.shp Attribute "ID" = Grid Cell Number Attribute "VAR" = Max Flow Depth (Feet)
- 2. KMZ of 100-year Rain Event Flow Depth 2021-08-04_GroverHill_PrelimFlowDepth_100yr.kmz Overlay in Google Earth for graphical representation.
- 3. Shapefile of 100-year Rain Event Velocity 2021-08-04_GroverHill_PrelimVelocityatCell_100yr.shp Attribute "ID" = Grid Cell Number Attribute "VAR" = Velocity (FPS)
- 4. KMZ of 100-year Rain Event Velocity 2021-08-04_GroverHill_PrelimVelocity_100yr.kmz Overlay in Google Earth for graphical representation.





References Cited

National Engineering Handbook, Part 630 Hydrology. Chapter 9 Hydrologic Soil-Cover Complexes. USDA. NRCS. 210-VI-NEH, July 2004

OGRIP, Ohio Geographically Reference Information Program. 2.5-foot DEM, Elevation Data, Retrieved July 2021, from https://ogrip.oit.ohio.gov/

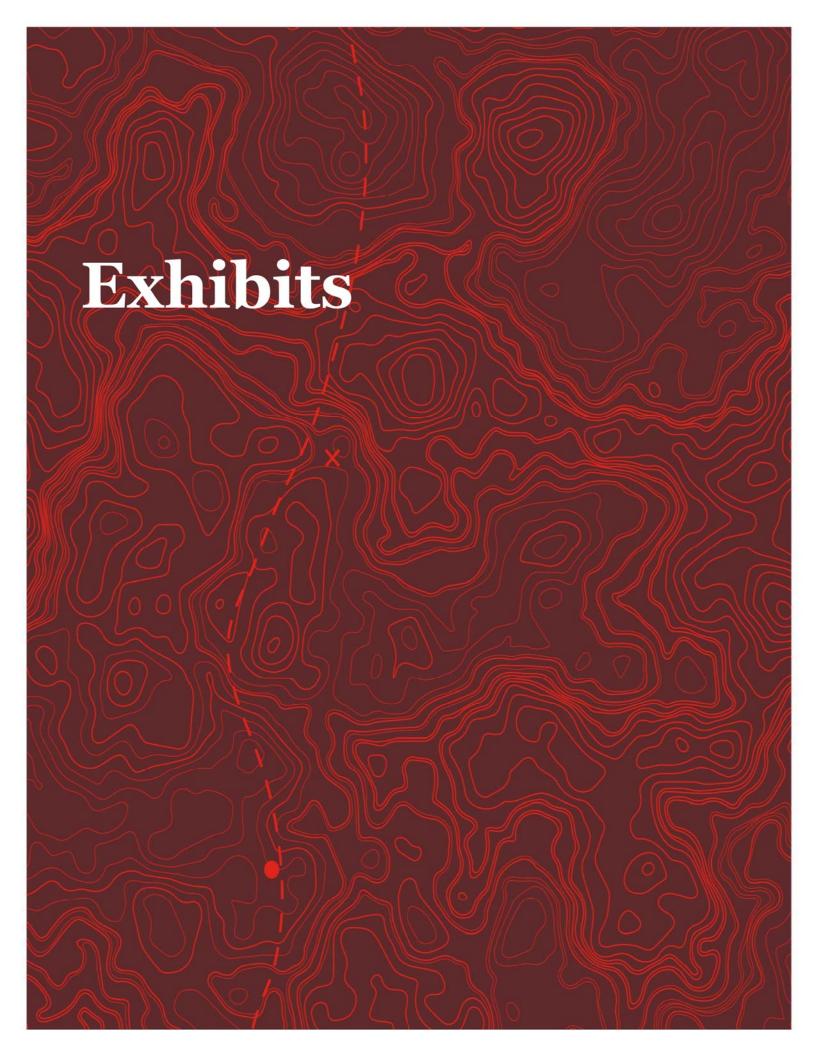
Web soil survey. Retrieved July 2021, from https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

NOAA Atlas 14 Point Precipitation Frequency Estimates. Retrieved July 2021, from https://hdsc.nws.noaa.gov/hdsc/pfds/

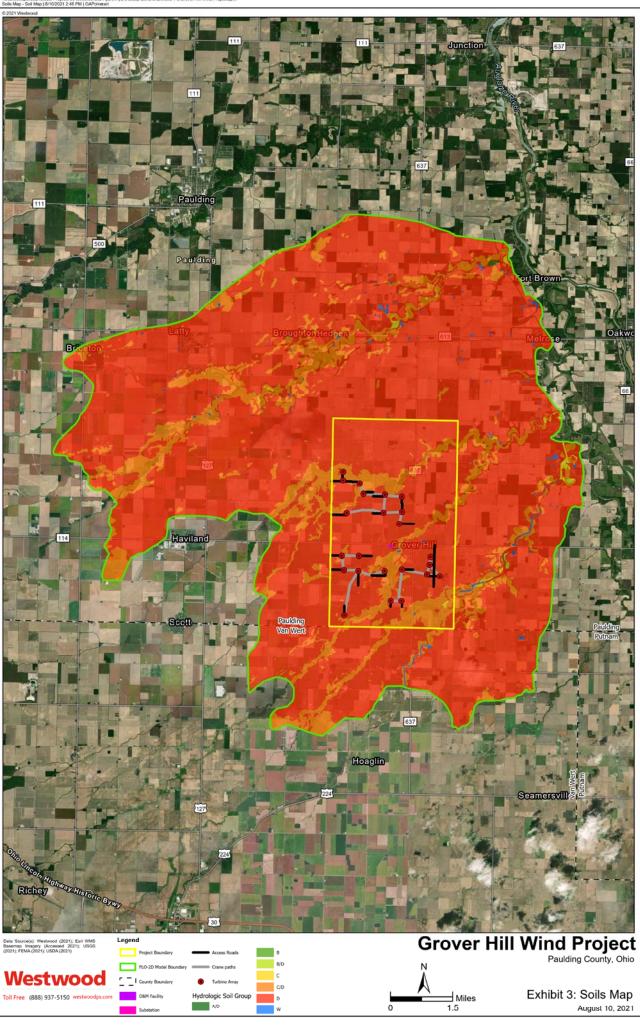
USGS. USGS water resources: About USGS water resources. Retrieved July 2021, from https://water.usgs.gov/GIS/huc.html

USDA 2013 Crop Data Layer, Landcover data. Retrieved July 2021, from https://www.nass.usda.gov/Research_and_Science/Cropland/SARS1a.php

FEMA Flood Insurance Rate Maps, Retrieved July 2021, from https://msc.fema.gov/portal/advanceSearch#searchresultsanchor



August 10, 2021



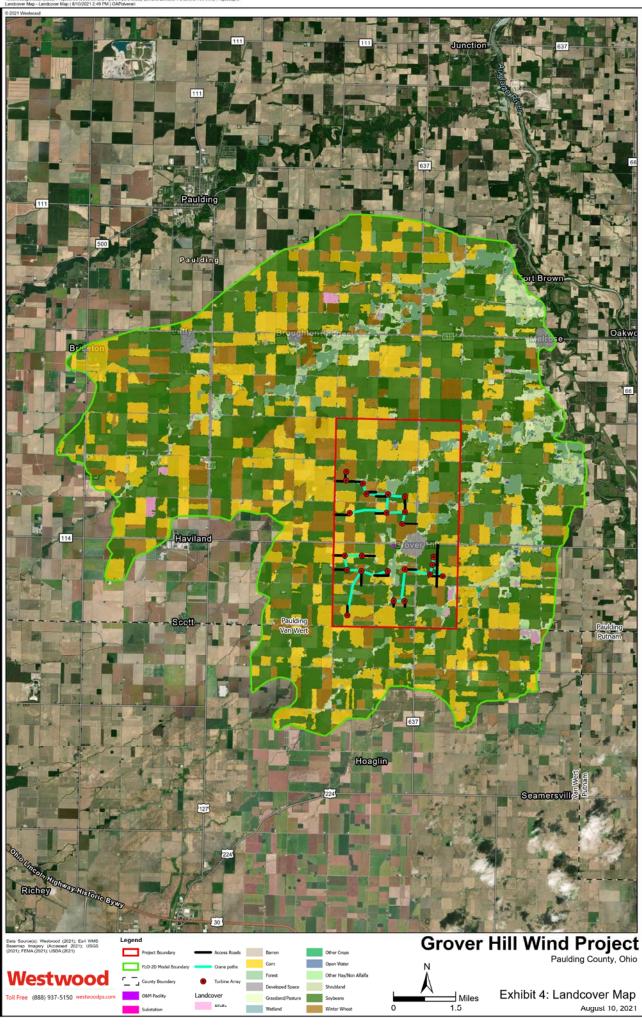
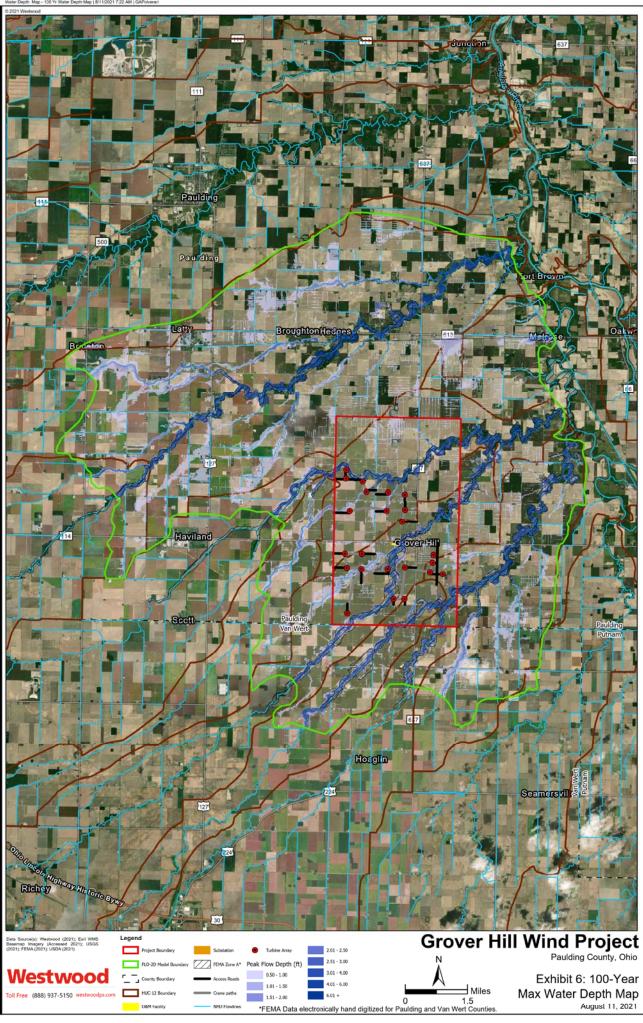
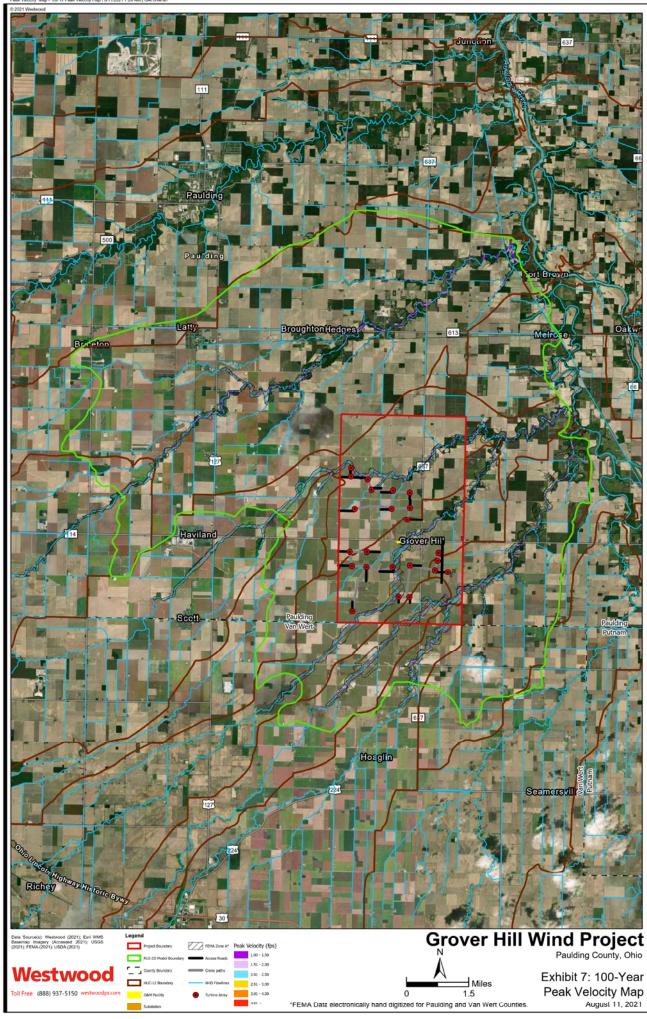
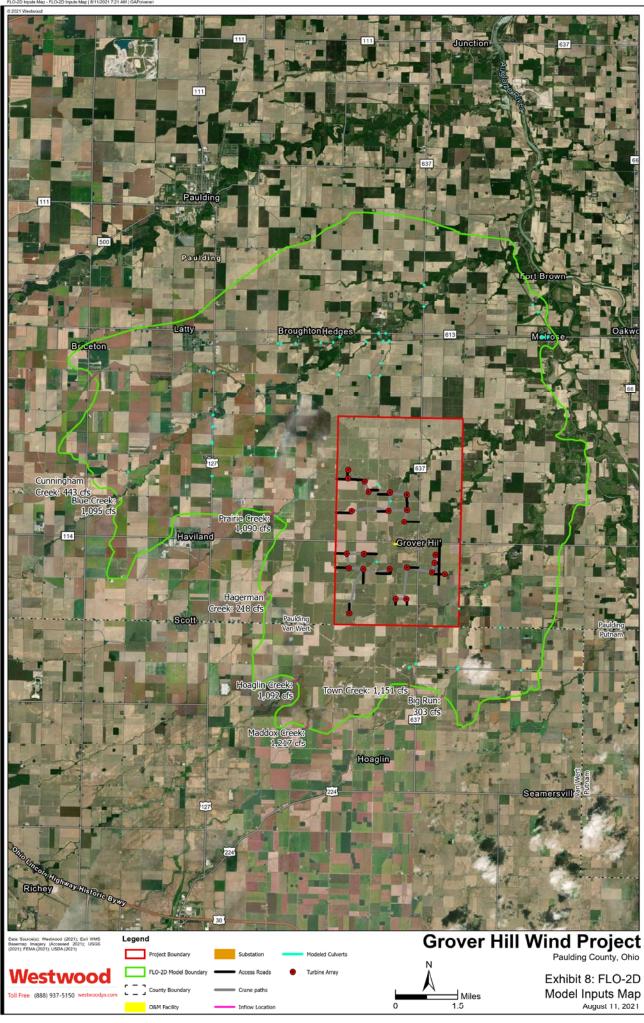


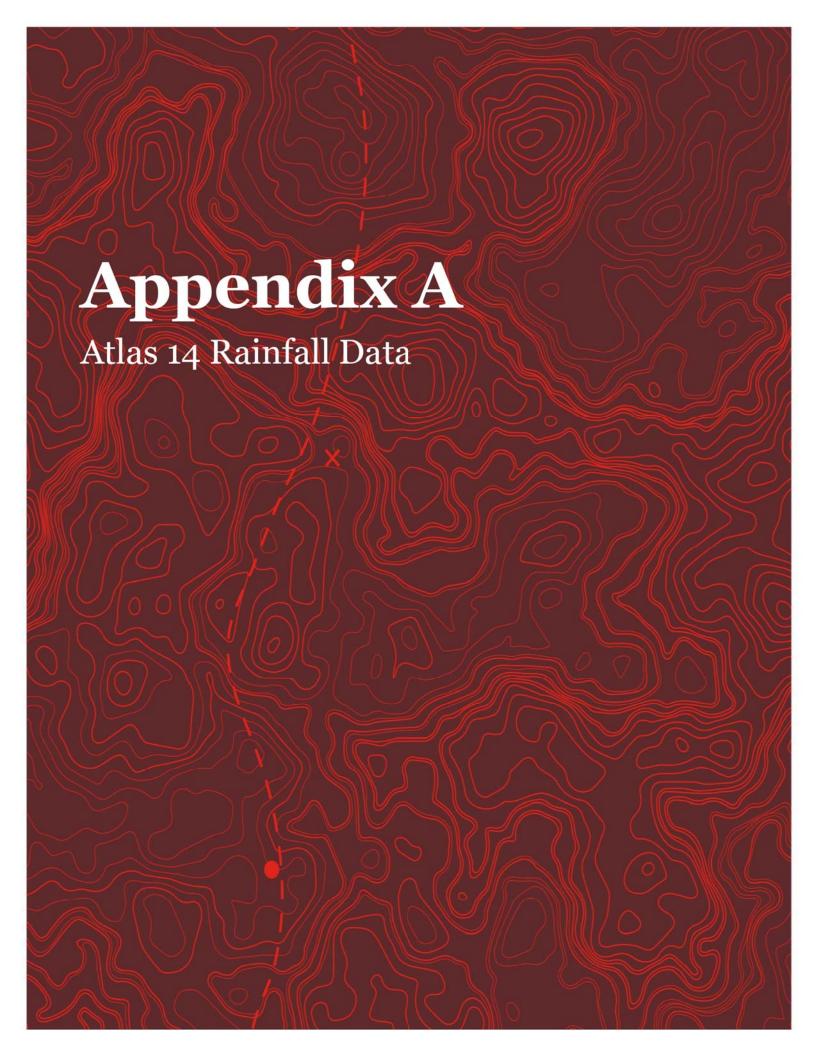
Exhibit 5: Curve Number and Topographic Source Map August 10, 2021 Toll Free (888) 937-5150 westwo





Velocity Project Area Map 2,000 *FEMA Data electronically hand digitized for Paulding and Van Wert Counties August 11, 2021







NOAA Atlas 14, Volume 2, Version 3 Location name: Grover Hill, Ohio, USA* Latitude: 41.0258°, Longitude: -84.4885° Elevation: 724.84 ft**

0258°, Longitude: -84.4885°
evation: 724.84 ft**

* source: ESRI Maps

** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M.Yekta, and D. Riley NOAA, National Weather Service, Silver Spring, Maryland

PF tabular | PF graphical | Maps & aerials

PF tabular

PD	S-based p	oint preci	pitation fr	requency	estimates	with 90%	confiden	ce interva	ls (in inch	es) ¹
Duration				Averaç	ge recurrenc	e interval (y	ears)			
Duration	1	2	5	10	25	50	100	200	500	1000
5-min	0.340 (0.306-0.379)	0.404 (0.365-0.450)	0.484 (0.437-0.538)	0.547 (0.493-0.607)	0.627 (0.563-0.695)	0.689 (0.615-0.761)	0.750 (0.667-0.829)	0.812 (0.719-0.897)	0.897 (0.786-0.990)	0.957 (0.833-1.06)
10-min	0.528 (0.476-0.588)	0.631 (0.570-0.702)	0.752 (0.679-0.836)	0.845 (0.760-0.937)	0.960 (0.861-1.06)	1.04 (0.933-1.15)	1.13 (1.00-1.25)	1.21 (1.07-1.34)	1.32 (1.16-1.46)	1.39 (1.21-1.54)
15-min	0.647 (0.583-0.721)	0.772 (0.697-0.859)	0.924 (0.833-1.03)	1.04 (0.936-1.15)	1.19 (1.06-1.31)	1.29 (1.15-1.43)	1.40 (1.25-1.55)	1.51 (1.34-1.67)	1.65 (1.44-1.82)	1.74 (1.52-1.93)
30-min	0.856 (0.771-0.954)	1.03 (0.933-1.15)	1.26 (1.14-1.41)	1.44 (1.30-1.60)	1.67 (1.50-1.85)	1.85 (1.65-2.04)	2.03 (1.80-2.24)	2.20 (1.95-2.43)	2.44 (2.14-2.69)	2.61 (2.27-2.89)
60-min	1.05 (0.942-1.17)	1.27 (1.15-1.41)	1.59 (1.43-1.76)	1.84 (1.65-2.04)	2.17 (1.95-2.40)	2.43 (2.17-2.69)	2.71 (2.41-2.99)	2.99 (2.64-3.30)	3.37 (2.95-3.72)	3.67 (3.19-4.05)
2-hr	1.22 (1.09-1.37)	1.48 (1.33-1.65)	1.85 (1.66-2.07)	2.16 (1.93-2.40)	2.58 (2.30-2.86)	2.91 (2.58-3.23)	3.27 (2.88-3.62)	3.64 (3.19-4.04)	4.16 (3.61-4.61)	4.56 (3.93-5.07)
3-hr	1.30 (1.18-1.45)	1.57 (1.42-1.75)	1.97 (1.78-2.19)	2.29 (2.06-2.54)	2.74 (2.45-3.03)	3.11 (2.77-3.43)	3.50 (3.09-3.86)	3.91 (3.43-4.31)	4.48 (3.89-4.94)	4.94 (4.25-5.45)
6-hr	1.53 (1.38-1.71)	1.84 (1.66-2.05)	2.30 (2.07-2.55)	2.68 (2.40-2.96)	3.22 (2.88-3.55)	3.67 (3.26-4.03)	4.15 (3.66-4.56)	4.67 (4.08-5.11)	5.41 (4.67-5.93)	6.02 (5.13-6.59)
12-hr	1.78 (1.61-1.99)	2.14 (1.94-2.37)	2.65 (2.40-2.94)	3.09 (2.79-3.42)	3.72 (3.33-4.09)	4.23 (3.77-4.65)	4.80 (4.24-5.26)	5.39 (4.72-5.92)	6.26 (5.41-6.86)	6.97 (5.97-7.63)
24-hr	2.09 (1.95-2.25)	2.51 (2.34-2.70)	3.09 (2.89-3.33)	3.57 (3.33-3.85)	4.26 (3.95-4.57)	4.81 (4.45-5.16)	5.40 (4.97-5.78)	6.01 (5.50-6.45)	6.87 (6.23-7.39)	7.57 (6.82-8.15)
2-day	2.41 (2.25-2.59)	2.89 (2.70-3.10)	3.54 (3.31-3.79)	4.06 (3.79-4.35)	4.80 (4.46-5.13)	5.40 (5.00-5.77)	6.02 (5.55-6.43)	6.66 (6.11-7.13)	7.57 (6.89-8.11)	8.29 (7.49-8.91)
3-day	2.59 (2.43-2.77)	3.09 (2.90-3.30)	3.77 (3.54-4.03)	4.31 (4.04-4.60)	5.07 (4.74-5.40)	5.68 (5.29-6.05)	6.31 (5.85-6.72)	6.96 (6.42-7.42)	7.87 (7.20-8.41)	8.58 (7.80-9.19)
4-day	2.77 (2.61-2.95)	3.30 (3.11-3.51)	4.00 (3.77-4.26)	4.56 (4.30-4.85)	5.35 (5.01-5.68)	5.97 (5.58-6.34)	6.61 (6.15-7.02)	7.26 (6.73-7.72)	8.16 (7.51-8.70)	8.87 (8.11-9.47)
7-day	3.23 (3.04-3.41)	3.83 (3.62-4.06)	4.62 (4.36-4.89)	5.25 (4.96-5.55)	6.12 (5.76-6.46)	6.82 (6.39-7.20)	7.52 (7.03-7.95)	8.25 (7.68-8.74)	9.25 (8.53-9.83)	10.0 (9.19-10.7)
10-day	3.67 (3.48-3.88)	4.35 (4.13-4.60)	5.19 (4.92-5.49)	5.86 (5.54-6.20)	6.78 (6.39-7.16)	7.50 (7.05-7.92)	8.23 (7.71-8.70)	8.97 (8.37-9.49)	9.98 (9.24-10.6)	10.8 (9.90-11.5)
20-day	5.01 (4.76-5.30)	5.91 (5.61-6.24)	6.94 (6.57-7.32)	7.74 (7.32-8.17)	8.82 (8.32-9.30)	9.65 (9.08-10.2)	10.5 (9.83-11.1)	11.3 (10.6-11.9)	12.4 (11.5-13.1)	13.2 (12.2-14.0)
30-day	6.21 (5.92-6.53)	7.30 (6.95-7.67)	8.46 (8.05-8.89)	9.35 (8.89-9.82)	10.5 (9.97-11.0)	11.4 (10.8-11.9)	12.2 (11.5-12.8)	13.0 (12.2-13.7)	14.0 (13.1-14.7)	14.7 (13.8-15.5)
45-day	7.98 (7.60-8.40)	9.35 (8.90-9.85)	10.7 (10.2-11.3)	11.8 (11.2-12.4)	13.1 (12.4-13.7)	14.0 (13.3-14.8)	15.0 (14.2-15.8)	15.8 (15.0-16.7)	16.9 (15.9-17.8)	17.7 (16.6-18.7)
60-day	9.69 (9.22-10.2)	11.3 (10.8-11.9)	12.9 (12.3-13.6)	14.1 (13.4-14.8)	15.6 (14.8-16.4)	16.7 (15.8-17.5)	17.7 (16.8-18.6)	18.7 (17.6-19.6)	19.9 (18.7-20.9)	20.7 (19.4-21.9)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

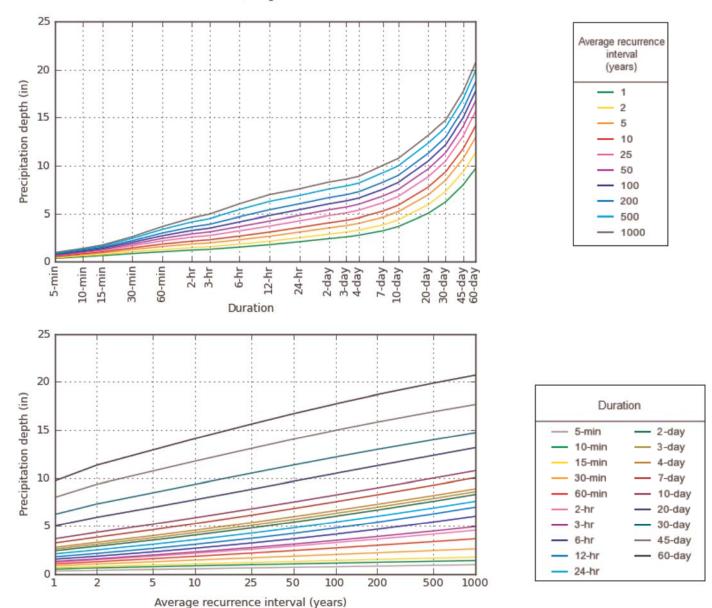
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical

PDS-based depth-duration-frequency (DDF) curves Latitude: 41.0258°, Longitude: -84.4885°



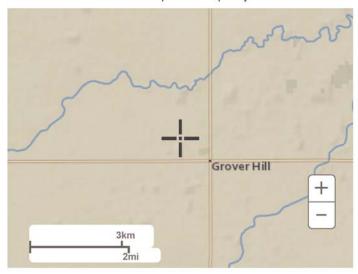
NOAA Atlas 14, Volume 2, Version 3

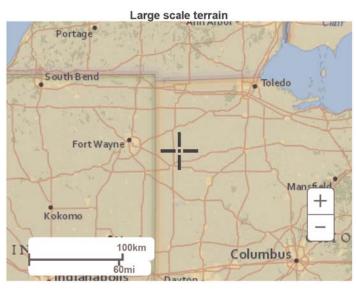
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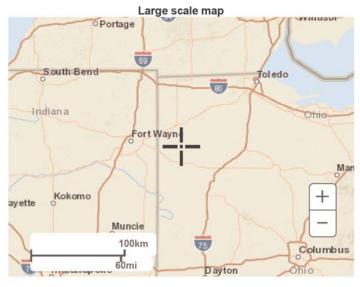
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Maps & aerials

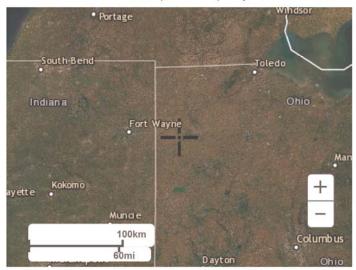
Small scale terrain







Large scale aerial



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1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

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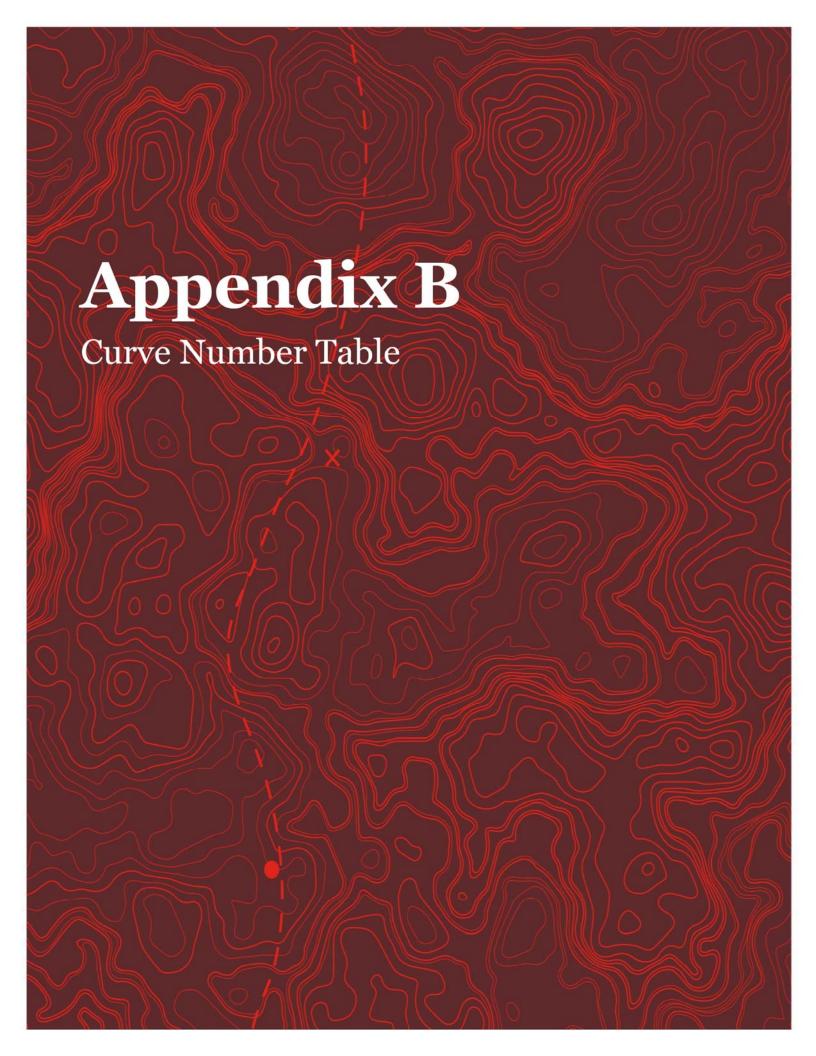
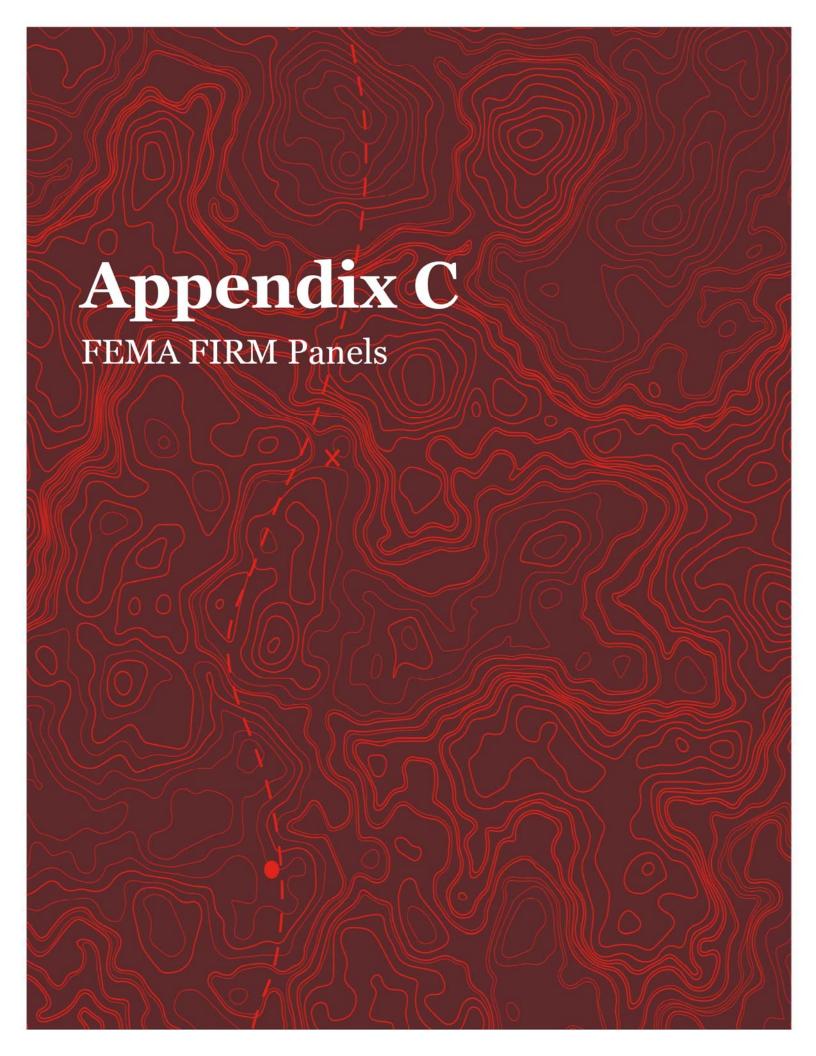
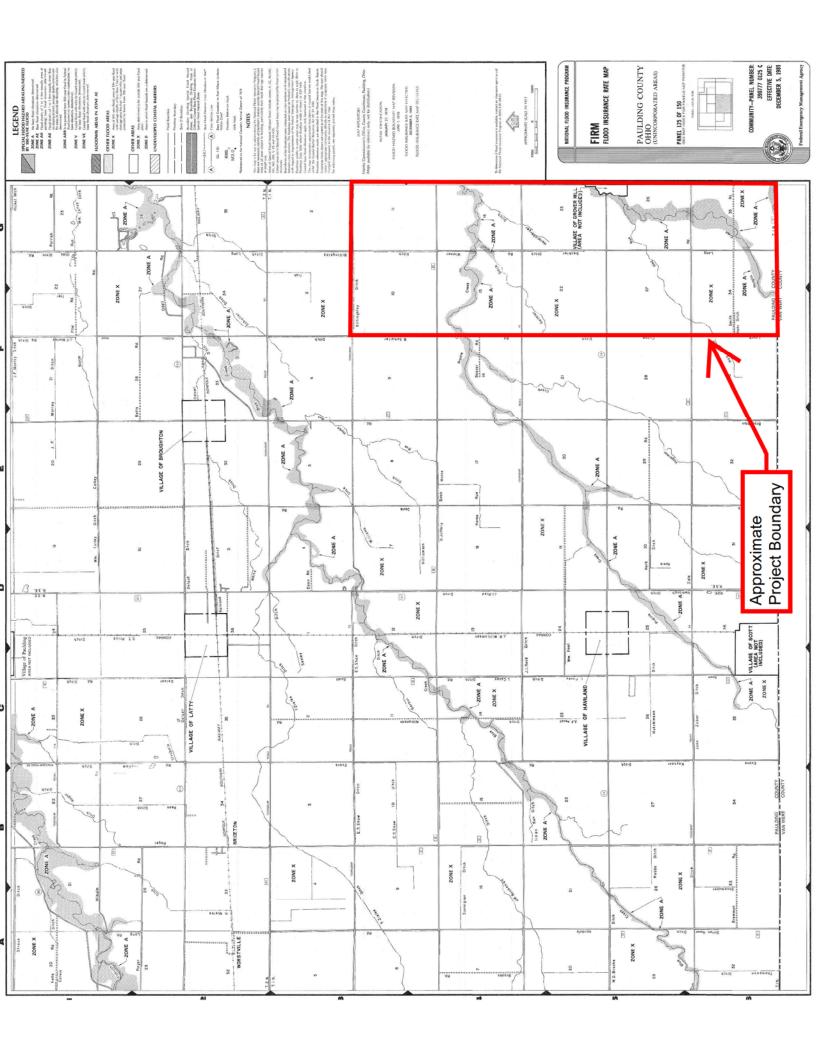


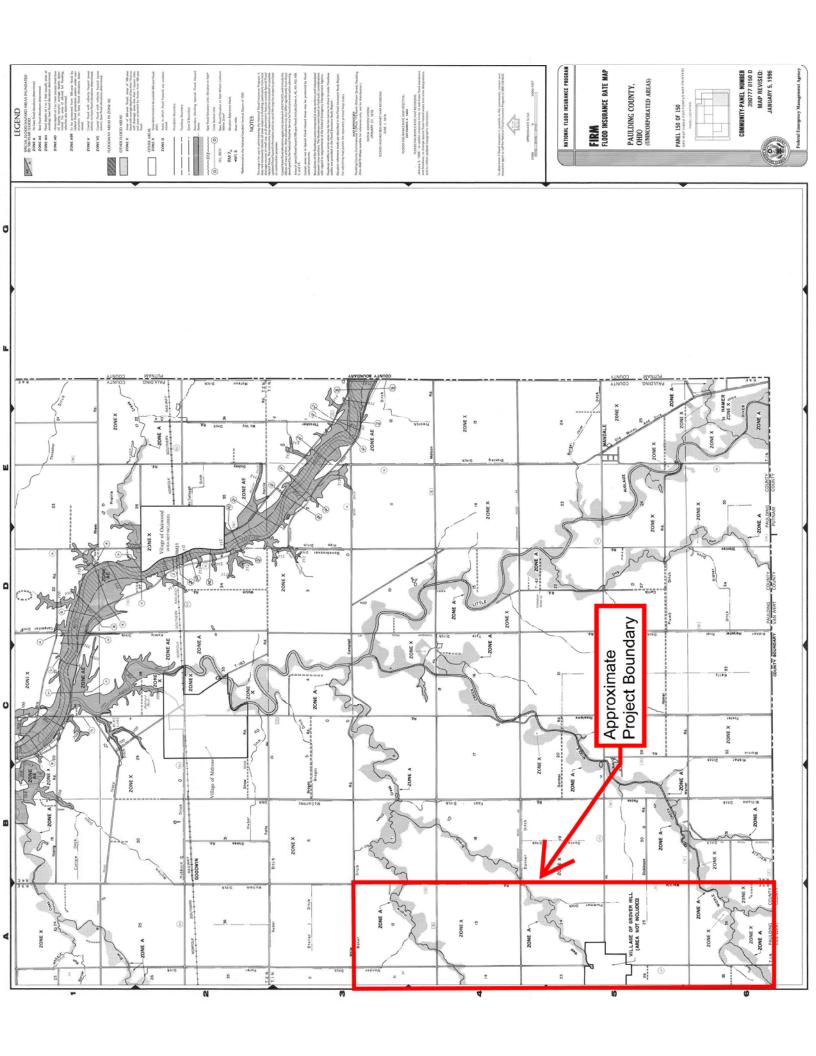
Table 1. Standard Curve Numbers

				٥	Curve Number	e	
					Soil Type*		
Class	Value	Classification Description [NLCD 2006]	⋖	В	J	۵	*
19:	11	11 Open Water - areas of open water, generally with less than 25% cover of vegetation or soil.	86	86	86	86	100
JsW	12	2 Perennial Ice/Snow - areas characterized by a perennial cover of ice and/or snow, generally greater than 25% of total	86	86	86	86	100
	21		46				
pədoja	22	_	61	75	83	87	100
Deve	23	3 Developed, Medium Intensity – areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50% to 79% of the total cover. These areas most commonly include single-family housing units.	77	85	06	95	100
	24	4 Developed High Intensity -highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80% to 100% of the total cover.	88	92	94	95	100
Barren	31		77	98	91	94	100
1	41	Deciduous Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species shed foliage simultaneously in response to seasonal change.	43	55	02	77	100
Fores	42	Evergreen Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species maintain their leaves all year. Canopy is never without green foliage.	43	55	0/	77	100
	43	Mixed Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. Neither deciduous nor evergreen species are greater than 75% of total tree cover.	43	55	70	77	100
puelo	51	Dwarf Scrub - Alaska only areas dominated b 20% of total vegetation. This type is often co-	43	48	59	73	100
Shrub	52	Shrub/Scrub - areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.	43	48	59	73	100
sn	71	_	43	28	71	78	100
расео	72	Sedge/Herbaceous - Alaska only areas dom This type can occur with significant other gras tundra.	43	58	71	78	100
ıән	73		43	48	65	73	100
	74	74 Moss - Alaska only areas dominated by mosses, generally greater than 80% of total vegetation.	43	48	9	73	100
	81	Pasture/Hay – areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20% of total vegetation.	43	58	71	78	100
,betne Stev	82	2 Cultivated Crops – areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of total vegetation. This class also includes all land heing actively tilled.	29			68	100
ld	83	83 Small Grains	63	75	83	87	100
tlan Is	91	91 Woody Wetlands - areas where forest or shrubland vegetation accounts for greater than 20% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.	45	99	77	83	100
-	92	Emergent Herbaceous Wetlands - Areas will year a solution of the solution of	45	99	<i>LL</i>	83	100
*A/D, B/D	and C/D soi	*A/D, B/D and C/D soils lumped as D soils, W denotes water					

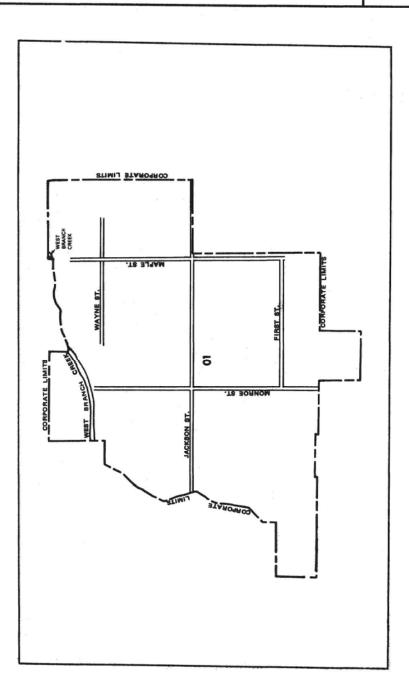
*A/D, B/D and C/D soils lumped as D soils, W denotes water
**Curve Numbers for NLCD Codes 41-81 have been increased from 30 to 43 as many of these areas are partially grazed Woods-grass combination.











ZONE A

ZONE DESIGNATIONS*

ZONE C

ZONE C

Base Flood Elevation Line with elevation in feet Base Flood Elevation where uniform within zone Elevation Reference Mark

River Mile

EL 987) RM7_x •M1.5

*EXPLANATION OF ZONE DESIGNATIONS

A flood insurance may display the zone designations for a Community accerding to areas of designate flood hazards. The zone designations used by FEMA are

EXPLANATION

Areas of 100-year shallow flooding where depths are between one (1) and three (3) fee average depths of insundation are shown, but no flood hazard factors are determined Areas of 100-year flood base flood elevations and flood hazard factors not det ۷ 9

Areas of 1807-par shallow (fooding where depths are between one (1) and three (3) feet base flood elevations are determined.
Areas of 1807-par flood, base flood charand flood hazand latters determined. A1-A30 ¥

Areas of Ideysas flood to be protected by flood protection system under com-base flood elevations and flood hazard factors not determined A99

Areas between limits of the 1889-sea fixed and 5089-sea fixed, or certain areas subject to likelysea freeding with average depth less than one (1) fixed or where the constituting delabage area is best than one square mile, or areas protected by leveus from the base freed (declama skading)

Areas of mishmal Rooding (No shading)
Area of selectioning, by possible fixed bazards
Areas of selectioning, by possible fixed bazards
Areas of Vibrara counts flood with velocity (now action), have flood elevations and
flood hazas of Vibrara counts flood with velocity (now action), base flood elevations and
flood hazard cucken determined V1-V30

NOTES TO USER

Cestain areas not in the special flood hazard areas (cones A and V) may be protected by flood controls effectees.

INITIAL IDENTIFICATION: JUNE 24, 1977

FLOOD HAZARD BOUNDARY MAP REVISION

FLOOD INSURANCE RATE MAP EFFECTIVE: AUGUST 19, 1986

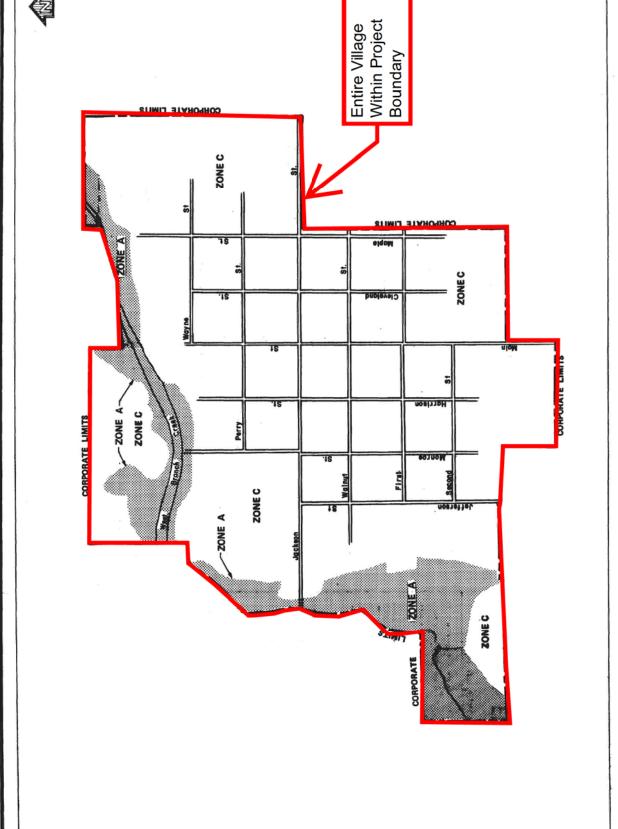
FLOOD INSURANCE RATE MAP REVISIONS:

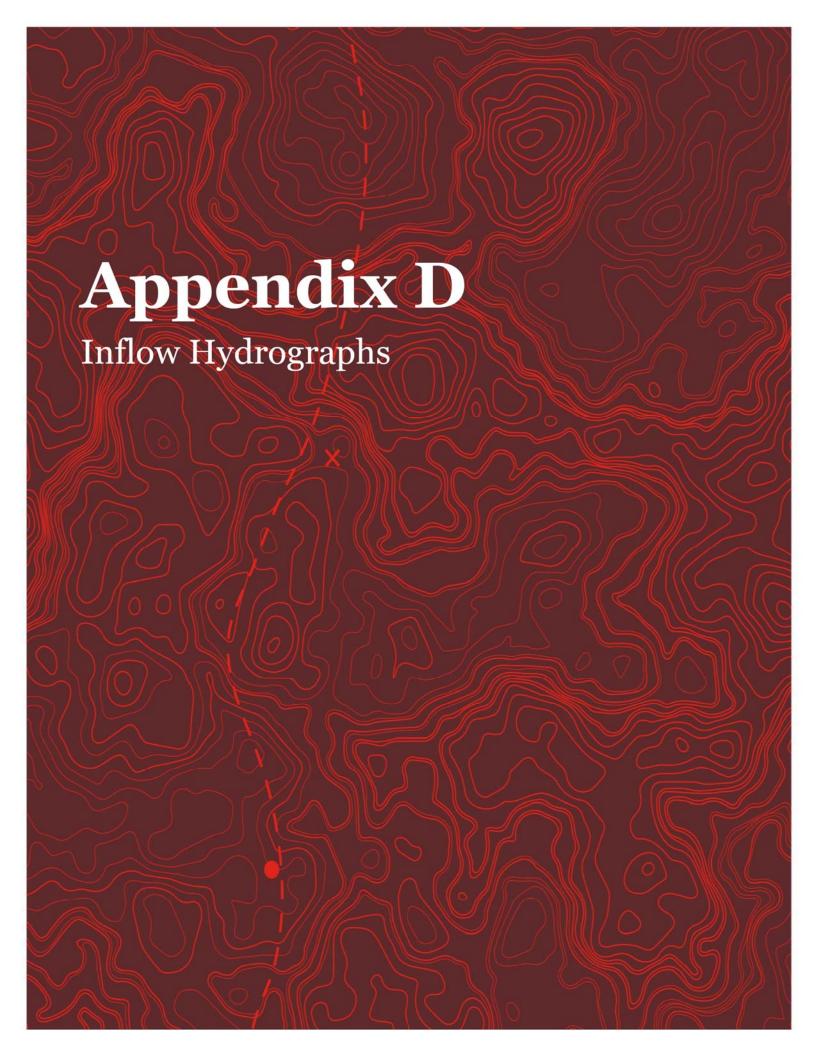
FEDERAL EMERGENCY MANAGEMENT AGENCY

FLOOD INSURANCE RATE MAP 01 VILLAGE OF GROVER HILL, OH **MAP INDEX** PAULDING COUNTY

COMMUNITY NUMBER 390436 B

PAULDING COUNTY VILLAGE OF GROVER HILL, OH FEDERAL EMERGENCY MANAGEMENT AGENCY APPROXIMATE SCALE Entire Village Within Project Boundary CORPORATE LIMITS **ZONE C** CORPORATE LIMITS





THE MAXIMUM DISCHARGE FROM CROSS SECTION 17 IS: 302.74 CFS AT TIME: 17.38 HOURS

THE TOTAL VOLUME OF DISCHARGE IS: 706.57 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 17

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

VELOCI	T - AVERAGE	CKO33 SECTION	VELOCITY (BASED	ON DISCHARGE	AND FLOW AREA)
TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00

4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00 6.10	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	29.04	0.00	733.22	0.01	0.00
7.40	58.58	0.00	733.22	0.02	0.00
7.50	105.29	0.00	733.22	0.02	0.01
7.60	154.60	0.00	733.22	0.01	0.01
7.70	175.73	0.00	733.22	0.01	0.01
7.80	202.73	0.00	733.22	0.01	0.01
7.90	239.19	0.00	733.23	0.01	0.01
8.00	283.72	0.00	733.23	0.01	0.01
8.10	292.89	0.01	733.23	0.01	0.01
8.20	292.89	0.01	733.23	0.01	0.01
8.30	318.09	0.01	733.23	0.01	0.02
8.40	386.15	0.01	733.23	0.01	0.01
8.50	440.58	0.01	733.23 733.23	0.01	0.02
8.60 8.70	510.05	0.01 0.01	733.23	0.01 0.01	0.03 0.04
8.80	623.67 786.46	0.01	733.23	0.01	0.06
8.90	933.65	0.01	733.23	0.01	0.08
9.00	1000.55	0.01	733.23	0.01	0.09
9.10	1105.90	0.01	733.23	0.01	0.11
9.20	1231.55	0.01	733.23	0.01	0.14
9.30	1281.81	0.01	733.23	0.01	0.16
9.40	1383.60	0.01	733.23	0.01	0.19
9.50	1424.27	0.01	733.23	0.01	0.21
9.60	1442.32	0.01	733.23	0.01	0.23
9.70	1511.37	0.01	733.23	0.01	0.26
9.80	1575.45	0.01	733.23	0.01	0.29
9.90	1633.47	0.01	733.24	0.01	0.32
10.00	1694.19	0.02	733.24	0.01	0.35
10.10	1740.44	0.02	733.24	0.01	0.38
10.20	1779.36	0.02	733.24	0.01	0.41
10.30	1879.42	0.02	733.24	0.01	0.44
10.40	1922.17	0.02	733.24	0.01	0.49
10.50	1929.76	0.02	733.24	0.01	0.54

10.60	1957.92	0.02	733.24	0.01	0.59
10.70	2002.47	0.02	733.24	0.02	0.68
10.80	2038.91	0.02	733.24	0.02	0.76
10.90	2108.21	0.03	733.25	0.02	0.83
11.00	2146.03	0.03	733.25	0.02	0.93
11.10	2151.46	0.03	733.25	0.02	1.04
11.20	2187.85	0.03	733.25	0.02	1.17
11.30	2207.20	0.03	733.25	0.02	1.32
11.40	2307.89	0.04	733.26	0.02	1.52
11.50	2359.08	0.04	733.26	0.02	1.77
11.60	2443.88	0.05	733.27	0.02	2.33
11.70	2537.48	0.06	733.28	0.02	3.35
11.80	2635.83	0.07	733.29	0.03	4.95
11.90	2702.50	0.10	733.32	0.03	9.40
12.00	2579.10	0.14	733.36	0.05	16.18
12.10	2692.82	0.17	733.39	0.05	23.99
12.20	2712.94	0.19	733.41	0.06	32.00
12.30	2649.11	0.22	733.44	0.07	41.31
12.40	2689.42	0.23	733.45	0.08	49.54
12.50	2684.68	0.25	733.47	0.09	59.37
12.60	2687.23	0.26	733.48	0.10	68.24
12.70	2741.14	0.27	733.49	0.10	75.90
12.80	2779.99	0.29	733.51	0.10	83.00
12.90	2778.78	0.30	733.52	0.11	91.64
13.00	2778.30	0.31	733.53	0.12	100.25
13.10	2777.45	0.32	733.54	0.12	108.41
13.20	2777.17	0.33	733.55	0.13	116.34
13.30	2777.17	0.34	733.56	0.13	124.28
13.40	2777.52	0.35	733.57	0.13	131.58
13.50	2777.17	0.36	733.58	0.14	138.85
13.60					146.02
	2776.67	0.37	733.59	0.14	
13.70	2776.38	0.38	733.60	0.15	154.19
13.80	2775.81	0.38	733.61	0.15	162.05
13.90	2774.11	0.39	733.61	0.16	169.43
14.00	2772.97	0.40	733.62	0.16	177.78
14.10	2770.70	0.40	733.62	0.17	186.67
14.20	2770.70	0.41	733.63	0.17	195.39
14.30	2770.70	0.42	733.64	0.18	202.86
14.40	2756.91	0.42	733.64	0.18	210.07
14.50	2770.70	0.43	733.65	0.18	217.78
14.60	2770.70	0.43	733.65	0.19	225.32
14.70	2770.70	0.44	733.66	0.19	233.14
14.80	2770.70	0.44	733.66	0.20	240.07
14.90	2798.24	0.44	733.66	0.20	247.05
15.00	2799.98	0.45	733.67	0.20	253.36
15.10	2799.98	0.45		0.21	259.12
			733.67		
15.20	2799.98	0.45	733.67	0.21	264.62
15.30	2799.98	0.45	733.67	0.21	268.75
15.40	2799.69	0.45	733.67	0.22	273.12
15.50	2799.98	0.45	733.68	0.22	277.33
15.60	2799.98	0.46	733.68	0.22	280.90
15.70	2799.98	0.46	733.68	0.22	283.63
15.80	2799.98	0.46	733.68	0.22	286.18
15.90	2799.98	0.46	733.68	0.23	288.41
16.00	2799.98	0.46	733.68	0.23	290.73
16.10	2799.98	0.46	733.68	0.23	292.49
16.20	2799.98	0.46	733.68	0.23	293.82
16.30	2799.98	0.46	733.68	0.23	295.46
16.40	2799.98	0.46	733.68	0.23	296.86
10.40	2, 33.30	0.40	755.00	0.23	270.00

16.50	2799.98	0.46	733.68	0.23	296.90
16.60	2799.98	0.46	733.68	0.23	298.59
16.70	2799.98	0.46	733.68	0.24	299.56
16.80	2799.98	0.45	733.68	0.24	300.59
16.90	2799.98	0.45	733.67	0.24	301.47
17.00	2799.98	0.45	733.67	0.24	302.09
17.10	2799.98	0.45	733.67	0.24	302.42
17.20	2799.98	0.45	733.67	0.24	302.56
17.30	2799.98	0.45	733.67	0.24	302.67
17.40	2799.98	0.45	733.67	0.24	302.72
17.50	2799.98	0.45	733.67	0.24	302.53
17.60	2799.98	0.45	733.67	0.24	302.31
17.70	2799.98	0.45	733.67	0.24	302.12
17.70	2799.98	0.45	733.67	0.24	301.79
17.90	2799.98	0.44	733.66	0.24	301.73
18.00	2799.98	0.44	733.66	0.24	300.80
18.10	2799.98	0.44	733.66		300.21
				0.24	
18.20	2799.98	0.44	733.66	0.24	299.56
18.30	2799.98	0.44	733.66	0.24	298.88
18.40	2799.98	0.44	733.66	0.24	298.16
18.50	2799.98	0.44	733.66	0.24	297.43
18.60	2799.98	0.43	733.66	0.24	296.67
18.70	2799.98	0.43	733.65	0.24	295.88
18.80	2799.98	0.43	733.65	0.24	295.08
18.90	2799.98	0.43	733.65	0.24	294.28
19.00	2799.98	0.43	733.65	0.24	293.50
19.10	2799.98	0.43	733.65	0.24	292.72
19.20	2799.98	0.43	733.65	0.24	291.96
19.30	2799.98	0.42	733.64	0.25	291.22
19.40	2799.98	0.42	733.64	0.25	290.50
19.50	2799.98	0.42	733.64	0.25	289.82
19.60	2799.98	0.42	733.64	0.25	289.18
19.70	2799.98	0.42	733.64	0.25	288.56
19.80	2799.98	0.42	733.64	0.25	287.99
19.90	2799.98	0.42	733.64	0.25	287.48
20.00	2797.83	0.41	733.64	0.25	287.05
20.10	2791.02	0.41	733.63	0.25	286.63
20.20	2786.18	0.41	733.63	0.25	286.24
20.30	2780.14	0.41	733.63	0.25	285.97
20.40	2775.82	0.41	733.63	0.25	285.68
20.50	2770.21	0.41	733.63	0.25	285.42
20.60	2765.04	0.41	733.63	0.25	285.18
20.70	2759.43	0.41	733.63	0.25	284.92
20.80	2758.56	0.41	733.63	0.25	284.70
20.90	2758.56	0.41	733.63	0.25	284.53
21.00	2758.56	0.40	733.62	0.26	284.40
21.10	2758.56	0.40	733.62	0.26	284.29
21.20	2758.56	0.40	733.62	0.26	284.19
21.30	2758.56	0.40	733.62	0.26	284.10
21.40	2758.56	0.40	733.62	0.26	284.01
21.50	2758.56	0.40	733.62	0.26	283.92
21.60	2758.56	0.40	733.62	0.26	283.83
					283.83
21.70	2757.02	0.40	733.62	0.26	
21.80	2756.71	0.40	733.62	0.26	283.61
21.90	2749.31	0.40	733.62	0.26	283.49
22.00	2742.53	0.40	733.62	0.26	283.34
22.10	2736.67	0.39	733.62	0.26	283.17
22.20	2730.52	0.39	733.61	0.26	282.98
22.30	2729.27	0.39	733.61	0.26	282.74

22.40	2729.27	0.39	733.61	0.26	282.49
22.50	2728.97	0.39	733.61	0.26	282.21
22.60	2718.36	0.39	733.61	0.27	281.91
22.70	2696.20	0.39	733.61	0.27	281.58
22.80	2680.73	0.39	733.61	0.27	281.24
22.90	2666.66	0.39	733.61	0.27	280.86
23.00	2658.56	0.39	733.61	0.27	280.45
23.10	2652.33	0.39	733.61	0.27	280.12
23.20	2689.72	0.39	733.61	0.27	280.03
23.30	2679.13	0.38	733.61	0.27	279.26
23.40	2676.01	0.38	733.60	0.27	278.64
23.50	2669.59	0.38	733.60	0.27	278.08
23.60	2662.30	0.38	733.60	0.27	277.57
23.70	2657.01	0.38	733.60	0.27	277.07
23.80	2653.84	0.38	733.60	0.27	276.37
23.90	2650.06	0.38	733.60	0.27	275.66
24.00	2646.10	0.38	733.60	0.28	275.08
24.10	2643.76	0.38	733.60	0.28	274.23
24.20	2641.87	0.38	733.60	0.28	273.16
24.30	2639.56	0.37	733.59	0.28	272.02
24.40	2637.15	0.37	733.59	0.28	270.91
24.50	2635.57	0.37	733.59	0.28	270.00
24.60	2632.42	0.37	733.59	0.28	268.80
24.70	2630.53	0.37	733.59	0.28	267.79
24.80	2629.27	0.37	733.59	0.28	266.69
24.90	2629.27	0.37	733.59	0.28	265.66
25.00	2629.27	0.36	733.58	0.28	264.48
25.10	2601.66	0.36	733.58	0.28	263.25
25.20	2587.85	0.36	733.58	0.28	262.19
25.30	2587.85	0.36	733.58	0.28	260.97
25.40	2587.85	0.36	733.58	0.28	259.73
25.50	2587.85	0.36	733.58	0.28	258.46
25.60	2587.85	0.36	733.58	0.28	257.30
25.70	2577.35	0.35	733.57	0.28	256.12
25.80	2561.08	0.35	733.57	0.28	255.26
25.90	2567.80	0.35	733.57	0.28	254.03
26.00	2571.62	0.35	733.57	0.28	252.64
26.10	2573.85	0.35	733.57	0.28	251.26
26.20	2575.12	0.35	733.57	0.28	249.91
26.30	2576.07	0.35	733.57	0.28	248.57
26.40	2571.81	0.34	733.56	0.28	247.25
26.50	2566.86	0.34	733.56	0.28	246.24
26.60	2562.08	0.34	733.56	0.28	245.21
26.70	2557.86	0.34	733.56	0.28	243.83
26.80	2553.35	0.34	733.56	0.28	242.44
26.90	2549.71	0.34	733.56	0.28	241.13
27.00	2544.91	0.34	733.56	0.28	239.95
27.10	2540.26	0.33	733.55	0.28	238.59
27.10	2540.38	0.33	733.55	0.28	237.66
27.20	2542.89	0.33	733.55	0.28	236.37
27.40	2544.82	0.33	733.55	0.28	234.91
27.50	2546.11	0.33	733.55	0.28	233.46
27.60	2546.43	0.33	733.55	0.28	232.15
27.70	2546.43	0.33	733.55	0.28	230.85
27.70	2546.43	0.32	733.54	0.28	229.45
27.90	2546.43	0.32	733.54	0.28	228.05
28.00	2546.43	0.32	733.54	0.28	226.69
28.10	2546.43	0.32	733.54	0.28	225.32
28.20	2546.43	0.32	733.54	0.28	223.93
20.20	2540.45	0.52	, 55.54	0.20	223.33

28.30	2545.14	0.32	733.54	0.28	222.73
28.40	2543.50	0.32	733.54	0.28	221.37
28.50	2541.28	0.31	733.54	0.28	219.98
28.60	2540.64	0.31	733.53	0.27	218.58
28.70	2539.60	0.31	733.53	0.27	217.25
28.80	2538.71	0.31	733.53	0.27	215.99
28.90	2537.97	0.31	733.53	0.27	214.72
29.00	2537.10	0.31	733.53	0.27	213.44
29.10	2536.02	0.31	733.53	0.27	212.09
29.20	2535.37	0.30	733.53	0.27	210.78
29.30	2534.52	0.30	733.52	0.27	209.49
29.40	2514.28	0.30	733.52	0.27	208.17
29.50	2504.23	0.30	733.52	0.27	206.86
29.60	2509.10	0.30	733.52	0.27	205.59
29.70	2513.51	0.30	733.52	0.27	204.34
29.80	2516.35	0.30	733.52	0.27	203.11
29.90	2520.63	0.30	733.52	0.27	201.89
30.00	2519.49	0.29	733.51	0.27	200.67
30.10	2520.89	0.29	733.51	0.27	199.46
30.20	2521.24	0.29	733.51	0.27	198.28
30.30	2505.10	0.29	733.51	0.27	197.31
30.40	2488.51	0.29	733.51	0.27	196.38
30.50	2463.45	0.29	733.51	0.28	195.12
					193.12
30.60	2463.12	0.29	733.51	0.28	
30.70	2463.17	0.28	733.51	0.27	192.81
30.80	2462.80	0.28	733.50	0.27	191.65
30.90	2462.84	0.28	733.50	0.27	190.49
31.00	2462.47	0.28	733.50	0.27	189.34
31.10	2462.51	0.28	733.50	0.27	188.19
31.20	2462.51	0.28	733.50	0.27	187.06
31.30	2461.82	0.28	733.50	0.27	186.22
31.40	2461.86	0.28	733.50	0.27	185.14
31.50	2462.51	0.28	733.50	0.27	184.01
31.60	2438.72	0.27	733.50	0.27	182.88
31.70	2420.11	0.27	733.49	0.27	181.77
31.80	2420.51	0.27	733.49	0.27	180.72
31.90	2419.87	0.27	733.49	0.27	179.89
32.00	2419.24	0.27	733.49	0.27	178.76
32.10	2419.93	0.27	733.49	0.27	177.64
32.20	2419.64	0.27	733.49	0.27	176.55
32.30	2419.64	0.27	733.49	0.27	175.46
32.40	2403.98	0.27	733.49	0.27	174.39
32.50	2394.09	0.26	733.49	0.27	173.45
32.60	2392.89	0.26	733.48	0.27	173.43
32.70	2393.00	0.26		0.27	
			733.48		171.44
32.80	2392.08	0.26	733.48	0.27	170.47
32.90	2392.13	0.26	733.48	0.27	169.44
33.00	2391.56	0.26	733.48	0.27	168.41
33.10	2391.56	0.26	733.48	0.27	167.39
33.20	2385.97	0.26	733.48	0.27	166.39
33.30	2325.81	0.26	733.48	0.28	165.49
33.40	2312.70	0.25	733.48	0.28	164.61
33.50	2305.63	0.25	733.47	0.28	163.74
33.60	2301.49	0.25	733.47	0.28	162.87
33.70	2264.23	0.25	733.47	0.28	161.97
33.80	2263.59	0.25	733.47	0.28	161.18
33.90	2264.24	0.25	733.47	0.28	160.66
34.00	2264.23	0.25	733.47	0.28	159.98
34.10	2263.59	0.25	733.47	0.28	158.81
24.10	2203.33	0.23	, 55.47	0.20	10.01

34.20	2264.17	0.25	733.47	0.28	157.69
34.30	2264.18	0.25	733.47	0.28	156.71
34.40	2256.12	0.24	733.47	0.28	155.73
34.50	2234.91	0.24	733.46	0.28	154.89
34.60	2234.92	0.24	733.46	0.28	154.11
34.70	2234.93	0.24	733.46	0.28	153.17
34.80	2194.68	0.24	733.46	0.29	152.49
34.90	2184.51	0.24	733.46	0.29	151.62
35.00	2165.92	0.24		0.29	150.82
35.10	2155.62	0.24	733.46 733.46	0.29	149.93
35.20	2132.43	0.24		0.30	149.93
			733.46		
35.30	2128.68	0.24	733.46	0.30	148.15
35.40	2129.71	0.23	733.46	0.29	147.26
35.50	2127.15	0.23	733.45	0.29	146.35
35.60	2121.57	0.23	733.45	0.29	145.68
35.70	2119.12	0.23	733.45	0.29	144.81
35.80	2114.77	0.23	733.45	0.29	143.97
35.90	2113.04	0.23	733.45	0.29	143.15
36.00	2095.75	0.23	733.45	0.30	142.45
36.10	2081.62	0.23	733.45	0.30	141.49
36.20	2079.86	0.23	733.45	0.30	140.59
36.30	2077.51	0.23	733.45	0.30	139.71
36.40	2075.65	0.23	733.45	0.30	139.15
36.50	2074.14	0.22	733.44	0.30	138.24
36.60	2064.79	0.22	733.44	0.30	137.56
36.70	2049.10	0.22	733.44	0.30	136.78
36.80	2014.73	0.22	733.44	0.30	136.02
36.90	1984.68	0.22	733.44	0.31	135.63
37.00	1967.15	0.22	733.44	0.31	134.98
37.10	1960.71	0.22	733.44	0.31	134.16
37.20	1956.92	0.22	733.44	0.31	133.30
37.30	1954.30	0.22	733.44	0.31	132.49
37.40	1950.42	0.22	733.44	0.31	131.68
37.50	1946.17	0.22	733.44	0.31	130.99
37.60	1942.01	0.21	733.44	0.31	130.21
37.70	1939.63	0.21	733.43	0.31	129.60
37.80	1938.53	0.21	733.43	0.31	128.91
37.90	1936.13	0.21	733.43	0.31	128.46
38.00	1934.30	0.21	733.43	0.31	127.70
38.10	1941.55	0.21	733.43	0.31	127.08
38.20	1920.76	0.21	733.43	0.31	126.41
38.30	1915.64	0.21	733.43	0.31	125.73
38.40	1910.55	0.21	733.43	0.31	125.11
38.50	1909.57	0.21	733.43	0.31	124.46
38.60	1894.70	0.21	733.43	0.32	124.28
38.70	1879.19	0.21	733.43	0.32	123.48
38.80	1874.50	0.21	733.43	0.32	122.94
38.90	1871.43	0.20	733.43	0.32	122.32
39.00	1864.93	0.20	733.42	0.32	121.54
39.10	1863.59	0.20	733.42	0.32	121.03
39.20	1858.80	0.20	733.42	0.32	120.11
39.30	1854.37	0.20	733.42	0.32	119.53
39.40	1854.57	0.20	733.42	0.32	119.55
39.50	1847.84	0.20	733.42	0.32	118.08
39.60	1845.87	0.20	733.42	0.32	117.56
39.70	1843.54	0.20	733.42	0.32	117.12
39.80	1839.99	0.20	733.42	0.32	116.51
39.90	1837.26	0.20	733.42	0.32	115.88
40.00	1838.07	0.20	733.42	0.32	115.15

40.10	1824.39	0.20	733.42	0.32	114.51
40.20	1808.30	0.20	733.42	0.32	113.85
40.30	1797.62	0.19	733.42	0.32	113.19
40.40	1786.32	0.19	733.41	0.33	112.80
40.50	1785.17	0.19	733.41	0.33	112.62
40.60	1779.26	0.19	733.41	0.33	111.63
40.70	1777.91	0.19	733.41	0.33	111.19
40.80	1779.13	0.19	733.41	0.33	110.44
40.90	1777.52	0.19	733.41	0.32	109.75
41.00	1777.90	0.19	733.41	0.32	109.73
41.10	1778.09	0.19	733.41	0.32	108.42
41.10	1778.29	0.19	733.41	0.32	107.77
				0.32	
41.30	1778.09	0.19	733.41	0.32	107.55
41.40	1777.92	0.19	733.41		106.84
41.50	1778.09	0.19	733.41	0.32	106.20
41.60	1778.00	0.19	733.41	0.32	106.01
41.70	1777.72	0.18	733.41	0.32	105.50
41.80	1757.56	0.18	733.40	0.32	105.01
41.90	1750.13	0.18	733.40	0.33	104.74
42.00	1748.64	0.18	733.40	0.33	104.08
42.10	1740.79	0.18	733.40	0.33	103.52
42.20	1723.42	0.18	733.40	0.33	102.88
42.30	1730.37	0.18	733.40	0.33	102.30
42.40	1730.37	0.18	733.40	0.33	101.69
42.50	1732.66	0.18	733.40	0.32	101.07
42.60	1734.40	0.18	733.40	0.32	100.47
42.70	1736.17	0.18	733.40	0.32	99.87
42.80	1738.65	0.18	733.40	0.32	99.30
42.90	1746.56	0.18	733.40	0.32	98.76
43.00	1745.42	0.18	733.40	0.32	98.19
43.10	1746.91	0.18	733.40	0.32	97.64
43.20	1747.12	0.18	733.40	0.32	97.12
43.30	1752.50	0.17	733.40	0.32	96.76
43.40	1754.81	0.17	733.40	0.31	96.30
43.50	1753.87	0.17	733.39	0.31	95.78
43.60	1750.48	0.17	733.39	0.31	95.28
43.70	1749.67	0.17	733.39	0.31	95.07
43.80	1748.42	0.17	733.39	0.31	94.62
43.90	1745.10	0.17	733.39	0.31	94.08
44.00	1743.92	0.17	733.39	0.31	93.57
44.10	1729.28	0.17	733.39	0.32	93.09
44.20	1713.13	0.17	733.39	0.32	92.62
44.30	1710.91	0.17	733.39	0.32	92.29
44.40	1710.30	0.17	733.39	0.32	91.96
44.50	1709.11	0.17	733.39	0.32	91.46
44.60	1707.67	0.17	733.39	0.32	91.01
44.70	1706.31	0.17	733.39	0.32	90.58
44.80	1705.50	0.17	733.39	0.32	90.16
44.90	1704.54	0.17	733.39	0.32	89.75
45.00	1703.30	0.17	733.39	0.32	89.38
45.10	1700.25	0.17	733.39	0.32	88.98
45.20	1698.63	0.16	733.39	0.32	88.58
45.30	1699.17	0.16	733.38	0.32	88.19
45.40	1698.30	0.16	733.38	0.32	87.86
45.50	1697.72	0.16	733.38	0.32	87.50
45.60	1697.98	0.16	733.38	0.32	87.08
45.70	1696.48	0.16	733.38	0.31	86.65
45.80	1697.25	0.16	733.38	0.31	86.25
45.90	1695.88	0.16	733.38	0.31	85.97
73.30	1077.00	0.10	755.50	0.51	05.57

46.00	1691.47	0.16	733.38	0.31	85.68
46.10	1668.80	0.16	733.38	0.32	85.34
46.20	1669.04	0.16	733.38	0.32	84.93
46.30	1668.47	0.16	733.38	0.32	84.87
46.40	1667.26	0.16	733.38	0.32	84.32
46.50	1655.43	0.16	733.38	0.32	83.80
46.60	1641.67	0.16	733.38	0.32	83.35
46.70	1641.15	0.16	733.38	0.32	82.92
46.80	1638.75	0.16	733.38	0.32	82.63
46.90	1637.07	0.16	733.38	0.32	82.34
47.00	1636.44	0.16	733.38	0.32	82.34
47.10	1636.34	0.16	733.38	0.32	82.04
47.20	1635.44	0.16	733.38	0.32	81.59
47.30	1623.13	0.16	733.38	0.32	81.11
47.40	1613.56	0.15	733.38	0.32	80.72
47.50	1610.71	0.15	733.38	0.32	80.34
47.60	1608.39	0.15	733.37	0.32	79.99
47.70	1605.23	0.15	733.37	0.32	79.61
47.80	1600.30	0.15	733.37	0.32	79.13
47.90	1584.64	0.15	733.37	0.33	78.67
48.00	1576.14	0.15	733.37	0.33	78.20
48.10	1575.42	0.15	733.37	0.33	77.81
48.20	1574.03	0.15	733.37	0.33	77.41
48.30	1573.60	0.15	733.37	0.33	77.01
48.40	1572.77	0.15	733.37	0.32	76.62
48.50	1563.59	0.15	733.37	0.33	76.23
48.60	1541.24	0.15	733.37	0.33	75.87
48.70	1528.45	0.15	733.37	0.33	75.49
48.80	1521.09	0.15	733.37	0.33	75.14
48.90	1518.61	0.15	733.37	0.33	75.08
49.00	1516.32	0.15	733.37	0.33	74.64
49.10	1496.43	0.15	733.37	0.34	74.27
49.20	1487.33	0.15	733.37	0.34	73.95
49.30	1458.99	0.15	733.37	0.35	73.64
49.40	1457.29	0.15	733.37	0.35	73.38
49.50	1455.08	0.15	733.37	0.35	73.23
49.60	1454.09	0.14	733.37	0.35	73.04
49.70	1452.23	0.14	733.37	0.35	72.76
49.80	1456.80	0.14	733.36	0.34	72.46
49.90	1455.80	0.14	733.36	0.34	72.13
50.00	1451.35	0.14	733.36	0.34	71.79
50.10	1449.47	0.14	733.36	0.34	71.46
50.20	1418.98	0.14	733.36	0.35	71.12
50.30	1407.38	0.14	733.36	0.35	70.79
50.40	1407.91	0.14	733.36	0.35	70.46
50.50	1406.94	0.14	733.36	0.35	70.14
50.60	1409.16	0.14	733.36	0.35	69.84
50.70	1407.25	0.14	733.36	0.35	69.57
50.80	1407.98	0.14	733.36	0.35	69.35
50.90	1407.59	0.14	733.36	0.35	69.29
51.00	1406.77	0.14	733.36	0.35	68.98
51.10	1407.25	0.14	733.36	0.35	68.63
51.20	1406.69	0.14	733.36	0.35	68.33
51.30	1409.42	0.14	733.36	0.35	68.07
51.40	1408.29	0.14	733.36	0.35	67.80
51.50	1408.44	0.14	733.36	0.35	67.51
51.60	1408.05	0.14	733.36	0.35	67.24
51.70	1405.32	0.14	733.36	0.35	67.14
51.80	1378.80	0.14	733.36	0.36	67.28

51.90	1374.64	0.14	733.36	0.36	66.72
52.00	1375.21	0.14	733.36	0.36	66.35
52.10	1372.24	0.13	733.36	0.36	66.03
52.20	1370.44	0.13	733.36	0.36	65.73
52.30	1365.38	0.13	733.35	0.36	65.43
52.40	1361.67	0.13	733.35	0.36	65.13
52.50	1358.66	0.13	733.35	0.36	64.81
52.60	1357.03	0.13	733.35	0.36	64.48
52.70	1356.30	0.13	733.35	0.36	64.18
52.80	1354.54	0.13	733.35	0.36	64.11
52.90	1352.72	0.13	733.35	0.36	63.66
53.00	1350.57	0.13	733.35	0.36	63.34
53.10	1349.74	0.13	733.35	0.36	63.06
53.20	1347.11	0.13	733.35	0.36	62.93
53.30	1344.46	0.13	733.35	0.36	62.61
53.40	1342.26	0.13	733.35	0.36	62.36
53.50	1342.29	0.13	733.35	0.36	62.11
53.60	1342.76	0.13	733.35	0.36	61.89
53.70	1340.19	0.13	733.35	0.36	61.69
53.80	1340.47	0.13	733.35	0.36	61.47
53.90	1339.00	0.13	733.35	0.36	61.25
54.00	1339.03	0.13	733.35	0.36	61.01
54.10	1338.38	0.13	733.35	0.36	60.77
54.20	1337.71	0.13	733.35	0.36	60.68
54.30	1337.87	0.13	733.35	0.35	60.43
54.40	1337.19	0.13	733.35	0.35	60.11
54.50	1336.96	0.13	733.35	0.35	60.09
54.60	1335.98	0.13	733.35	0.35	59.81
54.70	1336.27	0.13	733.35	0.35	59.53
54.80	1335.48	0.13	733.35	0.35	59.31
54.90	1335.12	0.13	733.35	0.35	59.05
55.00	1327.17	0.12	733.35	0.36	59.29
55.10	1304.61	0.12	733.34	0.36	58.77
55.20	1278.31	0.12	733.34	0.37	58.50
55.30	1275.03	0.12	733.34	0.37	58.27
55.40	1269.94	0.12	733.34	0.37	58.06
55.50	1266.82	0.12	733.34	0.37	57.86
55.60	1265.03	0.12	733.34	0.37	57.67
55.70	1266.74	0.12	733.34	0.37	57.47
55.80	1265.56	0.12	733.34	0.37	57.29
55.90	1265.10	0.12	733.34	0.37	57.10
56.00	1264.36	0.12	733.34	0.37	56.91
56.10	1263.89	0.12	733.34	0.37	56.73
56.20	1262.60	0.12	733.34	0.37	56.55
56.30	1262.54	0.12	733.34	0.37	56.53
56.40	1249.18	0.12	733.34	0.37	56.31
56.50	1231.14	0.12	733.34	0.38	56.12
56.60	1193.33	0.12	733.34	0.39	55.93
56.70	1167.14	0.12	733.34	0.40	55.70
56.80	1167.61	0.12	733.34	0.40	55.51
56.90	1173.06	0.12	733.34	0.40	55.34
57.00	1171.43	0.12	733.34	0.40	55.17
57.10	1172.12	0.12	733.34	0.39	55.00
57.20	1170.02	0.12	733.34	0.39	54.83
57.30	1170.71	0.12	733.34	0.39	54.64
57.40	1170.36	0.12	733.34	0.39	54.45
57.50	1169.98	0.12	733.34	0.39	54.26
57.60	1170.37	0.12	733.34	0.39	54.06
57.70	1169.78	0.12	733.34	0.39	53.88
57.70	1100.70	0.12	, 55.54	0.55	33.00

57.80	1169.22	0.12	733.34	0.39	53.70
57.90	1169.09	0.12	733.34	0.39	53.52
58.00	1167.19	0.12	733.34	0.39	53.33
58.10	1168.98	0.12	733.34	0.39	53.16
58.20	1166.29	0.12	733.34	0.39	52.98
58.30	1168.42	0.12	733.34	0.39	52.78
58.40	1166.20	0.12	733.34	0.39	52.57
58.50	1165.81	0.12	733.34	0.39	52.34
58.60	1164.75	0.12	733.34	0.39	52.12
58.70	1165.58	0.12	733.34	0.39	51.95
58.80	1165.09	0.12	733.34	0.39	51.77
58.90	1162.76	0.12	733.34	0.39	51.57
59.00	1164.06	0.11	733.34	0.39	51.35
59.10	1162.02		733.34	0.38	51.12
		0.11			
59.20	1159.80	0.11	733.33	0.38	50.88
59.30	1158.79	0.11	733.33	0.38	50.65
59.40	1158.37	0.11	733.33	0.38	50.44
59.50	1157.70	0.11	733.33	0.38	50.21
59.60	1156.62	0.11	733.33	0.38	50.36
59.70	1150.73	0.11	733.33	0.38	49.99
59.80	1149.39	0.11	733.33	0.38	49.68
59.90	1149.72	0.11	733.33	0.38	49.42
60.00	1149.52	0.11	733.33	0.38	49.20
60.10	1148.28	0.11	733.33	0.38	49.06
60.20	1148.78	0.11	733.33	0.38	48.84
60.30	1148.49	0.11	733.33	0.38	48.60
60.40	1149.18	0.11	733.33	0.38	48.35
60.50	1147.39	0.11	733.33	0.38	48.12
60.60	1147.30	0.11	733.33	0.38	48.19
60.70	1147.55	0.11	733.33	0.38	47.84
60.80	1146.52	0.11	733.33	0.38	47.56
60.90	1146.08	0.11	733.33	0.38	47.30
61.00	1146.82	0.11	733.33	0.38	47.05
61.10	1145.48	0.11	733.33	0.38	46.82
61.20	1145.14	0.11	733.33	0.38	46.60
61.30	1144.97	0.11	733.33	0.38	46.41
61.40	1145.17	0.11	733.33	0.37	46.21
61.50	1144.43	0.11	733.33	0.37	46.01
61.60	1144.84	0.11	733.33	0.37	45.81
61.70	1143.34	0.11	733.33	0.37	45.60
61.80	1141.18	0.11	733.33	0.37	45.40
61.90	1142.16	0.11	733.33	0.37	45.23
62.00	1142.99	0.11	733.33	0.37	45.11
62.10	1142.84	0.11	733.33	0.37	44.94
62.20	1142.84	0.11	733.33	0.37	
					44.78
62.30	1087.73	0.11	733.33	0.39	44.53
62.40	1084.66	0.10	733.33	0.39	44.30
62.50	1085.16	0.10	733.33	0.39	44.07
62.60	1077.30	0.10	733.33	0.39	43.86
62.70	1044.49	0.10	733.32	0.40	43.67
62.80	1043.62	0.10	733.32	0.40	43.58
62.90	1043.26	0.10	733.32	0.40	43.51
63.00	1036.12	0.10	733.32	0.40	43.24
63.10	1013.76	0.10	733.32	0.41	42.99
63.20	1013.53	0.10	733.32	0.41	42.77
63.30	1013.50	0.10	733.32	0.41	42.56
63.40	1015.48	0.10	733.32	0.41	42.35
63.50	1013.96	0.10	733.32	0.41	42.16
63.60	1014.22	0.10	733.32	0.41	41.96

63.70	1016.65	0.10	733.32	0.41	41.78
63.80	1021.50	0.10	733.32	0.40	41.60
63.90	1019.03	0.10	733.32	0.40	41.43
64.00	1018.57	0.10	733.32	0.40	41.26
64.10	1016.79	0.10	733.32	0.40	41.09
64.20	1018.18	0.10	733.32	0.40	40.94
64.30	1016.10	0.10	733.32	0.40	40.80
64.40	1015.66	0.10	733.32	0.40	40.69
64.50	1014.65	0.10	733.32	0.40	40.57
64.60	1015.64	0.10	733.32	0.40	40.44
64.70	1013.27	0.10	733.32	0.40	40.31
64.80	1013.20	0.10	733.32	0.40	40.16
64.90	1013.94	0.10	733.32	0.40	40.01
65.00	1012.14	0.10	733.32	0.40	39.86
65.10	1013.45	0.10	733.32	0.40	39.71
65.20	1014.56	0.10	733.32	0.40	39.56
65.30	1012.97	0.10	733.32	0.40	39.41
65.40	1014.17	0.10	733.32	0.40	39.26
65.50	1012.48	0.10	733.32	0.40	39.11
65.60	1013.81	0.10	733.32	0.39	38.96
65.70	1011.53	0.10	733.32	0.39	38.81
65.80	1012.86	0.10	733.32	0.39	38.67
65.90	1012.38	0.10	733.32	0.39	38.52
66.00	1010.62	0.10	733.32	0.39	38.38
66.10	1012.38	0.10	733.32	0.39	38.25
66.20	1011.31	0.10	733.32	0.39	38.12
66.30	1011.47	0.10	733.32	0.39	38.00
66.40	1010.65	0.10	733.32	0.39	37.88
66.50	1007.24	0.10	733.32	0.39	37.79
66.60	1005.63	0.10	733.32	0.39	37.72
66.70	1003.65	0.10	733.32	0.39	37.64
66.80	999.61	0.10	733.32	0.39	37.54
66.90	995.58	0.10	733.32	0.40	37.46
67.00	988.04	0.09	733.32	0.40	37.55
67.10	954.84	0.09	733.32	0.41	37.39
67.20	954.45	0.09	733.32	0.41	37.29
67.30	952.88	0.09	733.32	0.41	37.17
67.40	956.52	0.09	733.32	0.41	37.05
67.50	961.28	0.09	733.31	0.41	36.94
67.60	962.65	0.09	733.31	0.41	36.83
67.70	962.92	0.09	733.31	0.41	36.72
67.80	961.43	0.09	733.31	0.41	36.68
67.90	961.92	0.09	733.31	0.41	36.63
68.00	959.81	0.09	733.31	0.41	36.54
68.10	953.71	0.09	733.31	0.41	36.42
68.20	932.30	0.09	733.31	0.42	36.30
68.30	932.60	0.09	733.31	0.42	36.17
68.40	933.20	0.09	733.31	0.42	36.03
68.50	933.65	0.09	733.31	0.42	35.90
68.60	933.79	0.09	733.31	0.42	35.85
68.70	932.14	0.09	733.31	0.42	35.80
68.80	932.01	0.09	733.31	0.42	35.68
68.90	932.07	0.09	733.31	0.41	35.59
69.00	941.12	0.09	733.31	0.41	35.65
69.10	951.40	0.09	733.31	0.41	35.47
69.20	944.04	0.09	733.31	0.41	35.24
69.30	939.16	0.09	733.31	0.41	35.05
69.40	935.42	0.09	733.31	0.41	34.88
69.50	932.77	0.09	733.31	0.41	34.72

69.60	933.33	0.09	733.31	0.41	34.57
69.70	931.98	0.09	733.31	0.41	34.42
69.80	934.85	0.09	733.31	0.41	34.30
69.90	933.77	0.09	733.31	0.41	34.17
70.00	910.26	0.09	733.31	0.42	34.06
70.10	888.63	0.09	733.31	0.43	33.95
70.20	865.13	0.09	733.31	0.44	34.02
70.30	863.12	0.09	733.31	0.44	33.86
70.40	861.85	0.09	733.31	0.44	33.68
70.50	862.14	0.09	733.31	0.44	33.56
70.60	861.41	0.09	733.31	0.44	33.45
70.70	858.95	0.09	733.31	0.44	33.32
70.70	859.47	0.09	733.31	0.44	33.19
70.90	859.31	0.09	733.31	0.44	33.06
71.00	860.01	0.09	733.31	0.44	32.93
71.10	859.52	0.09	733.31	0.44	32.95
71.20	850.74	0.09	733.31	0.43	32.80
71.30	839.39	0.09	733.31	0.42	32.74
71.40	838.63	0.09	733.31	0.42	32.62
71.50	834.89	0.09	733.31	0.42	32.50
71.60	831.51	0.09	733.31	0.42	32.37
71.70	833.97	0.09	733.31	0.42	32.24
71.80	830.63	0.09	733.31	0.42	32.10
71.90	830.76	0.09	733.31	0.42	31.96
72.00	831.67	0.09	733.31	0.42	31.82
72.10	828.76	0.09	733.31	0.42	31.69
72.20	828.98	0.09	733.31	0.42	31.56
72.30	827.01	0.09	733.31	0.42	31.42
72.40	827.75	0.09	733.31	0.42	31.29
72.50	825.77	0.09	733.31	0.41	31.17
72.60	827.01	0.09	733.31	0.41	31.07
72.70	825.77	0.09	733.31	0.41	30.98
72.80	825.96	0.09	733.31	0.41	30.91
72.90	825.60	0.09	733.31	0.41	30.91
73.00	825.21	0.09	733.31	0.42	30.95
73.10	825.72	0.09	733.31	0.41	30.82
73.20	824.76	0.09	733.31	0.41	30.74
73.30	824.41	0.09	733.31	0.41	30.65
73.40	825.10	0.09	733.31	0.41	30.55
73.50	824.35	0.09	733.31	0.41	30.47
73.60	823.43	0.09	733.31	0.41	30.41
73.70	823.45	0.09	733.31	0.41	30.31
73.80	823.39	0.09	733.31	0.41	30.20
73.90	823.57	0.09	733.31	0.41	30.10
74.00	822.78	0.09	733.31	0.41	30.01
74.10	824.47	0.09	733.31	0.41	29.92
74.20	824.66	0.09	733.31	0.41	30.00
74.30	823.83	0.09	733.31	0.41	30.02
74.40	823.22	0.09	733.31	0.41	29.91
74.50	823.33	0.09	733.31	0.41	29.81
74.60	823.17	0.09	733.31	0.41	29.71
74.70	824.06	0.09	733.31	0.41	29.62
74.80	823.63	0.09	733.31	0.41	29.54
74.90	823.41	0.09	733.31	0.41	29.46
75.00	824.20	0.09	733.31	0.41	29.39
75.10	822.71	0.09	733.31	0.41	29.36
75.20	822.29	0.09	733.31	0.41	29.28
75.30	820.32	0.09	733.31	0.41	29.23
75.40	821.49	0.09	733.31	0.41	29.20

75.50	819.07	0.09	733.31	0.41	29.11
75.60	819.41	0.09	733.31	0.41	29.10
75.70	818.28	0.09	733.31	0.41	29.06
75.80	818.48	0.09	733.31	0.41	28.98
75.90	818.65	0.09	733.31	0.41	28.89
76.00	822.55	0.09	733.31	0.41	28.81
76.10	822.96	0.09	733.31	0.40	28.75
76.20	823.33	0.09	733.31	0.40	28.70
76.30	823.51	0.09	733.31	0.40	28.61
76.40	823.01	0.09	733.31	0.40	28.52
76.50	824.19	0.09	733.31	0.40	28.43
76.60	822.61	0.09	733.31	0.40	28.34
76.70	823.82	0.09	733.31	0.40	28.25
76.80	823.60	0.09	733.31	0.40	28.16
76.90	823.57	0.09	733.31	0.40	28.07
77.00	823.06	0.09	733.31	0.40	27.99
77.10	821.90	0.08	733.31	0.40	27.90
77.20	823.06	0.08	733.31	0.40	27.82
77.30	822.90	0.08	733.31	0.40	27.74
77.40	821.66	0.08	733.31	0.40	27.66
77.50	822.27	0.08	733.31	0.40	27.58
77.60	821.75	0.08	733.30	0.40	27.49
77.70	822.42	0.08	733.30	0.40	27.41
77.70	804.43	0.08	733.30	0.41	27.33
77.90	795.11	0.08	733.30	0.41	27.24
78.00	791.49	0.08	733.30	0.41	27.16
78.10	788.78	0.08	733.30	0.41	27.10
78.20	787.86	0.08	733.30	0.41	26.99
78.30	787.30	0.08	733.30	0.41	26.90
78.40	787.86	0.08	733.30	0.41	26.87
78.50	785.65	0.08	733.30	0.41	26.91
78.60	785.05	0.08	733.30	0.41	26.80
78.70	785.57	0.08	733.30	0.41	26.68
78.80	785.54	0.08	733.30	0.41	26.57
78.90	786.68	0.08	733.30	0.41	26.46
79.00	786.35	0.08	733.30	0.41	26.35
79.10	786.05	0.08	733.30	0.41	26.24
79.20	785.49	0.08	733.30	0.41	26.13
79.30	783.17	0.08	733.30	0.41	26.03
79.40	767.87	0.08	733.30	0.41	25.92
79.50	766.16	0.08	733.30	0.41	25.83
79.60	766.24	0.08	733.30	0.41	25.73
79.70	764.94	0.08	733.30	0.41	25.65
79.80	763.62	0.08	733.30	0.41	25.57
79.90	761.97	0.08	733.30	0.41	25.48
80.00	761.01	0.08	733.30	0.41	25.40
80.10	760.37	0.08	733.30	0.41	25.31
80.20	759.02	0.08	733.30	0.41	25.22
80.30	757.91	0.08	733.30	0.41	25.13
80.40	757.51	0.08	733.30	0.41	25.03
80.50	749.10	0.08	733.30	0.42	24.93
80.60	740.37	0.08	733.30	0.42	24.83
80.70	739.02	0.08	733.30	0.42	24.73
80.80	738.60	0.08	733.30	0.42	24.63
80.90	738.78	0.08	733.30	0.42	24.52
81.00	738.41	0.08	733.30	0.42	24.42
81.10	737.58	0.08	733.30	0.42	24.31
81.20	729.70	0.08	733.30	0.42	24.20
81.30	718.59	0.08	733.30	0.43	24.10
02.00	. 20.55	0.00	. 55.50	0.15	27,10

81.40	718.25	0.08	733.30	0.43	23.99
81.50	718.92	0.08	733.30	0.42	23.92
81.60	718.45	0.08	733.30	0.42	23.80
81.70	720.08	0.08	733.30	0.42	23.70
81.80	720.29	0.08	733.30	0.42	23.60
81.90	679.32	0.08	733.30	0.45	23.49
82.00	678.55	0.08	733.30	0.45	23.39
82.10	677.72	0.08	733.30	0.45	23.28
82.20	677.18	0.08	733.30	0.44	23.17
82.30	677.30	0.08	733.30	0.44	23.06
82.40	682.35	0.08	733.30	0.44	22.95
82.50	682.33	0.08	733.30	0.44	22.84
82.60	650.91	0.08	733.30	0.46	22.74
82.70	642.52	0.08	733.30	0.46	22.65
82.80	641.84	0.08	733.30	0.46	22.57
82.90	640.79	0.08	733.30	0.46	22.49
83.00	640.63	0.08	733.30	0.46	22.42
83.10	640.75	0.08	733.30	0.46	22.35
83.20					
	640.46	0.08	733.30	0.46	22.27
83.30	634.91	0.08	733.30	0.47	22.19
83.40	633.26	0.07	733.30	0.47	22.11
83.50	634.05	0.07	733.30	0.47	22.07
83.60	632.43	0.07	733.30	0.47	22.03
83.70	631.55	0.07	733.30	0.47	21.96
83.80	631.52	0.07	733.30	0.47	21.88
83.90	630.61	0.07	733.29	0.47	21.81
84.00	630.54	0.07	733.29	0.47	21.74
84.10	629.62	0.07	733.29	0.47	21.68
84.20	601.36	0.07	733.29	0.49	21.61
84.30	600.58	0.07	733.29	0.49	21.56
84.40	600.76	0.07	733.29	0.49	21.75
84.50	600.68	0.07	733.29	0.49	21.67
84.60	600.00	0.07	733.29	0.49	21.57
84.70	600.23	0.07	733.29	0.49	21.48
84.80	600.19	0.07	733.29	0.49	21.40
84.90	589.79	0.07	733.29	0.50	21.33
85.00	577.20	0.07	733.29	0.51	21.26
85.10	576.03	0.07	733.29	0.51	21.21
85.20	575.15	0.07	733.29	0.51	21.16
85.30	575.47	0.07	733.29	0.51	21.10
85.40	575.46	0.07	733.29	0.50	21.03
85.50	577.10	0.07	733.29	0.50	20.96
85.60	577.68	0.07	733.29	0.50	20.87
85.70	577.99	0.07	733.29	0.50	20.78
85.80	578.92	0.07	733.29	0.50	20.69
85.90	571.34	0.07	733.29	0.50	20.60
86.00	550.35	0.07	733.29	0.52	20.52
86.10	552.87	0.07	733.29	0.52	20.43
86.20	550.14	0.07	733.29	0.52	20.34
86.30	551.87		733.29	0.52	20.25
		0.07			
86.40	553.35	0.07	733.29	0.51	20.16
86.50	549.23	0.07	733.29	0.52	20.11
86.60	549.03	0.07	733.29	0.52	20.08
86.70	548.47	0.07	733.29	0.52	20.01
86.80	548.79	0.07	733.29	0.52	19.96
86.90	545.56	0.07	733.29	0.52	19.95
87.00	546.70	0.07	733.29	0.52	19.88
87.10	547.76	0.07	733.29	0.52	19.79
87.20	558.38	0.07	733.29	0.50	19.68

87.30	550.82	0.07	733.29	0.51	19.58
87.40	550.10	0.07	733.29	0.51	19.48
87.50	552.41	0.07	733.29	0.51	19.39
87.60	551.37	0.07	733.29	0.51	19.29
87.70	552.30	0.07	733.29	0.50	19.20
87.80	552.06	0.07	733.29	0.50	19.11
87.90	550.63	0.07	733.29	0.50	19.03
88.00	550.63	0.07	733.29	0.50	18.96
88.10	545.91	0.07	733.29	0.51	18.97
88.20	545.34	0.07	733.29	0.51	18.96
88.30	546.16	0.07	733.29	0.51	18.89
88.40	547.01	0.07	733.29	0.51	18.80
88.50	548.76	0.07	733.29	0.50	18.71
88.60	548.20	0.07	733.29	0.50	18.62
88.70	548.83	0.07	733.29	0.50	18.52
88.80	550.63	0.07	733.29	0.50	18.43
88.90	550.71	0.07	733.29	0.50	18.36
89.00	552.06	0.07	733.29	0.49	18.29
89.10	551.50	0.07	733.29	0.49	18.21
89.20	550.78	0.07	733.29	0.49	18.13
89.30	550.63	0.07	733.29	0.49	18.05
89.40	549.26	0.07	733.29	0.49	17.97
89.50	547.60	0.07	733.29	0.49	17.91
89.60	547.89	0.07	733.29	0.47	17.86
89.70	547.04	0.07	733.29	0.47	17.81
89.80	546.74	0.07	733.29	0.47	17.76
89.90	545.39	0.07	733.29	0.47	17.70
90.00	546.71	0.07	733.29	0.47	17.64
90.10	545.90	0.07	733.29	0.47	17.58
90.20	545.89	0.07	733.29	0.47	17.53
90.30	544.74	0.07	733.29	0.46	17.47
90.40	545.87	0.07	733.29	0.46	17.41
90.50	546.15	0.07	733.29	0.46	17.36
90.60	547.33	0.07	733.29	0.46	17.30
90.70	546.14	0.07	733.29	0.46	17.25
90.80	547.36	0.07	733.29	0.46	17.20
90.90	547.66	0.07	733.29	0.46	17.16
91.00	547.24	0.07	733.29	0.46	17.10
91.10	547.26	0.07	733.29	0.46	17.05
91.20	546.44	0.07	733.29	0.46	17.00
91.30	532.79	0.07	733.29	0.47	16.95
91.40	530.65	0.07	733.29	0.47	16.89
91.50	529.62	0.07	733.29	0.47	16.84
91.60	528.81	0.07	733.29	0.47	16.79
91.70	525.52	0.07	733.29	0.47	16.75
91.80	511.66	0.07	733.29	0.49	16.71
91.90	481.83	0.07	733.29	0.52	16.66
92.00	480.66	0.07	733.29	0.52	16.63
92.10	482.24	0.07	733.29	0.52	16.59
92.20	497.49	0.07	733.29	0.50	16.58
92.30	514.60	0.07	733.29	0.49	16.63
92.40	519.38	0.07	733.29	0.49	16.71
92.50	519.08	0.07	733.29	0.49	16.70
92.60	518.93	0.07	733.29	0.49	16.67
92.70	516.19	0.07	733.29	0.49	16.58
92.80	495.94	0.07	733.29	0.50	16.49
92.90	478.64	0.07	733.29	0.52	16.41
93.00	478.99	0.07	733.29	0.52	16.33
93.10	478.22	0.07	733.29	0.52	16.24

93.20	475.17	0.07	733.29	0.52	16.19
93.30	474.01	0.07	733.29	0.53	16.20
93.40	476.60	0.07	733.29	0.52	16.21
93.50	474.25	0.06	733.29	0.53	16.18
93.60		0.06	733.29	0.53	16.11
	474.84				
93.70	474.52	0.06	733.29	0.52	16.03
93.80	474.21	0.06	733.29	0.52	15.95
93.90	480.72	0.06	733.28	0.52	15.91
94.00	477.91	0.06	733.28	0.52	15.85
94.10	477.63	0.06	733.28	0.52	15.75
94.20	475.73	0.06	733.28	0.52	15.67
94.30	474.89	0.06	733.28	0.52	15.58
94.40	476.02	0.06	733.28	0.52	15.51
94.50	476.03	0.06	733.28	0.52	15.45
94.60	477.21	0.06	733.28	0.52	15.48
94.70	475.73	0.06	733.28	0.52	15.37
94.80	474.82	0.06	733.28	0.52	15.30
94.90	473.27	0.06	733.28	0.52	15.24
95.00	475.42	0.06	733.28	0.52	15.19
95.10	475.10	0.06	733.28	0.51	15.13
95.20	475.73	0.06	733.28	0.51	15.08
95.30	473.16	0.06	733.28	0.51	15.03
95.40	472.87	0.06	733.28	0.51	14.97
95.50	472.94	0.06	733.28	0.51	14.92
95.60	472.57	0.06	733.28	0.51	14.86
95.70	472.54	0.06	733.28	0.51	14.81
95.80	472.48	0.06	733.28	0.51	14.75
95.90	472.41	0.06	733.28	0.51	14.70
96.00	471.77	0.06	733.28	0.51	14.65
96.10	472.38	0.06	733.28	0.51	14.59
96.20	471.16	0.06	733.28	0.51	14.54
96.30	470.81	0.06	733.28	0.51	14.49
96.40	465.97	0.06	733.28	0.52	14.44
96.50	451.90	0.06	733.28	0.53	14.40
96.60	450.50	0.06	733.28	0.53	14.37
96.70	449.70	0.06	733.28	0.53	14.35
96.80	445.85	0.06	733.28	0.54	14.43
96.90	445.84	0.06	733.28	0.54	14.40
97.00	447.37	0.06	733.28	0.54	14.35
97.10	447.37	0.06	733.28	0.54	14.29
97.20	447.70	0.06	733.28	0.54	14.25
97.30	444.24	0.06	733.28	0.54	14.31
97.40	420.37	0.06	733.28	0.57	14.32
97.50	414.58	0.06	733.28	0.58	14.32
97.60	417.15	0.06	733.28	0.58	14.27
97.70	417.81	0.06	733.28	0.57	14.20
97.80	419.79	0.06	733.28	0.57	14.12
97.90	421.15	0.06	733.28	0.57	14.12
98.00	421.15	0.06	733.28	0.56	13.99
98.10	422.88	0.06	733.28	0.56	13.92
98.20	420.18	0.06	733.28	0.56	13.86
98.30	424.31	0.06	733.28	0.56	13.82
98.40	419.25	0.06	733.28	0.56	13.77
98.50	421.04	0.06	733.28	0.56	13.73
98.60	418.06	0.06	733.28	0.56	13.70
98.70	420.24	0.06	733.28	0.56	13.66
98.80	417.78	0.06	733.28	0.56	13.60
98.90	420.30	0.06	733.28	0.56	13.55
99.00	418.44	0.06	733.28	0.56	13.50
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99.10	418.46	0.06	733.28	0.56	13.45
99.20	420.45	0.06	733.28	0.55	13.40
99.30	417.15	0.06	733.28	0.56	13.35
99.40	421.53	0.06	733.28	0.55	13.31
99.50	419.17	0.06	733.28	0.55	13.26
99.60	418.19	0.06	733.28	0.55	13.22
99.70	417.15	0.06	733.28	0.55	13.18
99.80	417.15	0.06	733.28	0.55	13.15
99.90	415.63	0.06	733.28	0.56	13.12
100.00	410.68	0.06	733.28	0.56	13.08

THE MAXIMUM DISCHARGE FROM CROSS SECTION 31 IS: 1094.53 CFS AT TIME: 33.16 HOURS

THE TOTAL VOLUME OF DISCHARGE IS: 5119.44 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 31

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00

4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
6.10 6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00
7.60	0.00	0.00	0.00	0.00	0.00
7.70	0.00	0.00	0.00	0.00	0.00
7.80	0.00	0.00	0.00	0.00	0.00
7.90	0.00	0.00	0.00	0.00	0.00
8.00	0.00	0.00	0.00	0.00	0.00
8.10	0.00	0.00	0.00	0.00	0.00
8.20	0.00	0.00	0.00	0.00	0.00
8.30	0.00	0.00	0.00	0.00	0.00
8.40	0.00	0.00	0.00	0.00	0.00
8.50	0.00	0.00	0.00	0.00	0.00
8.60	0.00	0.00	0.00	0.00	0.00
8.70	0.00	0.00	0.00	0.00	0.00
8.80	0.00	0.00	0.00	0.00	0.00 0.00
8.90	0.00	0.00	0.00	0.00	
9.00	0.00	0.00	0.00	0.00	0.00
9.10 9.20	0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00
9.30	0.00 0.00	0.00 0.00	0.00	0.00	0.00
9.40	0.00	0.00	0.00	0.00	0.00
9.50	0.00	0.00	0.00	0.00	0.00
9.60	0.00	0.00	0.00	0.00	0.00
9.70	0.00	0.00	0.00	0.00	0.00
9.80	0.00	0.00	0.00	0.00	0.00
9.90	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	0.00	0.00
10.10	0.00	0.00	0.00	0.00	0.00
10.20	0.00	0.00	0.00	0.00	0.00
10.30	0.00	0.00	0.00	0.00	0.00
	W	A. 440000000	canculation of GCT (C)	AND A STATE OF THE	ment rest

10.40	0.00	0.00	0.00	0.00	0.00
10.50	0.00	0.00	0.00	0.00	0.00
10.60	0.00	0.00	0.00	0.00	0.00
10.70	0.00	0.00	0.00	0.00	0.00
10.80	0.00	0.00	0.00	0.00	0.00
10.90	0.00	0.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	0.00	0.00
11.10	0.00	0.00	0.00	0.00	0.00
11.20	0.00	0.00	0.00	0.00	0.00
11.30	0.00	0.00	0.00	0.00	0.00
11.40	0.00	0.00	0.00	0.00	0.00
11.50	0.00	0.00	0.00	0.00	0.00
11.60	0.00	0.00	0.00	0.00	0.00
11.70	0.00	0.00	0.00	0.00	0.00
11.80	0.00	0.00	0.00	0.00	0.00
11.90	0.00	0.00	0.00	0.00	0.00
12.00	371.62	0.03	735.97	0.00	0.17
12.10	1156.64	0.18	736.11	0.02	4.30
12.20	1169.13	0.18	736.12	0.04	8.22
12.30	1176.00	0.21	736.15	0.05	12.83
12.40	1199.99	0.25	736.18	0.06	17.15
12.50	1199.99	0.28	736.21	0.05	17.30
12.60	1199.99	0.30	736.24	0.03	11.48
12.70	1199.99	0.32	736.26	0.02	8.58
12.80	1199.99	0.34	736.27	0.02	8.98
12.90	1199.99	0.35	736.28	0.03	10.55
13.00	1199.99	0.36	736.29	0.04	17.04
13.10	1199.99	0.38	736.31	0.05	24.52
13.20	1199.99	0.39	736.32	0.07	32.31
13.30 13.40	1199.99	0.40	736.34	0.08	40.48
13.40	1186.06	0.42 0.43	736.35 736.36	0.10 0.11	49.20 57.39
13.60	1170.70 1150.34	0.44	736.37	0.13	64.03
13.70	1170.70	0.46	736.39	0.13	69.27
13.80	1167.86	0.48	736.41	0.13	74.70
13.90	1170.70	0.49	736.43	0.14	81.25
14.00	1135.72	0.51	736.44	0.15	87.67
14.10	1129.28	0.52	736.46	0.16	94.51
14.10	1129.28	0.54	736.47	0.17	102.73
14.30	1129.28	0.56	736.49	0.18	110.66
14.40	1119.13	0.57	736.51	0.19	119.15
14.50	1104.11	0.59	736.52	0.19	126.17
14.60	1129.28	0.61	736.54	0.20	134.74
14.70	1129.28	0.62	736.56	0.21	144.55
14.80	1129.28	0.64	736.57	0.21	153.31
14.90	1129.28	0.65	736.59	0.22	162.51
15.00	1129.28	0.67	736.60	0.23	171.38
15.10	1129.28	0.68	736.61	0.23	179.17
15.20	1129.28	0.69	736.63	0.24	186.88
15.30	1129.28	0.70	736.64	0.25	194.58
15.40	1129.28	0.71	736.65	0.25	202.33
15.50	1129.28	0.72	736.66	0.26	208.81
15.60	1120.00	0.73	736.67	0.26	216.14
15.70	1129.28	0.74	736.68	0.27	223.03
15.80	1092.83	0.75	736.69	0.28	229.28
15.90	1087.86	0.76	736.69	0.28	234.24
16.00	1087.86	0.77	736.70	0.29	239.99
16.10	1087.86	0.78	736.71	0.29	245.49
16.20	1087.86	0.78	736.72	0.29	250.52

16.30	1087.86	0.79	736.73	0.30	255.14
16.40	1087.86	0.80	736.73	0.30	259.89
16.50	1087.86	0.81	736.74	0.30	264.20
16.60	1087.86	0.81	736.75	0.30	268.77
16.70	1087.86	0.82	736.75	0.31	272.85
16.80	1087.86	0.83	736.76	0.31	276.73
16.90	1087.86	0.83	736.77	0.31	280.39
17.00	1082.24	0.84	736.77	0.31	283.97
17.10	1058.57	0.84	736.78	0.32	287.35
17.20	1065.38	0.85	736.78	0.32	290.72
17.30	1078.99	0.85	736.79	0.32	294.09
17.40	1058.57	0.86	736.79	0.33	297.36
17.50	1040.15	0.86	736.80	0.33	300.48
17.60	1049.79	0.87	736.80	0.33	303.68
17.70	1048.95	0.87	736.81	0.33	306.77
17.80	1046.44	0.88	736.81	0.34	309.68
17.90	1046.44	0.88	736.82	0.34	312.77
18.00	1046.44	0.89	736.82	0.34	315.66
18.10	1046.44	0.90	736.83	0.34	318.47
18.20	1046.44	0.92	736.86	0.33	320.94
18.30	1046.44	0.93	736.86	0.33	323.57
18.40	1046.44 1046.44	0.93	736.86	0.33 0.34	326.19
18.50	1046.44	0.94 0.94	736.87 736.87	0.34	328.72 331.21
18.60 18.70	1046.44	0.94	736.88	0.34	333.68
18.80	1046.44	0.95	736.88	0.34	336.04
18.90	1046.44	0.95	736.89	0.34	338.32
19.00	1046.44	0.96	736.89	0.34	340.58
19.10	1046.44	0.96	736.89	0.34	342.83
19.20	1046.44	0.96	736.90	0.34	344.72
19.30	1046.44	0.97	736.90	0.34	346.75
19.40	1046.44	0.97	736.90	0.34	348.70
19.50	1046.44	0.97	736.91	0.34	350.39
19.60	1046.44	0.98	736.91	0.35	352.40
19.70	1046.44	0.98	736.91	0.35	354.31
19.80	1046.44	0.98	736.92	0.35	356.16
19.90	1046.44	0.98	736.92	0.35	357.94
20.00	1046.44	0.99	736.92	0.35	359.65
20.10	1046.44	0.99	736.92	0.35	361.32
20.20	1046.44	0.99	736.93	0.35	362.96
20.30	1046.44	1.00	736.93	0.35	364.55
20.40	1046.44	1.00	736.93	0.35	366.08
20.50	1017.15	1.00	736.93	0.36	367.52
20.60	1017.15	1.00	736.94	0.36	368.97
20.70	1017.15	1.00	736.94	0.36	370.41
20.80	1017.15	1.01	736.94	0.36	371.82
20.90	1017.15	1.01	736.94	0.36	373.22
21.00	1017.15	1.01	736.94	0.36	374.62
21.10	1017.15	1.01	736.95	0.37	376.02
21.20	1017.15	1.01	736.95	0.37	377.38
21.30	1017.15	1.02	736.95	0.37	378.69
21.40	1017.15	1.02	736.95	0.37	380.07
21.50	1017.15	1.02	736.95	0.37	381.46
21.60	1017.15	1.02	736.96	0.37	382.86
21.70	1017.15	1.02	736.96	0.37	384.25
21.80 21.90	1017.15 1017.15	1.02 1.03	736.96	0.37 0.37	385.56 386.98
22.00	1017.15	1.03	736.96 736.96	0.37	388.43
22.10	1017.15	1.03	736.96	0.37	389.85
22.10	1017.13	1.03	750.50	0.57	203.63

22.20	1017.15	1.03	736.97	0.37	391.31
22.30	1017.15	1.03	736.97	0.37	392.69
22.40	1017.15	1.04	736.97	0.37	394.08
22.50	1017.15	1.04	736.97	0.37	395.56
22.60	1017.15	1.04	736.97	0.38	397.11
22.70	1017.15	1.04	736.97	0.38	398.74
22.70	1017.15	1.04	736.98	0.38	400.45
22.90	1017.15	1.04	736.98	0.38	401.91
23.00	1017.15	1.05	736.98	0.38	403.62
23.10	1017.15	1.05	736.98	0.38	405.50
23.20	1017.15	1.05	736.98	0.38	407.50
23.30	1017.15	1.05	736.99	0.38	409.61
23.40	1017.15	1.05	736.99	0.38	411.76
23.50	1017.15	1.06	736.99	0.39	414.10
23.60	1017.15	1.06	736.99	0.39	416.58
23.70	1017.15	1.06	737.00	0.39	419.20
23.80	1017.15	1.06	737.00	0.39	421.71
23.90	1017.15	1.07	737.00	0.39	424.95
24.00	1017.15	1.07	737.00	0.39	428.23
24.10	1017.15	1.07	737.01	0.40	431.58
24.20	1017.15	1.08	737.01	0.40	435.24
24.30	1017.15	1.08	737.01	0.40	438.95
24.40	993.99	1.08	737.02	0.41	443.24
24.50	975.73	1.09	737.02	0.42	448.11
24.60	975.73	1.09	737.03	0.42	452.91
24.70	956.20	1.10	737.03	0.44	458.52
24.80	949.59	1.10	737.04	0.44	464.68
24.90	949.31	1.11	737.04	0.45	471.19
25.00	949.28	1.11	737.05	0.45	478.11
25.10	948.96	1.12	737.05	0.46	485.61
25.20	948.35	1.13	737.06	0.46	493.71
25.30	948.96	1.13	737.07	0.47	502.12
25.40	948.35	1.14	737.08	0.47	511.09
			737.08		
25.50	948.33	1.15		0.48	520.85
25.60	948.35	1.16	737.09	0.48	531.22
25.70	947.71	1.17	737.10	0.49	542.27
25.80	946.99	1.18	737.11	0.50	554.11
25.90	879.55	1.19	737.12	0.54	566.57
26.00	879.55	1.20	737.13	0.55	579.45
26.10	870.32	1.21	737.14	0.56	592.18
26.20	843.26	1.22	737.15	0.59	605.70
26.30	796.78	1.23	737.16	0.63	619.44
26.40	791.05	1.24	737.18	0.65	633.37
26.50	793.59	1.25	737.19	0.65	647.63
26.60	821.01	1.26	737.20	0.64	661.99
26.70	820.34	1.17	737.10	0.71	676.75
26.80	819.70	1.16	737.09	0.73	691.43
26.90	815.86	1.17	737.10	0.74	706.17
27.00	801.23	1.18	737.11	0.76	721.08
27.10	795.98	1.19	737.13	0.78	735.75
27.20	813.05	1.20	737.14	0.77	750.09
27.30	811.90	1.21	737.15	0.78	763.84
27.40	810.30	1.22	737.16	0.79	777.58
27.50	810.18	1.23	737.16	0.79	790.95
27.60	809.65	1.24	737.17	0.80	803.90
27.70	783.58	1.25	737.18	0.83	816.72
27.80	774.57	1.26	737.19	0.85	828.91
27.90	773.28	1.27	737.20	0.86	840.99
28.00	772.96	1.28	737.21	0.86	852.47
20.00	,,2.50	1.20	, 51.21	0.00	032.47

28.10	772.32	1.28	737.22	0.87	863.65
28.20	772.64	1.29	737.23	0.88	875.02
28.30	772.64	1.30	737.23	0.88	885.41
28.40	772.01	1.31	737.24	0.89	896.14
28.50	770.71	1.32	737.25	0.89	906.23
28.60	754.29	1.32	737.26	0.92	916.42
28.70	741.42	1.33	737.26	0.94	925.96
28.80	741.42	1.34	737.20	0.94	934.66
28.90	741.42	1.34	737.27	0.95	943.45
28.90	741.42 741.42	1.35	737.28	0.95 0.95	943.45 951.95
29.10	741.42	1.36	737.28	0.95	960.24
29.10				0.96	
	742.72	1.36	737.30	0.92	968.19
29.30	770.71	1.37	737.30		975.70
29.40	770.71	1.38	737.31	0.93	982.72
29.50	770.71	1.38	737.32	0.93	989.29
29.60	768.43	1.39	737.32	0.93	995.94
29.70	749.23	1.40	737.33	0.96	1002.44
29.80	762.57	1.40	737.34	0.94	1008.56
29.90	770.71	1.41	737.34	0.93	1014.35
30.00	758.67	1.42	737.35	0.95	1020.08
30.10	700.92	1.42	737.35	1.03	1025.53
30.20	700.00	1.43	737.36	1.03	1030.35
30.30	700.00	1.43	737.37	1.03	1035.12
30.40	700.00	1.44	737.37	1.03	1039.65
30.50	700.00	1.44	737.37	1.04	1043.98
30.60	700.00	1.44	737.38	1.04	1048.11
30.70	683.24	1.45	737.38	1.06	1052.01
30.80	658.57	1.45	737.39	1.10	1055.53
30.90	658.57	1.46	737.39	1.10	1058.90
31.00	658.57	1.46	737.39	1.11	1062.15
31.10	658.57	1.46	737.40	1.11	1065.10
31.20	658.57	1.47	737.40	1.11	1067.84
31.30	658.57	1.47	737.40	1.11	1070.46
31.40	658.57	1.47	737.41	1.11	1072.94
31.50	658.57	1.47	737.41	1.11	1075.21
31.60	658.57	1.48	737.41	1.11	1077.24
31.70	658.57	1.48	737.41	1.11	1079.26
31.80	659.25	1.48	737.42	1.11	1081.11
31.90	658.57	1.48	737.42	1.11	1082.80
32.00	658.57	1.48	737.42	1.11	1084.36
32.10	658.57	1.49	737.42	1.11	1085.69
32.20	658.57	1.49	737.42	1.11	1086.69
32.30	658.57	1.49	737.42	1.11	1087.87
32.40	658.57	1.49	737.43	1.11	1088.98
32.50	658.57	1.49	737.43	1.11	1089.97
32.60	658.57	1.49	737.43	1.11	1090.70
32.70	658.57	1.50	737.43	1.11	1091.38
32.80	658.57	1.50	737.43	1.11	1091.93
32.90	658.57	1.50	737.43	1.11	1092.32
33.00	658.57	1.50	737.43	1.11	1092.63
33.10	631.64	1.50	737.43	1.15	1092.87
33.20	629.29	1.50	737.43	1.16	1093.92
33.30	629.29	1.50	737.43	1.16	1093.92
33.40	629.29	1.50	737.43	1.16	1093.62
33.50	629.29	1.50	737.44	1.16	1093.39
33.60	629.29	1.50	737.44		1093.13
	629.29	1.50		1.16	
33.70			737.44	1.16	1092.83
33.80	618.14	1.50	737.44	1.18	1092.38
33.90	600.00	1.50	737.44	1.21	1091.92

34.00	600.00	1.50	737.44	1.21	1091.39
34.10	600.00	1.50	737.44	1.21	1090.86
34.20	600.00	1.50	737.44	1.21	1090.30
34.30	575.73	1.50	737.44	1.26	1089.53
34.40	558.58	1.50	737.44	1.30	1088.62
34.50	558.58	1.50	737.44	1.30	1087.66
34.60	542.85	1.50	737.43	1.33	1086.76
34.70	529.29	1.50	737.43	1.37	1085.76
34.80	529.92	1.50	737.43	1.36	1084.75
34.90	529.29	1.50	737.43	1.37	1084.73
35.00	529.29	1.50	737.43	1.36	1082.49
35.10	529.29	1.50	737.43	1.36	1082.43
35.20	529.95	1.50	737.43	1.36	1080.06
35.30	529.29	1.50	737.43	1.36	1078.68
35.40	529.29	1.50	737.43	1.36	1077.55
35.50	529.29	1.50	737.43	1.36	1076.15
35.60	529.89	1.49	737.43	1.36	1074.67
35.70	529.29	1.49	737.43	1.36	1073.15
35.80	529.29	1.49	737.43	1.36	1071.67
35.90	529.29	1.49	737.43	1.36	1070.18
36.00	529.92	1.49	737.43	1.35	1068.66
36.10	529.29	1.49	737.42	1.35	1067.05
36.20	529.29	1.49	737.42	1.35	1065.45
36.30	529.29	1.49	737.42	1.35	1063.82
36.40	529.86	1.49	737.42	1.35	1062.33
36.50	529.29	1.49	737.42	1.35	1061.27
36.60	529.29	1.48	737.42	1.35	1060.42
36.70	529.29	1.48	737.42	1.35	1058.21
36.80	529.29	1.48	737.42	1.35	1056.16
36.90	529.29	1.48	737.42	1.34	1054.16
37.00	529.29	1.48	737.41	1.34	1052.49
37.10	529.29	1.48	737.41	1.34	1050.59
37.20	529.93	1.48	737.41	1.34	1048.60
37.30	529.29	1.48	737.41	1.34	1046.64
37.40	518.76	1.47	737.41	1.37	1044.74
37.50	500.00	1.47	737.41	1.42	1042.74
37.60	500.00	1.47	737.41	1.41	1042.74
37.70	500.00	1.47	737.40	1.41	1039.07
37.70	500.00	1.47	737.40	1.41	1037.05
37.90	500.00	1.47	737.40	1.41	1035.09
38.00	500.00	1.47	737.40	1.41	1033.11
38.10	500.00	1.47	737.40	1.41	1031.13
38.20	500.00	1.46	737.40	1.41	1029.15
38.30	500.00	1.46	737.40	1.41	1027.15
38.40	500.00	1.46	737.39	1.40	1025.12
38.50	500.00	1.46	737.39	1.40	1023.14
38.60	500.00	1.46	737.39	1.40	1021.16
38.70	500.00	1.46	737.39	1.40	1019.07
38.80	500.00	1.45	737.39	1.40	1017.30
38.90	500.00	1.45	737.39	1.40	1015.27
39.00	500.00	1.45	737.39	1.40	1013.24
39.10	500.00	1.45	737.38	1.39	1011.22
39.20	500.00	1.45	737.38	1.39	1009.22
39.30	500.00	1.45	737.38	1.39	1007.35
39.40	500.00	1.45	737.38	1.39	1005.38
39.50	500.00	1.44	737.38	1.39	1003.39
39.60	500.00	1.44	737.38	1.39	1001.41
39.70	500.00	1.44	737.38	1.39	999.45
39.80	500.00	1.44	737.37	1.39	997.60
55.00	300.00	4.77	151.51	2.55	227.00

39.90	500.00	1.44	737.37	1.39	995.76
40.00	500.00	1.44	737.37	1.38	993.87
40.10	500.00	1.43	737.37	1.38	991.95
40.20	500.00	1.43	737.37	1.38	990.03
40.30	500.00	1.43	737.37	1.38	988.19
40.40	500.00	1.43	737.36	1.38	986.33
40.50	500.00	1.43	737.36	1.38	984.50
40.60	500.00	1.43	737.36	1.38	982.65
40.70	500.00	1.43	737.36	1.38	980.84
40.80	500.00	1.42	737.36	1.37	978.94
40.90	500.00	1.42	737.36	1.37	977.17
41.00	500.00	1.42	737.36	1.37	975.44
41.10	500.00	1.42	737.35	1.37	973.70
41.20	500.00	1.42	737.35	1.37	972.06
41.30	500.00	1.42	737.35	1.37	970.31
41.40	500.00	1.42	737.35	1.37	968.65
41.50	500.00	1.41	737.35	1.37	967.01
41.60	500.00	1.41	737.35	1.37	965.39
41.70	500.00	1.41	737.35	1.37	963.82
41.80	500.00	1.41	737.34	1.36	962.35
41.90	500.00	1.41	737.34	1.36	960.72
42.00	500.00	1.41	737.34	1.36	959.11
42.10	500.00	1.41	737.34	1.36	957.63
42.20	500.00	1.40	737.34	1.36	956.20
42.30	500.00	1.40	737.34	1.36	954.63
42.40	500.00	1.40	737.34	1.36	953.18
42.50	500.00	1.40	737.34	1.36	951.71
42.60	500.00	1.40	737.33	1.36	950.30
42.70	500.00	1.40	737.33	1.36	948.89
42.80	500.00	1.40	737.33	1.36	947.59
42.90	500.00	1.40	737.33	1.36	946.25
43.00	500.00	1.40	737.33	1.35	944.92
43.10	500.00	1.39	737.33	1.35	943.51
43.20	500.00	1.39	737.33	1.35	942.41
43.30	500.00	1.39	737.33	1.35	941.25
43.40	500.00	1.39	737.32	1.35	939.84
43.50	500.00	1.39	737.32	1.35	938.56
43.60	500.00	1.39	737.32	1.35	937.32
43.70	500.00	1.39	737.32	1.35	936.12
43.80	500.00	1.39	737.32	1.35	934.98
43.90	500.00	1.39	737.32	1.35	933.84
44.00	500.00	1.38	737.32	1.35	932.71
44.10	500.00	1.38	737.32	1.35	931.59
44.20	500.00	1.38	737.32	1.35	930.55
44.30	500.00	1.38	737.32	1.35	929.56
44.40	500.00	1.38	737.31	1.35	928.51
44.50	500.00	1.38	737.31	1.34	927.46
44.60	500.00	1.38	737.31	1.34	926.46
44.70	500.00	1.38	737.31	1.34	925.49
44.80	500.00	1.38	737.31	1.34	924.52
44.90	500.00	1.38	737.31	1.34	923.58
45.00	500.00	1.37	737.31	1.34	922.78
45.10	500.00	1.37	737.31	1.34	921.88
45.20	500.00	1.37	737.31	1.34	920.98
45.30	500.00	1.37	737.31	1.34	920.12
45.40	500.00	1.37	737.31	1.34	919.29
45.50	500.00	1.37	737.30	1.34	918.49
45.60	500.00	1.37	737.30	1.34	917.78
45.70	500.00	1.37	737.30	1.34	916.96

45.80	500.00	1.37	737.30	1.34	916.33
45.90	500.00	1.37	737.30	1.34	915.72
46.00	500.00	1.37	737.30	1.34	915.09
46.10	500.00	1.37	737.30	1.34	914.45
46.20	500.00	1.37	737.30	1.34	913.81
46.30	500.00	1.37	737.30	1.34	913.20
46.40	500.00	1.36	737.30	1.34	912.55
46.50	500.00	1.36	737.30	1.34	912.01
46.60	500.00	1.36	737.30	1.34	911.49
46.70	500.00	1.36	737.30	1.34	910.91
46.80	500.00	1.36	737.30	1.34	910.40
46.90	500.00	1.36	737.30	1.34	909.90
47.00	500.00	1.36	737.30	1.34	909.44
47.10	500.00	1.36	737.30	1.34	908.94
47.20	500.00	1.36	737.29	1.34	908.48
47.30	500.00	1.36	737.29	1.33	907.96
47.40	500.00	1.36	737.29	1.34	907.70
47.50	500.00	1.36	737.29	1.33	907.26
47.60	500.00	1.36	737.29	1.33	906.83
47.70	500.00	1.36	737.29	1.33	906.49
47.70	500.00	1.36	737.29	1.33	906.19
47.90	500.00	1.36	737.29	1.33	905.73
48.00	500.00	1.36	737.29	1.33	905.41
48.10	482.94	1.36	737.29	1.38	905.24
				1.41	
48.20	472.86	1.36	737.29		904.92
48.30	470.31	1.36	737.29	1.42	904.48
48.40	466.86	1.36	737.29	1.43	904.19
48.50	463.95	1.36	737.29	1.44	903.81
48.60	458.58	1.36	737.29	1.45	903.49
48.70	458.58	1.36	737.29	1.45	903.20
48.80	458.58	1.35	737.29	1.45	902.90
48.90	458.58	1.35	737.29	1.45	902.61
49.00	458.58	1.35	737.29	1.45	902.46
49.10	458.58	1.35	737.29	1.45	902.27
49.20	458.58	1.35	737.29	1.45	901.97
49.30	458.58	1.35	737.29	1.45	901.69
49.40	458.58	1.35	737.29	1.45	901.46
49.50	458.58	1.35	737.29	1.45	901.16
49.60	458.58	1.35	737.29	1.45	900.95
49.70	458.58	1.35	737.29	1.45	900.74
49.80	458.58	1.35	737.29	1.45	900.62
49.90	458.58	1.35	737.29	1.45	900.34
50.00	458.58	1.35	737.29	1.45	900.10
50.10	429.82	1.35	737.29	1.55	899.90
50.20	429.29	1.35	737.29	1.55	899.71
50.30	429.29	1.35	737.29	1.55	899.50
50.40	429.29	1.35	737.29	1.55	899.47
50.50	429.29	1.35	737.29	1.55	899.23
50.60	429.29	1.35	737.28	1.55	898.98
50.70	429.29	1.35	737.28	1.55	898.74
50.80	429.29	1.35	737.28	1.55	898.51
50.90	429.29	1.35	737.28	1.55	898.30
51.00	429.29	1.35	737.28	1.55	898.19
51.10	429.29	1.35	737.28	1.55	898.05
51.20	429.29	1.35	737.28	1.55	897.73
51.30	429.29	1.35	737.28	1.55	897.47
51.40	429.29	1.35	737.28	1.55	897.22
51.50	429.29	1.35	737.28	1.55	896.99
51.60	429.29	1.35	737.28	1.55	896.79

51.70	429.29	1.35	737.28	1.55	896.59
51.80	429.29	1.35	737.28	1.55	896.55
51.90	429.29	1.35	737.28	1.55	896.27
52.00	429.29	1.35	737.28	1.55	895.96
52.10	429.29	1.35	737.28	1.55	895.68
52.20	429.29	1.35	737.28	1.55	895.39
52.30	429.29	1.35	737.28	1.55	895.16
52.40	429.29	1.35	737.28	1.55	894.95
52.50	429.29	1.35	737.28	1.55	894.72
52.60	429.29	1.35	737.28	1.55	894.60
52.70	429.29	1.35	737.28	1.55	894.38
52.80	429.29	1.35	737.28	1.55	894.04
52.90	429.29	1.35	737.28	1.55	893.75
53.00	429.29	1.35	737.28	1.55	893.45
53.10	429.29	1.35	737.28	1.55	893.19
53.20	429.29	1.35	737.28	1.55	892.92
53.30	429.29	1.35	737.28	1.55	892.80
53.40	429.29	1.35	737.28	1.55	892.66
53.50	429.29	1.35	737.28	1.55	892.24
53.60	429.29	1.34	737.28	1.54	891.87
53.70	429.29	1.34	737.28	1.54	891.52
53.80	429.29	1.34	737.28	1.54	891.18
53.90	429.29	1.34	737.28	1.54	890.85
54.00	429.29	1.34	737.28	1.54	890.54
54.10	429.29	1.34	737.28	1.54	890.39
54.20	429.29	1.34	737.28	1.54	889.95
54.30	429.29	1.34	737.28	1.54	889.51
54.40	429.29	1.34	737.28	1.54	889.11
54.50	429.29	1.34	737.28	1.54	888.71
54.60	429.29	1.34	737.28	1.54	888.34
54.70	429.29	1.34	737.28	1.54	888.14
54.80	429.29	1.34	737.28	1.54	887.71
54.90	429.29	1.34	737.28	1.54	887.21
55.00	429.29	1.34	737.28	1.54	886.76
55.10	429.29	1.34	737.28	1.54	886.33
55.20	429.29	1.34	737.27	1.54	885.90
55.30	429.29	1.34	737.27	1.54	885.46
55.40	429.29	1.34	737.27	1.54	885.03
55.50	429.29	1.34	737.27	1.54	884.77
55.60	429.29	1.34	737.27	1.54	884.33
55.70	429.29	1.34	737.27	1.54	883.78
55.80	429.29	1.34	737.27	1.54	883.28
55.90	429.29	1.34	737.27	1.54	882.79
56.00	429.29	1.34	737.27	1.54	882.30
56.10	429.29	1.34	737.27	1.54	881.97
56.20	429.29	1.34	737.27	1.54	881.51
56.30	429.29	1.34	737.27	1.53	880.93
56.40	429.29	1.34	737.27	1.53	880.35
56.50	429.29	1.34	737.27	1.53	879.79
56.60	429.29	1.34	737.27	1.53	879.25
56.70	429.29	1.34	737.27	1.53	878.71
56.80	429.29	1.34	737.27	1.53	878.16
56.90	429.29	1.33	737.27	1.53	877.60
57.00	429.29	1.33	737.27	1.53	877.05
57.10	429.29	1.33	737.27	1.53	876.49
57.20	429.29	1.33	737.27	1.53	875.91
57.30	429.29	1.33	737.27	1.53	875.32
57.40	429.29	1.33	737.27	1.53	874.71
57.50	429.29	1.33	737.27	1.53	874.21

57.60	429.29	1.33	737.27	1.53	873.55
57.70	429.29	1.33	737.27	1.53	872.88
57.80	429.29	1.33	737.26	1.53	872.21
57.90	429.29	1.33	737.26	1.53	871.51
58.00	429.29	1.33	737.26	1.53	870.79
58.10	429.29	1.33	737.26	1.53	870.13
58.20	429.29	1.33	737.26	1.52	869.57
58.30	429.29	1.33	737.26	1.52	868.91
58.40	429.29	1.33	737.26	1.52	868.16
58.50	429.29	1.33	737.26	1.52	867.42
58.60	429.29	1.33	737.26	1.52	866.70
58.70	429.29	1.33	737.26	1.52	865.98
58.80	429.29	1.33	737.26	1.52	865.24
58.90	429.29	1.33	737.26	1.52	864.50
59.00	429.29	1.32	737.26	1.52	863.76
59.10	429.29	1.32	737.26	1.52	862.99
59.20	429.29	1.32	737.26	1.52	862.35
59.30	429.29	1.32	737.26	1.52	861.60
59.40	429.29	1.32	737.26	1.52	860.94
59.50	429.29	1.32	737.26	1.52	860.15
59.60	429.29	1.32	737.26	1.51	859.34
59.70	429.29	1.32	737.25	1.51	858.54
	429.29	1.32		1.51	
59.80		1.32	737.25	1.51	857.70
59.90	429.29		737.25		856.89
60.00	429.29	1.32	737.25	1.51	856.10
60.10	429.29	1.32	737.25	1.51	855.31
60.20	429.29	1.32	737.25	1.51	854.50
60.30	429.29	1.32	737.25	1.51	853.70
60.40	429.29	1.32	737.25	1.51	852.87
60.50	429.29	1.32	737.25	1.51	851.99
60.60	429.29	1.32	737.25	1.51	851.39
60.70	429.29	1.32	737.25	1.51	850.54
60.80	429.29	1.31	737.25	1.51	849.69
60.90	429.29	1.31	737.25	1.50	848.79
61.00	429.29	1.31	737.25	1.50	847.95
61.10	429.29	1.31	737.25	1.50	847.19
61.20	429.29	1.31	737.25	1.50	846.43
61.30	429.29	1.31	737.25	1.50	845.52
61.40	429.29	1.31	737.25	1.50	844.61
61.50	429.29	1.31	737.24	1.50	843.72
61.60	429.29	1.31	737.24	1.50	842.82
61.70	429.29	1.31	737.24	1.50	842.03
61.80	429.29	1.31	737.24	1.50	841.25
61.90	429.29	1.31	737.24	1.50	840.32
62.00	429.29	1.31	737.24	1.50	839.41
62.10	429.29	1.31	737.24	1.49	838.51
62.20	429.29	1.31	737.24	1.49	837.62
62.30	429.29	1.31	737.24	1.49	836.71
62.40	429.29	1.30	737.24	1.49	835.81
62.50	429.29	1.30	737.24	1.49	834.93
62.60	429.29	1.30	737.24	1.49	834.20
62.70	429.29	1.30	737.24	1.49	833.30
62.80	429.29	1.30	737.24	1.49	832.35
62.90	429.29	1.30	737.24	1.49	831.41
63.00	429.29	1.30	737.24	1.49	830.49
63.10	429.29	1.30	737.23	1.49	829.57
63.20	429.29	1.30	737.23	1.49	828.66
63.30	429.29	1.30	737.23	1.48	827.77
63.40	429.29	1.30	737.23	1.48	826.86

63.50	429.29	1.30	737.23	1.48	825.93
63.60	429.29	1.30	737.23	1.48	825.06
63.70	429.29	1.30	737.23	1.48	824.24
63.80	429.29	1.30	737.23	1.48	823.23
63.90	429.29	1.30	737.23	1.48	822.28
64.00		1.29			
	429.29		737.23	1.48	821.35
64.10	429.29	1.29	737.23	1.48	820.40
64.20	429.29	1.29	737.23	1.48	819.47
64.30	429.29	1.29	737.23	1.48	818.54
64.40	429.29	1.29	737.23	1.47	817.66
64.50	429.29	1.29	737.23	1.47	816.82
64.60	429.29	1.29	737.22	1.47	815.82
64.70	426.38	1.29	737.22	1.48	814.85
64.80	416.66	1.29	737.22	1.52	814.00
64.90	418.34	1.29	737.22	1.51	813.02
65.00	417.96	1.29	737.22	1.51	812.03
65.10	417.74	1.29	737.22	1.51	811.06
65.20	416.51	1.29	737.22	1.51	810.33
65.30	417.52	1.29	737.22	1.51	809.33
	417.57	1.29	737.22		808.33
65.40				1.51	
65.50	417.68	1.28	737.22	1.51	807.30
65.60	417.30	1.28	737.22	1.51	806.29
65.70	416.97	1.28	737.22	1.51	805.31
65.80	416.85	1.28	737.22	1.51	804.35
65.90	415.79	1.28	737.22	1.51	803.42
66.00	415.75	1.28	737.22	1.51	802.56
66.10	416.30	1.28	737.21	1.51	801.62
66.20	416.59	1.28	737.21	1.50	800.60
66.30	416.62	1.28	737.21	1.50	799.56
66.40	416.12	1.28	737.21	1.50	798.53
66.50	415.75	1.28	737.21	1.50	797.55
66.60	416.30	1.28	737.21	1.50	796.51
66.70	415.26	1.28	737.21	1.50	795.55
66.80	415.88	1.28	737.21	1.50	794.59
66.90	415.02	1.27	737.21	1.50	793.63
67.00	415.17	1.27	737.21	1.50	792.65
67.10	415.44	1.27	737.21	1.50	791.66
67.20	415.05	1.27	737.21	1.50	790.65
67.30	415.19	1.27	737.21	1.50	789.61
67.40	415.06	1.27	737.21	1.50	788.56
67.50	414.52	1.27	737.20	1.50	787.57
67.60	411.91	1.27	737.20	1.51	786.74
67.70	416.44	1.27	737.20	1.49	785.70
67.80	415.69	1.27	737.20	1.49	784.49
67.90	415.44	1.27	737.20	1.49	783.34
68.00	415.18	1.27	737.20	1.49	782.21
68.10	415.19	1.27	737.20	1.49	781.17
68.20	415.06	1.27	737.20	1.49	780.13
68.30	414.50	1.26	737.20	1.49	779.04
68.40	414.36	1.26	737.20	1.49	777.96
68.50	413.52	1.26	737.20	1.49	776.99
68.60	413.75	1.26	737.20	1.49	776.04
68.70	413.60	1.26	737.20	1.49	775.02
68.80	413.70	1.26	737.19	1.49	773.94
68.90	413.68	1.26	737.19	1.48	772.86
69.00	413.74	1.26	737.19	1.48	771.76
69.10	413.07	1.26	737.19	1.48	770.77
69.20	413.90	1.26	737.19	1.48	769.65
69.30	413.87	1.26	737.19	1.48	768.51

69.40	413.74	1.26	737.19	1.48	767.39
69.50	413.84	1.26	737.19	1.48	766.21
69.60	413.83	1.25	737.19	1.48	765.09
69.70	413.26	1.25	737.19	1.48	763.98
69.80	413.41	1.25	737.19	1.47	762.85
69.90	412.83	1.25	737.19	1.48	761.80
70.00	413.02	1.25	737.19	1.47	760.75
70.10	412.73	1.25	737.18	1.47	759.64
70.20	413.19	1.25	737.18	1.47	758.51
70.30	413.04	1.25	737.18	1.47	757.34
70.40	412.74	1.25	737.18	1.47	756.19
70.50	414.37	1.25	737.18	1.46	755.32
70.60	414.50	1.25	737.18	1.46	754.21
70.70	413.08	1.25	737.18	1.47	753.05
70.80	412.51	1.24	737.18	1.47	751.87
70.90	411.66	1.24	737.18	1.47	750.83
71.00	412.07	1.24	737.18	1.47	749.74
71.10	412.03	1.24	737.18	1.46	748.59
71.20	411.82	1.24	737.18	1.46	747.42
71.30	410.85	1.24	737.17	1.47	746.42
71.40	412.27	1.24	737.17	1.46	745.19
71.50	411.83	1.24	737.17	1.46	744.00
71.60	412.06	1.24	737.17	1.46	742.82
71.70	411.60	1.24	737.17	1.46	741.72
71.80	412.01	1.24	737.17	1.46	740.54
71.90	413.02	1.24	737.17	1.45	739.40
72.00	412.70	1.23	737.17	1.45	738.19
72.10	411.87	1.23	737.17	1.45	737.04
72.20	411.55	1.23	737.17	1.45	735.86
72.30	411.49	1.23	737.17	1.45	734.65
72.40	411.16	1.23	737.17	1.45	733.46
72.50	411.48	1.23	737.16	1.45	732.27
72.60	411.31	1.23	737.16	1.45	731.08
72.70	411.20	1.23	737.16	1.45	729.86
72.80	411.14	1.23	737.16	1.45	728.76
72.90	410.82	1.23	737.16	1.45	727.61
73.00	411.28	1.23	737.16	1.44	726.42
73.10	411.05	1.23	737.16	1.44	725.19
73.20	410.98	1.22	737.16	1.44	724.00
73.30	410.88	1.22	737.16	1.44	722.80
73.40	410.67	1.22	737.16	1.44	721.70
73.50	410.79	1.22	737.16	1.44	720.49
73.60	410.98	1.22	737.15	1.44	719.28
73.70	410.75	1.22	737.15	1.43	718.08
73.80	410.30	1.22	737.15	1.44	716.86
73.90	410.88	1.22	737.15	1.43	715.63
74.00	410.42	1.22	737.15	1.43	714.44
74.10	410.25	1.22	737.15	1.43	713.38
74.20	409.51	1.22	737.15	1.43	712.34
74.30	410.27	1.21	737.15	1.43	711.16
74.40	409.50	1.21	737.15	1.43	710.02
74.50	408.60	1.21	737.15	1.43	709.10
74.60	410.13	1.21	737.15	1.43	707.74
74.70	410.77	1.21	737.15	1.42	706.35
74.80	410.42	1.21	737.14	1.42	705.03
74.90	410.52	1.21	737.14	1.42	703.73
75.00	409.76	1.21	737.14	1.42	702.50
75.10 75.20	410.10 409.76	1.21 1.21	737.14 737.14	1.42 1.42	701.35
13.20	403.70	1.21	/3/.14	1.42	700.16

75.30	410.29	1.21	737.14	1.41	698.89
75.40	410.03	1.20	737.14	1.41	697.62
75.50	410.40	1.20	737.14	1.41	696.37
75.60	410.14	1.20	737.14	1.41	695.10
75.70	409.57	1.20	737.14	1.41	693.88
75.80	410.12	1.20	737.13	1.41	692.65
75.90	408.26	1.20	737.13	1.41	691.51
76.00	406.16	1.20	737.13	1.42	690.29
76.10	404.48	1.20	737.13	1.43	689.06
76.20	403.49	1.20	737.13	1.43	687.85
76.30	401.38	1.20	737.13	1.43	686.62
76.40	400.00	1.19	737.13	1.44	685.41
76.50	398.31	1.19	737.13	1.44	684.20
76.60	396.26	1.19	737.13	1.45	682.97
76.70	394.49	1.19	737.13	1.45	681.73
76.80	393.55	1.19	737.13	1.46	680.47
76.90	377.48	1.19	737.12	1.52	679.21
77.00	350.10	1.19	737.12	1.63	678.09
77.10		1.19	737.12	1.64	676.85
	348.55				
77.20	347.02	1.19	737.12	1.64	675.60
77.30	345.16	1.19	737.12	1.65	674.35
77.40	343.93	1.19	737.12	1.66	673.10
77.50	338.39	1.18	737.12	1.68	671.84
77.60	338.48	1.18	737.12	1.68	670.62
77.70	338.07	1.18	737.12	1.68	669.44
77.80	337.57	1.18	737.12	1.68	668.30
77.90	337.74	1.18	737.11	1.68	667.12
78.00	337.74	1.18	737.11	1.67	665.92
78.10	337.22	1.18	737.11	1.67	664.69
78.20	337.92	1.18	737.11	1.67	662.79
78.30	337.45	1.18	737.11	1.67	661.48
78.40	337.69	1.18	737.11	1.67	660.52
78.50	337.02	1.17	737.11	1.67	659.39
78.60	337.17	1.17	737.11	1.67	658.25
78.70	337.33	1.17	737.11	1.66	657.07
78.80	336.83	1.17	737.11	1.66	655.85
78.90	336.98	1.17	737.11	1.66	654.64
79.00	337.14	1.17	737.10	1.66	653.51
79.10	336.53	1.17	737.10	1.66	652.39
79.20	336.68	1.17	737.10	1.66	651.23
79.30	336.88	1.17	737.10	1.66	650.05
79.40	336.40	1.17	737.10	1.66	648.80
79.50	336.61	1.17	737.10	1.65	647.52
79.60	337.82	1.16	737.10	1.65	646.23
79.70	341.47	1.16	737.10	1.63	644.95
79.80	339.82	1.16	737.10	1.63	643.74
79.90	343.42	1.16	737.10	1.62	642.55
80.00	345.12	1.16	737.09	1.61	641.29
80.10	345.56	1.16	737.09	1.60	640.05
80.20	348.72	1.16	737.09	1.59	638.80
80.30	348.44	1.16	737.09	1.59	637.58
80.40	349.28	1.16	737.09	1.58	636.37
80.50	350.91	1.16	737.09	1.57	635.13
80.60	351.00	1.15	737.09	1.57	633.93
80.70	352.92	1.15	737.09	1.56	632.68
80.80	345.91	1.15	737.09	1.59	631.63
80.90	347.56	1.15	737.09	1.58	630.75
81.00	353.92	1.15	737.08	1.55	629.60
81.10	358.58	1.15	737.08	1.53	628.20

81.20	359.71	1.15	737.08	1.52	626.87
81.30	359.73	1.15	737.08	1.52	625.61
81.40	359.67	1.15	737.08	1.52	624.37
81.50	355.80	1.15	737.08	1.53	623.40
81.60	359.61	1.14	737.08	1.51	622.34
81.70	363.90	1.14	737.08	1.49	621.12
81.80	365.63	1.14	737.08	1.49	619.87
81.90	365.21	1.14	737.08	1.48	618.57
82.00	365.34	1.14	737.07	1.48	617.14
82.10	365.40	1.14	737.07	1.48	615.83
82.20	365.25	1.14	737.07	1.48	614.51
82.30	367.21	1.19	737.13	1.40	613.24
82.40	349.15	1.23	737.16	1.43	612.27
82.50	344.86	1.23	737.17	1.44	611.11
82.60	347.66	1.23	737.17	1.43	609.92
82.70	349.82	1.23	737.17	1.42	608.71
82.80	354.11	1.23	737.17	1.40	607.48
82.90	360.55	1.23	737.16	1.37	606.18
83.00	360.87	1.23	737.16	1.37	604.92
83.10	364.14	1.23	737.16	1.35	603.68
83.20	364.43	1.23	737.16	1.35	602.43
83.30	363.96	1.23	737.16	1.35	601.18
83.40	363.55	1.23	737.16	1.34	600.01
83.50	363.59	1.23	737.16	1.34	599.07
83.60	362.88	1.23	737.17	1.34	597.99
83.70	363.00	1.23	737.16	1.34	596.69
83.80	363.04	1.23	737.16	1.34	595.45
83.90	362.56	1.23	737.16	1.33	594.11
84.00	361.48	1.23	737.17	1.33	592.81
84.10	358.58	1.24	737.18	1.33	591.58
84.20	358.58	1.24	737.18	1.33	590.36
84.30	358.58	1.24	737.18	1.32	589.29
84.40	358.58	1.24	737.17	1.32	588.08
84.50	358.58	1.24	737.17	1.32	586.81
84.60	358.58	1.24	737.17	1.32	585.55
84.70	358.58	1.24	737.17	1.32	584.27
84.80	358.58	1.24	737.17	1.32	582.92
84.90	358.58	1.23	737.17	1.31	581.59
85.00	358.58	1.23	737.17	1.31	580.34
85.10	358.58	1.23	737.17	1.31	579.11
85.20	358.58	1.23	737.16	1.31	577.86
85.30	358.58	1.23	737.16	1.31	576.74
85.40	358.58	1.23	737.16	1.31	575.69
85.50	358.58	1.23	737.16	1.31	574.48
85.60	358.58	1.23	737.16	1.30	573.24
85.70	358.58	1.23	737.16	1.30	571.97
85.80	358.58	1.22	737.16	1.30	570.64
85.90	358.58	1.22	737.16	1.30	569.28
86.00	358.58	1.22	737.16	1.30	567.94
86.10	358.58	1.22	737.15	1.30	566.80
				1.29	
86.20	358.58	1.22	737.15		565.66
86.30	358.58	1.22	737.15	1.29	564.45
86.40	358.58	1.22	737.15	1.29	563.22
86.50	358.58	1.22	737.15	1.29	561.99
86.60	358.58	1.21	737.15	1.29	560.81
86.70	358.58	1.21	737.15	1.29	559.55
86.80	358.58	1.21	737.15	1.28	558.30
86.90	358.58	1.21	737.15	1.28	556.98
87.00	358.58	1.21	737.14	1.28	555.81

87.10	358.58	1.21	737.14	1.28	554.73
87.20	358.58	1.21	737.14	1.28	553.59
87.30	358.58	1.21	737.14	1.28	552.44
87.40	358.58	1.21	737.14	1.28	551.27
87.50	358.58	1.20	737.14	1.27	550.21
87.60	358.58	1.20	737.14	1.27	549.02
87.70	358.58	1.20	737.14	1.27	547.77
	358.58			1.27	
87.80		1.20	737.13		546.49
87.90	358.58	1.20	737.13	1.27 1.27	545.28
88.00	358.58	1.20	737.13		544.20
88.10	358.58	1.20	737.13	1.27	543.05
88.20	358.58	1.20	737.13	1.26	541.87
88.30	358.58	1.19	737.13	1.26	540.67
88.40	358.58	1.19	737.13	1.26	539.48
88.50	358.58	1.19	737.13	1.26	538.29
88.60	358.58	1.19	737.13	1.26	537.10
88.70	358.58	1.19	737.12	1.26	536.10
88.80	358.58	1.19	737.12	1.25	534.94
88.90	358.58	1.19	737.12	1.25	533.60
89.00	358.58	1.19	737.12	1.25	532.33
89.10	358.58	1.19	737.12	1.25	531.20
89.20	358.58	1.18	737.12	1.25	530.12
89.30	358.58	1.18	737.12	1.25	528.97
89.40	358.58	1.18	737.12	1.25	527.80
89.50	358.58	1.18	737.12	1.24	526.64
89.60	358.58	1.18	737.11	1.24	525.49
89.70	358.58	1.18	737.11	1.24	524.34
89.80	358.58	1.18	737.11	1.24	523.14
89.90	358.58	1.18	737.11	1.24	521.97
90.00	358.58	1.18	737.11	1.24	520.90
90.10	358.58	1.17	737.11	1.23	519.81
90.20	358.58	1.17	737.11	1.23	518.71
90.30	358.58	1.17	737.11	1.23	517.61
90.40	358.58	1.17	737.10	1.23	516.52
90.50	358.58	1.17	737.10	1.23	515.42
90.60	358.58	1.17	737.10	1.23	514.33
90.70	358.58	1.17	737.10	1.23	513.24
90.80	358.58	1.17	737.10	1.22	512.13
90.90	358.58	1.16	737.10	1.22	511.04
91.00	358.58	1.16	737.10	1.22	509.97
91.10	358.58	1.16	737.10	1.22	509.00
91.20	358.58	1.16	737.10	1.22	507.96
91.30	358.58	1.16	737.09	1.22	506.90
91.40	358.58	1.16	737.09	1.22	505.83
91.50	358.58	1.16	737.09	1.22	504.75
91.60	358.58	1.16	737.09	1.21	503.66
91.70	358.58	1.16	737.09	1.21	502.63
91.80	358.58	1.15	737.09	1.21	501.63
91.90	358.58	1.15	737.09	1.21	500.55
92.00	358.58	1.15	737.09	1.21	499.45
92.10	358.58	1.15	737.09	1.21	498.49
92.20	358.58	1.15	737.08	1.21	497.50
92.30	358.58	1.15	737.08	1.20	496.47
92.40	358.58	1.15	737.08	1.20	495.42
92.40	358.58	1.15	737.08	1.20	494.40
92.50		1.15	737.08	1.20	493.36
	358.58	1.15		1.20	
92.70	358.58		737.08		492.33
92.80	358.58	1.14	737.08	1.20	491.30
92.90	358.58	1.14	737.08	1.20	490.29

93.00	356.14	1.14	737.08	1.20	489.29
93.10	345.87	1.14	737.07	1.24	488.28
93.20	345.06	1.14	737.07	1.24	487.28
93.30	345.65	1.14	737.07	1.24	486.28
93.40	345.53	1.14	737.07	1.24	485.28
93.50	344.97	1.14	737.07	1.24	484.23
93.60	344.83	1.14	737.07	1.24	483.19
93.70	345.59	1.13	737.07	1.23	482.14
93.80	344.54	1.13			481.10
			737.07 737.07	1.23	
93.90	344.87	1.13		1.23	480.06
94.00	343.93	1.13	737.06	1.23	479.02
94.10	344.47	1.13	737.06	1.23	478.06
94.20	344.76	1.13	737.06	1.23	477.01
94.30	343.93	1.13	737.06	1.23	476.00
94.40	343.93	1.13	737.06	1.23	474.97
94.50	344.81	1.13	737.06	1.22	473.96
94.60	342.90	1.12	737.06	1.23	472.91
94.70	344.23	1.12	737.06	1.22	471.89
94.80	343.02	1.12	737.06	1.23	470.88
94.90	342.85	1.12	737.05	1.23	469.88
95.00	341.13	1.12	737.05	1.23	468.88
95.10	343.77	1.12	737.05	1.22	467.83
95.20	343.30	1.12	737.05	1.22	466.80
95.30	342.48	1.12	737.05	1.22	465.80
95.40	341.70	1.12	737.05	1.22	464.78
95.50	338.49	1.11	737.05	1.23	463.94
95.60	343.07	1.11	737.05	1.21	463.14
95.70	340.89	1.11	737.05	1.22	462.10
95.80	342.01	1.11	737.05	1.22	461.11
95.90	343.18	1.11	737.04	1.21	460.11
96.00	340.58	1.11	737.04	1.22	459.14
96.10	340.58	1.11	737.04	1.22	458.15
96.20	342.19	1.11	737.04	1.21	457.19
96.30	341.33	1.11	737.04	1.21	456.23
96.40	341.28	1.10	737.04	1.21	455.27
96.50	340.77	1.10	737.04	1.21	454.33
			737.04		
96.60	340.31	1.10		1.21	453.39
96.70	338.75	1.10	737.04	1.21	452.37
96.80	340.35	1.10	737.03	1.21	451.48
96.90	340.46	1.10	737.03	1.21	450.56
97.00	340.39	1.10	737.03	1.20	449.62
97.10	340.39	1.10	737.03	1.20	448.69
97.20	340.00	1.10	737.03	1.20	447.76
97.30	340.31	1.10	737.03	1.20	446.83
97.40	339.91	1.09	737.03	1.20	445.90
97.50	340.23	1.09	737.03	1.20	444.98
97.60	340.23	1.09	737.03	1.20	444.01
97.70	339.82	1.09	737.03	1.20	443.03
97.80	339.82	1.09	737.02	1.20	442.09
97.90	339.94	1.09	737.02	1.19	441.14
98.00	339.94	1.09	737.02	1.19	440.22
98.10	339.39	1.09	737.02	1.19	439.29
98.20	339.39	1.09	737.02	1.19	438.39
98.30	338.82	1.08	737.02	1.19	437.50
98.40	338.25	1.08	737.02	1.19	436.71
98.50	338.25	1.08	737.02	1.19	435.97
98.60	338.65	1.08	737.02	1.19	435.13
98.70	338.84	1.08	737.01	1.19	434.25
98.80	338.74	1.08	737.01	1.19	433.37
20.00	550.74	2.00	. 5, . 01		155.57

98.90	338.74	1.08	737.01	1.19	432.48
99.00	338.62	1.08	737.01	1.18	431.59
99.10	338.72	1.08	737.01	1.18	430.71
99.20	334.55	1.08	737.01	1.20	430.11
99.30	338.61	1.08	737.01	1.18	429.45
99.40	338.71	1.07	737.01	1.18	428.30
99.50	338.71	1.07	737.01	1.18	427.33
99.60	339.28	1.07	737.01	1.17	426.42
99.70	337.95	1.07	737.00	1.18	425.48
99.80	338.85	1.07	737.00	1.17	424.67
99.90	338.44	1.07	737.00	1.17	423.77
100.00	338.54	1.07	737.00	1.17	422.97

THE MAXIMUM DISCHARGE FROM CROSS SECTION 29 IS: 442.53 CFS AT TIME: 42.42 HOURS THE TOTAL VOLUME OF DISCHARGE IS: 2080.18 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 29

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

VELOCIT	AVEITAGE	CHOSS SECTION	VELOCITI (BASED	ON DISCHARGE A	TEON AREA)
TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00

4.60	0.00	0.00	0.00	0.00	0.00
4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20 6.30	0.00	0.00	0.00 0.00	0.00	0.00 0.00
6.40	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00
7.60	0.00	0.00	0.00	0.00	0.00
7.70	33.65	0.00	737.72	-0.00	-0.00
7.80	370.00	0.00	737.72	-0.00	-0.01
7.90	472.91	0.00	737.72	-0.00	-0.01
8.00	11.75	0.00	737.72	0.00	-0.00
8.10	0.00	0.00	0.00	0.00	0.00
8.20	0.00	0.00	0.00	0.00	0.00
8.30	0.00	0.00	0.00	0.00	0.00
8.40	0.00	0.00	0.00	0.00	0.00
8.50	0.00	0.00	0.00	0.00	0.00
8.60	0.00	0.00	0.00	0.00	0.00
8.70	0.00	0.00	0.00	0.00	0.00
8.80	0.00	0.00	0.00	0.00	0.00
8.90	0.00	0.00	0.00	0.00	0.00
9.00	0.00	0.00	0.00	0.00	0.00
9.10	0.00	0.00	0.00	0.00	0.00
9.20	0.00	0.00	0.00	0.00	0.00
9.30 9.40	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
9.50	0.00	0.00	0.00	0.00	0.00
9.60	0.00	0.00	0.00	0.00	0.00
9.70	0.00	0.00	0.00	0.00	0.00
9.80	0.00	0.00	0.00	0.00	0.00
9.90	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	0.00	0.00	0.00
10.10	0.00	0.00	0.00	0.00	0.00
10.20	0.00	0.00	0.00	0.00	0.00
10.30	0.00	0.00	0.00	0.00	0.00
10.40	0.00	0.00	0.00	0.00	0.00
		2.5.2.2			

10.50	0.00	0.00	0.00	0.00	0.00
10.60	0.00	0.00	0.00	0.00	0.00
10.70	0.00	0.00	0.00	0.00	0.00
10.80	0.00	0.00	0.00	0.00	0.00
10.90	0.00	0.00	0.00	0.00	0.00
11.00	0.00	0.00	0.00	0.00	0.00
11.10	886.31	0.02	737.73	0.00	0.01
11.20	987.86	0.02	737.74	0.00	0.05
11.30	987.86	0.05	737.77	0.00	0.10
11.40	987.86	0.07	737.79	0.00	0.15
11.50	987.86	0.08	737.80	0.00	0.22
11.60	1019.12	0.09	737.80	0.00	0.27
11.70	1070.70	0.10	737.82	0.00	0.34
11.80	1082.31	0.11	737.83	0.00	0.50
11.90	1099.99	0.15	737.87	0.00	0.82
12.00	1099.99	0.19	737.91	0.01	1.98
12.10	1099.99	0.23	737.95	0.01	3.68
	1099.99				
12.20		0.27	737.98	0.03	7.61
12.30	1099.99	0.33	738.05	0.04	14.51
12.40	1099.99	0.37	738.09	0.05	21.57
12.50	1097.20	0.41	738.13	0.06	27.96
12.60	1066.54	0.43	738.15	0.07	33.98
12.70	1058.57	0.46	738.17	0.08	38.86
12.80	1058.57	0.47	738.19	0.08	42.56
12.90	1058.57	0.49	738.21	0.09	46.15
13.00	1058.57	0.50	738.22	0.09	49.72
13.10	1058.57	0.52	738.24	0.10	53.68
13.20	1058.57	0.53	738.25	0.10	57.55
13.30	1051.01	0.55	738.27	0.11	61.25
13.40	1058.57	0.56	738.28	0.11	64.36
13.50	1058.57	0.58	738.29	0.11	67.42
13.60	1038.67	0.59	738.31	0.12	70.66
13.70	1081.50	0.60	738.32	0.11	74.31
13.80	1095.57	0.61	738.33	0.12	77.76
13.90	1099.99	0.62	738.34	0.12	81.05
14.00	1099.99	0.63	738.35	0.12	84.33
14.10	1099.99	0.64	738.36	0.12	87.10
14.20	1099.99	0.65	738.37	0.13	89.97
14.30	1099.99	0.66	738.38	0.13	93.41
14.40	1099.99	0.67	738.39	0.13	96.59
14.50	1099.99	0.68	738.40	0.13	99.83
14.60	1099.99	0.69	738.41	0.14	102.80
14.70	1099.99	0.70	738.42	0.14	105.78
14.80	1099.99	0.71	738.43	0.14	109.06
14.90	1094.25	0.72	738.44	0.14	112.41
15.00	1057.35	0.73	738.44	0.15	115.70
15.10	1040.12	0.74	738.45	0.16	119.23
15.20	1023.26	0.74	738.46		122.67
				0.16	
15.30	998.53	0.75	738.47	0.17	126.27
15.40	1012.11	0.76	738.48	0.17	129.89
15.50	1022.89	0.77	738.49	0.17	133.80
15.60	1017.15	0.78	738.50	0.17	137.93
15.70	1008.95	0.79	738.51	0.18	141.83
15.80	1003.48	0.80	738.52	0.18	146.10
15.90	999.11	0.81	738.53	0.19	150.32
16.00	998.51	0.82	738.54	0.19	154.56
16.10	1017.15	0.83	738.55	0.19	158.78
16.20	1017.15	0.84	738.56	0.19	162.98
16.30	1017.15	0.85	738.57	0.19	167.22
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16.40	1017.15	0.86	738.58	0.20	171.50
16.50	1017.15	0.87	738.59	0.20	175.97
16.60	1017.15	0.88	738.60	0.20	180.41
16.70	1007.62	0.89	738.61	0.21	184.89
16.80	1004.18	0.83	738.55	0.23	189.40
16.90	1000.17	0.83	738.55	0.23	194.01
17.00	999.16	0.85	738.56	0.24	198.64
17.10	993.30	0.86	738.58	0.24	203.36
17.20	991.63	0.87	738.59	0.24	208.13
17.30	989.12	0.88	738.60	0.24	212.71
17.40	985.35	0.90	738.61	0.25	217.69
17.50	984.61	0.91	738.63	0.25	222.58
17.60	979.08	0.92	738.64	0.25	227.22
17.70	978.24	0.93	738.65	0.25	232.02
17.80	975.73	0.94	738.66	0.26	236.65
17.90	975.73	0.95	738.67	0.26	240.94
18.00	975.73	0.97	738.68	0.26	245.49
18.10	975.73	0.98	738.69	0.26	249.93
18.20	975.73	0.99	738.70	0.26	254.11
18.30	975.73	1.00	738.71	0.27	258.46
18.40	975.73	1.01	738.72	0.27	262.62
18.50	975.73	1.02	738.72	0.27	266.89
18.60	975.73	1.03	738.74	0.27	270.86
18.70	975.73	1.03	738.75	0.27	274.90
18.80	975.73	1.04	738.76	0.27	278.96
18.90	975.73	1.05	738.77	0.28	282.72
19.00	975.73	1.06	738.78	0.28	286.51
19.10	975.73	1.07	738.79	0.28	290.40
19.20	975.73	1.08	738.80	0.28	294.24
19.30	975.73	1.09	738.80	0.28	297.53
19.40	975.73	1.09	738.81	0.28	300.95
19.50	975.73	1.10	738.82	0.28	305.04
19.60	975.73	1.11	738.83	0.28	308.73
19.70	975.73	1.12	738.84	0.29	312.34
19.80	975.73	1.13	738.84	0.29	315.82
19.90	975.73	1.13	738.85	0.29	319.16
20.00	969.26	1.14	738.86	0.29	322.47
20.10	880.56	1.15	738.87	0.32	325.78
20.20	875.73	1.15	738.87	0.33	328.89
20.30	877.02	1.16	738.88	0.33	331.91
20.40	917.15	1.17	738.89	0.31	334.96
20.50	917.15	1.17	738.89	0.31	337.66
20.60	917.15	1.18	738.90	0.31	340.57
20.70	932.71	1.19			
		1.19	738.90	0.31	343.42
20.80	946.44		738.91	0.31	346.07
20.90	946.44	1.20	738.92	0.31	348.65
21.00	950.41	1.20	738.92	0.31	351.08
21.10	975.73	1.21	738.93	0.30	353.46
21.20	975.73	1.21	738.93	0.30	355.87
21.30	975.73	1.22	738.94	0.30	358.19
21.40	975.73	1.22	738.94	0.30	360.50
21.50	975.73	1.23	738.95	0.30	362.76
21.60	975.73	1.23	738.95	0.30	364.97
21.70	975.73	1.24	738.96	0.30	367.11
21.80	975.73	1.24	738.96	0.30	369.23
21.90	975.73	1.25	738.97	0.31	371.23
22.00	975.73	1.25	738.97	0.31	373.17
22.10	975.73	1.26	738.97	0.31	375.11
22.20	975.73	1.26	738.98	0.31	376.91
				5.5.7.7	

22.30	975.73	1.26	738.98	0.31	378.78
22.40	975.73	1.27	738.99	0.31	380.57
22.50	975.73	1.27	738.99	0.31	382.25
22.60	975.73	1.28	738.99	0.31	383.76
22.70	975.73	1.28	739.00	0.31	385.42
22.80	975.73	1.28	739.00	0.31	387.10
22.90	975.73	1.29	739.00	0.31	388.74
23.00	975.73 975.73	1.29	739.01	0.31	390.41
23.10		1.29	739.01	0.31	391.97
23.20	975.73	1.30 1.30	739.01 739.02	0.31	393.49
23.30	975.73			0.31	394.88
23.40	975.73	1.30	739.02	0.31	396.31
23.50	975.73	1.31	739.02	0.31	397.71
23.60	975.73	1.31	739.03	0.31	399.07
23.70	975.73	1.31	739.03	0.31	400.31
23.80	975.73	1.31	739.03	0.31	401.48
23.90	975.73	1.32	739.03	0.31	402.74
24.00	975.73	1.32	739.04	0.31	403.96
24.10	964.08	1.32	739.04	0.32	405.02
24.20	917.15	1.32	739.04	0.33	405.98
24.30	917.15	1.33	739.04	0.33	406.91
24.40	917.15	1.33	739.05	0.34	407.75
24.50	917.15	1.33	739.05	0.34	408.59
24.60	917.15	1.33	739.05	0.34	409.44
24.70	917.15	1.33	739.05	0.34	410.21
24.80	917.15	1.33	739.05	0.34	410.95
24.90	879.33	1.34	739.05	0.35	411.65
25.00	875.73	1.34	739.05	0.35	412.30
25.10	875.73	1.34	739.06	0.35	412.93
25.20	875.73	1.34	739.06	0.35	413.57
25.30	875.73	1.34	739.06	0.35	414.18
25.40	875.73	1.34	739.06	0.35	414.74
25.50	875.73	1.34	739.06	0.35	415.28
25.60	875.73	1.34	739.06	0.35	415.77
25.70	875.73	1.35	739.06	0.35	416.23
25.80	875.73	1.35	739.06	0.35	416.65
25.90	875.73	1.35	739.07	0.35	417.05
26.00	875.73	1.35	739.07	0.35	417.40
26.10	875.73	1.35	739.07	0.35	417.73
26.20	875.73	1.35	739.07	0.35	418.04
26.30	875.73	1.35	739.07	0.35	418.34
26.40	875.73	1.35	739.07	0.35	418.62
26.50	875.73	1.35	739.07	0.35	418.86
26.60	875.73	1.35	739.07	0.35	419.07
26.70	875.73	1.35	739.07	0.35	419.27
26.80	869.04	1.35	739.07	0.36	419.44
26.90	846.44	1.35	739.07	0.37	419.63
27.00	846.44	1.35	739.07	0.37	419.79
27.10	846.44	1.35	739.07	0.37	419.85
27.20	838.48	1.35	739.07	0.37	419.90
27.30	817.15	1.35	739.07	0.38	419.93
27.40	817.15	1.35	739.07	0.38	419.95
27.50	817.15	1.35	739.07	0.38	419.95
27.60	817.15	1.35	739.07	0.38	419.93
27.70	817.15	1.35	739.07	0.38	419.89
27.80	817.15	1.35	739.07	0.38	419.83
27.90	817.15	1.35	739.07	0.38	419.76
28.00	817.15	1.35	739.07	0.38	419.67
28.10	817.15	1.35	739.07	0.38	419.56

28.20	817.15	1.35	739.07	0.38	419.45
28.30	817.15	1.35	739.07	0.38	419.31
28.40	817.15	1.35	739.07	0.38	419.17
28.50	811.68	1.35	739.07	0.38	419.01
28.60	806.53	1.35	739.07	0.38	418.85
28.70	805.76	1.35	739.07	0.38	418.68
28.80	804.92	1.35	739.07	0.39	418.49
28.90	803.48	1.35	739.07	0.39	418.30
29.00	802.35	1.35	739.07	0.39	418.10
29.10	801.21	1.35	739.07	0.39	417.90
29.20	784.61	1.35	739.07	0.40	417.70
29.30	778.85	1.35	739.07	0.40	417.49
29.40	774.20	1.35	739.07	0.40	417.27
29.50	769.31	1.35	739.07	0.40	417.05
29.60	766.06	1.35	739.06	0.40	416.84
29.70	764.43	1.35	739.06	0.41	416.62
29.80	763.78	1.35	739.06	0.41	416.40
29.90	761.83	1.34	739.06	0.41	416.27
30.00	760.53	1.34	739.06	0.41	416.19
30.10	703.25	1.34	739.06	0.44	415.99
30.20	700.65	1.34	739.06	0.44	415.76
30.30	700.00	1.34	739.06	0.44	415.53
30.40	700.00	1.34	739.06	0.44	415.29
30.50	700.00	1.34	739.06	0.44	415.08
30.60	700.00	1.34	739.06	0.44	414.98
30.70	700.00	1.34	739.06	0.44	414.86
30.80	700.00	1.34	739.06	0.44	414.68
30.90	700.00	1.34	739.06	0.44	414.49
31.00	700.00	1.34	739.06	0.44	414.29
31.10	700.00	1.34	739.06	0.44	414.10
31.20	700.00	1.34	739.06	0.44	413.92
31.30	700.00	1.34	739.06	0.44	413.75
31.40	700.00	1.34	739.06	0.44	413.61
31.50	694.73	1.34	739.06	0.45	413.53
31.60	670.71	1.34	739.06	0.46	413.46
31.70	670.71	1.34	739.05	0.46	413.39
31.80	670.71	1.34	739.05	0.46	413.31
31.90	670.71	1.34	739.05	0.46	413.23
32.00	670.71	1.34	739.05	0.46	413.17
32.10	670.71	1.34	739.05	0.46	413.15
32.20	670.71	1.34	739.05	0.46	413.15
32.30	670.71	1.34	739.05	0.46	413.16
32.40	670.71	1.33	739.05	0.46	413.18
32.50	670.71	1.33	739.05	0.46	413.20
32.60	670.71	1.33	739.05	0.46	413.22
32.70	670.71	1.33	739.05	0.46	413.26
32.80	670.71	1.33	739.05	0.46	413.31
32.90	670.71	1.33	739.05	0.46	413.34
33.00	670.71	1.33	739.05	0.46	413.40
33.10	670.71	1.33	739.05	0.46	413.50
33.20	670.71	1.33	739.05	0.46	413.60
33.30	670.71	1.33	739.05	0.46	413.70
33.40	670.71	1.33	739.05	0.46	413.83
33.50	670.71	1.33	739.05	0.46	413.99
33.60	670.71	1.33	739.05	0.46	414.16
33.70	670.71	1.33	739.05	0.46	414.35
33.80	670.71	1.34	739.05	0.46	414.56
33.90	670.71	1.34	739.05	0.46	414.79
34.00	670.71	1.34	739.05	0.46	415.06

34.10	670.71	1.34	739.05	0.46	415.32
34.20	670.71	1.34	739.05	0.46	415.60
34.30	670.71	1.34	739.05	0.46	415.90
34.40	670.71	1.34	739.06	0.46	416.20
34.50	670.71	1.34	739.06	0.46	416.51
34.60	670.71	1.34	739.06	0.46	416.81
34.70	670.71	1.34	739.06	0.46	417.14
34.80	670.71	1.34	739.06	0.46	417.51
34.90		1.34		0.47	417.88
35.00	670.71 670.71	1.34	739.06 739.06	0.47 0.47	417.88
35.10	670.71	1.34	739.06	0.47	418.65
35.20	670.71	1.34	739.06	0.47	419.03
35.30	670.71	1.34	739.06	0.47	419.44
35.40	670.71	1.34	739.06	0.47	419.87
35.50	670.71	1.34	739.06	0.47	420.30
35.60	670.71	1.34	739.06	0.47	420.74
35.70	670.71	1.34	739.06	0.47	421.19
35.80	670.71	1.35	739.06	0.47	421.64
35.90	670.71	1.35	739.06	0.47	422.09
36.00	670.71	1.35	739.07	0.47	422.54
36.10	670.71	1.35	739.07	0.47	423.03
36.20	670.71	1.35	739.07	0.47	423.51
36.30	670.71	1.35	739.07	0.47	424.00
36.40	670.71	1.35	739.07	0.47	424.48
36.50	670.71	1.35	739.07	0.47	424.95
36.60	670.71	1.35	739.07	0.47	425.43
36.70	670.71	1.35	739.07	0.47	425.92
36.80	670.71	1.35	739.07	0.47	426.40
36.90	670.71	1.36	739.07	0.47	426.89
37.00	670.71	1.36	739.07	0.47	427.38
37.10	670.71	1.36	739.08	0.47	427.85
37.20	670.71	1.36	739.08	0.47	428.31
37.30	670.71	1.36	739.08	0.47	428.78
37.40	670.71	1.36	739.08	0.47	429.25
37.50	670.71	1.36	739.08	0.47	429.71
37.60	670.71	1.36	739.08	0.47	430.16
37.70	670.71	1.36	739.08	0.47	430.62
37.80	670.71	1.36	739.08	0.47	431.06
37.90	670.71	1.36	739.08	0.47	431.51
38.00	670.71	1.37	739.08	0.47	431.95
38.10	670.71	1.37	739.08	0.47	432.39
38.20	670.71	1.37	739.09	0.47	432.81
38.30	670.71	1.37	739.09	0.47	433.24
38.40	670.71	1.37	739.09	0.47	433.62
38.50	670.71	1.37	739.09	0.47	434.02
38.60	670.71	1.37	739.09	0.47	434.43
38.70	670.71	1.37	739.09	0.47	434.83
38.80	670.71	1.37	739.09	0.47	435.10
38.90	670.71	1.37	739.09	0.47	435.54
39.00	670.71	1.37	739.09	0.47	435.94
39.10	670.71	1.37	739.09	0.47	436.32
39.20	670.71	1.37	739.09	0.47	436.70
39.30	670.71	1.38	739.09	0.47	437.06
39.40	670.71	1.38	739.09	0.47	437.41
39.50	670.71	1.38	739.10	0.47	437.75
39.60	670.71	1.38	739.10	0.47	438.06
39.70	670.71	1.38	739.10	0.47	438.28
39.80	670.71	1.38	739.10	0.47	438.61
39.90	670.71	1.38	739.10	0.47	438.92
39.30	0/0./1	1.30	733.10	0.4/	430.32

40.00	670.71	1.38	739.10	0.47	439.20
40.10	670.71	1.38	739.10	0.47	439.47
40.20	670.71	1.38	739.10	0.47	439.71
40.30	670.71	1.38	739.10	0.47	439.95
40.40	670.71	1.38	739.10	0.47	440.18
40.50	670.71	1.38	739.10	0.47	440.37
40.60	670.71	1.38	739.10	0.47	440.57
40.70	670.71	1.38	739.10	0.47	440.76
40.70	670.71	1.38	739.10	0.47	440.70
40.80	670.71	1.38	739.10	0.48	441.13
41.00	670.71	1.39	739.10	0.48	441.13
	670.71		739.10		441.45
41.10		1.39		0.48	
41.20	670.71	1.39	739.10	0.48	441.60
41.30	670.71	1.39	739.10	0.48	441.74
41.40	670.71	1.39	739.10	0.48	441.87
41.50	670.71	1.39	739.10	0.48	441.99
41.60	670.71	1.39	739.11	0.48	442.09
41.70	670.71	1.39	739.11	0.48	442.17
41.80	670.71	1.39	739.11	0.48	442.27
41.90	670.71	1.39	739.11	0.48	442.34
42.00	670.71	1.39	739.11	0.48	442.40
42.10	670.71	1.39	739.11	0.48	442.44
42.20	670.71	1.39	739.11	0.48	442.47
42.30	670.71	1.39	739.11	0.48	442.50
42.40	670.71	1.39	739.11	0.48	442.51
42.50	670.71	1.39	739.11	0.48	442.51
42.60	670.71	1.39	739.11	0.48	442.50
42.70	670.71	1.39	739.11	0.48	442.47
42.80	670.71	1.39	739.11	0.48	442.44
42.90	670.71	1.39	739.11	0.48	442.39
43.00	670.71	1.39	739.11	0.48	442.33
43.10	670.71	1.39	739.11	0.48	442.25
43.20	670.71	1.39	739.11	0.47	442.17
43.30	670.71	1.39	739.11	0.47	442.07
43.40	670.71	1.39	739.11	0.47	441.97
43.50	670.71	1.39	739.11	0.47	441.85
43.60	670.71	1.39	739.11	0.47	441.73
43.70	670.71	1.39	739.11	0.47	441.59
43.80	670.71	1.39	739.11	0.47	441.44
43.90	670.71	1.39	739.10	0.47	441.27
44.00	670.71	1.39	739.10	0.47	441.11
44.10	670.71	1.39	739.10	0.47	440.93
44.20	670.71	1.39	739.10	0.47	440.73
44.30	670.71	1.39	739.10	0.47	440.54
44.40	670.71	1.38	739.10	0.47	440.32
44.50	670.71	1.38	739.10	0.47	440.10
44.60	670.71	1.38	739.10	0.47	439.87
44.70	670.71	1.38	739.10	0.47	439.63
44.80	670.71	1.38	739.10	0.47	439.39
44.90	670.71	1.38	739.10	0.47	439.14
45.00	670.71	1.38	739.10	0.47	438.90
45.10	670.71	1.38	739.10	0.47	438.63
45.20	670.71	1.38	739.10	0.47	438.35
45.30	670.71	1.38	739.10	0.47	438.07
45.40	670.71	1.38	739.10	0.47	437.78
45.50	670.71	1.38	739.10	0.47	437.78
45.60	670.71	1.38	739.10	0.47	437.48
45.70	670.71	1.38	739.10	0.47	436.84
45.80	670.71	1.38	739.10	0.47	436.51
43.00	0/0./1	1.50	733.10	0.47	430.31

45.90	670.71	1.38	739.10	0.47	436.18
46.00	670.71	1.38	739.09	0.47	435.83
46.10	670.71	1.38	739.09	0.47	435.47
46.20	670.71	1.38	739.09	0.47	435.11
46.30	670.71	1.37	739.09	0.47	434.75
46.40	670.71	1.37	739.09	0.47	434.38
46.50	670.71	1.37	739.09	0.47	434.00
46.60	670.71	1.37	739.09	0.47	433.62
46.70	670.71	1.37	739.09	0.47	433.24
46.80	670.71	1.37	739.09	0.47	432.85
46.90	670.71	1.37	739.09	0.47	432.53
47.00	670.71	1.37	739.09	0.47	432.19
47.10	670.71	1.37	739.09	0.47	431.76
47.10	670.71	1.37	739.09	0.47	431.26
47.30	670.71	1.37	739.08	0.47	430.78
47.40	670.71	1.37	739.08	0.47	430.32
47.50	670.71	1.36	739.08	0.47	429.84
47.60	670.71	1.36	739.08	0.47	429.40
47.70	670.71	1.36	739.08	0.47	428.90
47.80	670.71	1.36	739.08	0.47	428.39
47.90	670.71	1.36	739.08	0.47	427.88
48.00	670.71	1.36	739.08	0.47	427.38
48.10	670.71	1.36	739.08	0.47	426.89
48.20	670.71	1.36	739.08	0.47	426.37
48.30	670.71	1.36	739.07	0.47	425.85
48.40	670.71	1.36	739.07	0.47	425.31
48.50	670.71	1.35	739.07	0.47	424.77
48.60	670.71	1.35	739.07	0.47	424.23
48.70	670.71	1.35	739.07	0.47	423.67
48.80	670.71	1.35	739.07	0.47	423.11
48.90	670.71	1.35	739.07	0.47	422.55
49.00	670.71	1.35	739.07	0.47	421.99
49.10	670.71	1.35	739.07	0.47	421.42
49.20	670.71	1.35	739.06	0.47	420.85
49.30	670.71	1.35	739.06	0.47	420.26
49.40	670.71	1.34	739.06	0.47	419.67
49.50	670.71	1.34	739.06	0.47	419.09
49.60	670.71	1.34	739.06	0.46	418.50
49.70	670.71	1.34	739.06	0.46	417.87
49.80	670.71	1.34	739.06	0.46	417.26
49.90	670.71	1.34	739.06	0.46	416.66
50.00	670.71	1.34	739.06	0.46	416.08
50.10	670.71	1.34	739.05	0.46	415.48
50.20	670.71	1.33	739.05	0.46	414.87
50.30	670.71	1.33	739.05	0.46	414.23
50.40	670.71	1.33	739.05	0.46	413.57
50.50			739.05		
	670.71	1.33		0.46	412.91
50.60	670.71	1.33	739.05	0.46	412.24
50.70	670.71	1.33	739.05	0.46	411.61
50.80	670.71	1.33	739.05	0.46	410.96
50.90	670.71	1.33	739.04	0.46	410.28
51.00	670.71	1.32	739.04	0.46	409.58
51.10	670.71	1.32	739.04	0.46	408.94
51.20	670.71	1.32	739.04	0.46	408.26
51.30	670.71	1.32	739.04	0.46	407.54
51.40	670.71	1.32	739.04	0.46	406.82
51.50	670.71	1.32	739.04	0.46	406.10
51.60	670.71	1.32	739.03	0.46	405.39
51.70	670.71	1.31	739.03	0.46	404.66

51.80	670.71	1.31	739.03	0.46	403.92
51.90	670.71	1.31	739.03	0.46	403.19
52.00	670.71	1.31	739.03	0.46	402.45
52.10	670.71	1.31	739.03	0.46	401.71
52.20	670.71	1.31	739.02	0.46	400.97
52.30	670.71	1.31	739.02	0.46	400.21
52.40	670.71	1.30	739.02	0.46	399.45
52.50	670.71	1.30	739.02	0.46	398.69
52.60	670.71	1.30	739.02	0.46	397.86
52.70	670.71	1.30	739.02	0.46	397.12
52.80	670.71	1.30	739.02	0.46	396.32
52.90	670.71	1.30	739.01	0.46	395.55
53.00	670.71	1.29	739.01	0.45	394.76
53.10	670.71	1.29	739.01	0.45	393.94
53.20	670.71	1.29	739.01	0.45	393.94
53.30					
	670.71	1.29	739.01	0.45	392.34
53.40	670.71	1.29	739.01	0.45	391.62
53.50	670.71	1.29	739.00	0.45	390.85
53.60	670.71	1.28	739.00	0.45	390.05
53.70	670.71	1.28	739.00	0.45	389.34
53.80	670.71	1.28	739.00	0.45	388.66
53.90	670.71	1.28	739.00	0.45	387.84
54.00	670.71	1.28	739.00	0.45	387.00
54.10	670.71	1.28	738.99	0.45	386.17
54.20	670.71	1.27	738.99	0.45	385.30
54.30	670.71	1.27	738.99	0.45	384.44
54.40	670.71	1.27	738.99	0.45	383.56
54.50	670.71	1.27	738.99	0.45	382.64
54.60	670.71	1.27	738.99	0.45	381.72
54.70	670.71	1.27	738.98	0.45	380.87
54.80	670.71	1.26	738.98	0.45	379.97
54.90	670.71	1.26	738.98	0.45	379.08
55.00	670.71	1.26	738.98	0.45	378.21
55.10	670.71	1.26	738.98	0.45	377.26
55.20	670.71	1.26	738.97	0.45	376.32
55.30	670.71	1.25	738.97	0.45	375.45
55.40	670.71	1.25	738.97	0.45	374.50
55.50	670.71	1.25	738.97	0.45	373.59
55.60	670.71	1.25	738.97	0.44	372.72
55.70	670.71	1.25	738.97	0.44	371.85
55.80	670.71	1.25	738.96	0.44	371.03
55.90	670.71	1.24	738.96	0.44	370.18
56.00	670.71	1.24	738.96	0.44	369.23
56.10	670.71	1.24	738.96	0.44	368.29
56.20	670.71	1.24	738.96	0.44	367.36
56.30	670.71	1.24	738.95	0.44	366.43
56.40	670.71	1.23	738.95	0.44	365.50
56.50	670.71	1.23	738.95	0.44	364.55
56.60	670.71	1.23	738.95	0.44	363.61
56.70	670.71	1.23	738.95	0.44	362.65
56.80	670.71	1.23	738.94	0.44	361.70
56.90	670.71	1.22	738.94	0.44	360.74
57.00	670.71	1.22	738.94	0.44	359.77
57.10	670.71	1.22	738.94	0.44	358.89
57.20	670.71	1.22	738.94	0.44	358.00
57.30	670.71	1.22	738.94	0.44	357.07
57.40	670.71	1.22	738.93	0.44	356.12
57.50	670.71	1.21	738.93	0.44	355.18
57.60	670.71	1.21	738.93	0.44	354.22
37.00	0/0./1	1.41	130.33	0.44	JJ4. ZZ

57.70	670.71	1.21	738.93	0.44	353.24
57.80	670.71	1.21	738.93	0.44	352.25
57.90	670.71	1.20	738.92	0.43	351.24
58.00	664.23	1.20	738.92	0.44	350.24
58.10	654.78	1.20	738.92	0.44	349.27
58.20	647.62	1.20	738.92	0.45	348.33
58.30	615.95	1.20	738.92	0.47	347.41
58.40	612.13	1.19	738.91	0.47	346.47
58.50	612.13	1.19	738.91	0.47	345.52
58.60	612.13	1.19	738.91	0.47	344.61
58.70	612.13	1.19	738.91	0.47	343.77
58.80	612.13	1.19	738.91	0.47	342.82
58.90	602.75	1.18	738.90	0.48	341.82
59.00	582.84	1.18	738.90	0.49	340.80
59.10	582.84	1.18	738.90	0.49	339.78
59.20	582.84	1.18	738.90	0.49	338.83
59.30	582.84	1.18	738.89	0.49	337.91
59.40	582.84	1.17	738.89	0.49	336.92
59.50	582.84	1.17	738.89	0.49	335.93
59.60	582.84	1.17	738.89	0.49	334.97
59.70	582.84	1.17		0.49	333.95
59.80			738.89		
	582.84	1.17	738.88	0.49	332.93
59.90	582.84	1.16	738.88	0.49	331.90
60.00	582.84	1.16	738.88	0.49	330.88
60.10	582.84	1.16	738.88	0.49	329.84
60.20	582.84	1.16	738.88	0.49	328.85
60.30	560.00	1.16	738.87	0.51	327.84
60.40	541.42	1.15	738.87	0.52	326.84
60.50	541.42	1.15	738.87	0.52	325.85
60.60	541.42	1.15	738.87	0.52	324.88
60.70	541.42	1.15	738.86	0.52	323.97
60.80	541.42	1.14	738.86	0.52	323.01
60.90	541.42	1.14	738.86	0.52	322.03
61.00	541.42	1.14	738.86	0.52	321.12
61.10	541.42	1.14	738.86	0.52	320.22
61.20	541.42	1.14	738.85	0.52	319.12
61.30	541.42	1.13	738.85	0.52	318.06
61.40	541.42	1.13	738.85	0.52	317.06
61.50	541.42	1.13	738.85	0.52	316.04
61.60	541.42	1.13	738.85	0.52	315.05
61.70	530.03	1.13	738.84	0.53	314.07
61.80	500.00	1.12	738.84	0.56	313.17
61.90	500.00	1.12	738.84	0.56	312.19
62.00	500.00	1.12	738.84	0.56	311.19
62.10	500.00	1.12	738.84	0.56	310.21
62.20	500.00	1.12	738.83	0.55	309.24
62.30	500.00	1.11	738.83	0.55	308.28
62.40	500.00	1.11	738.83	0.55	307.34
62.50	500.00	1.11	738.83	0.55	306.39
62.60	500.00	1.11	738.83	0.55	305.44
62.70	500.00	1.11	738.82	0.55	304.47
62.80	500.00	1.10	738.82	0.55	303.52
62.90	500.00	1.10	738.82	0.55	302.60
63.00	500.00	1.10	738.82	0.55	301.64
63.10	500.00	1.10	738.82	0.55	300.69
63.20	500.00	1.09	738.81	0.55	299.73
63.30	500.00	1.09	738.81	0.55	298.70
63.40	500.00	1.09	738.81	0.55	297.77
63.50	500.00	1.09	738.81	0.55	296.85

63.60	500.00	1.09	738.81	0.54	295.89
63.70	500.00	1.09	738.80	0.54	295.00
63.80	500.00	1.08	738.80	0.54	294.15
63.90	500.00	1.08	738.80	0.54	293.22
64.00	500.00	1.08	738.80	0.54	292.32
64.10	500.00	1.08	738.80	0.54	291.45
64.20	500.00	1.07	738.79	0.54	290.44
64.30	500.00	1.07	738.79	0.54	289.55
64.40	500.00	1.07	738.79	0.54	288.70
64.50	500.00	1.07	738.79	0.54	288.21
64.60	500.00	1.07	738.78	0.54	286.96
64.70	500.00	1.06	738.78	0.54	285.99
64.80	500.00	1.06	738.78	0.54	285.06
64.90	500.00	1.06	738.78	0.54	284.13
65.00	500.00	1.06	738.78	0.54	283.32
65.10	500.00	1.06	738.77	0.53	282.48
65.20	500.00	1.05	738.77	0.53	281.64
65.30	500.00	1.05	738.77	0.53	280.68
65.40	500.00	1.05	738.77	0.53	279.95
65.50	500.00	1.05	738.77	0.53	279.04
65.60	515.06	1.05	738.76	0.52	278.21
65.70	501.55	1.04	738.76	0.53	277.27
65.80	500.00	1.04	738.76	0.53	276.25
65.90	500.00	1.04	738.76	0.53	275.30
66.00	500.00	1.04	738.76	0.53	274.42
66.10	500.00	1.04	738.76	0.53	273.62
66.20	500.00	1.03	738.75	0.53	272.87
66.30	500.00	1.03	738.75	0.53	271.91
66.40	500.00	1.03	738.75	0.53	270.96
66.50	500.00	1.03	738.75	0.52	270.06
66.60	500.00	1.03	738.75	0.52	269.15
66.70	500.00	1.03	738.74	0.52	268.27
66.80	500.00	1.02	738.74	0.52	267.44
66.90	500.00	1.02	738.74	0.52	266.65
67.00	500.00	1.02	738.74	0.52	265.74
67.10	500.00	1.02	738.74	0.52	264.85
67.20	500.00	1.02	738.73	0.52	263.96
67.30	500.00	1.01	738.73	0.52	263.15
67.40	500.00	1.01	738.73	0.52	262.26
67.50	500.00	1.01	738.73	0.52	261.39
67.60	500.00	1.01	738.73	0.52	260.54
67.70	500.00	1.01	738.72	0.52	259.80
67.80	500.00	1.00	738.72	0.52	259.01
67.90	500.00	1.00	738.72	0.52	258.16
68.00	500.00	1.00	738.72	0.51	257.33
68.10	500.00	1.00	738.72	0.51	256.47
68.20	500.00	1.00	738.71	0.51	255.59
68.30	500.00	0.99	738.71	0.51	254.72
68.40	500.00	0.99	738.71	0.51	253.86
68.50	486.48	0.99	738.71	0.53	252.99
		0.99	738.71	0.54	252.14
68.60	470.71				251.29
68.70	470.71	0.99	738.71	0.54	
68.80	470.71	0.98	738.70	0.54	250.46
68.90	470.71	0.98	738.70	0.54	249.64
69.00	470.71	0.98	738.70	0.54	248.81
69.10	470.71	0.98	738.70	0.54	248.06
69.20	470.71	0.98	738.70	0.54	247.29
69.30	470.71	0.98	738.69	0.54	246.45
69.40	470.71	0.97	738.69	0.54	245.62

69.50	470.71	0.97	738.69	0.54	244.82
69.60	470.71	0.97	738.69	0.53	244.00
69.70	470.71	0.97	738.69	0.53	243.21
69.80	470.71	0.97	738.68	0.53	242.50
69.90	470.71	0.96	738.68	0.53	241.92
70.00	470.71	0.96	738.68	0.53	241.05
70.10	470.71	0.96	738.68	0.53	240.24
70.20	470.71	0.96	738.68	0.53	239.50
70.30	470.71	0.96	738.67	0.53	238.66
70.40	470.71	0.95	738.67	0.53	237.82
70.50	470.71	0.95	738.67	0.53	236.99
70.60	470.71	0.95	738.67	0.53	236.22
70.70	470.71	0.95	738.67	0.53	235.45
70.80	470.71	0.95	738.66	0.53	234.67
70.90	470.71	0.94	738.66	0.53	233.93
71.00	470.71	0.94	738.66	0.53	233.19
71.10	470.71	0.94	738.66	0.52	232.45
71.20	470.71	0.94	738.66	0.52	231.98
71.30	470.71	0.94	738.65	0.52	231.14
71.40	470.71	0.93	738.65	0.52	230.29
71.50	470.71	0.93	738.65	0.52	229.45
71.60	470.71	0.93	738.65	0.52	228.63
71.70	470.71	0.93	738.65	0.52	227.87
71.80	470.71	0.93	738.65	0.52	227.08
71.90	470.71	0.93	738.64	0.52	226.30
72.00	470.71	0.92	738.64	0.52	225.51
72.10	470.71	0.92	738.64	0.52	224.76
72.20	470.71	0.92	738.64	0.52	224.04
72.30	470.71	0.92	738.64	0.52	223.30
72.40	470.71	0.92	738.63	0.52	222.59
72.50	470.71	0.91	738.63	0.52	221.87
72.60	470.71	0.91	738.63	0.52	221.12
72.70	470.71	0.91	738.63	0.51	220.40
72.80	470.71	0.91	738.63	0.51	219.67
72.90	470.71	0.91	738.62	0.51	218.94
73.00	470.71	0.90	738.62	0.51	218.22
73.10	470.71	0.90	738.62	0.51	217.51
73.20	470.71	0.90	738.62	0.51	216.82
73.30	470.71	0.90	738.62	0.51	216.12
73.40	470.71	0.90	738.62	0.51	215.45
73.50	470.71	0.90	738.61	0.51	214.87
73.60	470.71	0.89	738.61	0.51	214.26
73.70	470.71	0.89	738.61	0.51	213.54
73.80	470.71	0.89	738.61	0.51	212.81
73.90	470.71	0.89	738.61	0.51	212.11
74.00	470.71	0.89	738.61	0.51	211.42
74.10	470.71	0.89	738.60	0.51	210.76
74.20	470.71	0.88	738.60	0.51	210.12
74.30	470.71	0.88	738.60	0.50	209.48
74.40	470.71	0.88	738.60	0.50	208.85
74.50	470.71	0.88	738.60	0.50	208.21
74.60	470.71	0.88	738.59	0.50	207.54
74.70	470.71	0.87	738.59	0.50	206.92
74.80	470.71	0.87	738.59	0.50	206.36
74.90	470.71	0.87	738.59	0.50	205.62
75.00	470.71	0.87	738.59	0.50	204.91
75.10	470.71	0.87	738.59	0.50	204.31
75.20	470.71	0.87	738.58	0.50	203.62
75.30	470.71	0.86	738.58	0.50	202.93
	17.12000 (\$\$\overline{\sigma} 1.50.3\overline{\sigma}\$)			(E. S. E. S.)	

75.40	470.71	0.86	738.58	0.50	202.27
75.50	470.71	0.86	738.58	0.50	201.62
75.60	470.71	0.86	738.58	0.50	200.98
75.70	470.71	0.86	738.58	0.50	200.34
75.80	470.71	0.86	738.57	0.50	199.69
75.90	470.71	0.85	738.57	0.50	199.06
76.00	470.71	0.85	738.57	0.49	198.43
76.10	470.71	0.85	738.57	0.49	197.80
76.20	470.71	0.85	738.57	0.49	197.17
76.30	470.71	0.85	738.57	0.49	196.55
76.40	470.71	0.85	738.56	0.49	195.93
76.50	470.71	0.84	738.56	0.49	195.32
76.60	470.71	0.84	738.56	0.49	194.72
76.70	470.71	0.84	738.56	0.49	194.13
76.80	470.71	0.84	738.56	0.49	193.53
76.90	470.71	0.84	738.56	0.49	192.91
77.00	470.71	0.84	738.55	0.49	192.33
77.10	470.71	0.83	738.55	0.49	191.73
77.10	470.71	0.83	738.55	0.49	191.12
77.30	470.71	0.83	738.55	0.49	190.52
77.40	470.71	0.83	738.55	0.49	189.92
77.50	470.71	0.83	738.55	0.49	189.32
77.60	470.71	0.83	738.54	0.49	188.72
77.70	470.71	0.82	738.54	0.49	188.11
77.70	470.71	0.82	738.54	0.48	187.51
77.80	470.71				186.92
		0.82	738.54	0.48	
78.00	470.71	0.82	738.54	0.48	186.33
78.10	470.71	0.82	738.54	0.48	185.74
78.20	470.71	0.82	738.53	0.48	185.16
78.30	470.71	0.81	738.53	0.48	184.56
78.40	470.71	0.81	738.53	0.48	183.99
78.50	470.71	0.81	738.53	0.48	183.41
78.60	470.71	0.81	738.53	0.48	182.84
78.70	470.71	0.81	738.53	0.48	182.26
78.80	470.71	0.81	738.52	0.48	181.68
78.90	470.71	0.80	738.52	0.48	181.10
79.00	470.71	0.80	738.52	0.48	180.52
79.10	470.71	0.80	738.52	0.48	179.95
79.20	470.71	0.80	738.52	0.48	179.39
79.30	470.71	0.80	738.52	0.48	178.82
79.40	470.71	0.80	738.51	0.48	178.26
79.50	470.71	0.79	738.51	0.48	177.68
79.60	470.71	0.79	738.51	0.48	177.12
79.70	470.71	0.79	738.51	0.47	176.56
79.80	470.71	0.79	738.51	0.47	176.01
79.90	470.71	0.79	738.51	0.47	175.46
80.00	470.71	0.79	738.50	0.47	174.92
80.10	470.71	0.78	738.50	0.47	174.38
80.20	470.71	0.78	738.50	0.47	173.84
80.30	470.71	0.78	738.50	0.47	173.30
80.40	470.71	0.78	738.50	0.47	172.77
80.50	470.71	0.78	738.50	0.47	172.30
80.60	470.71	0.78	738.49	0.47	171.74
80.70	470.71	0.77	738.49	0.47	171.22
80.80	470.71	0.77	738.49	0.47	170.69
80.90	470.71	0.77	738.49	0.47	170.17
81.00	470.71	0.77	738.49	0.47	169.64
81.10	470.71	0.77	738.49	0.47	169.12
81.20	470.71	0.77	738.48	0.47	168.60

81.30	470.71	0.77	738.48	0.47	168.08
81.40	470.71	0.76	738.48	0.47	167.52
81.50	470.71	0.76	738.48	0.47	167.05
81.60	470.71	0.76	738.48	0.47	166.54
81.70	470.71	0.76	738.48	0.46	166.03
81.80	470.71	0.76	738.48	0.46	165.53
81.90	470.71	0.76	738.47	0.46	165.02
82.00	470.71	0.75	738.47	0.46	164.52
82.10	470.71	0.75	738.47	0.46	164.03
82.20	470.71	0.75	738.47	0.46	163.53
82.30	470.71	0.75	738.47	0.46	163.04
82.40	470.71	0.75	738.47	0.46	162.58
82.50	470.71	0.75	738.47	0.46	162.10
82.60	470.71	0.75	738.46	0.46	161.62
82.70	470.71	0.74	738.46	0.46	161.15
82.80	470.71	0.74	738.46	0.46	160.67
82.90	470.71	0.74	738.46	0.46	160.20
83.00	470.71	0.74	738.46	0.46	159.73
83.10	470.71	0.74	738.46	0.46	159.26
83.20	470.71	0.74	738.46	0.46	158.79
83.30	470.71	0.74	738.45	0.46	158.32
83.40	470.71	0.73	738.45	0.46	157.86
83.50	470.71	0.73	738.45	0.46	157.41
83.60	470.71	0.73	738.45	0.46	157.01
83.70	470.71	0.73	738.45	0.46	156.57
83.80	470.71	0.73	738.45	0.45	156.11
83.90	470.71	0.73	738.45	0.45	155.64
84.00	470.71	0.73	738.44	0.45	155.18
84.10	470.71	0.73	738.44	0.45	154.72
84.20	470.71	0.72	738.44	0.45	154.26
84.30	470.71	0.72	738.44	0.45	153.81
84.40	470.71	0.72	738.44	0.45	153.37
84.50	470.71	0.72	738.44	0.45	152.92
84.60	470.71	0.72	738.44	0.45	152.48
84.70	470.71	0.72	738.44	0.45	152.04
84.80	470.71	0.72	738.43	0.45	151.61
84.90	470.71	0.72			
			738.43	0.45	151.18
85.00	470.71	0.71	738.43	0.45	150.76
85.10	470.71	0.71	738.43	0.45	150.33
85.20	470.71	0.71	738.43	0.45	149.89
85.30	470.71	0.71	738.43	0.45	149.46
85.40	470.71	0.71	738.43	0.45	149.03
85.50	470.71	0.71	738.43	0.45	148.58
85.60	470.71	0.71	738.43	0.44	148.14
85.70	470.71	0.71	738.42	0.44	147.70
85.80	470.71	0.71	738.42	0.44	147.27
85.90	470.71	0.70	738.42	0.44	146.85
86.00	470.71	0.70	738.42	0.44	146.41
86.10	470.71	0.70	738.42	0.44	145.98
86.20	470.71	0.70	738.42	0.44	145.56
86.30	442.23	0.78	738.50	0.42	145.12
86.40	441.42	0.78	738.50	0.42	144.69
86.50	441.42	0.78	738.50	0.42	144.26
86.60	441.42	0.78	738.50	0.42	143.84
86.70	441.42	0.78	738.50	0.42	143.42
86.80	441.42	0.78	738.50	0.42	143.00
86.90	441.42	0.78	738.50	0.42	142.58
87.00	441.42	0.78	738.49	0.41	142.16
87.10	441.42	0.78	738.49	0.41	141.74

87.20	441.42	0.77	738.49	0.41	141.32
87.30	441.42	0.77	738.49	0.41	140.91
87.40	441.42	0.77	738.49	0.41	140.49
87.50	441.42	0.77	738.49	0.41	140.08
87.60	441.42	0.77	738.49	0.41	139.65
	441.42			0.41	139.31
87.70		0.77	738.49		
87.80	441.42	0.77	738.49	0.41	138.92
87.90	441.42	0.77	738.48	0.41	138.55
88.00	417.88	0.76	738.48	0.43	138.12
88.10	412.13	0.76	738.48	0.44	137.68
88.20	412.13	0.76	738.48	0.44	137.26
88.30	412.13	0.76	738.48	0.44	136.84
88.40	412.13	0.76	738.48	0.44	136.42
88.50	412.13	0.76	738.48	0.43	136.00
88.60	412.13	0.76	738.48	0.43	135.60
88.70	412.13	0.76	738.47	0.43	135.20
88.80	412.13	0.76	738.47	0.43	134.80
88.90	412.13	0.75	738.47	0.43	134.40
89.00	412.13	0.75	738.47	0.43	134.01
89.10	412.13	0.75	738.47	0.43	133.61
89.20	412.13	0.75	738.47	0.43	133.22
	412.13				
89.30		0.75	738.47	0.43	132.82
89.40	412.13	0.75	738.47	0.43	132.43
89.50	412.13	0.75	738.47	0.43	132.04
89.60	412.13	0.75	738.46	0.43	131.64
89.70	412.13	0.75	738.46	0.43	131.25
89.80	412.13	0.74	738.46	0.43	130.87
89.90	412.13	0.74	738.46	0.43	130.48
90.00	412.13	0.74	738.46	0.43	130.20
90.10	412.13	0.74	738.46	0.43	129.90
90.20	412.13	0.74	738.46	0.43	129.50
90.30	412.13	0.74	738.46	0.42	129.20
90.40	412.13	0.74	738.46	0.42	128.75
90.50	412.13	0.74	738.45	0.42	128.35
90.60	412.13	0.73	738.45	0.42	127.92
90.70	412.13	0.73	738.45	0.42	127.52
90.80	412.13	0.73	738.45	0.42	127.17
90.90	412.13	0.73	738.45	0.42	126.82
91.00	412.13	0.73	738.45	0.42	126.45
91.10	412.13	0.73	738.45	0.42	126.08
91.20	394.17	0.73	738.45	0.44	125.70
91.30	382.84	0.73	738.45	0.45	125.34
91.40	382.84	0.73	738.44	0.45	124.97
91.50	382.84	0.72	738.44	0.45	124.62
91.60	382.84	0.72	738.44	0.45	124.02
91.70	382.84	0.72	738.44	0.45	123.89
91.80	382.84	0.72	738.44	0.45	123.55
91.90	382.84	0.72	738.44	0.45	123.19
92.00	382.84	0.72	738.44	0.45	122.84
92.10	382.84	0.72	738.44	0.45	122.47
92.20	382.84	0.72	738.44	0.44	122.17
92.30	382.84	0.72	738.43	0.44	121.85
92.40	382.84	0.72	738.43	0.44	121.49
92.50	382.84	0.71	738.43	0.44	121.12
92.60	382.84	0.71	738.43	0.44	120.75
92.70	382.84	0.71	738.43	0.44	120.39
92.80	382.84	0.71	738.43	0.44	120.02
92.90	382.84	0.71	738.43	0.44	119.66
93.00	382.84	0.71	738.43	0.44	119.29

93.10	374.63	0.71	738.43	0.45	118.93
93.20	347.79	0.71	738.42	0.48	118.57
93.30	347.79	0.71	738.42	0.48	118.21
93.40	346.34	0.70	738.42	0.48	117.85
93.50	344.77	0.70	738.42	0.49	117.49
93.60	343.96	0.70	738.42	0.49	117.14
93.70	342.27	0.70	738.42	0.49	116.79
93.80	341.42	0.70	738.42	0.49	116.44
93.90	341.42	0.70	738.42	0.49	116.10
		0.70			
94.00	341.42		738.42	0.49	115.75
94.10	341.42	0.70	738.42	0.48	115.41
94.20	341.42	0.70	738.41	0.48	115.07
94.30	341.42	0.69	738.41	0.48	114.75
94.40	341.42	0.69	738.41	0.48	114.49
94.50	341.42	0.69	738.41	0.48	114.14
94.60	341.42	0.69	738.41	0.48	113.85
94.70	341.42	0.69	738.41	0.48	113.72
94.80	341.42	0.69	738.41	0.48	113.42
94.90	341.42	0.69	738.41	0.48	113.09
95.00	341.42	0.69	738.41	0.48	112.79
95.10	341.42	0.69	738.41	0.48	112.56
95.20	341.42	0.69	738.40	0.48	112.10
95.30	341.42	0.68	738.40	0.48	111.75
95.40	341.42	0.68	738.40	0.48	111.41
95.50	341.42	0.68	738.40	0.48	111.08
95.60	341.42	0.68	738.40	0.48	110.75
95.70	341.42	0.68	738.40	0.48	110.73
95.80	341.42	0.68	738.40	0.47	110.10
95.90	341.42	0.68	738.40	0.47	109.79
96.00	341.42	0.68	738.40	0.47	109.47
96.10	341.42	0.68	738.39	0.47	109.15
96.20	341.42	0.68	738.39	0.47	108.83
96.30	341.42	0.67	738.39	0.47	108.52
96.40	341.42	0.67	738.39	0.47	108.21
96.50	341.42	0.67	738.39	0.47	107.90
96.60	341.42	0.67	738.39	0.47	107.59
96.70	341.42	0.67	738.39	0.47	107.28
96.80	341.42	0.67	738.39	0.47	106.98
96.90	341.42	0.67	738.39	0.47	106.69
97.00	341.42	0.67	738.39	0.47	106.38
97.10	341.42	0.67	738.39	0.47	106.29
97.20	341.42	0.67	738.38	0.47	105.94
97.30	341.42	0.67	738.38	0.46	105.60
97.40	341.42	0.66	738.38	0.46	105.29
97.50	341.42	0.66	738.38	0.46	104.99
97.60	341.42	0.66	738.38	0.46	104.82
97.70	341.42	0.66	738.38	0.46	104.74
97.80	341.42	0.66	738.38	0.46	104.25
97.90	341.42	0.66	738.38	0.46	103.91
98.00					
	341.42	0.66	738.38	0.46	103.59
98.10	341.42	0.66	738.37	0.46	103.45
98.20	341.42	0.66	738.37	0.46	103.15
98.30	341.42	0.65	738.37	0.46	102.81
98.40	341.42	0.65	738.37	0.46	102.48
98.50	341.42	0.65	738.37	0.46	102.22
98.60	341.42	0.65	738.37	0.46	102.05
98.70	341.42	0.65	738.37	0.46	101.85
98.80	341.42	0.65	738.37	0.46	101.58
98.90	341.42	0.65	738.37	0.46	101.35
	- 121 /2	3.05	. 55.57		202.00

99.00	341.42	0.65	738.37	0.46	101.07
99.10	341.42	0.65	738.37	0.46	100.79
99.20	341.42	0.65	738.37	0.46	100.64
99.30	341.42	0.65	738.36	0.45	100.36
99.40	341.42	0.65	738.36	0.45	100.02
99.50	341.42	0.64	738.36	0.45	99.70
99.60	341.42	0.64	738.36	0.45	99.38
99.70	341.42	0.64	738.36	0.45	99.08
99.80	341.42	0.64	738.36	0.45	98.78
99.90	341.42	0.64	738.36	0.45	98.49
100.00	341.42	0.64	738.36	0.45	98.19

THE MAXIMUM DISCHARGE FROM CROSS SECTION 6 IS: 217.61 CFS AT TIME:

24.00 HOURS

THE TOTAL VOLUME OF DISCHARGE IS:

869.21 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO:

6

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

VELOCII	Y = AVERAGE	CKOSS SECTION	AFFOCIA (BASED	ON DISCHARGE	AND FLOW AREA)
TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
()	()	()	(,)	()	(0.3)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00
4.10 4.20	0.00 0.00	0.00	0.00	0.00 0.00	0.00 0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00

4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70	0.00	0.00	0.00	0.00	0.00
5.80 5.90	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	6.29	0.00	734.27	-0.00	-0.00
6.90	93.24	0.00	734.27	-0.00	-0.00
7.00	152.62	0.00	734.27	-0.00	-0.00
7.10	230.88	0.00	734.27	-0.00	-0.00
7.20	325.92	0.00	734.27	-0.00	-0.00
7.30	375.73	0.00	734.27	-0.00	-0.01
7.40	384.82	0.00	734.27	-0.00	-0.01
7.50	438.35	0.00	734.27	-0.00	-0.00
7.60	463.60	0.00	734.28	-0.00	-0.01
7.70	476.48	0.00	734.28	-0.00	-0.01
7.80	494.69	0.00	734.28	-0.00	-0.01
7.90	534.31	0.00	734.28	-0.00	-0.01
8.00 8.10	534.31 558.13	0.01 0.01	734.28 734.28	-0.00 -0.00	-0.01
8.20	678.33	0.01	734.28	-0.00	-0.01 -0.01
8.30	786.32	0.01	734.28	-0.00	-0.01
8.40	787.86	0.01	734.28	-0.00	-0.01
8.50	844.26	0.01	734.28	-0.00	-0.01
8.60	858.57	0.01	734.28	-0.00	-0.01
8.70	872.96	0.01	734.28	-0.00	-0.02
8.80	895.64	0.01	734.28	-0.00	-0.02
8.90	940.45	0.01	734.28	-0.00	-0.02
9.00	968.07	0.01	734.28	-0.00	-0.02
9.10	1108.84	0.01	734.28	-0.00	-0.02
9.20	1163.05	0.01	734.28	-0.00	-0.01
9.30	1220.57	0.01	734.28	-0.00	-0.00
9.40	1229.28	0.01	734.28	-0.00	-0.00
9.50	1229.28	0.01	734.28	0.00	0.00
9.60	1241.42	0.01	734.28	0.00	0.00
9.70	1258.57	0.01	734.28	0.00	0.01
9.80	1258.57	0.01	734.29	0.00	0.01
9.90 10.00	1305.07 1415.51	0.02 0.02	734.29 734.29	0.00 0.00	0.02 0.03
10.10	1415.51	0.02 0.02	734.29 734.29	0.00	0.04
10.10	1454.92	0.02	734.29	0.00	0.05
10.30	1481.75	0.02	734.29	0.00	0.07
10.40	1533.00	0.02	734.29	0.00	0.09
10.50	1604.60	0.02	734.29	0.00	0.12

10.60	1681.58	0.02	734.29	0.00	0.16
10.70	1750.62	0.02	734.29	0.01	0.20
10.80	1791.64	0.02	734.29	0.01	0.24
10.90	1854.64	0.02	734.30	0.01	0.28
11.00	1892.60	0.03	734.30	0.01	0.32
11.10	1911.85	0.03	734.30	0.01	0.34
11.20	1912.12	0.03	734.30	0.01	0.38
11.30	1935.66	0.03	734.30	0.01	0.43
11.40	1978.57	0.03	734.30	0.01	0.51
11.50	1984.20	0.04	734.31	0.01	0.58
11.60	2091.11	0.04	734.31	0.01	0.77
11.70	2192.80	0.05	734.32	0.01	1.15
11.80	2231.49	0.06	734.34	0.01	1.66
11.90	2262.25	0.09	734.36	0.01	3.11
12.00	2291.42	0.13	734.40	0.02	5.34
12.10	2270.70	0.15	734.42	0.03	8.70
12.20	2265.96	0.17	734.44	0.03	13.61
12.30	2263.17	0.19	734.46	0.04	18.73
12.40	2256.33	0.20	734.48	0.05	24.31
12.50	2254.52	0.21	734.49	0.06	30.53
12.60	2206.97	0.22	734.49	0.07	35.99
12.70	2242.80	0.22	734.49	0.08	40.59
12.80	2245.35	0.22	734.49	0.09	44.56
12.90	2243.08	0.22	734.49	0.10	47.80
13.00	2218.88	0.21	734.49	0.11	50.27
13.10	2212.12	0.21	734.48	0.11	52.64
13.20	2190.73	0.21	734.48	0.12	53.85
13.30	2159.43	0.21	734.48	0.12	56.39
13.40	2151.08	0.21	734.48	0.13	58.03
13.50	2127.89	0.21	734.48	0.13	59.61
13.60	2114.96	0.21	734.48	0.14	61.19
13.70	2112.12	0.21	734.48	0.14	62.71
13.80	2112.12	0.21	734.48	0.15	64.02
13.90	2112.12	0.21	734.48	0.15	65.68
14.00	2112.12	0.21	734.48	0.15	67.15
14.10	2108.71	0.21	734.48	0.16	69.03
14.10			734.48		
	2082.83	0.21		0.17	71.26
14.30	2112.12	0.21	734.48	0.17	73.51
14.40	2112.12	0.21	734.48	0.17	75.90
14.50	2112.12	0.21	734.48	0.18	78.51
14.60	2112.12	0.21	734.48	0.18	81.25
14.70	2112.12	0.21	734.48	0.19	83.97
14.80	2112.12	0.22	734.49	0.19	86.74
14.90	2112.12	0.22	734.49	0.19	89.23
15.00	2112.12	0.22	734.49	0.20	91.85
15.10	2112.12	0.22	734.49	0.20	94.60
15.20	2112.12	0.22	734.49	0.21	97.45
15.30	2112.12	0.22	734.50	0.21	100.13
15.40	2106.03	0.23	734.50	0.22	102.66
15.50	2101.97	0.23	734.50	0.22	105.69
15.60	2099.36	0.23	734.50	0.22	108.44
15.70	2069.20	0.23	734.50	0.23	111.23
15.70	2067.89	0.23	734.51	0.23	113.66
15.90	2072.39	0.24	734.51	0.24	116.51
16.00	2094.55	0.24	734.51	0.24	119.23
16.10	2092.20	0.24	734.51	0.24	122.17
16.20	2076.29	0.24	734.52	0.25	125.29
16.30	2048.44	0.25	734.52	0.25	128.50
16.40	2046.68	0.25	734.52	0.26	131.16

16.50	2047.27	0.25	734.52	0.26	134.86
16.60	2046.14	0.26	734.53	0.26	137.77
16.70	2045.51	0.26	734.53	0.27	141.04
16.80	2071.96	0.26	734.53	0.27	144.90
16.90	2113.88	0.26	734.53	0.27	147.97
17.00	2112.71	0.27	734.54	0.27	151.57
17.10	2112.12	0.27	734.54	0.27	154.37
17.20	2112.12	0.27	734.54	0.28	157.34
17.30	2112.12	0.27	734.54	0.28	160.93
17.40	2112.12	0.28	734.55	0.28	164.02
17.50	2112.12	0.28	734.55	0.28	165.58
17.60	2112.12	0.28	734.55	0.29	168.60
17.70	2112.12	0.28	734.55	0.29	171.44
17.80	2112.12	0.28	734.55	0.29	174.17
17.90	2112.12	0.29	734.56	0.29	176.99
18.00	2112.12	0.29	734.56	0.30	179.48
18.10	2112.12	0.29	734.56	0.30	181.01
18.20	2112.12	0.29	734.56	0.30	183.52
18.30	2112.12	0.29	734.57	0.30	185.48
18.40	2112.12	0.30	734.57	0.30	187.50
18.50	2112.12	0.30	734.57	0.30	189.43
18.60	2112.12	0.30	734.57	0.30	191.14
18.70	2112.12	0.30	734.57	0.30	192.79
18.80	2112.12	0.30	734.57	0.31	194.51
18.90	2112.12	0.30	734.57	0.31	195.54
19.00	2112.12	0.30	734.57	0.31	196.80
19.10	2112.12	0.30	734.58	0.31	198.28
19.20	2112.12	0.31	734.58	0.31	199.64
19.30				0.31	
	2112.12	0.31	734.58		200.99
19.40	2112.12	0.31	734.58	0.31	202.31
19.50	2112.12	0.31	734.58	0.31	203.57
19.60	2125.41	0.31	734.58	0.31	204.56
19.70	2135.67	0.31	734.58	0.31	205.50
19.80	2138.66	0.31	734.58	0.31	206.47
19.90	2141.11	0.31	734.58	0.31	206.74
20.00	2117.31	0.31	734.58	0.31	208.14
20.10	2096.12	0.31	734.59	0.32	209.07
20.20	2093.82	0.32	734.59	0.32	209.88
20.30	2091.07	0.32	734.59	0.32	210.62
20.40	2088.63	0.32	734.59	0.32	211.32
20.50	2085.88	0.32	734.59	0.32	211.91
20.60	2083.44	0.32	734.59	0.32	212.32
20.70	2082.83	0.32			212.32
			734.59	0.32	
20.80	2082.83	0.32	734.59	0.32	213.35
20.90	2082.83	0.32	734.59	0.32	213.78
21.00	2065.75	0.32	734.59	0.32	214.16
21.10	2053.54	0.32	734.59	0.33	214.49
21.20	2053.54	0.32	734.59	0.33	214.79
21.30	2053.54	0.32	734.59	0.33	215.07
21.40	2053.54	0.32	734.59	0.33	215.31
21.50	2053.54	0.32	734.59	0.33	215.54
21.60	2053.54	0.32	734.59	0.33	215.66
21.70	2053.54	0.32	734.59	0.33	215.84
21.80	2053.54	0.32	734.59	0.33	216.04
21.90	2053.54	0.32	734.59	0.33	216.19
22.00	2053.54	0.32	734.59	0.33	216.33
22.10	2053.54	0.32	734.59	0.33	216.45
22.20	2053.54	0.32	734.59	0.33	216.57
22.30	2053.54	0.32	734.59	0.33	216.67

22.40	2053.54	0.32	734.59	0.33	216.75
22.50	2053.54	0.32	734.59	0.33	216.71
22.60	2053.54	0.32	734.59	0.33	216.72
22.70	2053.54	0.32	734.59	0.33	216.77
22.80	2053.54	0.32	734.59	0.33	216.86
22.90	2053.54	0.32	734.59	0.33	216.93
23.00	2053.54	0.32	734.59	0.33	217.01
23.10	2053.54	0.32	734.59	0.33	217.08
23.20	2053.54	0.32	734.59	0.33	217.14
23.30	2054.17	0.32	734.59	0.33	217.19
23.40	2055.41	0.32	734.59	0.33	217.23
23.50	2054.80	0.32	734.59	0.33	217.28
23.60	2055.41	0.32	734.59	0.33	217.34
23.70	2055.41	0.32	734.59	0.33	217.39
23.80	2055.43	0.32	734.59	0.33	217.46
23.90	2056.06	0.32	734.59	0.33	217.51
24.00	2055.41	0.32	734.59	0.33	217.56
24.10	2054.80	0.32	734.59	0.33	217.52
24.20	2054.17	0.32	734.59	0.33	217.37
24.30	2054.79	0.32	734.59	0.33	217.21
24.40	2054.17	0.32	734.59	0.33	217.05
24.50	2054.17	0.32	734.59	0.33	216.89
24.60	2053.54	0.32	734.59	0.33	216.73
24.70	2053.54	0.32	734.59	0.33	216.56
24.80	2036.17	0.32	734.59	0.33	216.40
24.90	1970.70	0.32	734.59	0.34	216.24
25.00	1970.70	0.32	734.59	0.34	216.07
25.10	1959.68	0.32	734.59	0.35	215.91
25.20	1942.05	0.32	734.59	0.35	215.75
25.30	1942.04	0.32	734.59	0.35	215.59
25.40	1942.05	0.32	734.59	0.35	215.44
25.50	1904.18	0.32	734.59	0.36	215.28
25.60	1899.99	0.32	734.59	0.36	215.12
25.70	1888.53	0.32	734.59	0.36	214.97
25.80	1870.70	0.32	734.59	0.36	214.81
25.90	1870.70	0.32	734.59	0.36	214.65
26.00	1839.82	0.32	734.59	0.37	214.49
26.10 26.20	1829.28 1829.28	0.32 0.31	734.59 734.59	0.37 0.37	214.34 214.18
26.30	1829.28	0.31	734.59	0.37	214.18
26.40	1829.92	0.31	734.59	0.37	213.84
26.50	1829.28	0.31	734.58	0.37	213.68
26.60	1804.24	0.31	734.58	0.38	213.51
26.70	1787.86	0.31	734.58	0.38	213.35
26.80	1787.86	0.31	734.58	0.38	213.19
26.90	1787.86	0.31	734.58	0.38	213.03
27.00	1773.53	0.31	734.58	0.38	212.86
27.10	1758.57	0.31	734.58	0.39	212.69
27.20	1759.21	0.31	734.58	0.39	212.51
27.30	1758.57	0.31	734.58	0.39	212.33
27.40	1758.57	0.31	734.58	0.39	212.14
27.50	1759.21	0.31	734.58	0.39	211.96
27.60	1758.57	0.31	734.58	0.39	211.77
27.70	1758.57	0.31	734.58	0.39	211.59
27.80	1759.21	0.31	734.58	0.39	211.39
27.90	1758.57	0.31	734.58	0.39	211.20
28.00	1738.29	0.31	734.58	0.39	211.12
28.10	1729.92	0.31	734.58	0.40	210.87
28.20	1743.76	0.31	734.58	0.39	210.64

28.30	1732.18	0.31	734.58	0.39	210.41
28.40	1728.63	0.31	734.58	0.40	210.19
28.50	1727.99	0.31	734.58	0.40	209.96
28.60	1726.70	0.31	734.58	0.40	209.74
28.70	1724.07	0.31	734.58	0.40	209.51
28.80	1721.88	0.31	734.58	0.40	209.32
28.90	1720.49	0.31	734.58	0.40	209.13
29.00	1719.62	0.31	734.58	0.40	208.91
29.10	1719.19	0.31	734.58	0.40	208.68
29.20	1710.73	0.30	734.58	0.40	208.49
29.30	1705.46	0.30	734.58	0.40	208.33
29.40	1705.20	0.30	734.58	0.40	208.07
29.50	1705.85	0.30	734.58	0.40	207.76
29.60	1705.85	0.30	734.57	0.40	207.46
29.70	1705.85	0.30	734.57	0.40	207.18
29.80	1707.15	0.30	734.57	0.40	206.89
29.90	1707.15	0.30	734.57	0.40	206.68
30.00	1707.48	0.30	734.57	0.40	206.49
30.10	1706.82	0.30	734.57	0.40	206.20
30.20	1689.25	0.30	734.57	0.40	205.90
30.30	1678.19	0.30	734.57	0.41	205.58
30.40	1678.93	0.30	734.57	0.41	205.25
30.50	1678.51	0.30	734.57	0.41	204.92
30.60	1679.16	0.30	734.57	0.41	204.58
30.70	1678.27 1680.14	0.30	734.57	0.41 0.41	204.23
30.80		0.30	734.57		203.89
30.90 31.00	1678.60 1679.49	0.30 0.30	734.57 734.57	0.41 0.41	203.53 203.18
31.10	1679.59	0.30	734.57	0.41	202.86
31.20	1679.92	0.30	734.57	0.41	202.53
31.30	1679.81	0.30	734.57	0.40	202.18
31.40	1680.25	0.30	734.57	0.40	201.79
31.50	1680.25	0.30	734.57	0.40	201.41
31.60	1681.23	0.30	734.57	0.40	200.98
31.70	1655.89	0.30	734.57	0.41	200.57
31.80	1652.19	0.30	734.57	0.41	200.14
31.90	1652.31	0.29	734.57	0.41	199.72
32.00	1652.57	0.29	734.57	0.41	199.29
32.10	1625.02	0.29	734.56	0.42	198.85
32.20	1625.34	0.29	734.56	0.42	198.42
32.30	1624.62	0.29	734.56	0.42	197.99
32.40	1625.95	0.29	734.56	0.42	197.53
32.50	1625.52	0.29	734.56	0.42	197.08
32.60	1626.30	0.29	734.56	0.42	196.61
32.70	1625.64	0.29	734.56	0.42	196.13
32.80	1626.44	0.29	734.56	0.41	195.68
32.90	1626.60	0.29	734.56	0.41	195.39
33.00	1626.94	0.29	734.56	0.41	195.01
33.10	1627.61	0.29	734.56	0.41	194.43
33.20	1627.37	0.29	734.56	0.41	193.88
33.30	1628.99	0.29	734.56	0.41	193.36
33.40	1628.43	0.29	734.56	0.41	193.25
33.50	1629.39	0.29	734.56	0.41	192.79
33.60	1630.20	0.29	734.56	0.41	192.15
33.70	1630.27	0.28	734.56	0.41	191.55
33.80	1631.54	0.28	734.56	0.41	190.96
33.90	1631.32	0.28	734.55	0.41	190.39
34.00	1631.86	0.28	734.55	0.41	189.81
34.10	1632.12	0.28	734.55	0.41	189.26

34.20	1632.42	0.28	734.55	0.41	188.89
34.30	1633.42	0.28	734.55	0.41	188.38
34.40	1632.75	0.28	734.55	0.41	187.83
34.50	1633.79	0.28	734.55	0.41	187.32
34.60	1633.40	0.28	734.55	0.41	186.88
34.70	1633.85	0.28	734.55	0.41	186.38
34.80	1624.54	0.28	734.55	0.41	185.89
34.90	1604.16	0.28	734.55	0.42	185.76
	1604.16	0.28		0.42	185.41
35.00 35.10	1603.66	0.28	734.55 734.55	0.42 0.42	185.41
35.20	1602.80	0.28	734.55	0.42	184.64
35.30	1602.95	0.28	734.55	0.42	184.01
35.40	1602.26	0.28	734.55	0.42	183.44
35.50	1600.99	0.27	734.55	0.42	182.85
35.60	1601.56	0.27	734.55	0.42	182.43
35.70	1600.53	0.27	734.54	0.42	181.79
35.80	1601.02	0.27	734.54	0.42	181.26
35.90	1600.16	0.27	734.54	0.42	180.73
36.00	1596.84	0.27	734.54	0.42	180.21
36.10	1592.17	0.27	734.54	0.42	179.68
36.20	1591.30	0.27	734.54	0.42	179.12
36.30	1590.95	0.27	734.54	0.42	178.54
36.40	1585.42	0.27	734.54	0.42	178.02
36.50	1563.80	0.27	734.54	0.42	177.47
36.60	1560.42	0.27	734.54	0.42	177.19
36.70	1557.77	0.27	734.54	0.42	176.74
36.80	1554.78	0.27	734.54	0.42	176.09
36.90	1564.76	0.27	734.54	0.42	175.55
37.00	1572.65	0.27	734.54	0.42	175.11
37.10	1572.65	0.27	734.54	0.42	174.68
37.20	1574.47	0.26	734.54	0.42	174.03
37.30	1584.14	0.26	734.54	0.42	173.45
37.40	1584.81	0.26	734.53	0.41	172.90
37.50	1583.98	0.26	734.53	0.42	172.77
37.60	1584.56	0.26	734.53	0.42	172.47
37.70	1584.02	0.26	734.53	0.41	171.91
37.80	1581.63	0.26	734.53	0.41	171.30
37.90	1582.53	0.26	734.53	0.41	170.77
38.00	1581.91	0.26	734.53	0.41	170.26
38.10	1575.59	0.26	734.53	0.42	169.77
38.20	1544.72	0.26	734.53	0.42	169.11
38.30	1543.02	0.26	734.53	0.42	168.50
38.40	1543.04	0.26	734.53	0.42	167.99
38.50	1542.71	0.26	734.53	0.42	167.69
38.60	1542.74	0.26	734.53	0.42	166.90
38.70	1541.73	0.26	734.53	0.42	166.27
38.80	1532.63	0.25	734.53	0.42	165.69
38.90	1518.44	0.25	734.53	0.43	165.14
39.00	1513.67	0.25	734.52	0.43	164.63
39.10	1513.18	0.25	734.52	0.43	164.14
39.20	1513.74	0.25	734.52	0.43	163.65
39.30	1513.74	0.25	734.52	0.43	163.08
39.40	1513.52	0.25	734.52	0.43	162.99
39.40	1513.52	0.25	734.52	0.43	162.19
39.60	1513.26	0.25	734.52	0.43	161.56
39.70	1480.06	0.25	734.52	0.44	161.02
39.80	1472.46	0.25	734.52	0.44	160.56
39.90	1472.48	0.25	734.52	0.44	160.07
40.00	1471.90	0.25	734.52	0.44	159.59

40.10	1456.81	0.25	734.52	0.44	159.04
40.20	1443.85	0.25	734.52	0.45	158.64
40.30	1442.63	0.25	734.52	0.45	158.00
40.40	1442.65	0.24	734.52	0.45	157.49
40.50	1442.61	0.24	734.52	0.45	156.94
40.60	1425.39	0.24	734.51	0.45	156.34
40.70	1401.10	0.24	734.51	0.46	155.82
40.80	1401.12	0.24	734.51	0.46	155.33
40.90	1396.26	0.24	734.51	0.46	154.93
41.00	1371.87	0.24	734.51	0.47	154.47
41.10	1371.89	0.24	734.51	0.47	154.01
41.20	1371.90	0.24	734.51	0.47	153.56
41.30	1371.85	0.24	734.51	0.47	153.02
41.40	1372.27	0.24	734.51	0.47	152.88
41.50	1371.79	0.24	734.51	0.47	152.40
41.60	1371.79	0.24	734.51	0.47	151.90
41.70	1371.80	0.24	734.51	0.46	151.21
41.70	1371.71	0.24	734.51	0.46	150.68
41.90	1371.71	0.24	734.51	0.46	150.22
42.00	1371.72	0.24	734.51	0.46	149.61
42.00	1371.75	0.24	734.51	0.46 0.46	149.06
42.20	1371.77	0.23	734.51	0.46	148.50
42.30	1331.54	0.23	734.51	0.48	147.97
42.40	1330.38	0.23	734.50	0.48	147.82
42.50	1330.41	0.23	734.50	0.48	147.40
42.60	1312.79	0.23	734.50	0.48	146.76
42.70	1304.01	0.23	734.50	0.48	146.18
42.80	1275.39	0.23	734.50	0.49	145.55
42.90	1273.63	0.23	734.50	0.49	144.94
43.00	1274.29	0.23	734.50	0.49	144.37
43.10	1274.29	0.23	734.50	0.49	143.81
43.20	1273.37	0.23	734.50	0.49	143.26
43.30	1273.87	0.23	734.50	0.49	142.76
43.40	1273.93	0.23	734.50	0.49	142.35
43.50	1273.47	0.23	734.50	0.49	141.89
43.60	1273.49	0.23	734.50	0.49	141.37
43.70	1273.00	0.23	734.50	0.49	140.87
43.80	1273.02	0.23	734.50	0.49	140.36
43.90	1271.29	0.23	734.50	0.49	139.86
44.00	1271.30	0.22	734.50	0.49	139.38
44.10	1271.31	0.22	734.50	0.49	138.99
44.20	1271.25	0.22	734.49	0.49	138.70
44.30	1271.24	0.22	734.49	0.49	138.19
44.40	1271.25	0.22	734.49	0.49	137.69
44.50	1271.26	0.22	734.49	0.49	137.21
44.60	1242.84	0.22	734.49	0.50	136.74
44.70	1241.99	0.22	734.49	0.50	136.31
44.80	1241.99	0.22	734.49	0.50	135.89
44.90	1241.41	0.22	734.49	0.50	135.73
45.00	1242.43	0.22	734.49	0.50	135.23
45.10	1241.94	0.22	734.49	0.49	134.74
45.20	1241.96	0.22	734.49	0.49	134.29
45.30	1241.96	0.22	734.49	0.49	133.90
45.40	1241.41	0.22	734.49	0.49	133.79
45.50	1241.98	0.22	734.49	0.49	133.63
45.60	1237.68	0.22	734.49	0.50	133.07
45.70	1224.72	0.22	734.49	0.50	132.51
45.80	1150.73	0.22	734.49	0.53	132.00
45.90	1138.28	0.22	734.49	0.54	131.74

46.00	1137.27	0.22	734.49	0.54	131.44
46.10	1134.71	0.21	734.49	0.54	130.95
46.20	1132.05	0.21	734.49	0.54	130.52
46.30	1106.10	0.21	734.48	0.55	130.18
46.40	1063.17	0.21	734.48	0.57	129.75
46.50	1062.58	0.21	734.48	0.57	129.31
46.60	1063.16	0.21	734.48	0.57	128.90
46.70	1046.65	0.21	734.48	0.58	128.55
46.80	1042.06	0.21	734.48	0.58	128.21
46.90	1040.67	0.21	734.48	0.58	127.86
47.00	1040.89	0.21	734.48	0.58	127.44
47.10	1040.55	0.21	734.48	0.58	127.04
47.20	1040.09	0.21	734.48	0.58	126.65
47.30	1040.13	0.21	734.48	0.58	126.27
47.40	1039.30	0.21	734.48	0.58	125.91
47.50	1040.07	0.21	734.48	0.58	125.54
47.60	1038.52	0.21	734.48	0.58	125.19
47.70	1039.32	0.21	734.48	0.58	125.27
47.80	1038.59	0.21	734.48	0.58	124.88
47.90	1038.77	0.21	734.48	0.58	124.63
48.00	1037.02	0.21	734.48	0.58	124.18
48.10	1038.64	0.21	734.48	0.58	123.76
48.20	1015.40	0.20	734.48	0.59	123.76
48.30	1013.99	0.20	734.48	0.59	122.96
48.40	1014.37	0.20	734.48	0.59	122.69
48.50	1014.37	0.20	734.47	0.59	122.35
48.60	1013.13	0.20	734.47	0.59	121.97
48.70	1012.27	0.20	734.47	0.59	121.59
48.80	997.44	0.22	734.49	0.55	121.28
48.90	982.31	0.24	734.51	0.51	121.21
49.00	977.34	0.24	734.51	0.51	120.92
49.10	966.14	0.24	734.51	0.52	120.44
49.20	963.32	0.24	734.51	0.52	120.01
49.30	961.00	0.24	734.51	0.52	119.62
49.40	958.40	0.24	734.51	0.52	119.23
49.50	951.53	0.24	734.51	0.52	118.87
49.60	954.98	0.24	734.51	0.52	118.53
49.70	948.35	0.24	734.51	0.52	118.20
49.80	936.23	0.24	734.51	0.53	117.86
49.90	936.22	0.24	734.51	0.53	117.51
50.00	937.91	0.24	734.51	0.51	117.15
50.10	937.35	0.25	734.52	0.51	116.80
50.20	937.50	0.25	734.52	0.51	116.45
50.30	936.95	0.25	734.52	0.51	116.11
50.40	935.53	0.24	734.52	0.51	115.78
50.50	938.22	0.24	734.52	0.50	115.45
50.60	938.20	0.24	734.52	0.50	115.12
50.70	937.32	0.24	734.52	0.50	114.81
50.80	936.21	0.24	734.52	0.50	114.50
50.90	937.42	0.24	734.52	0.50	114.18
51.00	922.26	0.24	734.51	0.51	113.89
51.10	911.13	0.24	734.51	0.52	113.65
51.20	909.92	0.24	734.51	0.52	113.36
51.30	910.18	0.24	734.51	0.52	113.05
51.40	910.36	0.24	734.51	0.52	112.73
51.50	910.02	0.24	734.51	0.51	112.41
51.60	909.13	0.24	734.51	0.51	112.11
51.70	908.52	0.24	734.51	0.51	111.79
51.80	907.85	0.24	734.51	0.51	111.48
	Commence To the Control of the Contr			60 Total	

51.90	907.13	0.24	734.51	0.51	111.17
52.00	908.51	0.24	734.51	0.51	110.87
52.10	906.67	0.24	734.51	0.51	110.64
52.20	906.33	0.24	734.51	0.51	110.75
52.30	911.18	0.24	734.51	0.51	110.43
52.40	911.49	0.24	734.51	0.51	110.09
52.50	911.49	0.24	734.51	0.51	109.74
52.60	909.76	0.24	734.51	0.51	109.41
52.70	907.81	0.24	734.51	0.51	109.10
52.80	906.81	0.23	734.51	0.51	109.15
52.90	905.39	0.23	734.51	0.51	108.81
53.00	905.23	0.23	734.51	0.51	108.47
53.10	901.07	0.23	734.51	0.51	108.11
53.20	894.57	0.23	734.50	0.52	107.78
53.30	892.22	0.23	734.50	0.52	107.47
53.40	890.80	0.23	734.50	0.52	107.19
53.50	889.57	0.23	734.50	0.52	106.90
53.60	888.02	0.23	734.50	0.52	106.61
53.70	887.29	0.23	734.50	0.52	106.77
53.80	885.08	0.23	734.50	0.52	106.26
53.90	883.60	0.23	734.50	0.52	105.89
54.00	877.96	0.23	734.50	0.53	105.70
54.10	878.87	0.23	734.50	0.52	105.46
54.20	879.57	0.23	734.50	0.52	105.11
54.30	879.80	0.23	734.50	0.52	104.80
54.40	878.93	0.23	734.50	0.52	104.51
54.50	878.62	0.23	734.50	0.52	104.25
54.60	878.72	0.23	734.50	0.52	104.02
54.70	877.74	0.23	734.50	0.52	103.81
54.80 54.90	877.97 877.66	0.23 0.23	734.50 734.50	0.52 0.52	103.59 103.34
55.00	877.84	0.23	734.50	0.52	103.34
55.10	876.93	0.22	734.50	0.52	102.89
55.20	877.83	0.22	734.50	0.52	102.69
55.30	877.42	0.22	734.50	0.52	102.45
55.40	876.56	0.22	734.50	0.52	102.22
55.50	876.85	0.22	734.49	0.52	101.98
55.60	877.05	0.22	734.49	0.52	101.73
55.70	876.96	0.22	734.49	0.52	101.46
55.80	875.59	0.22	734.49	0.52	101.23
55.90	874.89	0.22	734.49	0.52	101.19
56.00	874.89	0.22	734.49	0.52	100.94
56.10	873.96	0.22	734.49	0.52	100.83
56.20	874.07	0.22	734.49	0.52	100.61
56.30	864.41	0.22	734.49	0.53	100.36
56.40	833.29	0.22	734.49	0.54	100.11
56.50	830.31	0.22	734.49	0.55	99.99
56.60	830.87	0.22	734.49	0.55	99.88
56.70	833.01	0.22	734.49	0.54	99.67
56.80	834.71	0.22	734.49	0.54	99.33
56.90	833.66	0.22	734.49	0.54	99.03
57.00	834.31	0.22	734.49	0.54	98.74
57.10	833.79	0.22	734.49	0.54	98.46
57.20	834.40	0.22	734.49	0.54	98.19
57.30	833.88	0.22	734.49	0.54	97.92 97.66
57.40 57.50	832.95 833.07	0.22 0.22	734.49 734.49	0.54 0.54	97.66 97.41
57.60	833.40	0.22	734.49	0.54	97.16
57.70	833.54	0.22	734.49	0.54	96.91
37.70	055.54	0.22	, 54.45	0.54	50.51

57.80	833.62	0.22	734.49	0.54	96.67
57.90	828.19	0.22	734.49	0.54	96.44
58.00	811.82	0.21	734.49	0.55	96.21
58.10	811.09	0.21	734.49	0.55	95.99
58.20	810.92	0.21	734.49	0.55	95.93
58.30	810.18	0.21	734.48	0.55	96.00
58.40	811.40	0.21	734.48	0.55	95.50
58.50	793.38	0.21	734.48	0.56	95.20
58.60	794.06	0.21	734.48	0.56	94.93
58.70	791.35	0.21	734.48	0.56	94.67
58.80	792.27	0.21	734.48	0.56	94.62
58.90	790.41	0.21	734.48	0.57	94.47
59.00	790.48	0.21	734.48	0.57	94.25
59.10	789.57	0.21	734.48	0.57	93.92
59.20	789.07	0.21	734.48	0.57	93.64
59.30	771.45	0.21	734.48	0.58	93.38
59.40	768.71	0.21	734.48	0.58	93.14
59.50	768.42	0.21	734.48	0.58	92.90
59.60	768.42	0.21	734.48	0.58	92.66
59.70	746.61	0.21	734.48	0.59	92.43
59.80	745.70	0.21	734.48	0.60	92.34
59.90	738.96	0.21	734.48	0.60	92.15
		0.21	734.48		91.92
60.00	738.70			0.60	
60.10	738.52	0.21	734.48	0.60	91.68
60.20	737.88	0.21	734.48	0.60	91.45
60.30	737.22	0.21	734.48	0.60	91.21
60.40	737.10	0.21	734.48	0.60	90.97
60.50	737.10	0.21	734.48	0.60	90.74
60.60	736.98	0.21	734.48	0.60	90.51
60.70	736.67	0.21	734.48	0.60	90.29
60.80	734.25	0.20	734.48	0.60	90.06
60.90	723.43	0.20	734.48	0.61	89.84
61.00	720.88	0.20	734.48	0.61	89.62
61.10	717.67	0.20	734.48	0.61	89.43
61.20	717.18	0.20	734.47	0.61	89.43
61.30	715.52	0.20	734.47	0.61	89.13
61.40	714.64	0.20	734.47	0.61	88.89
61.50	713.22	0.20	734.47	0.61	88.68
61.60	711.71	0.20	734.47	0.61	88.48
61.70	711.22	0.20	734.47	0.61	88.27
61.80	710.47	0.20	734.47	0.61	88.07
61.90	710.49	0.20	734.47	0.61	87.88
62.00	711.01	0.20	734.47	0.61	87.67
62.10	710.02	0.20	734.47	0.61	87.46
62.20	709.93	0.20	734.47	0.61	87.46
		0.20			87.26
62.30	710.11		734.47	0.61	
62.40	709.13	0.20	734.47	0.61	86.86
62.50	710.18	0.20	734.47	0.61	86.65
62.60	709.60	0.20	734.47	0.61	86.61
62.70	710.33	0.20	734.47	0.61	86.42
62.80	710.60	0.20	734.47	0.61	86.18
62.90	709.59	0.20	734.47	0.61	85.96
63.00	710.29	0.20	734.47	0.61	85.78
63.10	709.13	0.20	734.47	0.61	85.61
63.20	709.85	0.20	734.47	0.61	85.39
63.30	708.84	0.20	734.47	0.61	85.19
63.40	708.92	0.20	734.47	0.61	85.03
63.50	706.82	0.20	734.47	0.61	84.95
63.60	707.77	0.20	734.47	0.61	84.76
33.00	, , , , ,	3.23	,54.41	0.01	57.70

63.70	708.01	0.20	734.47	0.61	84.56
63.80	707.19	0.20	734.47	0.61	84.35
63.90	707.91	0.20	734.47	0.61	84.14
64.00	707.52	0.20	734.47	0.61	83.93
64.10	707.66	0.19	734.47	0.61	83.73
64.20	707.25	0.19	734.47	0.61	83.54
64.30	707.32	0.19	734.47	0.61	83.37
64.40	707.07	0.19	734.47	0.61	83.60
64.50	707.07	0.19	734.47	0.61	83.20
64.60	707.19	0.19	734.46	0.61	82.94
64.70	706.86	0.19	734.46	0.61	82.77
64.80	706.98	0.19	734.46	0.61	82.61
64.90	707.66	0.19	734.46	0.60	82.40
65.00	707.18	0.19	734.46	0.60	82.19
65.10	706.76	0.19	734.46	0.60	82.01
65.20	706.92	0.19	734.46	0.60	81.82
65.30	707.51	0.19	734.46	0.60	81.67
65.40	707.64	0.19	734.46	0.60	81.55
65.50	707.38	0.19	734.46	0.60	81.36
65.60	706.39	0.19	734.46	0.60	81.18
65.70	707.11	0.19	734.46	0.60	81.01
65.80	707.18	0.19	734.46	0.60	80.85
65.90	707.13	0.19	734.46	0.60	80.68
66.00	706.89	0.19	734.46	0.60	80.52
66.10	706.11	0.19	734.46	0.60	80.36
66.20	707.25	0.19	734.46	0.60	80.19
66.30	706.33	0.19	734.46	0.60	80.04
66.40	706.98	0.19	734.46	0.60	79.88
66.50	706.90	0.19	734.46	0.60	79.74
66.60	706.63	0.19	734.46	0.60	79.60
66.70	706.64	0.19	734.46	0.60	79.46
66.80	705.70	0.19	734.46	0.60	79.33
66.90	707.38	0.19	734.46	0.60	79.20
67.00	706.27	0.19	734.46	0.60	79.07
67.10	705.85	0.19	734.46	0.60	78.98
67.20	706.45	0.19 0.19	734.46	0.60	78.89
67.30 67.40	705.52 706.69	0.19	734.46 734.46	0.60 0.60	78.79 78.67
67.50	706.29	0.19	734.46	0.60	78.54
67.60	705.95	0.19	734.46	0.60	78.42
67.70	706.68	0.19	734.46	0.58	78.30
67.70	708.36	0.19	734.47	0.57	78.20
67.90	698.86	0.20	734.47	0.57	78.13
68.00	691.16	0.20	734.47	0.58	78.02
68.10	690.61	0.20	734.47	0.58	77.90
68.20	689.73	0.19	734.47	0.58	77.77
68.30	688.56	0.19	734.47	0.58	77.66
68.40	686.65	0.19	734.47	0.58	77.58
68.50	686.53	0.19	734.47	0.58	77.46
68.60	685.94	0.19	734.47	0.58	77.33
68.70	682.73	0.19	734.47	0.58	77.20
68.80	682.63	0.19	734.47	0.58	77.08
68.90	679.89	0.19	734.46	0.59	76.98
69.00	680.06	0.19	734.46	0.59	76.86
69.10	678.98	0.19	734.46	0.59	76.74
69.20	675.86	0.19	734.46	0.59	76.63
69.30	675.89	0.19	734.46	0.59	76.52
69.40	674.79	0.19	734.46	0.59	76.42
69.50	672.93	0.19	734.46	0.59	76.32

69.60	672.47	0.19	734.46	0.59	76.23
69.70	671.52	0.19	734.46	0.59	76.14
69.80	670.90	0.19	734.46	0.59	76.05
69.90	669.47	0.19	734.46	0.59	75.97
70.00	667.78	0.19	734.46	0.59	75.89
70.10	666.86	0.19	734.46	0.59	75.82
70.20	667.05	0.19	734.46	0.59	75.88
70.30	666.59	0.19	734.46	0.59	75.83
70.40	665.21	0.19	734.46	0.60	75.74
70.50	664.55	0.19	734.46	0.60	75.65
70.60	663.82	0.19	734.46	0.60	75.57
70.70	663.35	0.19	734.46	0.60	75.50
70.80	660.61	0.19	734.46	0.60	75.43
70.90	658.86	0.19	734.46	0.60	75.37
71.00	657.63	0.19	734.46	0.60	75.31
71.10	656.87	0.19	734.46	0.60	75.26
71.20	656.33	0.19	734.46	0.60	75.21
71.30	654.73	0.19	734.46	0.60	75.16
71.40	654.39	0.19	734.46	0.60	75.12
71.50	654.63	0.19	734.46	0.60	75.09
71.60	651.40	0.19	734.46	0.61	75.05
71.70	651.32	0.19 0.19	734.46 734.46	0.61	75.02 74.99
71.80 71.90	650.37 650.29	0.19	734.46	0.61 0.61	74.99 74.97
72.00	650.54	0.19	734.46	0.61	74.94
72.00	650.13	0.19	734.46	0.61	74.92
72.10	650.51	0.19	734.46	0.61	74.90
72.20	650.36	0.19	734.46	0.61	74.88
72.40	649.93	0.19	734.46	0.61	74.87
72.50	649.67	0.19	734.46	0.61	74.85
72.60	649.59	0.19	734.46	0.61	74.84
72.70	649.39	0.19	734.46	0.61	74.83
72.80	648.98	0.19	734.46	0.61	74.82
72.90	648.55	0.19	734.46	0.61	74.81
73.00	647.83	0.19	734.46	0.61	74.80
73.10	648.35	0.19	734.46	0.61	74.80
73.20	648.15	0.19	734.46	0.61	74.80
73.30	648.47	0.19	734.46	0.61	74.80
73.40	648.40	0.19	734.46	0.61	74.80
73.50	648.30	0.19	734.46	0.61	74.80
73.60	648.11	0.19	734.46	0.61	74.81
73.70	648.10	0.19	734.46	0.61	74.81
73.80	648.54	0.19	734.46	0.61	74.82
73.90	647.97	0.19	734.46	0.61	74.84
74.00	648.44	0.19	734.46	0.61	74.85
74.10	647.84	0.19	734.46	0.61	74.87
74.20	648.81	0.19	734.46	0.61	74.88
74.30	648.04	0.19	734.46	0.61	74.90
74.40	647.76	0.19	734.46	0.61	74.92
74.50	648.10	0.19	734.46	0.61	74.95
74.60	647.90	0.19	734.46	0.61	74.97
74.70	647.52	0.19	734.46	0.61	75.00
74.80	647.59	0.19	734.46	0.61	75.03
74.90	647.77	0.19	734.46	0.61	75.07
75.00 75.10	647.46 647.21	0.19 0.19	734.46 734.46	0.61 0.61	75.10 75.14
75.10 75.20	647.78	0.19	734.46	0.61	75.14 75.18
75.30	646.96	0.19	734.46	0.62	75.22
75.40	647.46	0.19	734.46	0.62	75.26
75.40	077.40	0.15	, 54.40	0.02	73.20

75.50	647.63	0.19	734.46	0.62	75.31
75.60	647.03	0.19	734.46	0.62	75.35
75.70	647.31	0.19	734.46	0.62	75.40
75.80	646.59	0.19	734.46	0.62	75.45
75.90	646.56	0.19	734.46	0.62	75.50
76.00	646.76	0.19	734.46	0.62	75.55
76.10	646.44	0.19	734.46	0.62	75.59
76.20	646.48	0.19	734.46	0.62	75.64
76.30	646.42	0.19	734.46	0.62	75.69
76.40	645.74	0.19	734.46	0.62	75.74
76.50	646.46	0.19	734.46	0.62	75.80
76.60	647.95	0.19	734.46	0.62	75.85
76.70	647.85	0.19	734.46	0.62	75.90
76.80	645.39	0.19	734.46	0.62	75.95
76.90	644.63	0.19	734.46	0.62	76.01
77.00	645.21	0.19	734.46	0.62	76.06
77.10	644.59	0.19	734.46	0.62	76.09
77.20	644.06	0.19	734.46	0.62	76.00
77.30	643.79	0.19	734.46	0.62	76.06
77.40	643.37	0.19	734.46	0.62	76.14
77.50	643.50	0.19	734.46	0.62	76.22
77.60	643.07	0.19	734.46	0.62	76.29
77.70	641.29	0.19	734.46	0.63	76.36
77.80	641.42	0.19	734.46	0.63	76.43
77.90	640.46	0.19	734.46	0.63	76.49
78.00	640.76	0.19	734.46	0.63	76.56
78.10	638.44	0.19	734.46	0.63	76.62
78.20	638.84	0.19	734.46	0.63	76.68
78.30	637.45	0.19	734.46	0.63	76.73
78.40	637.96	0.19	734.46	0.63	76.78
78.50	637.02	0.19	734.46	0.63	76.83
78.60	637.17	0.19	734.46	0.63	76.88
78.70	637.33	0.19	734.46	0.63	76.93
78.80	637.41	0.19	734.46	0.63	76.98
78.90	637.57	0.19	734.46	0.63	77.03
79.00	637.74	0.19	734.46	0.63	77.08
79.10	636.53	0.19	734.46	0.63	77.13
79.20	636.15	0.19	734.46	0.63	77.18
79.30	637.42	0.19	734.46	0.63	77.24
79.40	636.40	0.19	734.46	0.64	77.29
79.50	636.33	0.19	734.46	0.64	77.35
79.60	630.42	0.19	734.46	0.64	77.40
79.70	629.29	0.19	734.46	0.64	77.46
79.80	620.81	0.19	734.46	0.65	77.52
79.90	617.47	0.19	734.46	0.66	77.53
80.00	615.30	0.19	734.46	0.66	77.57
80.10	614.64	0.19	734.46	0.66	77.63
80.20	613.68	0.19	734.46	0.66	77.70
80.30	614.64	0.19	734.46	0.66	77.78
80.40	612.67	0.19	734.46	0.66	77.85
80.50	612.86	0.19	734.46	0.66	77.92
80.60	610.60	0.19	734.46	0.67	77.99
80.70	611.82	0.19	734.46	0.66	78.06
80.80	610.02	0.19	734.46	0.67	78.13
80.90	610.21	0.19	734.46	0.67	78.20
81.00	610.40	0.19	734.46	0.67	78.27
81.10	608.36	0.19	734.46	0.67	78.33
81.20	608.53	0.19	734.46	0.67	78.39
81.30	607.46	0.19	734.46	0.67	78.42

81.40	608.21	0.19	734.46	0.67	78.47
81.50	607.07	0.19	734.46	0.67	78.53
81.60	607.25	0.19	734.46	0.67	78.58
81.70	604.79	0.19	734.46	0.67	78.63
81.80	607.05	0.19	734.46	0.67	78.70
81.90	606.08	0.19	734.46	0.67	78.76
82.00	605.63	0.19	734.46	0.67	78.81
82.10	606.25	0.19	734.46	0.67	78.87
82.20	605.80	0.19	734.46	0.67	78.93
82.30	605.23	0.19	734.46	0.67	78.99
82.40	606.11	0.19	734.46	0.67	79.03
82.50	603.69	0.19	734.46	0.68	79.05
82.60	602.13	0.19	734.46	0.68	79.09
82.70	601.64	0.19	734.47	0.68	79.12
82.80	602.79	0.19	734.47	0.68	79.12
82.90	601.12	0.19	734.47	0.68	79.19
83.00	602.87	0.19	734.47	0.68	79.23
83.10	602.93	0.19	734.47	0.68	79.28
83.20	601.75	0.19	734.47	0.68	79.32
83.30	601.79	0.19	734.47	0.68	79.36
83.40	601.57	0.19	734.47	0.68	79.40
83.50	603.16	0.19	734.47	0.68	79.45
83.60	602.15	0.19	734.47	0.68	79.48
83.70	601.65	0.19	734.47	0.68	79.52
83.80	601.67	0.19	734.47	0.68	79.56
83.90	602.27	0.19	734.47	0.68	79.59
84.00	602.90	0.19	734.47	0.68	79.62
84.10	601.17	0.19	734.47	0.68	79.58
84.20	601.04	0.19	734.47	0.68	79.57
84.30	602.61	0.19	734.47	0.68	79.60
84.40	601.59	0.19	734.47	0.68	79.63
84.50	601.62	0.19	734.47	0.68	79.67
84.60	602.23	0.19	734.47	0.68	79.70
84.70	601.69	0.19	734.47	0.68	79.73
84.80	601.99	0.19	734.47	0.68	79.76
84.90	601.46	0.19	734.47	0.68	79.78
85.00	601.75	0.19	734.47	0.68	79.81
85.10	601.79	0.19	734.47	0.68	79.83
85.20	602.34	0.19	734.47	0.68	79.85
85.30	601.55	0.19	734.47	0.68	79.86
85.40	602.15	0.19	734.47	0.68	79.88
85.50	601.64	0.19	734.47	0.68	79.89
85.60	601.67	0.19	734.47	0.68	79.90
85.70	589.58	0.19	734.47	0.70	79.91
85.80	582.60	0.19	734.47	0.71	79.92
85.90	581.25	0.19	734.47	0.71	79.93
86.00	581.31	0.19	734.47	0.71	79.93
86.10	580.98	0.19	734.47	0.71	79.94
86.20	579.15	0.19	734.47	0.71	79.94
86.30	581.01	0.19	734.47	0.71	79.95
86.40	579.00	0.19	734.47	0.71	79.95
86.50	579.63	0.19	734.47	0.71	79.95
86.60	578.17	0.19	734.47	0.71	79.95
86.70	578.25	0.19	734.47	0.71	79.95
86.80	577.15	0.19	734.47	0.71	79.94
86.90	578.32	0.19	734.47	0.71	79.94
87.00	576.87	0.19	734.47	0.71	79.94
87.10	577.04	0.19	734.47	0.71	79.93
87.10	577.76	0.19	734.47	0.71	79.93
07.20	311.10	0.19	/34.4/	0.71	13.32

87.30	575.63	0.19	734.47	0.71	79.91
87.40	577.47	0.19	734.47	0.71	79.90
87.50	576.96	0.19	734.47	0.71	79.89
87.60	576.51	0.19	734.47	0.71	79.87
87.70	575.98	0.19	734.47	0.71	79.86
87.80	576.62	0.19	734.47	0.71	79.84
87.90	575.41	0.19	734.47	0.71	79.83
88.00	574.89	0.19	734.47	0.71	79.81
88.10	575.01	0.19	734.47	0.71	79.79
88.20	574.85	0.19	734.47	0.71	79.77
88.30	574.89	0.19	734.47	0.71	79.75
88.40	574.69	0.19	734.47	0.71	79.73
88.50	574.77	0.19	734.47	0.71	79.71
88.60	574.52	0.19	734.47	0.71	79.69
88.70	575.79	0.19	734.47	0.71	79.67
88.80	574.29	0.19	734.47	0.72	79.64
88.90	574.37	0.19	734.47	0.71	79.62
89.00	574.85	0.19	734.47	0.71	79.59
89.10	574.44	0.19	734.47	0.71	79.57
89.20	574.50	0.19	734.47	0.71	79.54
89.30	574.05	0.19	734.47	0.71	79.51
89.40	575.21	0.19	734.47	0.71	79.49
89.50	574.19	0.19	734.46	0.71	79.46
89.60	574.19	0.19	734.46	0.71	79.43
89.70	574.48	0.19	734.46	0.71	79.40
89.80	574.29	0.19	734.46	0.71	79.37
89.90	574.29	0.19	734.46	0.71	79.34
90.00	573.90	0.19	734.46	0.71	79.34
90.10	574.54	0.19	734.46	0.71	79.28
90.20	575.13	0.19	734.46	0.71	79.25
90.30	574.69	0.19	734.46	0.71	79.23
90.40	574.69	0.19	734.46	0.71	79.18
90.50	574.81	0.19	734.46	0.71	79.14
90.60		0.19		0.71	79.14
90.70	573.67 575.49	0.19	734.46 734.46	0.71	79.07
90.80 90.90	574.37 574.37	0.19 0.19	734.46	0.71 0.71	79.03 79.00
91.00		0.19	734.46		78.97
91.00	574.44 574.50	0.19	734.46 734.46	0.71 0.71	78.97 78.94
91.10	574.58	0.19	734.46	0.71	78.94
91.30	574.69	0.19			78.87
91.40		0.19	734.46	0.71 0.71	78.83
	573.58		734.46		
91.50	574.77	0.19	734.46	0.71	78.80
91.60	574.29	0.19	734.46 734.46	0.71	78.76
91.70	574.29	0.19		0.71	78.71
91.80	574.37	0.19	734.46	0.71	78.66
91.90	574.37	0.19	734.46	0.71	78.62
92.00	573.99	0.19	734.46	0.71	78.57
92.10	574.50	0.19	734.46	0.71	78.51
92.20	574.61	0.19	734.46	0.71	78.45
92.30	574.09	0.19	734.46	0.71	78.40
92.40	574.15	0.19	734.46	0.71	78.34
92.50	574.52	0.19	734.46	0.71	78.28
92.60	573.67	0.19	734.46	0.71	78.22
92.70	574.03	0.19	734.46	0.71	78.17
92.80	574.52	0.19	734.46	0.71	78.12
92.90	574.14	0.19	734.46	0.71	78.07
93.00	573.96	0.19	734.46	0.71	78.02
93.10	573.47	0.19	734.46	0.71	77.96

93.20	574.37	0.19	734.46	0.71	77.91
93.30	574.44	0.19	734.46	0.71	77.86
93.40	573.61	0.19	734.46	0.71	77.81
93.50	573.07	0.19	734.46	0.71	77.76
93.60	573.10	0.19	734.46	0.71	77.78
93.70	572.52	0.19	734.46	0.71	77.75
93.80	573.45	0.19	734.46	0.71	77.70
93.90	572.89	0.19	734.46	0.71	77.63
94.00	573.20	0.19	734.46	0.71	77.56
94.10	572.33	0.19	734.46	0.71	77.49
94.20	573.47	0.19	734.46	0.71	77.43
94.30	572.40	0.19	734.46	0.71	77.42
94.40	572.43	0.19	734.46	0.71	77.38
94.50	573.05	0.19	734.46	0.71	77.30
94.60	572.48	0.19	734.46	0.71	77.22
94.70	573.10	0.19	734.46	0.71	77.15
94.80	572.54	0.19	734.46	0.71	77.07
94.90	572.56	0.19	734.46	0.71	76.99
95.00	572.58	0.19	734.46	0.71	76.92
95.10	572.60	0.19	734.46	0.71	76.85
		0.19			
95.20	573.25		734.46	0.71	76.79
95.30	572.64	0.19	734.46	0.71	76.72
95.40	572.62	0.19	734.46	0.71	76.65
95.50	572.38	0.19	734.46	0.71	76.59
95.60	573.00	0.19	734.46	0.71	76.52
95.70	572.04	0.19	734.46	0.71	76.46
95.80	565.54	0.19	734.46	0.72	76.39
95.90	549.74	0.19	734.46	0.74	76.32
96.00	545.71	0.19	734.46	0.74	76.25
96.10	541.65	0.19	734.46	0.75	76.18
96.20	538.88	0.19	734.46	0.75	76.11
96.30	539.61	0.19	734.46	0.75	76.04
96.40	538.06	0.19	734.46	0.75	75.96
96.50	536.12	0.19	734.46	0.75	75.89
96.60	534.55	0.19	734.46	0.75	75.82
96.70	532.39	0.19	734.46	0.76	75.75
		0.19			
96.80	533.02		734.46	0.76	75.69
96.90	531.60	0.19	734.46	0.76	75.76
97.00	531.39	0.19	734.46	0.76	75.68
97.10	529.90	0.19	734.46	0.76	75.58
97.20	529.92	0.19	734.46	0.76	75.49
97.30	529.92	0.19	734.46	0.76	75.40
97.40	529.93	0.19	734.46	0.76	75.31
97.50	530.57	0.19	734.46	0.76	75.23
97.60	529.29	0.19	734.46	0.76	75.15
97.70	529.94	0.19	734.46	0.76	75.08
97.80	530.60	0.19	734.46	0.76	75.01
97.90	529.29	0.19	734.46	0.76	74.94
98.00	529.95	0.19	734.46	0.76	74.88
98.10	530.63	0.19	734.46	0.76	74.82
98.20	529.29	0.19	734.46	0.76	74.75
98.30	530.65	0.19	734.46	0.76	74.73
98.40	529.29	0.19	734.46	0.76	74.57
98.50	529.88	0.19	734.46	0.76	74.52
98.60	530.49	0.19	734.46	0.75	74.44
98.70	530.52	0.19	734.46	0.75	74.36
98.80	530.55	0.19	734.46	0.75	74.28
98.90	531.18	0.19	734.46	0.75	74.19
99.00	531.22	0.19	734.46	0.75	74.11

99.10	529.94	0.19	734.46	0.75	74.03
99.20	531.26	0.19	734.46	0.75	73.95
99.30	529.95	0.19	734.46	0.75	73.87
99.40	531.31	0.18	734.46	0.75	73.79
99.50	530.63	0.18	734.46	0.75	73.71
99.60	529.98	0.18	734.46	0.75	73.63
99.70	531.08	0.18	734.46	0.75	73.55
99.80	529.88	0.18	734.46	0.75	73.47
99.90	530.51	0.18	734.46	0.75	73.40
100.00	529.90	0.18	734.46	0.75	73.32

THE MAXIMUM DISCHARGE FROM CROSS SECTION 9 IS: 1092.42 CFS AT TIME: 62.02 HOURS

THE TOTAL VOLUME OF DISCHARGE IS: 5146.52 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO:

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
(11113)	()	()	(,,	(1.3)	(0.3)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00 0.00	0.00	0.00
3.70	0.00	0.00		0.00	0.00
3.80 3.90	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00

4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70 5.80	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00
5.90	0.00	0.00	0.00 0.00	0.00	0.00 0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	15.53	0.00	740.03	-0.01	-0.00
6.50	49.05	0.00	740.03	-0.03	-0.00
6.60	83.76	0.00	740.03	-0.01	-0.00
6.70	100.50	0.00	740.03	-0.01	-0.00
6.80	131.50	0.00	740.03	-0.00	-0.00
6.90	191.37	0.00	740.03	-0.00	-0.00
7.00	218.64	0.00	740.03	-0.00	-0.00
7.10	310.69	0.00	740.03	0.00	0.00
7.20	326.67	0.00	740.03	0.00	0.00
7.30	361.34	0.00	740.03	0.00	0.00
7.40	434.56	0.00	740.03	0.00	0.00
7.50	523.45	0.00	740.03	0.00	0.00
7.60	638.64	0.00	740.03	0.00	0.01
7.70	712.33	0.00	740.03	0.00	0.01
7.80 7.90	787.56	0.00	740.03	0.00	0.01 0.02
8.00	876.64 961.06	0.00 0.00	740.03 740.03	0.00 0.00	0.02
8.10	1069.09	0.01	740.03	0.00	0.03
8.20	1125.54	0.01	740.03	0.01	0.03
8.30	1248.22	0.01	740.03	0.01	0.04
8.40	1388.58	0.01	740.03	0.01	0.05
8.50	1511.66	0.01	740.03	0.01	0.07
8.60	1611.33	0.01	740.03	0.01	0.08
8.70	1668.62	0.01	740.03	0.01	0.08
8.80	1701.02	0.01	740.03	0.01	0.08
8.90	1763.02	0.01	740.04	0.01	0.09
9.00	1834.47	0.01	740.04	0.01	0.09
9.10	1922.68	0.01	740.04	0.01	0.11
9.20	1997.36	0.01	740.04	0.01	0.13
9.30	2065.75	0.01	740.04	0.01	0.15
9.40	2166.86	0.01	740.04	0.01	0.18
9.50	2283.13	0.01	740.04	0.01	0.21
9.60	2389.52	0.01	740.04	0.01	0.25
9.70	2452.94	0.01	740.04	0.01	0.28
9.80 9.90	2434.30 2434.30	0.02 0.02	740.04 740.04	0.01 0.01	0.31 0.34
10.00	2471.76	0.02	740.04	0.01	0.37
10.10	2560.36	0.02	740.04	0.01	0.42
10.20	2644.03	0.02	740.04	0.01	0.47
10.30	2663.59	0.02	740.05	0.01	0.53
10.40	2696.10	0.02	740.05	0.01	0.58
10.50	2780.74	0.02	740.05	0.01	0.65
	manus Tuta nana 1970			20-4 C-02-7 (T-02-1)	000 C.S.

10.60	2798.98	0.02	740.05	0.01	0.73
10.70	2891.60	0.03	740.05	0.01	0.83
10.80	2968.33	0.03	740.05	0.01	0.94
10.90	3006.01	0.03	740.06	0.01	1.07
11.00	3078.87	0.03	740.06	0.01	1.23
11.10	3156.36	0.03	740.06	0.01	1.40
11.20	3226.52	0.04	740.06	0.01	1.62
11.30	3287.85	0.04	740.06	0.02	1.87
11.40	3276.43	0.04	740.07	0.02	2.19
11.50	3271.34	0.04	740.07	0.02	2.56
11.60	3328.08	0.05	740.08	0.02	3.40
11.70	3433.07	0.06	740.09	0.02	4.97
11.80	3488.81	0.08	740.10	0.03	7.31
11.90	3565.12	0.11	740.13	0.04	13.83
12.00	3585.61	0.14	740.17	0.05	23.15
12.10	3585.89	0.17	740.20	0.05	32.06
12.20	3584.99	0.19	740.22	0.06	38.36
12.30	3545.73	0.22	740.24	0.07	50.43
12.40					
	3564.83	0.23	740.26	0.07	57.31
12.50	3588.26	0.24	740.27	0.07	64.16
12.60	3599.98	0.25	740.28	0.08	70.84
12.70	3599.98	0.26	740.29	0.08	75.73
12.80	3535.26	0.26	740.29	0.09	81.50
12.90	3524.97	0.27	740.29	0.09	85.89
13.00	3472.69	0.27	740.30	0.10	90.86
13.10	3481.42	0.27	740.30	0.10	96.34
13.20	3501.69	0.28	740.30	0.10	100.95
13.30	3486.77	0.28	740.30	0.11	105.37
13.40	3506.71	0.28	740.31	0.11	109.18
13.50	3501.69	0.28	740.31	0.11	112.39
13.60	3487.66	0.28	740.31	0.12	115.56
13.70	3510.91	0.29	740.31	0.12	119.22
13.80	3475.92	0.29	740.31	0.12	121.64
13.90	3470.69	0.29	740.31	0.12	123.86
14.00	3470.69	0.29	740.32	0.12	125.69
14.10	3470.69	0.29	740.32	0.13	127.67
14.20	3470.69	0.29	740.32	0.13	129.48
14.30	3470.69	0.29	740.32	0.13	131.17
14.40	3470.69	0.29	740.32	0.13	132.64
14.50	3470.69	0.30	740.32	0.13	134.32
14.60	3466.67	0.30	740.32	0.13	135.19
14.70	3462.94	0.30	740.32	0.13	136.99
14.80	3459.49	0.30	740.32	0.13	138.71
14.90	3455.90	0.30	740.33	0.14	140.18
15.00	3454.90	0.30	740.33	0.14	141.60
15.10	3467.21	0.30	740.33	0.14	143.06
15.20	3446.04	0.30	740.33	0.14	144.55
15.30	3441.98	0.30	740.33	0.14	146.07
15.40	3441.11	0.31	740.33	0.14	147.56
15.50	3432.27	0.31	740.33	0.14	149.06
15.60	3370.40	0.31	740.33	0.15	150.59
15.70	3370.69	0.31	740.33	0.15	152.24
15.80	3370.69	0.31	740.34	0.15	153.96
15.90	3370.11	0.31	740.34	0.15	155.71
16.00	3370.40	0.31	740.34	0.15	157.49
16.10	3381.53	0.31	740.34	0.15	159.01
16.20	3399.98	0.31	740.34	0.15	159.93
16.30	3399.98	0.32	740.34	0.15	161.23
16.40	3399.98	0.32	740.34	0.15	162.95

16.50	3399.98	0.32	740.34	0.15	164.81
16.60	3399.98	0.32	740.35	0.15	166.30
16.70	3399.98	0.32	740.35	0.15	168.39
16.80	3399.98	0.32	740.35	0.16	170.49
16.90	3399.98	0.32	740.35	0.16	172.62
17.00	3399.98	0.33	740.35	0.16	174.81
17.10	3399.98	0.33	740.35	0.16	176.90
17.20	3399.98	0.33	740.35	0.16	179.05
17.30	3399.98	0.33	740.36	0.16	181.50
17.40	3399.98	0.33	740.36	0.16	184.05
17.50	3388.62	0.33	740.36	0.17	186.66
17.60	3371.88	0.33	740.36	0.17	190.57
17.70	3369.44	0.34	740.36	0.17	192.41
17.70	3337.72	0.34	740.36	0.17	195.04
17.90	3330.12	0.34	740.37	0.18	198.05
18.00	3329.27	0.34	740.37	0.18	201.27
18.10	3329.27	0.34	740.37	0.18	204.75
18.20	3329.27	0.35	740.37	0.18	208.73
18.30	3333.50	0.35	740.37	0.18	212.64
18.40	3370.69	0.35	740.38	0.18	215.83
18.50	3370.99	0.35	740.38	0.19	219.61
18.60	3369.50	0.35	740.38	0.19	224.01
18.70	3368.88	0.36	740.38	0.19	228.05
18.80	3368.00	0.36	740.38	0.19	232.29
18.90	3361.33	0.36	740.39	0.20	237.05
19.00	3361.33	0.36	740.39	0.20	240.90
19.10	3360.23	0.37	740.39	0.20	246.85
19.20	3359.52	0.37	740.39	0.20	252.11
19.30	3360.12	0.37	740.40	0.21	257.77
19.40	3361.33	0.37	740.40	0.21	263.48
19.50	3362.45	0.38	740.40	0.21	268.67
19.60	3363.75	0.38	740.40	0.22	273.24
19.70	3365.26	0.38	740.41	0.22	279.43
19.80	3366.73	0.38	740.41	0.22	285.85
19.90	3367.97	0.38	740.41	0.23	292.38
20.00	3335.26	0.39	740.41	0.23	299.11
20.10	3302.10	0.39	740.41	0.24	303.98
20.20	3303.64	0.39	740.42	0.24	306.80
20.30	3309.74	0.39	740.42	0.24	313.04
20.40	3308.52	0.39	740.42	0.25	319.44
20.50	3304.86	0.40	740.42	0.25	326.01
20.60	3299.98	0.40	740.42	0.25	332.44
20.70	3300.84	0.40	740.43	0.26	339.09
20.80	3304.34	0.40	740.43	0.26	345.25
20.90	3304.85	0.40	740.43	0.26	351.84
21.00	3275.01	0.40	740.43	0.27	357.82
21.10	3275.05	0.41	740.43	0.27	363.97
21.20	3265.24	0.41	740.43	0.28	369.06
21.30	3248.87	0.41	740.44	0.28	377.28
21.40	3271.56	0.41	740.44	0.29	384.98
21.50	3262.98	0.41	740.44	0.29	392.69
21.60	3241.40	0.42	740.44	0.30	400.64
21.70	3248.80	0.42	740.45	0.30	407.09
21.80	3251.27	0.42	740.45	0.30	416.67
21.90	3252.19	0.43	740.45	0.31	426.35
22.00	3280.56	0.43	740.45	0.31	435.63
22.10	3259.92	0.43	740.46	0.32	445.71
22.20	3242.98	0.44	740.46	0.32	455.26
22.30	3224.37	0.44	740.46	0.33	465.98
22.50	3224.37	0.44	740.40	0.33	403.38

22.40	3205.30	0.44	740.47	0.34	477.02
22.50	3232.25	0.45	740.47	0.34	487.81
22.60	3237.39	0.45	740.47	0.34	498.91
22.70	3240.57	0.45	740.48	0.35	510.32
22.80	3244.56	0.46	740.48	0.35	521.45
22.90	3246.43	0.46	740.48	0.36	532.67
23.00	3246.43	0.46	740.49	0.36	544.20
23.10	3246.43	0.46	740.49	0.37	554.38
23.20	3246.43	0.47	740.49	0.37	565.57
23.30	3246.43	0.47	740.49	0.38	575.25
23.40	3246.43	0.48	740.50	0.38	586.63
23.50	3246.43	0.48	740.51	0.38	597.68
23.60	3246.43	0.48	740.51	0.39	608.62
23.70	3246.43	0.49	740.51	0.39	619.80
23.80	3246.43		740.51		
		0.49		0.40	631.00
23.90	3246.43	0.49	740.52	0.40	641.28
24.00	3246.43	0.50	740.52	0.40	651.43
24.10	3246.43	0.50	740.53	0.41	662.39
24.20	3246.43	0.50	740.53	0.41	672.65
24.30	3206.33	0.51	740.53	0.42	682.41
24.40	3230.84	0.51	740.53	0.42	691.59
24.50	3246.43	0.51	740.54	0.42	700.73
24.60	3242.65	0.51	740.54	0.43	709.70
24.70	3224.07	0.52	740.54	0.43	718.47
24.80	3212.41	0.52	740.54	0.44	726.99
24.90	3151.38	0.52	740.55	0.45	735.12
25.00	3146.43	0.52	740.55	0.45	742.86
25.10	3146.43	0.52	740.55	0.46	749.54
25.20	3146.43	0.52	740.55	0.46	756.12
25.30	3146.43	0.53	740.55	0.46	763.13
25.40	3124.78	0.53	740.55	0.47	769.38
25.50	3110.21	0.53	740.56	0.47	774.43
25.60	3103.45	0.53	740.56	0.47	780.47
25.70	3102.18	0.53	740.56	0.47	785.90
25.80	3100.45	0.54	740.56	0.48	792.19
25.90	3076.35	0.54	740.56	0.48	797.67
26.00	3033.38	0.54	740.56	0.49	803.10
26.10	3026.37	0.54	740.57	0.49	807.43
26.20	3004.72	0.54	740.57	0.50	812.39
26.30	2994.22	0.54	740.57	0.50	817.46
26.40	2993.58	0.54	740.57	0.51	821.97
26.50	2991.67	0.54	740.57	0.51	825.85
26.60	2990.43	0.54	740.57	0.51	830.16
26.70	2990.40	0.55	740.57	0.51	834.36
26.80	2988.49	0.55	740.57	0.51	838.42
26.90	2988.49	0.55	740.57	0.51	842.26
27.00	2988.49	0.55	740.57	0.52	845.80
27.10	2989.14	0.55	740.58	0.52	848.90
27.20	2976.78	0.55	740.58	0.52	851.90
27.30	2958.45	0.55	740.58	0.53	854.76
27.40	2957.54	0.55	740.58	0.53	857.84
27.50	2955.17	0.55	740.58	0.53	860.66
27.60	2954.36	0.55	740.58	0.53	863.26
27.70	2952.54	0.55	740.58	0.53	865.58
27.70	2951.63	0.55	740.58	0.53	867.69
27.80	2958.45	0.55	740.58	0.53	869.20
28.00	2978.03	0.55	740.58	0.53	871.40
28.10					
28.10	2948.20 2947.03	0.55	740.58	0.54	873.23 874.96
20.20	2341.03	0.55	740.58	0.54	0/4.90

28.30	2944.37	0.55	740.58	0.54	876.49
28.40	2943.03	0.55	740.58	0.54	878.22
28.50	2942.02	0.55	740.58	0.54	880.13
28.60	2939.55	0.55	740.58	0.54	881.28
28.70	2938.88	0.55	740.58	0.54	881.95
28.80	2936.18	0.55	740.58	0.54	882.63
28.90	2935.66	0.55	740.58	0.54	883.05
29.00	2931.17	0.55	740.58	0.54	883.80
29.10	2892.21	0.55	740.58	0.55	884.41
29.20	2858.05	0.55	740.58	0.56	885.20
29.30	2853.45	0.55	740.58	0.56	885.83
29.40	2851.41	0.55	740.58	0.56	885.94
29.50	2822.92	0.55	740.58	0.57	885.95
29.60	2778.65	0.55	740.58	0.58	885.91
29.70	2778.00	0.55	740.58	0.58	885.78
29.80	2777.67	0.55	740.58	0.58	885.58
29.90	2776.37	0.55	740.58	0.58	885.30
30.00	2777.67	0.55	740.58	0.58	884.94
30.10	2777.02	0.55	740.58	0.58	885.28
30.20	2777.02	0.55	740.57	0.58	884.60
30.30	2776.37	0.55	740.57	0.58	884.17
30.40	2759.27	0.55	740.57	0.59	883.10
30.50	2759.12	0.55	740.57	0.59	882.14
30.60	2759.45	0.55	740.57	0.59	881.27
30.70	2757.29	0.54	740.57	0.59	880.40
30.80	2757.82	0.54	740.57	0.59	879.43
30.90	2718.53	0.54	740.57	0.59	878.34
31.00	2715.75	0.54	740.57	0.60	877.22
31.10	2715.54	0.54	740.57	0.60	876.19
31.20	2717.19	0.54	740.57	0.60	875.12
31.30	2688.13	0.54	740.57	0.60	873.87
31.40	2673.79	0.54	740.57	0.60	872.42
31.50	2673.13	0.54	740.56	0.60	870.93
31.60	2673.46	0.54	740.56	0.60	869.46
31.70	2672.47	0.54	740.56	0.60	867.91
31.80	2651.47	0.54	740.56	0.61	866.29
31.90	2604.34	0.54	740.56	0.62	864.64
32.00	2585.56	0.53	740.56	0.62	863.02
32.10	2551.73	0.53	740.56	0.63	861.35
32.20	2550.73	0.53	740.56	0.63	859.18
32.30	2548.59	0.53	740.56	0.63	857.34
32.40	2546.80	0.53	740.56	0.63	855.59
32.50	2545.52	0.53	740.56	0.63	853.86
32.60	2544.69	0.53	740.55	0.63	851.91
32.70	2542.99	0.53	740.55	0.63	849.93
32.70	2543.41	0.53	740.55	0.63	847.99
32.90	2542.86	0.53	740.55	0.63	846.06
33.00	2542.38	0.52	740.55	0.63	843.95
33.10	2542.38	0.52	740.55	0.63	841.78
33.20	2542.67	0.52	740.55	0.63	839.83
33.30	2542.58	0.52	740.55	0.63	837.61
33.40	2542.58	0.52	740.55	0.63	835.38
33.50	2541.24	0.52	740.55	0.63	833.13
33.60	2542.01 2541.47	0.52	740.54 740.54	0.63	830.82
33.70	2516.86	0.52	740.54		828.60
				0.64	
33.80	2500.52	0.52	740.54	0.64	826.34
33.90	2492.55	0.51	740.54	0.64	824.06
34.00	2482.69	0.51	740.54	0.64	821.82
34.10	2483.30	0.51	740.54	0.64	819.67

34.20	2483.02	0.51	740.54	0.64	817.60
34.30	2481.04	0.51	740.54	0.64	815.44
34.40	2482.42	0.51	740.54	0.64	813.55
34.50	2481.59	0.51	740.53	0.64	810.87
34.60	2481.47	0.51	740.53	0.64	808.28
34.70	2455.40	0.51	740.53	0.65	805.83
34.80	2450.22	0.50	740.53	0.65	803.40
34.90	2451.49	0.50	740.53	0.65	800.97
35.00	2450.25	0.50	740.53	0.65	798.58
35.10	2450.25	0.50	740.53	0.65	796.17
35.20	2438.96	0.50	740.53	0.65	793.78
35.30	2417.25	0.50	740.53	0.66	791.54
35.40	2381.57	0.50	740.52	0.66	789.05
35.50	2377.06	0.50	740.52	0.67	786.59
35.60	2356.04	0.50	740.52	0.67	784.13
35.70	2355.66	0.49	740.52	0.67	781.66
35.80	2355.57	0.49	740.52	0.67	779.33
35.90	2354.77	0.49	740.52	0.67	776.84
36.00	2354.04	0.49	740.52	0.67	774.41
36.10	2353.61	0.49	740.52	0.67	772.09
36.20	2353.83	0.49	740.52	0.67	769.64
36.30	2352.86	0.49	740.51	0.67	767.19
36.40	2352.68	0.49	740.51	0.67	764.62
36.50	2352.46	0.49	740.51	0.67	762.02
36.60	2351.64	0.49	740.51	0.67	759.57
36.70	2338.53	0.48	740.51	0.67	757.40
36.80	2324.13	0.48	740.51	0.67	755.42
36.90	2321.84	0.48	740.51	0.67	752.62
37.00	2321.57 2321.57	0.48	740.51	0.67	750.04
37.10 37.20	2321.57	0.48 0.48	740.51 740.50	0.67 0.67	747.82 745.55
37.30	2319.98	0.48	740.50	0.67	743.03
37.40	2309.62	0.48	740.50	0.67	740.43
37.50	2298.41	0.48	740.50	0.68	737.98
37.60	2298.12	0.47	740.50	0.67	735.38
37.70	2298.21	0.47	740.50	0.67	732.78
37.70	2298.07	0.47	740.50	0.67	730.25
37.90	2286.40	0.47	740.50	0.68	727.97
38.00	2273.87	0.47	740.50	0.68	725.58
38.10	2266.52	0.47	740.49	0.68	723.18
38.20	2253.92	0.47	740.49	0.68	720.81
38.30	2253.58	0.47	740.49	0.68	718.48
38.40	2251.76	0.47	740.49	0.68	716.39
38.50	2251.30	0.46	740.49	0.68	714.12
38.60	2250.27	0.46	740.49	0.68	712.32
38.70	2247.65	0.46	740.49	0.68	709.95
38.80	2249.18	0.46	740.49	0.68	707.99
38.90	2246.14	0.46	740.49	0.69	706.47
39.00	2247.16	0.46	740.48	0.68	703.39
39.10	2243.64	0.46	740.48	0.68	700.74
39.20	2243.97	0.46	740.48	0.68	698.30
39.30	2242.33	0.45	740.48	0.68	695.91
39.40	2230.48	0.45	740.48	0.69	693.63
39.50	2201.07	0.45	740.48	0.69	691.36
39.60	2195.06	0.45	740.48	0.69	689.10
39.70	2174.56	0.45	740.48	0.70	687.00
39.80	2169.87	0.45	740.48	0.70	684.93
39.90	2170.69	0.45	740.48	0.70	682.84
40.00	2167.65	0.45	740.47	0.70	680.79

40.10	2166.66	0.45	740.47	0.70	678.76
40.20	2165.04	0.45	740.47	0.70	676.71
40.30	2165.35	0.45	740.47	0.70	674.69
40.40	2163.39	0.44	740.47	0.70	672.69
40.50	2134.18	0.44	740.47	0.71	670.80
40.60	2125.74	0.44	740.47	0.71	668.97
40.70	2089.24	0.44	740.47	0.72	666.98
40.80	2084.19	0.44	740.47	0.72	665.09
40.90	2083.26	0.44	740.47	0.72	663.31
41.00	2082.88	0.44	740.47	0.72	661.53
41.10	2075.71	0.44	740.46	0.73	659.77
41.20	2039.86	0.44	740.46	0.74	658.03
41.30	2040.12	0.44	740.46	0.74	656.47
41.40	2037.02	0.44	740.46	0.74	654.85
41.50	2018.23	0.44	740.46	0.74	653.08
41.60	2015.23	0.43	740.46	0.74	651.37
41.70	2013.77	0.43	740.46	0.74	649.80
41.80	2012.60	0.43	740.46	0.74	648.62
41.90	1969.18	0.43	740.46	0.76	647.01
42.00	1936.76	0.43	740.46	0.77	645.35
42.10	1936.24	0.43	740.46	0.77	643.81
42.20	1934.19	0.43	740.46	0.77	642.31
42.30	1910.54	0.43	740.46	0.78	640.84
42.40	1869.56	0.43	740.45	0.80	639.49
42.50	1863.05	0.43	740.45	0.80	638.15
42.60	1862.93	0.43	740.45	0.80	636.88
42.70	1860.22	0.43	740.45	0.80	635.62
42.80	1859.32	0.43	740.45	0.80	634.38
42.90	1857.27	0.43	740.45	0.80	633.17
43.00	1856.60	0.43	740.45	0.80	631.98
43.10	1855.70	0.42	740.45	0.80	630.82
43.20	1854.69	0.42	740.45	0.80	629.98
43.30	1853.30	0.42	740.45	0.80	628.77
43.40	1851.00	0.42	740.45	0.80	627.61
43.50	1850.86	0.42	740.45	0.80	626.64
43.60	1846.16	0.42	740.45	0.80	625.71
43.70	1838.11	0.42	740.45	0.81	624.79
43.80	1837.74	0.42	740.45	0.81	623.89
43.90	1832.08	0.42	740.45	0.81	622.91
44.00	1838.96	0.42	740.45	0.81	622.28
44.10	1839.19	0.42	740.45	0.81	621.55
44.20	1837.13	0.42	740.44	0.81	621.03
44.30	1832.86	0.42	740.44	0.81	620.36
44.40	1825.82	0.42	740.44	0.81	619.62
44.50	1791.45	0.42	740.44	0.83	619.03
44.60	1778.19	0.42	740.44	0.83	618.49
44.70	1778.67	0.42	740.44	0.83	618.03
44.80	1777.01	0.42	740.44	0.84	617.58
44.90	1775.23	0.42	740.44	0.84	617.32
45.00	1776.19	0.42	740.44	0.84	617.05
45.10	1773.96	0.42	740.44	0.84	616.58
45.20	1774.84	0.41	740.44	0.84	616.34
45.30	1773.90	0.41	740.44	0.84	616.16
45.40	1774.34	0.41	740.44	0.84	616.00
45.50	1773.36	0.41	740.44	0.84	615.92
45.60	1771.95	0.41	740.44	0.84	615.89
45.70	1770.38	0.41	740.44	0.84	615.92
45.80	1770.55	0.41	740.44	0.84	616.21
45.90	1771.57	0.41	740.44	0.84	616.26

46.00	1770.44	0.41	740.44	0.84	616.35
46.10	1771.47	0.41	740.44	0.84	616.62
46.20	1770.73	0.41	740.44	0.84	616.92
46.30	1771.12	0.41	740.44	0.84	617.28
46.40	1771.78	0.41	740.44	0.84	617.72
46.50	1770.08	0.41	740.44	0.85	618.58
46.60	1771.81	0.41	740.44	0.85	618.91
46.70	1770.49	0.41	740.44	0.85	619.43
46.80	1771.62	0.41	740.44	0.85	620.10
46.90	1771.31	0.41	740.44	0.85	620.86
47.00	1770.73	0.41	740.44	0.85	621.66
47.10	1771.52	0.41	740.44	0.85	622.57
47.20	1770.51	0.41	740.44	0.85	623.53
47.30	1772.13	0.41	740.44	0.85	624.79
47.40	1769.08	0.41	740.44	0.85	625.90
47.50	1769.36	0.41	740.44	0.85	626.96
47.60	1768.07	0.41	740.44	0.86	628.08
47.70	1768.87	0.42	740.44	0.86	629.43
47.80	1767.60	0.42	740.44	0.86	630.82
47.90	1768.89	0.42	740.44	0.86	632.27
48.00	1768.52	0.42	740.44	0.86	633.93
48.10	1767.92	0.42	740.44	0.86	635.78
48.20	1768.16	0.42	740.44	0.86	637.30
48.30	1768.42	0.42	740.44	0.87	639.00
48.40	1768.69	0.42	740.44	0.87	640.70
48.50	1767.52	0.42	740.44	0.87	642.72
48.60	1756.70	0.42	740.45	0.88	644.73
48.70	1740.67	0.42	740.45	0.89	646.86
48.80	1744.11	0.42	740.45	0.89	648.98
48.90	1705.83	0.42	740.45	0.91	651.34
49.00	1700.32	0.42	740.45	0.91	653.78
49.10	1717.67	0.42	740.45	0.90	656.09
49.20 49.30	1727.17	0.42 0.42	740.45	0.90 0.90	658.52
49.40	1726.73 1725.36	0.42	740.45 740.45	0.91	661.10 663.78
49.50	1726.07	0.43	740.45	0.91	666.48
49.60	1727.29	0.43	740.45	0.91	669.26
49.70	1725.59	0.43	740.45	0.91	672.43
49.80	1725.59	0.43	740.45	0.91	675.39
49.90	1726.91	0.43	740.46	0.92	678.38
50.00	1726.30	0.43	740.46	0.92	681.51
50.10	1722.25	0.44	740.46	0.91	684.75
50.20	1713.32	0.46	740.48	0.88	688.02
50.30	1710.85	0.46	740.49	0.88	691.49
50.40	1711.63	0.46	740.49	0.89	695.19
50.50	1711.19	0.46	740.49	0.88	698.62
50.60	1711.80	0.46	740.49	0.89	702.01
50.70	1709.37	0.46	740.49	0.89	705.53
50.80	1710.49	0.47	740.49	0.89	709.32
50.90	1685.15	0.47	740.50	0.90	713.24
51.00	1683.02	0.47	740.49	0.91	717.21
51.10	1681.81	0.47	740.50	0.91	720.23
51.20	1681.40	0.47	740.50	0.92	724.32
51.30	1680.73	0.48	740.50	0.91	728.21
51.40	1681.90	0.48	740.50	0.91	731.06
51.50	1680.21	0.48	740.50	0.92	736.74
51.60	1680.07	0.48	740.51	0.92	741.20
51.70	1679.60	0.48	740.51	0.92	744.74
51.80	1680.48	0.49	740.51	0.92	750.56

51.90	1678.51	0.49	740.52	0.92	755.58
52.00	1679.10	0.49	740.52	0.92	760.14
52.10	1679.38	0.49	740.52	0.93	764.22
52.20	1677.57	0.49	740.52	0.93	769.23
52.30	1678.81	0.50	740.52	0.93	774.53
52.40	1661.20	0.50	740.53	0.94	779.53
52.50	1650.97	0.50	740.53	0.95	784.82
52.60	1650.48	0.50	740.53	0.95	790.67
52.70	1648.08	0.51	740.53	0.96	795.89
52.80	1649.30	0.51	740.54	0.96	800.39
52.90	1646.61	0.51	740.54	0.96	805.71
53.00	1645.50	0.51	740.54	0.96	811.24
53.10	1646.06	0.51	740.54	0.97	816.77
53.20	1644.43	0.52	740.54	0.97	822.54
53.30	1642.53	0.52	740.55	0.97	828.56
53.40	1641.78	0.52	740.55	0.98	834.10
53.50	1641.95	0.52	740.55	0.98	839.09
53.60	1640.86	0.53	740.55	0.98	845.07
53.70	1639.04	0.53	740.55	0.98	850.80
53.80	1635.60	0.53	740.56	0.99	856.70
53.90	1633.45	0.53	740.56	0.99	862.54
54.00	1632.91	0.54	740.56	0.99	868.35
54.10	1670.10	0.54	740.56	0.98	873.97
54.20	1656.93	0.54	740.57	0.98	879.16
54.30	1631.79	0.54	740.57	1.00	882.90
54.40	1665.73	0.55	740.57	0.97	888.52
54.50	1671.23	0.55	740.58	0.97	895.09
54.60	1668.58	0.55	740.58	0.98	901.53
54.70	1670.28	0.55	740.58	0.98	906.60
54.80	1669.70	0.56	740.58	0.99	912.13
54.90	1659.31	0.56	740.59	0.99	917.46
55.00	1628.10	0.56	740.59	1.01	922.65
55.10	1618.96	0.56	740.59	1.02	928.05
55.20	1604.22	0.56	740.59	1.03	932.49
55.30	1603.44	0.57	740.59	1.03	938.10
55.40	1603.04	0.57	740.59	1.04	943.24
55.50	1603.21	0.57	740.60	1.04	947.71
55.60	1603.24	0.57	740.60	1.04	952.32
55.70	1650.94	0.57	740.60	1.01	957.19
55.80	1658.77	0.57	740.60	1.01	961.76
55.90	1660.51	0.58	740.60	1.01	966.51
56.00	1697.27	0.58	740.60	0.99	969.93
56.10	1697.62	0.58	740.61	0.99	975.33
56.20	1703.70	0.58	740.60	1.00	979.70
56.30	1707.55	0.57	740.60	1.01	983.89
56.40	1707.38	0.57	740.60	1.02	987.90
56.50	1706.87	0.57	740.60	1.02	991.72
56.60	1707.12	0.57	740.60	1.02	995.54
56.70	1706.76	0.58	740.60	1.02	999.14
56.80	1707.38	0.58	740.60	1.02	1002.69
56.90	1696.27	0.58	740.60	1.03	1006.20
57.00	1694.69	0.58	740.61	1.03	1009.67
57.10	1691.78	0.58	740.61	1.03	1013.04
57.20 57.30	1689.94 1680.32	0.58 0.59	740.61	1.03	1016.27
57.30 57.40	1677.13	0.59 0.58	740.61 740.61	1.04 1.05	1019.44 1022.70
57.40	1677.13	0.58 0.59	740.61	1.05	1025.87
57.60	1679.32	0.59	740.61	1.04	1028.54
57.70	1702.35	0.59	740.61	1.03	1031.08
37.10	1/02.33	0.53	740.02	1.03	1031.00

57.80	1711.79	0.59	740.62	1.02	1033.73
57.90	1676.55	0.59	740.62	1.04	1036.23
58.00	1664.74	0.59	740.62	1.05	1038.68
58.10	1658.38	0.59	740.62	1.06	1041.04
58.20	1647.93	0.60	740.62	1.07	1043.65
58.30	1650.00	0.60	740.62	1.06	1045.79
58.40	1639.44	0.60	740.62	1.07	1047.75
58.50	1631.66	0.60	740.63	1.08	1049.63
58.60	1626.37	0.60	740.63	1.08	1051.59
58.70	1619.91	0.60	740.63	1.08	1053.35
58.80	1625.24	0.60	740.63	1.08	1055.14
58.90	1614.59	0.60	740.63	1.09	1056.79
59.00	1619.16	0.60	740.63	1.09	1058.46
59.10	1620.05	0.61	740.63	1.08	1060.12
59.20	1616.64	0.60	740.63	1.09	1062.16
59.30	1616.66	0.61	740.63	1.09	1063.62
59.40	1614.22	0.61	740.63	1.09	1064.96
59.50	1612.46	0.61	740.63	1.09	1066.35
59.60	1609.23	0.61	740.63	1.09	1067.66
59.70	1611.78	0.61	740.63	1.09	1069.00
59.80	1608.82	0.61	740.63	1.10	1070.32
59.90	1607.47	0.61	740.64	1.09	1071.67
60.00	1611.13	0.61	740.64	1.10	1073.00
60.10	1606.33	0.61	740.64	1.10	1074.42
60.20	1607.74	0.61	740.64	1.09	1075.85
60.30	1606.75	0.61	740.64	1.10	1077.40
60.40	1604.60	0.62	740.64	1.10	1078.80
60.50	1624.02	0.62	740.64	1.08	1080.42
60.60	1642.44	0.62	740.64	1.07	1082.09
60.70	1641.76	0.62	740.64	1.07	1083.49
60.80	1638.69	0.62	740.65	1.07	1084.71
60.90	1640.73	0.62	740.65	1.07	1085.73
61.00	1638.23	0.62	740.65	1.07	1086.60
61.10	1638.72	0.62	740.65	1.07	1087.33
61.20	1638.72	0.62	740.65	1.07	1088.25
61.30	1639.29	0.62	740.65	1.07	1089.09
61.40	1655.49	0.62	740.65	1.06	1089.50
61.50	1679.33	0.63	740.65	1.04	1090.09
61.60	1709.04	0.62	740.65	1.02	1090.57
61.70	1708.78	0.63	740.65	1.02	1091.04
61.80	1732.61	0.63	740.65	1.01	1091.47
61.90	1767.36	0.63	740.65	0.99	1091.81
62.00	1766.58	0.63	740.65	0.99	1092.09
62.10	1768.33	0.63	740.65	0.99	1092.29
62.20	1766.68	0.63	740.66	0.98	1091.71
62.30	1769.49	0.64	740.67	0.97	1091.59
62.40	1769.32	0.64	740.67	0.96	1091.27
62.50	1770.28	0.64	740.67	0.96	1091.13
62.60	1769.61	0.64	740.67	0.96	1090.75
62.70	1771.37	0.64	740.67	0.96	1089.76
62.80	1769.43	0.65	740.67	0.96	1089.95
62.90	1771.01	0.64	740.67	0.96	1089.69
63.00	1771.50	0.65	740.67	0.95	1088.82
63.10	1774.42	0.64	740.67	0.96	1088.41
63.20	1768.42	0.65	740.67	0.96	1088.10
63.30	1769.62	0.65	740.67	0.95	1087.39
63.40	1768.05	0.65	740.67	0.95	1086.69
63.50	1769.37	0.65	740.67	0.95	1085.71
63.60	1772.05	0.65	740.67	0.95	1084.72

63.70	1770.08	0.65	740.67	0.95	1084.14
63.80	1773.47	0.64	740.67	0.95	1083.39
63.90	1767.28	0.65	740.67	0.95	1082.58
64.00	1766.63	0.65	740.67	0.95	1081.66
64.10	1770.07	0.64	740.67	0.95	1080.73
64.20	1767.77	0.65	740.67	0.95	1079.56
64.30	1771.24	0.65	740.67	0.95	1078.54
64.40	1800.99	0.65	740.67	0.93	1077.57
64.50	1806.29	0.64	740.67	0.93	1076.38
64.60	1843.64	0.65	740.67	0.90	1075.02
64.70	1871.76	0.65	740.67	0.89	1073.74
64.80	1874.42	0.65	740.67	0.89	1072.45
64.90	1868.15	0.65	740.67	0.89	1070.94
65.00	1871.55	0.64	740.67	0.89	1069.60
65.10	1876.59	0.65	740.67	0.88	1068.27
65.20	1879.87	0.64	740.67	0.88	1066.93
65.30	1873.84	0.65	740.67	0.88	1065.57
65.40	1861.11	0.65	740.67	0.89	1064.01
65.50	1874.80	0.64	740.67	0.88	1062.49
65.60	1935.14	0.65	740.67	0.85	1060.84
65.70	1928.46	0.65	740.67	0.85	1058.98
65.80	1955.80	0.64	740.67	0.84	1057.52
65.90	1952.71	0.65	740.67	0.84	1056.04
66.00	1933.36	0.65	740.67	0.85	1054.40
66.10	1916.97	0.64	740.67	0.85	1052.65
66.20	1910.75	0.64	740.67	0.86	1050.93
66.30	1918.02	0.65	740.67	0.85	1049.05
66.40	1902.99	0.65	740.67	0.86	1047.01
66.50	1911.15	0.64	740.67	0.85	1045.21
66.60	1915.90	0.65	740.67	0.85	1043.34
66.70	1939.66	0.64	740.67	0.84	1041.71
66.80	1926.84	0.64	740.67	0.84	1039.80
66.90	1930.47	0.64	740.67	0.84	1037.90
67.00	1929.26	0.64	740.67	0.84	1035.80
67.10	1924.46	0.64	740.67	0.84	1033.63
67.20	1928.29	0.64	740.67	0.84	1031.63
67.30	1954.70	0.64	740.67	0.82	1029.61
67.40	1970.58	0.64	740.67	0.82	1027.51
67.50	1979.89	0.64	740.67	0.81	1027.31
67.60	1982.27	0.64	740.66	0.81	1023.48
				0.81	
67.70	1987.98	0.64	740.67		1021.47
67.80	1984.63	0.64	740.66	0.81	1018.94
67.90	1970.88	0.64	740.66	0.81	1016.78
68.00	1981.98	0.64	740.66	0.81	1014.35
68.10	1993.84	0.64	740.66	0.80	1012.33
68.20	1986.37	0.63	740.66	0.81	1010.25
68.30	1993.45	0.64	740.66	0.80	1007.82
68.40	1995.46	0.63	740.66	0.80	1005.59
68.50	1992.86	0.63	740.66	0.80	1003.76
68.60	1991.93	0.63	740.66	0.80	1001.14
68.70	1992.56	0.63	740.66	0.80	998.71
68.80	1992.16	0.63	740.66	0.80	996.28
68.90	1992.24	0.63	740.66	0.80	993.88
69.00	2005.74	0.63	740.65	0.79	991.70
69.10	2000.10	0.63	740.65	0.79	989.45
69.20	1992.57	0.63	740.65	0.79	986.92
69.30	1991.97	0.63	740.65	0.79	984.31
69.40	1991.74	0.63	740.65	0.79	981.81
69.50	1990.01	0.62	740.65	0.79	979.56
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69.60	1992.74	0.62	740.65	0.79	977.05
69.70	2006.79	0.62	740.65	0.78	974.59
69.80	2019.61	0.62	740.65	0.78	972.24
69.90	2020.05	0.62	740.65	0.78	970.00
70.00	2020.40	0.62	740.64	0.78	967.35
70.10	2021.48	0.62	740.64	0.77	964.76
70.20	2019.72	0.62	740.64	0.77	962.31
70.30	2021.41	0.62	740.64	0.77	959.80
70.40	2022.03	0.61	740.64	0.77	957.42
70.50	2019.08	0.61	740.64	0.77	954.96
70.60	1992.32	0.61	740.64	0.78	952.62
70.70	1992.41	0.61	740.64	0.78	950.24
70.80	1991.84	0.61	740.64	0.78	947.79
70.90	1976.44	0.61	740.64	0.79	945.70
71.00	1962.68	0.61	740.63	0.79	943.11
71.10	1962.75	0.61	740.63	0.79	940.63
71.20	1963.14	0.61	740.63	0.79	938.09
71.30	1963.18	0.61	740.63	0.79	935.61
71.40	1962.75	0.60	740.63	0.79	933.49
71.50	1999.04	0.60	740.63	0.77	930.85
71.60	2004.01	0.60	740.63	0.77	928.67
71.70	2004.05	0.60	740.63	0.77	926.16
71.80	2004.09	0.60	740.63	0.77	923.09
71.90	2004.13	0.60	740.62	0.77	920.46
72.00	2003.62	0.60	740.62	0.77	918.04
72.10	2003.02	0.60	740.62	0.77	915.44
72.10	2004.21	0.60	740.62	0.77	913.10
72.30	2003.73	0.59	740.62	0.77	910.50
72.40	2003.89	0.59	740.62	0.76	907.91
72.50	2003.43	0.59	740.62	0.76	905.61
72.60	2004.05	0.59	740.62	0.76	903.57
72.70	2002.86	0.59	740.62	0.76	900.67
72.80	2003.62	0.59	740.62	0.76	898.23
72.90	2004.21	0.59	740.61	0.76	895.43
73.00	2003.75	0.59	740.61	0.76	892.90
73.10	2003.70	0.59	740.61	0.76	890.31
73.20	2003.93	0.59	740.61	0.76	887.84
73.30	2042.47	0.58	740.61	0.74	885.52
73.40	2044.12	0.58	740.61	0.74	883.04
73.50	2045.78	0.58	740.61	0.74	880.61
73.60	2044.59	0.58	740.61	0.74	878.31
73.70	2004.29	0.58	740.61	0.75	875.96
73.80	2004.06	0.58	740.61	0.75	873.55
73.90	2004.17	0.58	740.61	0.75	871.22
74.00	2004.49	0.58	740.60	0.75	868.77
74.10	2034.27	0.58	740.60	0.74	867.17
74.20	2024.88	0.58	740.60	0.74	864.31
74.30	1996.21	0.58	740.60	0.75	861.57
74.40	1946.96	0.57	740.60	0.77	859.17
74.50	1946.48	0.57	740.60	0.77	857.12
74.60	2000.45	0.57	740.60	0.75	854.60
74.70	2001.67	0.57	740.60	0.74	852.09
74.80	2001.57	0.57	740.60	0.74	849.56
74.90	1996.67	0.57	740.60	0.75	847.11
75.00	2003.59	0.57	740.60	0.74	845.52
75.10	2000.48	0.57	740.60	0.74	843.25
75.20	1997.62	0.57	740.59	0.74	840.78
75.30	1995.24	0.57	740.59	0.74	838.18
75.40	1995.99	0.57	740.59	0.74	836.03
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75.50	1994.15	0.57	740.59	0.74	834.17
75.60	1992.93	0.56	740.59	0.74	830.91
75.70	1994.05	0.56	740.59	0.74	828.24
75.80	1997.18	0.56	740.59	0.74	825.90
75.90	2000.37	0.56	740.59	0.74	823.60
76.00					
	2001.99	0.56	740.58	0.74	821.11
76.10	1999.47	0.56	740.59	0.73	818.72
76.20	2001.56	0.56	740.58	0.73	816.72
76.30	1999.19	0.56	740.58	0.73	814.92
76.40	1997.90	0.56	740.58	0.73	812.84
76.50	2000.25	0.56	740.58	0.73	810.94
76.60	2008.53	0.55	740.58	0.73	808.42
76.70	2000.33	0.55	740.58	0.73	805.85
76.80	1998.11	0.55	740.58	0.73	803.43
76.90	1998.46	0.55	740.58	0.73	801.15
77.00	1997.11	0.55	740.58	0.73	798.90
77.10	2004.36	0.55	740.57	0.73	797.79
77.20	2022.65	0.55	740.57	0.72	794.77
77.30	2020.38	0.55	740.57	0.72	792.20
77.40	2019.05	0.55	740.57	0.72	789.86
77.50	2020.09	0.54	740.57	0.72	787.63
77.60	2019.78	0.54	740.57	0.72	785.40
77.70	2018.42	0.54	740.57	0.72	783.46
77.80	2020.67	0.54	740.57	0.72	781.32
77.90	2017.78	0.54	740.56	0.72	778.90
78.00	1999.96	0.54	740.57	0.72	776.64
78.10	1959.08	0.54	740.56	0.74	774.35
78.20	1952.05	0.54	740.56	0.74	772.07
78.30	1957.93	0.54	740.56	0.73	770.15
78.40	1954.88	0.54	740.56	0.73	768.09
78.50	1955.97	0.53	740.56	0.73	765.88
78.60	1956.69	0.53	740.56	0.73	763.75
78.70	1959.98	0.53	740.56	0.73	761.79
78.80	1969.45	0.53	740.56	0.73	760.15
78.90	1952.56	0.53	740.56	0.73	757.81
79.00	1953.99	0.53	740.56	0.73	755.75
79.10	1958.10	0.53	740.55	0.73	753.48
79.20	1959.18	0.53	740.55	0.73	751.23
79.30	1953.82	0.53	740.55	0.73	749.11
79.40	1951.25	0.53	740.55	0.73	746.93
79.50	1945.34	0.52	740.55	0.73	745.23
79.60	1948.27	0.52	740.55	0.73	743.23
79.70	1945.91	0.52	740.55	0.73	741.25
79.80	1952.77	0.52	740.55	0.73	739.07
79.90	1948.64	0.52	740.55	0.73	736.76
80.00	1943.28	0.52	740.55	0.73	734.37
80.10	1941.21	0.52	740.54	0.73	732.03
80.20	1936.33	0.52	740.54	0.73	729.91
80.30	1907.03	0.52	740.54	0.74	727.73
80.40	1905.51	0.52	740.54	0.74	725.62
80.50	1906.29	0.51	740.54	0.74	723.52
80.60	1914.38	0.51	740.54	0.74	721.73
80.70	1910.27	0.51	740.54	0.73	719.64
80.80	1906.32	0.51	740.53	0.74	717.80
80.90	1896.76	0.51	740.54	0.74	715.70
81.00	1887.67	0.51	740.54	0.74	713.57
81.10	1886.21	0.51	740.53	0.75	712.16
81.20	1881.10	0.51	740.53	0.74	709.51
81.30	1880.75	0.51	740.53	0.74	707.34
01.50	1000.75	0.51	740.33	0.74	707.54

81.40	1899.99	0.51	740.53	0.74	706.65
81.50	1898.47	0.50	740.53	0.74	703.55
81.60	1872.77	0.50	740.53	0.75	701.31
81.70	1869.26	0.50	740.53	0.75	699.03
81.80	1871.79	0.50	740.53	0.75	696.76
81.90	1869.04	0.50	740.52	0.75	694.52
82.00	1868.45	0.50	740.52	0.75	692.40
82.10	1863.92	0.50	740.52	0.75	690.30
82.20	1863.33	0.50	740.52	0.75	688.16
82.30	1864.16	0.50	740.52	0.74	686.34
82.40	1863.31	0.49	740.52	0.75	684.31
		0.49	740.52	0.74	682.30
82.50	1861.25				
82.60	1860.58	0.49	740.52	0.74	680.32
82.70	1862.10	0.49	740.52	0.74	678.34
82.80	1837.79	0.49	740.52	0.75	676.37
82.90	1831.72	0.49	740.52	0.75	674.38
83.00	1831.24	0.49	740.51	0.75	672.38
83.10	1831.04	0.49	740.51	0.75	670.48
83.20	1831.33	0.49	740.51	0.75	668.58
83.30	1830.83	0.49	740.51	0.75	666.67
83.40	1833.30	0.49	740.51	0.75	665.05
83.50	1808.09	0.49	740.51	0.76	663.07
83.60	1788.70	0.48	740.51	0.77	661.12
83.70	1789.21	0.48	740.51	0.76	659.23
83.80	1787.88	0.48	740.51	0.76	657.34
83.90	1789.75	0.48	740.51	0.76	655.47
84.00	1784.96	0.48	740.51	0.76	653.72
84.10	1787.69	0.48	740.51	0.76	651.93
84.20	1770.64	0.48	740.51	0.77	650.30
84.30	1758.56	0.48	740.50	0.77	648.46
84.40	1756.90	0.48	740.50	0.77	646.61
84.50	1757.95	0.48	740.50	0.77	644.68
84.60	1750.21	0.48	740.50	0.77	642.85
84.70	1744.65	0.47	740.50	0.78	641.08
84.80	1699.95	0.48	740.50	0.79	639.32
84.90	1696.87	0.47	740.50	0.80	637.55
85.00	1695.02	0.47	740.50	0.79	635.77
85.10	1693.06	0.47	740.50	0.80	634.04
85.20	1689.83	0.47	740.50	0.79	632.39
85.30	1690.12	0.47	740.50	0.80	630.84
85.40	1685.51	0.47	740.50	0.79	629.02
85.50	1684.51	0.47	740.49	0.80	627.13
85.60	1680.69	0.47	740.49	0.80	625.45
85.70	1679.63	0.47	740.49	0.80	623.77
85.80	1679.15	0.46	740.49	0.80	622.14
85.90	1675.16	0.47	740.49	0.80	620.43
86.00	1675.82	0.46	740.49	0.80	618.87
86.10	1673.73	0.46	740.49	0.80	617.24
86.20	1672.55	0.46	740.49	0.79	615.44
86.30	1672.40	0.46	740.49	0.80	613.70
86.40	1672.38	0.46	740.49	0.80	612.00
86.50	1672.52	0.46	740.49	0.79	610.35
86.60	1673.21	0.46	740.49	0.79	608.68
86.70	1673.21	0.46	740.49	0.79	607.07
86.80	1673.51	0.46	740.49	0.79	605.49
86.90	1672.63	0.46	740.48	0.79	603.94
87.00	1660.88	0.46	740.48	0.80	602.65
87.10		0.45	740.48	0.80	600.78
	1647.49				
87.20	1647.18	0.45	740.48	0.80	599.07

87.30	1644.34	0.45	740.48	0.80	597.46
87.40	1645.61	0.45	740.48	0.80	595.86
87.50	1647.48	0.45	740.48	0.80	594.24
87.60	1646.10	0.45	740.48	0.80	592.60
87.70	1649.20	0.45	740.48	0.80	590.98
87.80	1644.66	0.45	740.48	0.80	589.42
87.90	1648.89	0.45	740.48	0.80	588.19
88.00	1647.32	0.45	740.47	0.80	586.41
88.10	1646.75	0.45	740.47	0.79	584.78
88.20	1644.20	0.45	740.47	0.80	583.15
88.30	1646.85	0.45	740.47	0.79	581.54
88.40	1644.64	0.45	740.47	0.79	579.94
88.50	1646.68	0.44	740.47	0.79	578.32
88.60	1645.68	0.44	740.47	0.79	576.74
88.70	1644.52	0.44	740.47	0.79	575.13
88.80	1645.12	0.44	740.47	0.79	573.58
88.90	1644.53	0.44	740.47	0.79	571.98
89.00	1643.48	0.44	740.47	0.79	570.45
89.10	1645.26	0.44	740.47	0.79	569.03
89.20	1645.33	0.44	740.46	0.79	567.32
89.30	1631.44	0.44	740.46	0.80	566.64
89.40	1618.96	0.44	740.46	0.80	564.90
89.50	1594.11	0.44	740.46	0.81	563.21
89.60	1572.81	0.44	740.46	0.82	561.49
89.70	1578.09	0.43	740.46	0.82	559.93
89.80	1576.90	0.43	740.46	0.82	558.53
89.90 90.00	1577.46 1570.91	0.43 0.43	740.46 740.46	0.82 0.82	557.35 555.59
90.10	1550.89	0.43	740.46	0.83	553.85
90.20	1546.83	0.43	740.46	0.83	552.31
90.30	1545.94	0.43	740.46	0.83	550.81
90.40	1546.03	0.43	740.45	0.83	549.31
90.50	1545.98	0.43	740.45	0.83	547.79
90.60	1544.37	0.43	740.45	0.83	546.29
90.70	1544.65	0.43	740.45	0.83	544.82
90.80	1546.26	0.43	740.45	0.83	543.35
90.90	1546.21	0.43	740.45	0.82	541.86
91.00	1547.43	0.42	740.45	0.83	540.67
91.10	1546.91	0.42	740.45	0.82	539.06
91.20	1540.16	0.42	740.45	0.83	537.60
91.30	1507.40	0.42	740.45	0.84	536.07
91.40	1506.33	0.42	740.45	0.84	534.66
91.50	1506.05	0.42	740.45	0.84	533.21
91.60	1508.25	0.42	740.45	0.84	531.78
91.70	1507.10	0.42	740.45	0.84	530.36
91.80	1506.41	0.42	740.44	0.84	528.90
91.90	1507.02	0.42	740.44	0.84	527.47
92.00	1507.38	0.42	740.44	0.84	526.23
92.10	1507.74	0.42	740.44	0.84	524.78
92.20	1509.22	0.42	740.44	0.84	523.50
92.30	1508.58	0.41	740.44	0.84	522.25
92.40	1508.19	0.41	740.44	0.83	520.80
92.50	1507.96	0.41	740.44	0.83	519.30
92.60	1507.99	0.41	740.44	0.83	517.89
92.70	1505.24	0.41	740.44	0.83	516.44
92.80	1472.87	0.41	740.44	0.85	515.08
92.90	1473.23	0.41	740.44	0.85	513.98
93.00	1474.42	0.41	740.44	0.85	512.70
93.10	1471.63	0.41	740.44	0.85	511.25

93.20	1468.77	0.41	740.43	0.85	509.80
93.30	1467.72	0.41	740.43	0.85	508.37
93.40	1467.69	0.41	740.43	0.85	507.00
93.50	1468.07	0.41	740.43	0.85	505.62
93.60	1467.39	0.41	740.43	0.85	504.25
93.70	1444.25	0.40	740.43	0.86	502.87
93.80	1434.99	0.40	740.43	0.86	501.47
93.90					
	1424.76	0.40	740.43	0.87	500.08
94.00	1426.50	0.40	740.43	0.87	498.73
94.10	1424.83	0.40	740.43	0.87	497.60
94.20	1425.82	0.40	740.43	0.87	496.26
94.30	1419.74	0.40	740.43	0.87	494.98
94.40	1400.34	0.40	740.42	0.89	493.90
94.50	1402.24	0.40	740.42	0.88	492.75
94.60	1394.10	0.40	740.43	0.88	491.33
94.70	1388.74	0.40	740.42	0.89	489.95
94.80	1384.38	0.40	740.42	0.89	488.59
94.90	1377.12	0.40	740.42	0.89	487.37
95.00	1374.28	0.39	740.42	0.90	486.27
95.10	1368.60	0.40	740.42	0.90	484.50
95.20	1369.02	0.39	740.42	0.90	483.33
95.30	1367.48	0.39	740.42	0.90	482.06
95.40	1367.56	0.39	740.42	0.89	480.75
95.50	1366.81	0.39	740.42	0.90	479.51
95.60	1366.22	0.39	740.42	0.90	478.20
95.70	1364.26	0.39	740.42	0.90	476.92
95.80	1364.45	0.39	740.42	0.90	475.66
95.90	1363.31	0.39	740.42	0.89	474.42
96.00	1361.17	0.39	740.41	0.90	473.23
96.10	1360.56	0.39	740.41	0.89	472.02
96.20	1360.52	0.39	740.41	0.90	470.77
96.30	1358.32	0.39	740.41	0.89	469.46
96.40	1357.70	0.39	740.41	0.89	468.19
96.50	1360.45	0.38	740.41	0.89	466.94
96.60	1363.83	0.39	740.41	0.89	465.73
96.70	1365.37	0.38	740.41	0.89	464.58
96.80	1369.44	0.38	740.41	0.88	463.37
96.90	1372.88	0.38	740.41	0.88	462.19
97.00	1373.43	0.38	740.41	0.88	461.14
97.10	1378.06	0.38	740.41	0.87	459.97
97.20	1378.16	0.38	740.41	0.87	458.81
97.30	1377.22	0.38	740.41	0.87	457.69
97.40	1376.61	0.38	740.41	0.88	456.58
97.50	1375.05	0.38	740.41	0.87	455.43
97.60	1375.37	0.38	740.41	0.87	454.35
97.70	1373.72	0.38	740.40	0.87	453.22
97.80	1373.45	0.38	740.40	0.87	452.07
97.90	1371.62	0.38	740.40	0.87	451.12
98.00	1371.02	0.38	740.40	0.87	450.12
98.10	1369.75	0.38	740.40	0.87	448.98
98.20	1370.15	0.38	740.40	0.87	447.84
98.30 98.40	1367.21 1368.27	0.38 0.38	740.40 740.40	0.87 0.87	446.69 445.55
98.50	1368.32	0.37	740.40	0.87	444.38
98.60	1342.50	0.37	740.40	0.88	443.18
98.70	1337.49	0.37	740.40	0.89	441.99
98.80	1336.35	0.37	740.40	0.89	440.84
98.90	1335.20	0.37	740.40	0.89	439.71
99.00	1332.05	0.37	740.40	0.89	438.54

99.10	1332.68	0.37	740.40	0.89	437.39
99.20	1328.71	0.37	740.40	0.89	436.25
99.30	1328.65	0.37	740.40	0.88	435.07
99.40	1329.59	0.37	740.39	0.89	433.91
99.50	1328.25	0.37	740.39	0.89	432.82
99.60	1328.79	0.37	740.39	0.88	431.66
99.70	1328.63	0.37	740.39	0.88	430.64
99.80	1325.94	0.37	740.39	0.88	429.51
99.90	1326.37	0.37	740.39	0.88	428.35
100.00	1326.91	0.37	740.39	0.88	427.22

THE MAXIMUM DISCHARGE FROM CROSS SECTION 10 IS: 1216.76 CFS AT TIME: 56.58 HOURS

THE TOTAL VOLUME OF DISCHARGE IS: 4755.15 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 10

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

VLLOCI	T - AVENAGE	CROSS SECTION	VELOCITY (DASED	ON DISCHARGE	AND I LOW AREA)
TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
0.40					0.00
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00

4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70 5.80	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	9.05	0.00	740.30	0.00	0.00
6.90	51.33	0.00	740.30	0.01	0.00
7.00	82.84	0.00	740.30	0.01	0.00
7.10	113.63	0.00	740.30	0.01	0.00
7.20	153.55	0.00	740.30	0.01	0.01
7.30	182.84	0.00	740.30	0.01	0.01
7.40	270.71	0.00	740.30	0.01	0.01
7.50	353.49	0.00	740.30	0.01	0.01
7.60	515.26	0.00	740.30	0.01	0.02
7.70	629.60	0.00	740.30 740.30	0.01	0.02
7.80 7.90	731.37	0.00	740.30	0.01 0.01	0.03 0.03
8.00	868.15 942.23	0.00 0.00	740.30	0.01	0.04
8.10	1013.21	0.00	740.30	0.01	0.05
8.20	1068.64	0.00	740.30	0.01	0.06
8.30	1154.75	0.00	740.30	0.01	0.07
8.40	1176.21	0.01	740.30	0.01	0.08
8.50	1209.38	0.01	740.30	0.01	0.08
8.60	1283.25	0.01	740.30	0.01	0.10
8.70	1387.80	0.01	740.30	0.01	0.11
8.80	1454.79	0.01	740.30	0.01	0.12
8.90	1510.69	0.01	740.30	0.01	0.13
9.00	1582.29	0.01	740.30	0.01	0.14
9.10	1628.65	0.01	740.30	0.01	0.15
9.20	1693.64	0.01	740.30	0.01	0.16
9.30	1707.10	0.01	740.30	0.01	0.17
9.40	1707.10	0.01	740.30	0.01	0.19
9.50	1732.81	0.01	740.31	0.01	0.20
9.60	1801.29	0.01	740.31	0.01	0.22
9.70	1836.39	0.01	740.31	0.01	0.24
9.80	1836.39	0.01	740.31	0.01	0.25
9.90 10.00	1836.39 1836.39	0.01 0.01	740.31 740.31	0.01 0.01	0.27 0.29
10.10	1906.49	0.01	740.31	0.01	0.31
10.10	1952.78	0.01	740.31	0.01	0.33
10.30	2000.81	0.01	740.31	0.01	0.35
10.40	2071.05	0.01	740.31	0.01	0.38
10.50	2134.83	0.02	740.31	0.01	0.42

10.60	2153.54	0.02	740.31	0.01	0.44
10.70	2153.54	0.02	740.31	0.01	0.48
10.80	2179.85	0.02	740.31	0.01	0.50
10.90	2182.83	0.02	740.32	0.01	0.55
11.00	2202.90	0.02	740.32	0.01	0.60
11.10	2212.12	0.02	740.32	0.01	0.66
11.20	2239.22	0.02	740.32	0.01	0.73
11.30	2256.19	0.03	740.32	0.01	0.81
11.40	2292.32	0.03	740.32	0.01	0.91
11.50	2299.99	0.03	740.33	0.01	1.02
11.60	2329.69	0.04	740.33	0.02	1.40
11.70	2399.68	0.05	740.34	0.02	2.07
11.80	2437.54	0.06	740.35	0.02	3.02
11.90	2485.07	0.09	740.38	0.03	5.78
12.00	2404.93	0.12	740.41	0.03	8.78
12.10	2414.97	0.14	740.44	0.03	10.09
12.20	2467.54	0.16	740.46	0.03	10.45
12.30	2495.52	0.18	740.48	0.02	9.75
12.40	2460.52	0.21	740.50	0.01	6.42
12.50	2421.88	0.22	740.51	0.00	1.48
12.60	2459.82	0.21	740.51	-0.00	-1.58
12.70	2485.23	0.21	740.51	-0.01	-3.11
12.70	2499.19	0.22	740.51	-0.00	-2.68
12.90	2499.19	0.22	740.52	-0.00	-0.73
13.00	2475.29	0.24	740.54	0.00	1.89
13.10	2450.56	0.22	740.54	0.01	4.69
13.10	2419.47	0.22	740.51	0.01	5.88
13.30	2383.92	0.21	740.51	0.01	6.63
13.40	2384.73	0.22	740.51	0.02	8.61
13.50	2357.77	0.25	740.51	0.02	11.63
13.60	2333.54	0.26	740.55	0.02	14.85
13.70	2298.38	0.27	740.57	0.03	19.98
13.80	2317.50	0.31	740.61	0.03	24.85
13.90	2325.25	0.31	740.61	0.04	30.52
14.00	2282.50	0.32	740.61	0.05	35.13
14.10	2238.31	0.32	740.62	0.06	40.04
14.10	2240.98	0.33	740.62	0.06	44.78
14.20	2304.73	0.33	740.63	0.06	49.57
14.40	2312.12	0.34	740.63	0.07	54.27
14.50	2312.12	0.34	740.63	0.07	58.18
14.60	2318.15	0.34	740.64	0.08	62.40
14.70	2319.01	0.35	740.64	0.08	66.69
14.80	2312.12	0.35	740.65	0.09	70.69
14.90	2312.12	0.35	740.65	0.09	74.70
15.00	2312.12	0.36	740.65	0.09	78.31
15.10	2290.66	0.36	740.66	0.10	81.64
15.20	2311.54	0.36	740.66	0.10	85.30
15.30	2312.12	0.37	740.66	0.10	88.57
15.40	2312.12	0.37	740.66	0.11	91.91
15.50	2312.12	0.37	740.67	0.11	95.38
15.60	2312.12	0.37	740.67	0.11	98.55
15.70	2312.12	0.37	740.67	0.12	101.44
15.80	2312.12	0.37	740.67	0.12	104.20
15.90	2312.12	0.38	740.67	0.12	106.93
16.00	2312.12	0.38	740.67	0.13	109.35
16.10	2312.12	0.38	740.67	0.13	111.73
16.20	2312.12	0.38	740.68	0.13	114.00
16.30	2312.12	0.38	740.68	0.13	116.17
16.40	2312.12	0.38	740.68	0.13	118.32
10.40	2312.12	0.50	740.00	0.13	110.32

16.50	2312.12	0.38	740.68	0.14	120.25
16.60	2312.12	0.38	740.68	0.14	122.24
16.70	2312.12	0.38	740.68	0.14	124.15
16.80	2312.12	0.38	740.68	0.14	126.07
16.90	2312.12	0.38	740.68	0.14	127.93
17.00	2312.12	0.38	740.68	0.15	129.85
17.10	2312.12	0.39	740.68	0.15	131.72
17.20	2285.49	0.39	740.68	0.15	133.38
17.30	2282.83	0.39	740.68	0.15	135.28
17.40	2282.83	0.39	740.68	0.16	137.19
17.50	2282.83	0.39	740.68	0.16	138.96
17.60	2282.83	0.39	740.68	0.16	140.77
17.70	2282.83	0.39	740.68	0.16	142.80
17.80	2282.83	0.39	740.68	0.16	144.58
17.90	2282.83	0.39	740.68	0.17	146.53
18.00	2282.83	0.39	740.68	0.17	147.96
18.10	2282.83	0.39	740.68	0.17	149.92
18.20	2282.83	0.39	740.68	0.17	151.81
18.30	2282.83	0.39	740.69	0.17	153.83
18.40	2282.83	0.39	740.69	0.18	155.73
18.50	2282.83	0.39	740.69	0.18	157.61
18.60	2282.41	0.39	740.69	0.18	159.69
18.70	2281.12	0.39	740.69	0.18	161.65
18.80	2282.41	0.39	740.69	0.18	163.53
18.90	2282.83	0.39	740.69	0.19	165.39
19.00	2282.83	0.39	740.69	0.19	167.26
19.10	2281.99	0.39	740.69	0.19	169.19
19.20	2280.27	0.39	740.69	0.19	170.99
19.30	2282.83	0.39	740.69	0.19	172.84
19.40	2281.98	0.39	740.69	0.19	174.35
19.50	2281.54	0.39	740.69	0.20	176.18
19.60	2282.83	0.39	740.69	0.20	178.00
19.70	2282.83	0.40	740.69	0.20	179.80
19.80	2282.83	0.40	740.69	0.20	181.48
19.90	2282.83	0.40	740.69	0.20	183.19
20.00	2282.83	0.40	740.69	0.20	184.68
20.10	2282.83	0.40	740.69	0.21	186.36
20.20	2273.68	0.40	740.69	0.21	188.16
20.30	2270.02	0.40	740.69	0.21	189.90
20.40	2268.06	0.40	740.69	0.21	191.00
20.50	2268.49	0.40	740.69	0.21	192.51
20.60	2265.14	0.40	740.69	0.21	194.07
20.70	2265.14	0.40	740.69	0.22	195.45
20.70	2263.41	0.40	740.79	0.22	196.57
20.90	2262.08	0.40	740.70	0.22	197.92
21.00	2262.39	0.40	740.70	0.22	199.20
21.10	2259.40	0.40	740.70	0.22	200.49
21.20	2259.09	0.40	740.70	0.22	201.76
21.30	2256.09	0.40	740.70	0.22	202.92
21.40	2254.01	0.40	740.70	0.23	204.04
21.50	2256.62	0.40	740.70	0.23	205.13
21.60	2253.54	0.40	740.70	0.23	206.18
21.70	2254.16	0.40	740.70	0.23	207.23
21.80	2253.54	0.40	740.70	0.23	208.22
21.90	2253.54	0.40	740.70	0.23	209.27
22.00	2253.54	0.40	740.70	0.23	210.35
22.10	2253.54	0.40	740.70	0.23	211.42
22.20	2253.54	0.40	740.70	0.23	212.50
22.30	2253.54	0.40	740.70	0.24	213.47
			const.#us-fi(\fix)	(A) (B) (B) (B)	

22.40	2253.54	0.40	740.70	0.24	214.60
22.50	2253.54	0.40	740.70	0.24	215.77
22.60	2253.54	0.40	740.70	0.24	216.84
22.70	2215.17	0.40	740.70	0.24	217.92
22.80	2219.17	0.40	740.70	0.25	218.93
22.90	2221.81	0.40	740.70	0.25	219.98
23.00	2221.81	0.40	740.70	0.25	221.06
23.10	2220.93	0.40	740.70	0.25	222.14
23.20	2220.05	0.40	740.70	0.25	223.25
23.30	2219.17	0.40	740.70	0.25	224.38
23.40	2218.29	0.40	740.70	0.25	225.54
23.50	2220.58	0.40	740.70	0.25	226.71
23.60	2216.09	0.40	740.70	0.26	227.89
23.70	2218.73	0.40	740.70	0.26	229.09
23.80	2217.46	0.40	740.70	0.26	230.28
23.90	2215.24	0.40	740.70	0.26	231.48
24.00	2215.65	0.40	740.70	0.26	232.71
24.10	2193.41	0.40	740.70	0.26	233.86
24.20	2160.76	0.40	740.70	0.27	234.99
24.30	2085.47	0.40	740.70	0.28	236.12
24.40	1947.09	0.40	740.70	0.30	237.25
24.50	1894.98	0.40	740.70	0.31	238.38
24.60	1874.14	0.40	740.70	0.32	239.49
24.70	1863.57	0.40	740.70	0.32	240.60
24.80	1837.74	0.40	740.70	0.33	241.71
24.90	1794.54	0.40	740.70	0.34	242.75
25.00	1779.06	0.40	740.70	0.34	243.88
25.10	1749.25	0.40	740.70	0.35	245.04
25.20	1729.35	0.40	740.70	0.35	246.19
25.30	1719.59	0.40	740.70	0.36	247.16
25.40	1712.48	0.40	740.70	0.36	248.23
25.50	1689.41	0.40	740.70	0.37	249.45
25.60	1690.51	0.40	740.70	0.37	250.65
25.70	1690.51	0.40	740.70	0.37	251.81
25.80	1662.90	0.40	740.70	0.38	252.96
25.90	1658.68	0.40	740.70	0.38	254.08
26.00	1627.88	0.40	740.70	0.39	255.16
26.10	1590.96	0.40	740.70	0.40	256.09
26.20	1590.96	0.40	740.70	0.40	256.93
26.30	1591.41	0.40	740.70	0.40	257.81
26.40	1590.51	0.40	740.70	0.41	258.81
26.50	1590.51	0.40 0.40	740.70	0.41	259.76
26.60 26.70	1591.19 1590.06	0.40	740.70 740.70	0.41 0.41	260.58 261.74
26.80	1590.51	0.40	740.70	0.41	262.83
26.90	1550.10	0.40	740.70	0.42	263.85
27.00	1531.48	0.40	740.70	0.43	264.84
27.10	1530.79	0.40	740.70	0.43	265.73
27.10	1531.48	0.40	740.70	0.43	266.53
27.30	1513.49	0.40	740.70	0.44	267.36
27.40	1489.82	0.40	740.70	0.45	268.24
27.50	1490.51	0.40	740.70	0.45	269.13
27.60	1489.82	0.40	740.70	0.45	270.01
27.70	1490.28	0.40	740.70	0.45	270.87
27.80	1488.45	0.40	740.70	0.46	271.71
27.90	1488.91	0.40	740.70	0.46	272.57
28.00	1489.36	0.40	740.70	0.46	273.34
28.10	1489.36	0.40	740.70	0.46	274.09
28.20	1489.36	0.40	740.70	0.46	274.86

28.30	1489.36	0.40	740.70	0.46	275.57
28.40	1488.65	0.40	740.70	0.46	276.33
28.50	1488.91	0.40	740.70	0.47	277.10
28.60	1460.69	0.40	740.70	0.48	277.86
28.70	1448.15	0.40	740.70	0.48	278.60
28.80	1447.49	0.40	740.70	0.48	279.31
28.90	1448.61	0.40	740.70	0.48	280.01
29.00	1448.40	0.40	740.70	0.49	280.70
29.10	1448.61	0.40	740.69	0.49	281.38
29.20	1451.37	0.40	740.69	0.49	282.04
29.30	1450.22	0.40	740.69	0.49	282.66
29.40	1451.83	0.40	740.69	0.49	283.27
29.50	1454.59	0.40	740.69	0.49	283.87
29.60	1454.13	0.40	740.69	0.49	284.45
29.70	1454.13	0.40	740.69	0.49	284.98
29.80	1456.90	0.40	740.69	0.49	285.52
29.90	1452.34	0.40	740.69	0.50	286.06
30.00	1428.07	0.40	740.69	0.50	286.60
30.10	1429.91	0.40	740.69	0.51	287.11
30.20	1431.29	0.40	740.69	0.51	287.56
30.30	1432.21	0.40	740.69	0.51	287.97
30.40	1433.50	0.40	740.69	0.51	288.47
30.50	1432.21	0.40	740.69	0.51	288.93
30.60	1434.05	0.40	740.69	0.51	289.34
30.70	1435.36	0.40	740.69	0.51	289.73
30.80	1407.94	0.40	740.69	0.52	290.10
30.90 31.00	1363.26 1364.26	0.40 0.40	740.69 740.69	0.54 0.54	290.47 290.81
31.10	1364.19	0.40	740.69	0.54	291.13
31.20	1345.11	0.40	740.69	0.55	291.44
31.30	1331.58	0.39	740.69	0.56	291.73
31.40	1333.01	0.39	740.69	0.56	291.99
31.50	1333.47	0.39	740.69	0.56	292.24
31.60	1335.80	0.39	740.69	0.56	292.50
31.70	1338.59	0.39	740.69	0.56	292.69
31.80	1340.71	0.39	740.69	0.55	292.40
31.90	1344.21	0.39	740.69	0.55	292.63
32.00	1342.10	0.39	740.69	0.56	292.86
32.10	1342.10	0.39	740.69	0.56	293.07
32.20	1341.41	0.39	740.69	0.56	293.24
32.30	1342.42	0.39	740.69	0.56	293.37
32.40	1326.49	0.39	740.69	0.57	293.49
32.50	1301.08	0.39	740.69	0.58	293.62
32.60	1299.44	0.39	740.69	0.58	293.69
32.70	1302.88	0.39	740.69	0.58	293.74
32.80	1303.05	0.39	740.69	0.58	293.77
32.90	1303.22	0.39	740.69	0.58	293.80
33.00	1303.10	0.39	740.69	0.58	293.80
33.10	1304.05	0.39	740.69	0.58	293.79
33.20	1301.81	0.39	740.68	0.58	293.80
33.30	1302.92	0.39	740.68	0.58	293.78
33.40	1303.23	0.39	740.68	0.58	293.71
33.50	1301.81	0.39	740.68	0.58	293.63
33.60	1302.40	0.39	740.68	0.58	293.55
33.70	1301.82	0.39	740.68	0.58	293.45
33.80	1306.77	0.39	740.68	0.58	293.32
33.90	1304.89	0.39	740.68	0.58	293.22
34.00	1304.07	0.39	740.68	0.58	293.07
34.10	1302.60	0.39	740.68	0.58	292.96

34.20	1300.98	0.38	740.68	0.58	292.79
34.30	1302.09	0.38	740.68	0.58	292.59
34.40	1299.70	0.38	740.68	0.59	292.39
34.50	1299.51	0.38	740.68	0.59	292.19
34.60	1298.32	0.38	740.68	0.59	291.99
34.70	1296.32	0.38	740.68	0.59	291.77
34.80	1278.77	0.43	740.72	0.54	291.54
34.90	1270.77	0.44	740.72	0.53	291.30
35.00	1269.36	0.44	740.73	0.53	291.05
35.10	1268.44	0.44	740.73	0.53	290.79
35.20	1268.60	0.44	740.73	0.52	290.79
			740.73	0.49	
35.30	1247.96	0.48			290.26
35.40	1238.02	0.50	740.80	0.47	290.04
35.50	1237.52	0.50	740.80	0.47	289.75
35.60	1237.18	0.51	740.80	0.47	289.47
35.70	1236.95	0.51	740.80	0.47	289.20
35.80	1236.42	0.51	740.81	0.46	288.92
35.90	1236.26	0.51	740.81	0.46	288.66
36.00	1234.69	0.52	740.82	0.45	288.40
36.10	1232.92	0.52	740.82	0.45	288.16
36.20	1232.96	0.52	740.82	0.45	287.90
36.30	1233.38	0.52	740.82	0.45	287.68
36.40	1233.34	0.52	740.82	0.45	287.48
36.50	1232.60	0.52	740.82	0.45	287.25
36.60	1233.51	0.52	740.81	0.45	287.04
36.70	1232.70	0.52	740.81	0.45	286.85
36.80	1232.77	0.52	740.81	0.45	286.69
36.90	1232.81	0.52	740.81	0.45	286.55
37.00	1232.88	0.52	740.81	0.45	286.43
37.10	1232.88	0.52	740.81	0.45	286.33
37.20	1232.88	0.52	740.81	0.45	286.25
37.30	1232.96	0.52	740.81	0.45	286.20
37.40	1232.90	0.51	740.81	0.45	286.20
37.50	1232.53	0.51	740.81	0.45	286.25
37.60	1233.34	0.51	740.81	0.45	286.34
37.70	1232.63	0.51	740.81	0.45	286.42
37.80	1232.70	0.51	740.81	0.45	286.56
37.90	1232.30	0.51	740.81	0.45	286.76
38.00	1232.33	0.51	740.81	0.45	287.02
38.10	1232.85	0.51	740.81	0.45	287.34
38.20	1232.85	0.51	740.81	0.46	287.71
38.30	1232.01	0.51	740.81	0.46	288.14
38.40	1232.96	0.51	740.81	0.46	288.65
38.50	1232.04	0.51	740.81	0.46	289.22
38.60	1233.05	0.51	740.81	0.46	289.88
38.70	1231.95	0.51	740.81	0.46	290.65
38.80	1232.73	0.51	740.81	0.46	291.62
38.90	1232.14	0.51	740.81	0.46	292.62
39.00	1232.19	0.51	740.81	0.46	293.66
39.10	1232.27	0.51	740.81	0.47	294.83
39.20	1232.32	0.51	740.81	0.47	296.16
39.30	1232.38	0.51	740.81	0.47	297.65
39.40	1232.44	0.52	740.81	0.47	299.27
39.50	1232.47	0.52	740.81	0.47	301.06
39.60	1232.47	0.52	740.81	0.48	303.02
39.70	1232.56	0.52	740.81	0.48	305.15
39.80	1231.77	0.52	740.81	0.48	307.51
39.90	1232.63	0.52	740.82	0.48	309.99
40.00	1231.82	0.52	740.82	0.49	312.69

40.10	1231.84	0.52	740.82	0.49	315.55
40.20	1231.87	0.52	740.82	0.49	318.70
40.30	1231.87	0.53	740.82	0.50	322.16
40.40	1231.90	0.53	740.82	0.50	325.93
40.50	1231.82	0.53	740.83	0.51	330.02
40.60	1232.32	0.53	740.83	0.51	334.22
40.70	1231.63	0.53	740.83	0.51	338.55
40.80	1231.67	0.54	740.83	0.52	343.11
40.90	1231.72	0.54	740.84	0.52	347.93
41.00	1231.72	0.54	740.84	0.53	353.36
41.10	1226.17	0.55	740.84	0.54	358.77
41.20	1221.06	0.55	740.84	0.55	364.77
41.30	1217.36	0.55	740.85	0.55	371.43
41.40	1217.30	0.55	740.85	0.56	378.38
41.50	1211.52	0.56	740.85	0.57	385.64
	1207.79				
41.60		0.56	740.86	0.58	392.89
41.70	1204.00	0.57	740.86	0.59	400.82
41.80	1199.99	0.57	740.87	0.60	409.09
41.90	1199.99	0.58	740.87	0.61	417.77
42.00	1199.99	0.58	740.88	0.61	426.05
42.10	1199.99	0.59	740.88	0.62	435.15
42.20	1199.99	0.59	740.89	0.63	444.74
42.30	1199.99	0.60	740.89	0.64	454.63
42.40	1199.99	0.60	740.90	0.64	464.63
42.50	1199.99	0.61	740.90	0.65	474.64
42.60	1199.99	0.61	740.91	0.66	485.48
42.70	1199.99	0.62	740.91	0.67	496.64
42.80	1199.99	0.62	740.92	0.68	507.29
42.90	1199.99	0.63	740.92	0.69	517.60
43.00	1199.99	0.63	740.93	0.70	528.79
43.10	1199.99	0.64	740.94	0.70	540.27
43.20	1218.44	0.63	740.93	0.72	552.25
43.30	1241.41	0.62	740.91	0.74	563.20
43.40	1241.41	0.62	740.92	0.74	574.84
43.50	1276.23	0.63	740.92	0.73	586.03
43.60	1299.99	0.63	740.93	0.72	596.48
43.70	1314.64	0.61	740.90	0.76	607.08
43.80	1329.28	0.58	740.88	0.80	618.08
43.90	1340.05	0.59	740.88	0.80	628.76
44.00	1356.33	0.59	740.89	0.79	639.89
44.10	1361.31	0.60	740.90	0.80	651.26
44.20	1362.96	0.60	740.90	0.80	662.41
44.30	1363.55	0.61	740.91	0.81	673.11
44.40	1363.80	0.61	740.91	0.82	683.32
44.50	1346.93	0.66	740.95	0.78	693.95
44.60	1334.58	0.69	740.99	0.76	703.96
44.70	1334.51	0.70	740.99	0.77	714.08
44.80	1334.44	0.70	741.00	0.77	723.39
44.90	1334.18	0.71	741.00	0.78	733.31
45.00	1333.85	0.71	741.01	0.78	742.93
45.10	1333.58	0.72	741.01	0.79	752.27
45.20	1332.98	0.72	741.02	0.79	761.35
45.20	1332.51	0.72	741.02	0.80	769.95
45.40	1332.25	0.73	741.02	0.80	778.08
45.50			741.02	0.81	786.17
	1331.36	0.73 0.74			
45.60	1331.26	0.74	741.03	0.81	794.03
45.70	1330.23	0.74	741.04	0.81	801.78
45.80	1329.80	0.75	741.04	0.82	809.31
45.90	1317.24	0.75	741.04	0.83	816.91

46.00	1301.61	0.75	741.05	0.84	823.77
46.10	1298.32	0.76	741.05	0.85	830.28
46.20	1297.28	0.76	741.05	0.85	837.44
46.30	1296.35	0.76	741.06	0.86	844.49
46.40	1295.07	0.76	741.06	0.86	851.25
46.50	1294.78	0.77	741.06	0.86	857.54
46.60	1293.40	0.77	741.07	0.87	863.77
46.70	1292.33	0.77	741.07	0.87	870.07
46.80	1291.79	0.78	741.07	0.87	876.42
46.90	1283.36	0.78	741.08	0.88	882.51
47.00	1277.74	0.78	741.08	0.89	888.40
47.10	1275.48	0.78	741.08	0.89	894.42
47.20	1314.54	0.75	741.04	0.92	900.22
47.30	1300.29	0.75	741.05	0.93	906.00
47.40	1249.91	0.75	741.05	0.97	910.89
47.50	1253.04	0.76	741.05	0.97	917.22
47.60	1255.22	0.76	741.06	0.97	922.93
47.70	1263.42	0.76	741.06	0.97	928.75
47.80	1285.80	0.76	741.06	0.95	934.44
47.90	1251.36	0.77	741.06	0.98	940.33
48.00	1241.97	0.77	741.07	0.99	946.53
48.10	1241.41	0.77	741.07	0.99	952.44
48.20	1234.27	0.77	741.07	1.00	958.43
48.30	1236.53	0.78	741.07	1.00	964.12
48.40	1248.07	0.78	741.08	1.00	970.00
48.50	1246.84	0.78	741.08	1.00	976.02
48.60	1246.34	0.78	741.08	1.00	981.88
48.70	1245.88	0.79	741.08	1.01	987.84
48.80	1245.68	0.79	741.09	1.01	993.58
48.90	1245.01	0.79	741.09	1.01	999.11
49.00	1244.42	0.80	741.09	1.01	1004.74
49.10	1243.96	0.80	741.09	1.02	1010.43
49.20	1243.53	0.80	741.10	1.02	1015.80
49.30	1243.54	0.80	741.10	1.02	1021.15
49.40	1242.51	0.81	741.10	1.03	1026.69
49.50	1259.55	0.81	741.10	1.01	1031.57
49.60	1270.70	0.81	741.11	1.01	1036.97
49.70	1270.70	0.81	741.11	1.01	1042.60 1047.53
49.80 49.90	1256.80 1251.95	0.82	741.11	1.02	
50.00	1251.88	0.82 0.82	741.11 741.12	1.03 1.03	1052.44 1057.38
50.10	1247.59	0.82	741.12	1.04	1062.29
50.20	1224.72	0.82	741.12	1.06	1066.94
50.30	1221.43	0.83	741.12	1.06	1071.56
50.40	1221.45	0.83	741.12	1.06	1076.06
50.50	1217.09	0.83	741.13	1.07	1080.53
50.60	1213.39	0.82	741.11	1.09	1084.91
50.70	1239.81	0.80	741.09	1.11	1089.27
50.80	1240.23	0.80	741.09	1.11	1093.54
50.90	1239.44	0.80	741.10	1.11	1097.38
51.00	1239.75	0.80	741.10	1.11	1101.50
51.10	1239.75	0.80	741.10	1.11	1105.98
51.20	1263.72	0.80	741.10	1.09	1110.22
51.20	1268.32	0.81	741.10	1.09	1114.26
51.30	1200.32		744 40	1.09	1110 24
	1268.06	0.81	741.10	1.09	1118.24
51.30		0.81 0.81	741.10 741.11	1.09	1118.24
51.30 51.40	1268.06				
51.30 51.40 51.50 51.60 51.70	1268.06 1267.53 1273.70 1282.84	0.81 0.81 0.81	741.11 741.11 741.11	1.09 1.09 1.08	1122.17 1126.04 1129.91
51.30 51.40 51.50 51.60	1268.06 1267.53 1273.70	0.81 0.81	741.11 741.11	1.09 1.09	1122.17 1126.04

51.90	1282.84	0.82	741.11	1.08	1137.39
52.00	1282.84	0.82	741.12	1.09	1141.04
52.10	1282.84	0.82	741.12	1.09	1144.57
52.20	1282.84	0.82	741.12	1.09	1148.01
52.30	1282.84	0.82	741.12	1.09	1151.38
52.40	1282.84	0.83	741.12	1.09	1154.65
52.50	1282.84	0.83	741.12	1.09	1157.79
52.60	1282.84	0.83	741.13	1.09	1160.74
52.70	1282.84	0.83	741.13	1.09	1163.64
52.70	1282.84	0.83	741.13	1.09	1166.60
52.90	1282.84	0.83	741.13	1.09	1169.55
53.00	1282.84	0.84	741.13	1.09	1172.44
53.10	1282.84	0.84	741.13	1.09	1175.25
53.20	1282.84	0.84	741.13	1.10	1177.92
	1282.84		741.13 741.14		1177.92
53.30		0.84		1.10	
53.40	1282.84	0.84	741.14	1.10	1182.92
53.50	1282.84	0.84	741.14	1.10	1185.18
53.60	1282.84	0.84	741.14	1.10	1187.44
53.70	1282.84	0.84	741.14	1.10	1189.54
53.80	1285.10	0.85	741.14	1.10	1191.56
53.90	1321.98	0.85	741.14	1.07	1193.54
54.00	1315.46	0.85	741.14	1.07	1195.43
54.10	1314.75	0.85	741.14	1.07	1197.20
54.20	1319.68	0.85	741.14	1.07	1198.92
54.30	1343.19	0.85	741.15	1.05	1200.57
54.40	1342.65	0.85	741.15	1.05	1202.06
54.50	1341.98	0.85	741.15	1.05	1203.49
54.60	1340.80	0.85	741.15	1.05	1204.85
54.70	1340.29	0.85	741.15	1.06	1206.03
54.80	1339.17	0.85	741.15	1.06	1207.17
54.90	1338.45	0.85	741.15	1.06	1208.23
55.00	1337.70	0.85	741.15	1.06	1209.20
55.10	1339.53	0.86	741.15	1.06	1210.15
55.20	1337.98	0.86	741.15	1.06	1211.01
55.30	1336.89	0.86	741.15	1.06	1211.65
55.40	1336.51	0.86	741.15	1.06	1212.40
55.50	1336.30	0.86	741.15	1.06	1213.08
55.60	1336.22	0.86	741.15	1.06	1213.74
55.70	1335.77	0.86	741.15	1.06	1214.33
55.80	1335.05	0.86	741.15	1.06	1214.86
55.90	1334.46	0.86	741.15	1.06	1215.35
56.00	1340.14	0.86	741.16	1.06	1215.72
56.10	1341.68	0.86	741.16	1.05	1216.02
56.20	1341.23	0.86	741.16	1.06	1216.25
56.30	1340.62	0.86	741.16	1.06	1216.51
56.40	1340.54	0.86	741.16	1.06	1216.64
56.50	1340.24	0.86	741.16	1.06	1216.71
56.60	1339.18	0.86	741.16	1.06	1216.71
56.70	1339.70	0.86	741.16	1.06	1216.74
56.80	1339.76	0.86	741.16	1.06	1216.72
					1216.56
56.90	1340.52	0.86	741.16	1.06	
57.00	1340.04	0.86	741.16	1.06	1216.43
57.10	1340.19	0.86	741.16	1.06	1216.27
57.20	1363.21	0.83	741.13	1.07	1216.09
57.30	1369.38	0.82	741.12	1.08	1215.84
57.40	1369.48	0.82	741.12	1.08	1215.53
57.50	1369.97	0.82	741.12	1.08	1215.18
57.60	1369.53	0.82	741.12	1.08	1214.78
57.70	1369.36	0.82	741.12	1.08	1214.33

57.80	1368.89	0.82	741.12	1.08	1213.86
57.90	1369.42	0.82	741.12	1.08	1213.35
58.00	1368.68	0.82	741.12	1.08	1212.78
58.10	1368.83	0.82	741.12	1.08	1212.18
58.20	1368.64	0.82	741.12	1.08	1211.51
58.30	1368.31	0.82	741.12	1.08	1210.90
58.40	1357.06	0.82	741.12	1.09	1210.24
58.50	1340.55	0.82	741.12	1.10	1209.58
58.60	1337.68	0.82	741.12	1.10	1208.83
58.70	1338.33	0.82	741.11	1.10	1208.07
58.80	1337.28	0.82	741.11	1.10	1207.32
58.90	1337.53	0.82	741.11	1.10	1206.55
59.00	1336.44	0.82	741.11	1.10	1205.73
59.10	1344.76	0.72	741.02	1.24	1204.88
59.20	1324.98	0.72	741.02	1.26	1203.99
59.30	1325.00	0.72	741.02	1.26	1203.07
59.40	1325.19	0.72	741.02	1.26	1202.16
59.50	1324.72	0.72	741.02	1.26	1201.24
59.60	1296.17	0.72	741.02	1.29	1200.38
	1293.49				
59.70		0.72	741.01	1.29	1199.46
59.80	1294.99	0.72	741.01	1.29	1198.46
59.90	1293.76	0.72	741.01	1.29	1197.42
60.00	1292.89	0.72	741.01	1.29	1196.36
60.10	1293.09	0.72	741.01	1.29	1195.27
60.20	1292.74	0.72	741.01	1.29	1194.16
60.30	1292.38	0.72	741.01	1.29	1193.05
60.40	1292.40	0.72	741.01	1.29	1191.91
60.50	1290.82	0.72	741.01	1.29	1190.76
60.60	1291.41	0.72	741.01	1.29	1189.61
60.70	1291.59	0.72	741.01	1.29	1188.49
60.80	1294.00	0.71	741.01	1.28	1187.31
60.90	1270.84	0.71	741.01	1.31	1186.01
61.00	1268.00	0.71	741.01	1.31	1184.69
61.10	1266.71	0.71	741.01	1.31	1183.44
61.20	1266.37	0.71	741.01	1.31	1182.21
				1.31	1180.89
61.30	1265.81	0.71	741.01		
61.40	1266.81	0.71	741.01	1.31	1179.54
61.50	1265.57	0.71	741.01	1.31	1178.14
61.60	1264.41	0.71	741.01	1.31	1176.74
61.70	1264.85	0.71	741.01	1.31	1175.36
61.80	1264.95	0.71	741.01	1.31	1174.04
61.90	1264.36	0.71	741.01	1.31	1172.64
62.00	1263.54	0.71	741.01	1.31	1171.19
62.10	1264.12	0.71	741.00	1.31	1169.73
62.20	1252.23	0.71	741.00	1.32	1168.29
62.30	1234.15	0.71	741.00	1.34	1166.79
62.40	1234.08	0.71	741.00	1.34	1165.16
62.50	1233.66	0.71	741.00	1.34	1163.53
62.60	1235.38	0.71	741.00	1.33	1161.99
62.70	1234.08	0.71	741.00	1.33	1160.45
62.80	1234.44	0.70	741.00	1.33	1158.90
62.90	1233.05	0.70	741.00	1.33	1157.37
	1212.19	0.70	741.00	1.36	1155.69
63.00					
63.10	1201.10	0.70	741.00	1.37	1154.07
63.20	1202.22	0.70	741.00	1.37	1152.45
63.30	1202.79	0.70	741.00	1.36	1150.81
63.40	1201.41	0.70	741.00	1.36	1149.13
63.50	1202.97	0.70	741.00	1.36	1147.43
63.60	1202.66	0.70	741.00	1.36	1145.73

63.70	1202.33	0.70	741.00	1.36	1144.08
63.80	1202.48	0.70	740.99	1.36	1142.40
63.90	1202.80	0.70	740.99	1.36	1140.71
64.00	1201.71	0.70	740.99	1.36	1138.99
64.10	1201.83	0.70	740.99	1.36	1137.27
64.20	1202.19	0.70	740.99	1.36	1135.53
64.30	1201.02	0.70	740.99	1.36	1133.78
64.40	1202.50	0.69	740.99	1.36	1132.01
64.50	1200.36	0.69	740.99	1.36	1130.37
64.60	1202.48	0.69	740.99	1.36	1128.72
64.70	1201.52	0.69	740.99	1.36	1126.98
64.80	1200.95	0.69	740.99	1.36	1125.19
64.90	1198.74	0.69	740.99	1.36	1123.37
65.00	1197.55	0.69	740.99	1.36	1121.50
65.10	1197.04	0.69	740.99	1.36	1119.66
65.20	1192.76	0.69	740.98	1.36	1117.80
65.30	1185.55	0.69	740.98	1.37	1116.04
65.40	1182.08	0.69	740.98	1.37	1114.17
65.50	1180.73	0.69	740.98	1.37	1112.34
65.60	1178.47	0.69	740.98	1.37	1110.49
65.70	1174.77	0.69	740.98	1.38	1108.62
65.80	1173.43	0.68	740.98	1.38	1106.63
65.90	1169.77	0.68	740.98	1.38	1104.68
66.00	1139.06	0.68	740.98	1.42	1102.78
66.10	1137.96	0.68	740.98	1.42	1100.87
66.20	1132.83	0.68	740.98	1.43	1098.97
66.30	1132.90	0.68	740.98	1.42	1096.97
66.40	1131.00	0.68	740.98	1.43	1094.94
66.50	1130.20	0.68	740.97	1.43	1092.94
66.60	1130.91	0.68	740.97	1.42	1090.94
66.70	1128.57	0.68	740.97	1.43	1088.90
66.80	1128.86	0.68	740.97	1.42	1086.91
66.90	1126.41	0.68	740.97	1.43	1084.84
67.00	1127.90	0.67	740.97	1.42	1082.75
67.10	1125.93	0.67	740.97	1.43	1080.71
67.20	1125.30	0.67	740.97	1.43	1078.59
67.30	1124.73	0.67	740.97	1.42	1076.56
67.40	1124.61	0.67	740.97	1.42	1074.43
67.50	1122.76	0.67	740.97	1.43	1072.38
67.60	1121.69	0.67	740.97	1.43	1070.37
67.70	1120.72	0.67	740.96	1.43	1068.34
67.80	1121.25	0.67	740.96	1.42	1066.27
67.90	1122.98	0.67	740.96	1.42	1064.12
68.00	1123.25	0.67	740.96	1.42	1061.95
68.10	1123.46	0.67	740.96	1.42	1059.85
68.20	1121.99	0.66	740.96	1.42	1058.20
68.30	1121.38	0.66	740.96	1.42	1055.77
68.40	1120.25	0.66	740.96	1.42	1053.59
68.50	1120.62	0.66	740.96	1.42	1051.53
68.60	1117.89	0.66	740.96	1.42	1049.51
68.70	1121.00	0.66	740.96	1.42	1047.29
68.80	1121.63	0.66	740.96	1.41	1045.10
68.90	1119.09	0.66	740.96	1.42	1042.87
69.00	1118.72	0.66	740.95	1.41	1040.71
69.10	1119.32	0.66	740.95	1.41	1038.62
69.20	1117.39	0.66	740.95	1.41	1036.63
69.30	1115.76	0.66	740.95	1.42	1034.65
69.40	1114.33	0.65	740.95	1.42	1032.46
69.50	1115.52	0.65	740.95	1.41	1030.27

69.60	1112.13	0.65	740.95	1.42	1028.40
69.70	1112.13	0.65	740.95	1.42	1026.15
69.80	1109.80	0.65	740.95	1.42	1023.99
69.90	1109.39	0.65	740.95	1.42	1021.95
70.00	1109.65	0.65	740.95	1.42	1019.73
70.10	1107.80	0.65	740.94	1.42	1017.44
70.20	1105.41	0.65	740.94	1.42	1015.19
70.30	1105.35	0.65	740.94	1.42	1012.99
70.40	1104.46	0.65	740.94	1.42	1010.91
70.50	1101.18	0.65	740.94	1.42	1008.58
70.60	1076.18	0.64	740.94	1.45	1006.27
70.70	1074.39	0.64	740.94	1.45	1004.13
70.80	1071.17	0.64	740.94	1.46	1001.94
70.90	1070.20	0.64	740.94	1.46	999.74
71.00	1069.03	0.64	740.94	1.46	997.73
71.10	1066.19	0.64	740.94	1.46	995.66
71.20	1066.12	0.64	740.94	1.46	993.18
71.20	1064.81	0.64	740.93	1.46	990.90
					988.69
71.40	1063.90	0.64	740.93	1.46	
71.50	1057.35	0.64	740.93	1.47	986.54
71.60	1049.94	0.64	740.93	1.47	984.39
71.70	1050.03	0.64	740.93	1.47	982.33
71.80	1048.04	0.63	740.93	1.47	980.06
71.90	1046.44	0.63	740.93	1.48	978.00
72.00	1046.55	0.63	740.93	1.47	976.14
72.10	1045.15	0.63	740.93	1.48	973.85
72.20	1045.22	0.63	740.93	1.47	971.56
72.30	1027.27	0.63	740.93	1.50	969.24
72.40	1014.49	0.63	740.93	1.52	966.94
72.50	1015.38	0.63	740.92	1.51	964.66
72.60	1014.59	0.63	740.92	1.51	962.34
72.70	1014.56	0.63	740.92	1.51	960.03
72.80	1013.59	0.63	740.92	1.51	957.81
72.90	1013.62	0.62	740.92	1.51	955.49
73.00	1013.65	0.62	740.92	1.51	953.17
73.10	1012.91	0.62	740.92	1.51	950.88
73.20	1000.81	0.67	740.97	1.42	948.67
73.30	988.24	0.72	741.02	1.34	946.35
73.40	988.01	0.72	741.02	1.33	943.99
73.50	986.95	0.72	741.02	1.33	941.68
73.60	987.24	0.72	741.02	1.32	939.62
73.70	985.52	0.72	741.02	1.32	937.19
73.80	985.55	0.72	741.02	1.32	934.83
73.90	985.07	0.72	741.02	1.31	932.48
74.00	983.96	0.73	741.02	1.30	930.15
74.10	984.30	0.72	741.02	1.30	927.73
74.20	983.34	0.73	741.02	1.30	925.44
74.30	982.84	0.73	741.02	1.29	923.19
74.40	982.84	0.73	741.02	1.29	920.80
74.50	982.84	0.73	741.02	1.29	918.46
74.60	956.01	0.72	741.02	1.32	916.19
				1.32	
74.70	953.55	0.72	741.02		913.95
74.80	953.55	0.72	741.02	1.32	911.73
74.90	953.55	0.72	741.02	1.32	909.64
75.00	953.55	0.72	741.02	1.32	907.55
75.10	953.55	0.72	741.02	1.32	905.41
75.20	953.55	0.72	741.01	1.32	903.22
75.30	953.55	0.72	741.01	1.32	900.99
75.40	953.55	0.72	741.01	1.32	898.77

75.50	953.55	0.72	741.01	1.31	896.54
75.60	953.55	0.71	741.01	1.31	894.26
75.70	953.55	0.71	741.01	1.31	891.98
75.80	953.55	0.71	741.01	1.31	889.70
75.90	953.55	0.71	741.01	1.31	887.44
76.00	953.55	0.71	741.01	1.31	884.94
76.10	953.55	0.71	741.01	1.30	882.51
76.20	953.55	0.71	741.00	1.30	880.25
76.30	953.55	0.71	741.00	1.30	878.40
76.40	953.55	0.71	741.00	1.30	876.20
76.50	927.56	0.73	741.02	1.30	873.90
76.60	891.77	0.73	741.03	1.33	871.61
76.70	892.68	0.73	741.03	1.33	869.21
76.80	890.29	0.73	741.03	1.33	866.79
76.90	889.94	0.73	741.03	1.33	864.40
77.00	888.65	0.73	741.03	1.33	862.26
77.10	888.81	0.73	741.03	1.33	859.94
77.10	888.16	0.73	741.02	1.33	858.16
	887.48				
77.30		0.73	741.02	1.32	855.26
77.40	886.02	0.73	741.02	1.32	852.90
77.50	886.06	0.73	741.02	1.32	850.61
77.60	886.09	0.73	741.02	1.32	848.35
77.70	886.15	0.72	741.02	1.32	846.22
77.80	884.76	0.72	741.02	1.32	843.87
77.90	882.68	0.72	741.02	1.32	841.64
78.00	882.68	0.72	741.02	1.32	839.44
78.10	882.99	0.72	741.02	1.31	837.25
78.20	881.81	0.72	741.02	1.31	835.09
78.30	882.41	0.72	741.02	1.31	832.90
78.40	880.89	0.72	741.02	1.31	831.03
78.50	881.64	0.72	741.01	1.31	828.83
78.60	880.82	0.72	741.01	1.31	826.58
78.70	880.78	0.72	741.01	1.30	824.30
78.80	879.65	0.72	741.01		821.96
				1.30	
78.90	892.31	0.70	741.00	1.31	819.70
79.00	892.80	0.70	741.00	1.31	817.48
79.10	892.20	0.70	741.00	1.31	815.20
79.20	891.81	0.70	741.00	1.30	813.02
79.30	892.06	0.70	740.99	1.30	810.90
79.40	891.87	0.70	740.99	1.30	808.73
79.50	891.57	0.70	740.99	1.30	806.60
79.60	891.37	0.70	740.99	1.30	804.57
79.70	890.96	0.70	740.99	1.30	802.70
79.80	890.29	0.69	740.99	1.29	800.73
79.90	890.29	0.69	740.99	1.29	798.68
80.00	880.73	0.70	741.00	1.28	796.68
80.10	888.80	0.69	740.99	1.29	794.42
80.20	891.32	0.69	740.99	1.29	792.46
80.30	890.16	0.69	740.99	1.29	790.35
80.40	891.57	0.69	740.98	1.28	787.88
80.50	891.05	0.69	740.98	1.28	785.58
80.60	891.17	0.69	740.98	1.28	783.55
80.70	890.55	0.69	740.98	1.28	781.45
80.80	890.75	0.69	740.98	1.28	779.30
80.90	890.63	0.68	740.98	1.28	777.22
81.00	889.96	0.68	740.98	1.27	775.12
81.10	890.65	0.68	740.98	1.27	772.92
81.20	890.23	0.68	740.98	1.27	770.77
81.30	890.59	0.68	740.98	1.27	768.72

81.40	889.68	0.68	740.98	1.27	766.56
81.50	890.41	0.68	740.97	1.27	764.57
81.60	889.32	0.68	740.97	1.26	762.57
81.70	890.29	0.68	740.97	1.26	760.53
81.80	889.89	0.68	740.97	1.26	758.53
81.90	887.26	0.68	740.97	1.26	756.35
82.00	860.03	0.67	740.97	1.30	754.14
82.10	861.23	0.67	740.97	1.30	751.96
82.20	860.80	0.67	740.97	1.30	749.80
82.30	859.83	0.67	740.97	1.29	747.75
82.40	859.66	0.67	740.97	1.29	745.77
82.50	860.15	0.67	740.97	1.29	743.63
82.60	860.21	0.67	740.97	1.29	741.52
82.70	860.39	0.67	740.96	1.29	739.36
82.80	859.69	0.67	740.96	1.28	737.27
82.90	859.46	0.67	740.96	1.28	735.19
83.00	859.87	0.67	740.96	1.28	733.11
83.10	859.70	0.66	740.96	1.28	731.23
83.20					729.29
	859.41	0.66	740.96	1.28	
83.30	859.23	0.66	740.96	1.28	727.31
83.40	858.78	0.66	740.96	1.28	725.38
83.50	859.09	0.66	740.96	1.27	723.43
83.60	860.27	0.66	740.96	1.27	721.35
83.70	858.80	0.66	740.96	1.27	719.35
83.80	858.85	0.66	740.96	1.27	717.53
83.90	858.95	0.66	740.95	1.27	715.52
84.00	858.77	0.66	740.95	1.26	713.48
84.10	858.82	0.66	740.95	1.26	711.44
84.20	858.78	0.66	740.95	1.26	709.49
84.30	858.52	0.65	740.95	1.26	707.62
84.40	858.34	0.65	740.95	1.26	705.56
84.50	858.70	0.65	740.95	1.26	703.58
84.60	858.57	0.65	740.95	1.25	701.58
84.70	858.62	0.65	740.95	1.25	699.60
84.80	858.10	0.65	740.95	1.25	697.64
84.90	858.53	0.65	740.95	1.25	695.82
85.00	858.24	0.65	740.94	1.25	694.05
85.10	858.03	0.65	740.94	1.25	692.17
85.20	859.60	0.65	740.94	1.24	690.22
85.30	860.89	0.65	740.94	1.24	688.47
85.40	861.16	0.65	740.94	1.24	686.54
85.50	860.75	0.64	740.94	1.23	684.64
85.60	861.68	0.64	740.94	1.23	682.73
85.70	861.76	0.64	740.94	1.23	680.80
85.80	865.28	0.64	740.94	1.22	678.91
85.90	865.11	0.64	740.94	1.22	677.05
86.00	865.11	0.64	740.94	1.22	675.19
86.10	864.67	0.64	740.94	1.22	673.57
86.20	864.97	0.64	740.93	1.22	671.69
86.30	865.78	0.64	740.93	1.21	670.32
86.40	842.34	0.65	740.95	1.22	668.27
86.50	842.91	0.65	740.95	1.22	666.37
86.60	841.33	0.65	740.95	1.22	664.46
86.70	840.50	0.65	740.95	1.21	662.61
86.80	840.79	0.65	740.95	1.21	660.74
86.90	841.86	0.65	740.95	1.21	658.97
87.00	841.37	0.65	740.95	1.20	657.41
87.10	842.64	0.65	740.95	1.20	655.65
87.20	843.00	0.65	740.94	1.20	653.74

87.30	842.12	0.65	740.94	1.20	651.88
87.40	844.47	0.65	740.94	1.19	650.33
87.50	844.09	0.64	740.94	1.19	648.48
87.60	843.21	0.64	740.94	1.19	646.54
87.70	843.52	0.64	740.94	1.19	644.67
87.80	844.13	0.64	740.94	1.19	642.85
87.90	843.37	0.64	740.94	1.19	641.11
88.00	843.48	0.64	740.94	1.18	639.44
			740.94		
88.10	842.82	0.64		1.18	637.68
88.20	843.97	0.64	740.94	1.18	635.92
88.30	842.65	0.64	740.94	1.18	634.22
88.40	843.93	0.64	740.93	1.18	632.45
88.50	844.56	0.64	740.93	1.18	630.66
88.60	844.71	0.64	740.93	1.17	628.87
88.70	845.42	0.63	740.93	1.17	627.13
88.80	844.11	0.63	740.93	1.17	625.40
88.90	843.48	0.63	740.93	1.17	623.65
89.00	843.07	0.63	740.93	1.17	621.91
89.10	842.61	0.63	740.93	1.16	620.39
89.20	842.14	0.63	740.93	1.16	618.71
89.30	839.84	0.63	740.93	1.16	616.98
89.40	843.01	0.63	740.93	1.16	615.47
89.50	843.23	0.63	740.93	1.16	614.03
89.60	842.70	0.63	740.93	1.16	612.46
89.70	842.49	0.63	740.93	1.15	610.68
89.80	841.64	0.63	740.92	1.15	609.01
89.90	841.54	0.63	740.92	1.15	607.50
90.00	841.17	0.63	740.92	1.15	605.98
90.10	843.03	0.63	740.92	1.15	604.40
90.20	840.70	0.63	740.92	1.15	602.71
90.30	841.25	0.62	740.92	1.15	601.02
90.40	840.32	0.62	740.92	1.15	599.48
90.50	840.17	0.62	740.92	1.14	598.19
90.60	830.54	0.63	740.92	1.14	596.49
90.70	830.73	0.63	740.92	1.14	594.80
90.80	830.25	0.63	740.92	1.14	593.07
90.90	832.28	0.63	740.92	1.14	591.32
91.00	831.49	0.62	740.92	1.14	589.66
91.10	830.25	0.62	740.92	1.14	587.95
91.10	831.99	0.62	740.92	1.14	586.24
91.30			740.92	1.14	
	830.79	0.62	740.92		584.59
91.40	829.47	0.62		1.13	582.98
91.50	830.17	0.62	740.92	1.13	581.32
91.60	828.98	0.62	740.92	1.13	579.66
91.70	828.26	0.62	740.92	1.13	578.03
91.80	828.04	0.62	740.91	1.13	576.43
91.90	828.72	0.62	740.92	1.12	574.98
92.00	827.79	0.62	740.91	1.12	573.43
92.10	827.65	0.62	740.91	1.12	571.87
92.20	826.86	0.62	740.91	1.12	570.28
92.30	827.52	0.62	740.91	1.11	568.60
92.40	825.26	0.62	740.91	1.12	567.06
92.50	827.42	0.62	740.91	1.11	565.67
92.60	827.93	0.61	740.91	1.12	564.16
92.70	825.09	0.61	740.91	1.12	562.51
92.80	826.65	0.61	740.91	1.11	560.85
92.90	825.16	0.61	740.91	1.11	559.34
93.00	824.21	0.61	740.91	1.11	557.72
93.10	826.01	0.61	740.91	1.11	556.10

93.20	823.83	0.61	740.91	1.11	554.53
93.30	822.73	0.61	740.90	1.11	552.93
93.40	823.65	0.61	740.90	1.10	551.35
93.50	821.74	0.61	740.90	1.10	549.81
93.60	822.26	0.61	740.90	1.10	548.29
93.70					
	821.94	0.61	740.90	1.10	546.94
93.80	821.61	0.60	740.90	1.10	545.40
93.90	820.31	0.61	740.90	1.10	543.86
94.00	820.62	0.60	740.90	1.10	542.36
94.10	819.92	0.60	740.90	1.09	541.04
94.20	820.35	0.60	740.90	1.09	539.71
94.30	819.87	0.60	740.90	1.09	538.32
94.40	819.97	0.60	740.90	1.09	536.95
94.50	817.77	0.60	740.90	1.09	535.59
94.60	820.51	0.60	740.90	1.09	534.27
94.70	817.76	0.60	740.90	1.09	532.89
94.80	817.70	0.60	740.90	1.09	531.48
94.90	817.19	0.60	740.89	1.09	529.96
95.00	817.82	0.60	740.89	1.08	528.85
95.10	817.56	0.60	740.89	1.08	527.12
95.20	816.14	0.60	740.89	1.08	525.59
95.30	816.77	0.60	740.89	1.08	524.06
95.40	817.62	0.59	740.89	1.08	522.53
				1.08	
95.50	814.48	0.59	740.89		521.07
95.60	815.65	0.59	740.89	1.08	519.57
95.70	815.92	0.59	740.89	1.07	518.06
95.80	813.78	0.59	740.89	1.07	516.55
95.90	816.13	0.59	740.89	1.07	515.11
96.00	812.67	0.59	740.89	1.07	513.69
96.10	814.70	0.59	740.88	1.07	512.20
96.20	814.79	0.59	740.89	1.07	510.81
96.30	814.07	0.59	740.88	1.07	509.38
96.40	795.23	0.59	740.88	1.09	507.90
96.50	796.98	0.59	740.88	1.09	506.47
96.60	794.90	0.59	740.88	1.09	505.12
96.70	796.82	0.59	740.88	1.08	503.82
96.80	796.12	0.58	740.88	1.08	502.43
96.90	794.85	0.58	740.88	1.08	501.00
97.00	796.84	0.58	740.88	1.08	499.73
97.10	796.54	0.58	740.88	1.08	498.35
97.20	795.05	0.58	740.88	1.08	496.99
97.30	795.05	0.58	740.88	1.08	495.67
97.40	795.58	0.58	740.88	1.07	494.39
97.50	794.41	0.58	740.87	1.07	493.13
97.60	796.23	0.58	740.87	1.07	492.13
97.70	795.13	0.58	740.87	1.07	490.72
97.80	795.60	0.58	740.87	1.07	489.27
97.90	794.80	0.58	740.87	1.07	487.78
98.00	794.61	0.58	740.87	1.06	486.34
98.10	796.84	0.57	740.87	1.06	484.93
98.20	795.22	0.57	740.87	1.06	483.60
98.30	793.43	0.57	740.87	1.06	482.27
98.40	769.87	0.57	740.87	1.09	480.89
98.50	765.14	0.57	740.87	1.10	479.63
98.60	766.11	0.57	740.87	1.10	478.36
98.70	766.37	0.57	740.87	1.09	477.03
98.80	764.24	0.57	740.87	1.09	475.63
98.90	764.87	0.57	740.86	1.09	474.35
99.00	765.38	0.57	740.86	1.09	473.07

99.10	766.17	0.57	740.86	1.09	471.77
99.20	764.72	0.57	740.86	1.09	470.49
99.30	766.26	0.57	740.86	1.08	469.13
99.40	762.87	0.56	740.86	1.09	467.90
99.50	735.69	0.56	740.86	1.12	466.69
99.60	736.93	0.56	740.86	1.12	465.35
99.70	733.56	0.56	740.86	1.12	464.07
99.80	736.69	0.56	740.86	1.12	462.91
99.90	735.91	0.56	740.86	1.12	461.68
100.00	735.16	0.56	740.86	1.12	460.65

THE MAXIMUM DISCHARGE FROM CROSS SECTION 5 IS: 1089.92 CFS AT TIME: 47.52 HOURS

THE TOTAL VOLUME OF DISCHARGE IS: 4923.34 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO:

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

ттмг	FLOW LITETU	AVE DEDTH	UC FLEW	VELOCITY	DICCHARGE
TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00

4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70 5.80	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	212.33	0.00	728.69	-0.00	-0.00
7.10	386.65	0.00	728.69	-0.01	-0.01
7.20	470.71	0.00	728.69	-0.00	-0.01
7.30	487.88	0.00	728.69	-0.01	-0.01
7.40	500.00	0.00	728.69	-0.01	-0.01
7.50	520.20	0.00	728.69	-0.01	-0.01
7.60	529.29	0.00	728.69	-0.01	-0.01
7.70 7.80	548.98 558.58	0.00 0.00	728.69 728.69	-0.01 -0.01	-0.02 -0.02
7.90	567.57	0.00	728.69	-0.01	-0.02
8.00	613.84	0.00	728.69	-0.01	-0.03
8.10	660.32	0.00	728.69	-0.01	-0.03
8.20	689.47	0.00	728.69	-0.01	-0.03
8.30	705.02	0.01	728.70	-0.01	-0.03
8.40	716.68	0.01	728.70	-0.01	-0.03
8.50	737.94	0.01	728.70	-0.01	-0.03
8.60	763.60	0.01	728.70	-0.01	-0.03
8.70	771.97	0.01	728.70	-0.01	-0.03
8.80	837.99	0.01	728.70	-0.01	-0.04
8.90	893.86	0.01	728.70	-0.00	-0.04
9.00	1022.18	0.01	728.70	-0.00	-0.02
9.10	1022.18	0.01	728.70	-0.00	-0.02
9.20	1022.18	0.01	728.70	-0.00	-0.02
9.30	1022.18	0.01	728.70	-0.00	-0.02
9.40 9.50	1026.93	0.01	728.70	-0.00	-0.02
9.60	1086.38 1188.67	0.01 0.01	728.70 728.70	-0.00 0.00	-0.01 0.00
9.70	1245.99	0.01	728.70	0.00	0.01
9.80	1328.49	0.01	728.70	0.00	0.02
9.90	1390.77	0.01	728.70	0.00	0.02
10.00	1435.47	0.01	728.70	0.00	0.02
10.10	1477.28	0.01	728.70	0.00	0.03
10.20	1534.31	0.02	728.70	0.00	0.04
10.30	1593.21	0.02	728.71	0.00	0.05
10.40	1619.30	0.02	728.71	0.00	0.07
10.50	1668.40	0.03	728.71	0.00	0.10

10.60	1757.18	0.03	728.72	0.00	0.13
10.70	1786.30	0.03	728.72	0.00	0.16
10.80	1846.05	0.03	728.72	0.00	0.18
10.90	1929.39	0.03	728.72	0.00	0.22
11.00	1970.84	0.04	728.73	0.00	0.27
	2073.92				
11.10		0.04	728.73	0.00	0.33
11.20	2129.28	0.04	728.73	0.00	0.38
11.30	2168.43	0.04	728.73	0.00	0.47
11.40	2235.85	0.05	728.74	0.01	0.55
11.50	2295.25	0.05	728.74	0.01	0.63
11.60	2396.12	0.06	728.75	0.01	0.82
11.70	2550.91	0.07	728.76	0.01	1.15
11.80	2655.60	0.09	728.78	0.01	1.64
11.90	2718.41	0.12	728.81	0.01	3.02
12.00	2693.08	0.16	728.85	0.01	5.66
12.10	2743.09	0.20	728.89	0.02	11.20
12.20	2717.97	0.23	728.92	0.02	15.22
12.30	2685.87	0.26	728.95	0.03	21.57
12.40	2715.97	0.29	728.98	0.04	28.05
12.50	2707.66	0.31	729.00	0.04	35.17
12.60	2698.84	0.33	729.02	0.05	40.80
12.70	2667.77	0.34	729.03	0.05	44.17
12.80	2656.59	0.35	729.04	0.05	47.54
12.90	2675.44	0.35	729.04	0.05	50.76
13.00	2675.60	0.36	729.05	0.06	53.69
13.10	2664.48	0.36	729.05	0.06	55.82
13.20	2659.13	0.37	729.06	0.06	57.91
13.30	2658.56	0.37	729.06	0.06	60.17
13.40	2658.56	0.37	729.06	0.06	63.66
13.50	2658.56	0.38	729.07	0.07	67.29
13.60	2658.56	0.38	729.07	0.07	70.98
13.70	2658.56	0.38	729.07	0.07	73.60
13.80	2658.56	0.39	729.08	0.07	76.12
13.90	2658.56	0.39	729.08	0.08	78.61
14.00	2658.56	0.39	729.08	0.08	81.05
14.10	2658.28	0.40	729.09	0.08	83.39
14.20	2657.42	0.40	729.09	0.08	85.71
14.30	2658.28	0.40	729.09	0.08	88.11
14.40	2658.56	0.41	729.10	0.08	90.77
14.50	2657.42	0.41	729.10	0.09	93.40
14.60	2650.24	0.41	729.10	0.09	95.92
14.70	2643.92	0.42	729.11	0.09	97.94
14.80	2640.76	0.42	729.11	0.09	100.34
14.90	2638.55	0.42	729.11	0.09	102.78
15.00	2612.77	0.42	729.11	0.10	105.17
15.10	2585.14	0.43	729.12	0.10	107.69
15.20	2577.70	0.43	729.12	0.10	110.41
15.30	2569.29	0.43	729.12	0.10	113.30
15.40	2562.33	0.43	729.12	0.10	116.38
15.50	2546.59	0.44	729.13	0.11	119.61
15.60	2521.59	0.44	729.13	0.11	123.15
15.70	2499.24	0.44	729.13	0.12	126.98
15.80	2513.59	0.44	729.13	0.12	131.04
15.90	2495.25	0.45	729.14	0.12	135.24
16.00	2481.89	0.45	729.14	0.13	140.04
16.10	2447.86	0.45	729.14	0.13	144.51
16.20	2425.64	0.46	729.15	0.13	149.35
16.30	2396.06	0.46	729.15	0.14	154.06
16.40	2419.19	0.46	729.15	0.14	159.73
10.40		3.40	, 27, 13	0.17	133.73

16.50	2423.59	0.47	729.16	0.15	165.55
16.60	2423.65	0.47	729.16	0.15	171.40
16.70	2423.00	0.48	729.17	0.15	177.26
16.80	2408.42	0.48	729.17	0.16	183.22
16.90	2402.00	0.49	729.18	0.16	189.25
17.00	2422.76	0.49	729.18	0.16	195.47
17.10	2421.88	0.50	729.19	0.17	201.70
17.20	2423.95	0.50	729.19	0.17	207.72
17.30	2426.02	0.51	729.19	0.18	214.60
17.40	2426.02	0.51	729.20	0.18	221.04
17.50	2426.71	0.51	729.20	0.18	227.55
17.60	2424.54	0.52	729.21	0.19	233.95
17.70	2423.65	0.52	729.21	0.19	240.39
17.80	2423.72	0.53	729.22	0.19	246.54
17.90	2422.82	0.53	729.22	0.20	252.40
18.00	2422.76	0.53	729.22	0.20	258.07
18.10	2419.53	0.54	729.23	0.20	263.91
18.20	2421.93	0.54	729.23	0.21	269.60
18.30	2423.12	0.55	729.23	0.21	275.04
18.40	2423.18	0.55	729.24	0.21	280.04
18.50	2423.72	0.55	729.24	0.21	284.62
18.60	2424.91	0.55	729.24	0.22	289.28
18.70	2424.39	0.56	729.25	0.22	294.34
18.80	2423.72	0.56	729.25	0.22	298.95
18.90	2400.23	0.56	729.25	0.22	303.46
19.00	2397.52	0.57	729.26	0.23	307.47
19.10	2395.03	0.57	729.26	0.23	311.64
19.20	2366.87	0.57	729.26	0.23	315.60
19.30	2353.68	0.57	729.26	0.24	319.36
19.40	2355.49	0.58	729.27	0.24	322.98
19.50	2355.89	0.58	729.27	0.24	326.46
19.60	2355.19	0.58	729.27	0.24	329.79
19.70	2355.49	0.58	729.27	0.24	332.95
19.80	2355.89	0.59	729.27	0.24	335.87
19.90	2337.68	0.59	729.28	0.25	338.73
20.00	2334.84	0.59	729.28	0.25	341.53
20.10	2336.77	0.59	729.28	0.25	344.27
20.20	2336.36	0.59	729.28	0.25	346.86
20.30	2337.89	0.59	729.28	0.25	349.48
20.40	2338.20	0.60	729.28	0.25	352.03
20.50	2339.72	0.60	729.29	0.25	354.45
20.60	2340.94	0.60	729.29	0.25	356.90
20.70	2341.86	0.60	729.29	0.26	359.26
20.80	2347.36	0.60	729.29	0.26	361.67
20.90	2349.48	0.60	729.29	0.26	364.11
21.00	2352.23	0.60	729.29	0.26	366.03
21.10	2354.14	0.60	729.29	0.26	368.40
21.20	2339.03	0.61	729.30	0.26	370.94
21.30	2338.20	0.61	729.30	0.26	373.41
21.40	2339.03	0.61	729.30	0.26	375.86
21.50	2340.88	0.61	729.30	0.27	378.40
21.60	2339.03	0.61	729.30	0.27	380.94
21.70	2341.19	0.61	729.30	0.27	383.62
21.80	2339.65	0.61	729.30	0.27	386.19
21.90	2337.67	0.62	729.30	0.27	388.79
22.00	2297.61	0.62	729.31	0.28	391.40
22.10	2296.69	0.62	729.31	0.28	394.17
22.20	2297.85	0.62	729.31	0.28	396.47
22.30	2327.93	0.62	729.31	0.28	399.69

22.40	2381.93	0.62	729.31	0.27	402.81
22.50	2382.92	0.62	729.31	0.27	405.85
22.60	2383.49	0.62	729.31	0.27	408.95
22.70	2383.23	0.63	729.32	0.28	412.16
22.80	2384.43	0.63	729.32	0.28	415.53
22.90	2384.12	0.63	729.32	0.28	418.84
23.00	2384.74	0.63	729.32	0.28	421.77
23.10	2384.12	0.63	729.32	0.28	425.51
23.20	2385.67	0.63	729.32	0.28	429.16
23.30	2385.05	0.64	729.33	0.29	433.14
23.40	2385.05	0.64	729.33	0.29	436.35
23.50	2385.33	0.64	729.33	0.29	440.30
23.60	2391.59	0.64	729.33	0.29	444.25
23.70	2394.71	0.64	729.33	0.29	448.10
23.80	2394.78	0.65	729.33	0.29	452.15
23.90	2394.15	0.65	729.34	0.29	456.06
24.00	2394.09	0.65	729.34	0.30	460.11
24.10	2393.84	0.65	729.34	0.30	463.95
24.20	2393.21	0.65	729.34	0.30	467.47
24.30	2392.84	0.65	729.34	0.30	471.17
24.40	2392.58	0.66	729.35	0.30	474.94
24.50	2340.93	0.66	729.35	0.31	478.69
24.60	2312.58	0.66	729.35	0.32	482.46
24.70	2304.08	0.66	729.35	0.32	486.45
24.80	2306.92	0.66	729.35	0.32	490.18
24.90	2333.41	0.66	729.35	0.32	494.08
25.00	2331.17	0.67	729.35	0.32	498.01
25.10	2302.82	0.67	729.36	0.33	501.59
25.20	2287.17	0.67	729.36	0.33	505.60
25.30	2258.88	0.67	729.36	0.34	509.48
25.40	2271.87	0.67	729.36	0.34	513.36
25.50	2268.31	0.67	729.36	0.34	517.21
25.60	2266.22	0.67	729.36	0.34	521.05
25.70	2224.62	0.68	729.37	0.35	524.95
25.80	2187.47	0.68	729.37	0.36	528.75
25.90	2182.41	0.68	729.37	0.36	532.59
26.00	2179.54	0.68	729.37	0.36	536.41
26.10	2169.67	0.68	729.37	0.36	540.18
26.20	2116.55	0.68	729.37	0.38	544.01
26.30	2101.19	0.69	729.38	0.38	547.83
26.40	2099.28	0.69	729.38	0.38	551.51
26.50	2096.42	0.69	729.38	0.38	555.32
26.60	2086.99	0.69	729.38	0.39	559.04
26.70	2065.22	0.69	729.38	0.39	562.83
26.80	2064.26	0.69	729.38	0.40	566.48
26.90	2062.53	0.70	729.38	0.40	570.05
27.00	2060.12	0.70	729.39	0.40	573.79
27.10	2059.31	0.70	729.39	0.40	577.50
27.20	2056.94	0.70	729.39	0.40	581.18
27.30	2055.45	0.70	729.39	0.41	584.88
27.40	2052.55	0.70	729.39	0.41	588.62
27.50	2032.45	0.70	729.39	0.41	592.16
27.60	2003.73	0.71	729.40	0.42	595.88
27.70	2001.79	0.71	729.40	0.42	599.30
27.80	2001.79	0.71	729.40	0.42	602.90
27.90	1977.33	0.71	729.40	0.43	606.37
28.00	1967.36	0.71	729.40	0.44	609.76
28.10	1940.00	0.71	729.40	0.44	613.44
28.20	1940.64	0.72	729.40	0.44	616.75

28.30	1939.03	0.72	729.41	0.45	620.35
28.40	1937.97	0.72	729.41	0.45	623.86
28.50	1936.14	0.72	729.41	0.45	627.10
28.60	1939.35	0.72	729.41	0.45	630.63
28.70	1940.58	0.72	729.41	0.45	634.11
28.80	1954.16	0.72	729.41	0.45	637.43
28.90	1975.07	0.73	729.42	0.45	640.84
29.00	1974.11	0.73	729.42	0.45	644.31
29.10	1968.89	0.73	729.42	0.45	647.63
29.20	1967.59	0.73	729.42	0.45	650.95
29.30	1992.12	0.73	729.42	0.45	654.44
29.40	2009.34	0.73	729.42	0.45	657.83
29.50	2008.03	0.74	729.42	0.45	661.17
29.60	2008.36	0.74	729.43	0.45	664.52
29.70	2007.38	0.74	729.43	0.45	667.81
29.80	2007.38	0.74	729.43	0.45	671.06
29.90	1977.44	0.74	729.43	0.46	674.40
30.00	1950.76	0.74	729.43	0.47	677.68
30.10	1949.46	0.74	729.43	0.47	680.94
30.20	1951.73				
		0.75	729.43	0.47	684.19
30.30	1953.36	0.75	729.44	0.47	687.35
30.40	1944.09	0.75	729.44	0.47	690.61
30.50	1937.09	0.75	729.44	0.48	693.85
30.60	1903.24	0.75	729.44	0.49	697.09
30.70	1885.84	0.75	729.44	0.49	700.08
30.80	1873.63	0.75	729.44	0.50	703.53
30.90	1852.60	0.75	729.44	0.51	706.76
31.00	1841.09	0.76	729.45	0.51	709.81
31.10	1835.16	0.76	729.45	0.51	713.16
31.20	1833.84	0.76	729.45	0.52	716.38
31.30	1830.67	0.76	729.45	0.52	719.57
31.40	1807.19	0.76	729.45	0.53	722.77
31.50	1796.33	0.76	729.45	0.53	726.10
31.60	1794.02	0.76	729.45	0.53	729.30
31.70	1790.73	0.76	729.45	0.53	732.54
31.80					735.81
	1775.76	0.77	729.46	0.54	
31.90	1776.70	0.77	729.46	0.54	739.11
32.00	1775.57	0.77	729.46	0.54	742.35
32.10	1753.18	0.77	729.46	0.55	745.66
32.20	1742.26	0.77	729.46	0.56	748.92
32.30	1739.74	0.77	729.46	0.56	752.13
32.40	1756.98	0.77	729.46	0.56	755.48
32.50	1769.42	0.78	729.46	0.55	758.80
32.60	1769.32	0.78	729.47	0.55	762.06
32.70	1767.58	0.78	729.47	0.56	765.41
32.80	1779.83	0.78	729.47	0.55	768.72
32.90	1795.13	0.78	729.47	0.55	772.05
33.00	1776.14	0.78	729.47	0.56	775.33
33.10	1761.38	0.78	729.47	0.56	778.58
33.20	1762.20	0.79	729.47	0.57	781.91
33.30	1750.85	0.79	729.48	0.57	784.93
33.40	1737.51	0.79	729.48	0.58	788.08
		0.79	729.48	0.58 0.58	790.90
33.50	1735.38				
33.60	1734.30	0.79	729.48	0.58	794.19
33.70	1732.03	0.79	729.48	0.58	797.57
33.80	1728.50	0.79	729.48	0.58	800.65
33.90	1741.67	0.80	729.48	0.58	803.83
34.00	1752.55	0.80	729.49	0.58	807.22
34.10	1751.54	0.80	729.49	0.58	810.74

34.20	1774.51	0.80	729.49	0.57	813.80
34.30	1777.06	0.80	729.49	0.57	817.00
34.40	1773.34	0.80	729.49	0.58	820.37
34.50	1773.09	0.80	729.49	0.58	823.71
34.60	1772.24	0.81	729.50	0.58	827.02
34.70	1763.14	0.81	729.50	0.58	830.35
34.80	1714.99	0.81	729.50	0.60	833.67
34.90	1702.54	0.81	729.50	0.61	837.08
35.00	1690.41	0.81	729.50	0.61	840.58
35.10	1695.50	0.81	729.50	0.61	844.15
35.20	1705.75	0.82	729.51	0.61	847.32
35.30	1702.62	0.82	729.51	0.61	850.68
35.40	1702.16	0.82	729.51	0.61	854.04
35.50	1702.10	0.82	729.51	0.61	857.71
35.60	1700.44	0.82	729.51	0.62	861.13
35.70	1707.18	0.82	729.51	0.62	864.86
35.80	1736.08	0.83	729.51	0.61	868.26
35.90	1735.17	0.83	729.52	0.61	871.69
36.00	1742.96	0.83	729.52	0.61	875.28
36.10	1745.07	0.83	729.52	0.61	878.87
36.20	1747.14	0.83	729.52	0.61	882.46
36.30	1764.18	0.83	729.52	0.60	885.96
	1791.60	0.84	729.52	0.59	889.44
36.40 36.50	1834.67	0.84 0.84	729.52	0.58	892.96
		0.84	729.53	0.58	
36.60	1848.29				896.24
36.70	1864.36	0.84	729.53	0.57	899.46
36.80	1867.31	0.84	729.53	0.57	902.82
36.90	1866.65	0.84	729.53	0.58	906.08
37.00	1867.20	0.85	729.53	0.58	909.40
37.10	1868.15	0.85	729.54	0.58	912.49
37.20	1920.37	0.85	729.54	0.56	915.52
37.30	1981.44	0.85	729.54	0.55	918.80
37.40	2021.53	0.85	729.54	0.54	922.41
37.50	2041.41	0.85	729.54	0.53	925.97
37.60	2056.05	0.86	729.55	0.53	929.44
37.70	2069.81	0.86	729.55	0.53	932.81
37.80	2043.83	0.86	729.55	0.53	936.07
37.90	2046.60	0.86	729.55	0.53	938.98
38.00	2028.46	0.86	729.55	0.54	942.03
38.10	2017.48	0.87	729.56	0.54	944.96
38.20	2015.90	0.87	729.56	0.54	948.12
38.30	2015.98	0.87	729.56	0.54	951.26
38.40	2038.16	0.87	729.56	0.54	954.12
38.50	2072.65	0.87	729.56	0.53	957.03
38.60	2073.36	0.88	729.57	0.53	959.80
38.70	2071.33	0.88	729.57	0.53	962.71
38.80	2070.94	0.88	729.57	0.53	965.30
38.90	2069.94	0.88	729.57	0.53	968.08
39.00	2065.56	0.89	729.58	0.53	971.04
39.10	2030.86	0.89	729.58	0.54	973.87
39.20	2018.03	0.89	729.58	0.54	976.54
39.30	2016.50	0.89	729.58	0.54	979.32
39.40	2020.21	0.90	729.59	0.54	981.76
39.50	2062.81	0.90	729.59	0.53	984.32
39.60	2062.17	0.90	729.59	0.53	987.03
39.70	2062.00	0.90	729.59	0.53	989.42
39.80	2077.14	0.91	729.59	0.53	992.22
39.90	2082.83	0.91	729.60	0.53	994.98
40.00	2084.45	0.91	729.60	0.53	997.57

40.10	2080.97	0.91	729.60	0.53	1000.05
40.20	2079.24	0.92	729.60	0.53	1002.65
40.30	2061.85	0.92	729.61	0.53	1004.86
40.40	2045.11	0.92	729.61	0.54	1007.22
40.50	2044.10	0.92	729.61	0.54	1009.75
40.60	2041.95	0.92	729.61	0.54	1012.01
40.70	2063.79	0.93	729.62	0.53	1014.35
40.80	2069.29	0.93	729.62	0.53	1016.74
40.90	2069.84	0.93	729.62	0.53	1019.15
41.00	2050.49	0.93	729.62	0.53	1021.40
41.10	2059.74	0.94	729.62	0.53	1023.63
41.20	2092.40	0.94	729.63	0.52	1025.87
41.30	2094.32	0.94	729.63	0.52	1027.95
41.40	2096.43	0.94	729.63	0.52	1029.83
41.50	2099.65	0.94	729.63	0.52	1031.88
41.60	2102.54	0.95	729.63	0.52	1033.79
41.70	2118.60	0.95	729.64	0.52	1035.76
41.80	2108.84	0.95	729.64	0.52	1037.48
41.90	2111.87	0.95	729.64	0.52	1039.16
42.00	2122.56	0.95	729.64	0.51	1040.94
42.10	2139.58	0.95	729.64	0.51	1042.71
42.20	2134.87	0.96	729.65	0.51	1044.52
42.30	2133.80	0.96	729.65	0.51	1046.21
42.40 42.50	2148.21 2138.22	0.96 0.96	729.65 729.65	0.51 0.51	1048.05 1049.72
42.50	2117.39	0.96	729.65	0.51	1051.20
42.70	2117.39	0.97	729.66	0.52	1051.20
42.70	2117.20	0.97	729.66	0.51	1054.39
42.90	2126.77	0.97	729.66	0.51	1055.98
43.00	2127.66	0.97	729.66	0.51	1057.39
43.10	2127.96	0.97	729.66	0.51	1058.88
43.20	2127.56	0.97	729.66	0.51	1060.40
43.30	2127.16	0.98	729.67	0.51	1061.70
43.40	2126.90	0.98	729.67	0.51	1063.15
43.50	2126.21	0.98	729.67	0.51	1064.45
43.60	2133.88	0.98	729.67	0.51	1065.58
43.70	2144.86	0.98	729.67	0.51	1066.84
43.80	2143.73	0.98	729.67	0.51	1068.07
43.90	2142.58	0.99	729.67	0.51	1069.26
44.00	2145.59	0.99	729.68	0.51	1070.33
44.10	2177.04	0.99	729.68	0.50	1071.42
44.20	2178.91	0.99	729.68	0.50	1072.53
44.30	2181.35	0.99	729.68	0.50	1073.61
44.40	2182.63	0.99	729.68	0.50	1074.43
44.50	2185.07	0.99	729.68	0.50	1075.16
44.60	2188.90	0.99	729.68	0.49	1076.19
44.70	2192.23	1.00	729.68	0.49	1077.18
44.80	2206.37	1.00	729.69	0.49	1078.11
44.90	2230.13	1.00	729.69	0.48	1079.00
45.00	2233.10	1.00	729.69	0.48	1079.82
45.10	2237.19	1.00	729.69	0.48	1080.59
45.20	2241.48	1.00	729.69	0.48	1081.21
45.30	2241.32	1.00	729.69	0.48	1081.77
45.40	2248.15	1.00	729.69	0.48	1082.58
45.50	2252.59	1.00	729.69	0.48	1083.28
45.60	2252.82	1.00	729.69	0.48	1083.83
45.70 45.80	2254.17 2254.73	1.01 1.01	729.70 729.70	0.48 0.48	1084.40 1084.90
45.80	2255.48	1.01	729.70	0.48	1085.33
43.30	2233.40	1.01	123.10	0.40	1003.33

46.00	2255.90	1.01	729.70	0.48	1085.82
46.10	2256.40	1.01	729.70	0.48	1086.25
46.20	2257.46	1.01	729.70	0.48	1086.72
46.30	2258.57	1.01	729.70	0.48	1087.15
46.40	2258.57	1.01	729.70	0.48	1087.55
46.50	2258.57	1.01	729.70	0.48	1087.86
46.60	2258.57	1.01	729.70	0.48	1088.17
46.70	2258.57	1.01	729.70	0.48	1088.48
46.80	2258.57	1.01	729.70	0.48	1088.77
46.90	2258.57	1.01	729.70	0.48	1089.01
47.00	2258.57	1.02	729.70	0.48	1089.21
47.10	2258.57	1.02	729.70	0.47	1089.40
47.10	2258.57	1.02	729.71	0.47	1089.55
47.20	2258.57	1.02	729.71	0.47	1089.68
			729.71	0.47	
47.40	2258.57	1.02	729.71		1089.77
47.50	2258.57	1.02		0.47	1089.84
47.60	2258.57	1.02	729.71	0.47	1089.80
47.70	2258.57	1.02	729.71	0.47	1089.79
47.80	2258.57	1.02	729.71	0.47	1089.81
47.90	2260.14	1.02	729.71	0.47	1089.77
48.00	2286.31	1.02	729.71	0.47	1089.69
48.10	2288.50	1.02	729.71	0.47	1089.57
48.20	2288.92	1.02	729.71	0.47	1089.46
48.30	2288.26	1.02	729.71	0.47	1089.29
48.40	2286.81	1.02	729.71	0.47	1089.09
48.50	2284.65	1.02	729.71	0.47	1088.89
48.60	2295.34	1.02	729.71	0.46	1088.65
48.70	2296.83	1.02	729.71	0.46	1088.38
48.80	2296.77	1.02	729.71	0.46	1088.09
48.90	2298.42	1.02	729.71	0.46	1087.78
49.00	2299.99	1.02	729.71	0.46	1087.45
49.10	2299.99	1.02	729.71	0.46	1087.07
49.20	2299.99	1.02	729.71	0.46	1086.69
49.30	2299.99	1.02	729.71	0.46	1086.27
49.40	2298.05	1.02	729.71	0.46	1085.83
49.50	2294.07	1.02	729.71	0.46	1085.38
49.60	2291.23	1.02	729.71	0.46	1084.87
49.70	2288.05	1.02	729.71	0.46	1084.37
49.80	2284.54	1.02	729.71	0.46	1083.86
49.90	2281.82	1.02	729.71	0.46	1083.32
50.00	2284.45	1.02	729.71	0.46	1082.76
50.10	2282.89	1.02	729.71	0.46	1082.17
50.20	2281.79	1.02	729.71	0.46	1081.55
50.30	2282.95	1.02	729.71	0.46	1080.90
50.40	2281.65	1.02	729.71	0.46	1080.31
50.50	2279.63	1.02	729.71	0.46	1079.84
50.60	2271.89	1.02	729.71	0.47	1079.08
50.70	2267.00	1.02	729.71	0.47	1078.24
50.80	2261.58	1.02	729.71	0.47	1077.40
50.90	2258.57	1.02	729.71	0.47	1076.55
51.00	2258.57	1.02	729.71	0.47	1075.71
51.10	2258.57	1.02	729.71	0.47	1074.89
51.10	2258.57	1.02	729.71	0.47	1074.04
51.30	2258.57	1.02	729.71	0.47	1073.17
51.40	2258.57	1.02	729.71	0.47	1072.33
51.50	2258.57	1.02	729.71	0.47	1071.48
51.60	2258.57	1.02	729.71	0.47	1070.60
51.70	2258.57	1.02	729.71	0.47	1069.64
51.80	2258.57	1.02	729.71	0.47	1068.65

51.90	2258.57	1.02	729.70	0.47	1067.67
52.00	2258.57	1.02	729.70	0.47	1066.71
52.10	2258.57	1.01	729.70	0.46	1065.73
52.20	2258.04	1.01	729.70	0.46	1064.68
52.30	2254.04	1.01	729.70	0.47	1063.62
52.40	2251.45	1.01	729.70	0.47	1062.51
52.50	2249.26	1.01	729.70	0.47	1061.40
52.60	2247.34	1.01	729.70	0.47	1060.26
52.70	2245.14	1.01	729.70	0.47	1059.18
52.80	2240.89	1.01	729.70	0.47	1058.08
52.90	2236.73	1.01	729.70	0.47	1056.85
53.00	2245.49	1.01	729.70	0.47	1055.65
53.10	2261.52	1.01	729.70	0.46	1054.48
53.20	2260.74	1.01	729.70	0.46	1053.36
53.30	2261.68	1.01	729.70	0.46	1052.22
53.40	2259.05	1.01	729.70	0.46	1050.97
53.50	2258.57	1.01	729.70	0.46	1049.67
53.60	2232.33	1.01	729.69	0.47	1048.35
53.70	2229.28	1.00	729.69	0.47	1047.21
53.80	2229.28	1.00	729.69	0.47	1045.94
53.90	2229.28	1.00	729.69	0.47	1044.59
54.00	2229.28	1.00	729.69	0.47	1043.17
54.10	2216.07	1.00	729.69	0.47	1041.94
54.20	2203.19	1.00	729.69	0.47	1040.66
54.30	2203.52	1.00	729.69	0.47	1039.30
54.40	2203.07	1.00	729.69	0.47	1037.92
54.50	2203.15	1.00	729.69	0.47	1036.51
54.60	2202.99	1.00	729.69	0.47	1035.09
54.70	2202.80	1.00	729.69	0.47	1033.73
54.80	2203.38	1.00	729.69	0.47	1032.37
54.90	2202.72	0.99	729.68	0.47	1030.91
55.00	2202.79	0.99	729.68	0.47	1029.43
55.10	2202.58	0.99	729.68	0.47	1028.00
55.20	2202.63	0.99	729.68	0.47	1026.48
55.30	2202.14	0.99	729.68	0.47	1025.01
55.40	2202.12	0.99	729.68	0.47	1023.60
55.50	2201.88	0.99	729.68	0.47	1022.17
55.60	2201.94	0.99	729.68	0.47	1020.64
55.70	2201.99	0.99	729.68	0.47	1019.19
55.80	2202.04	0.99	729.68	0.47	1017.69
55.90	2201.03	0.99	729.67	0.47	1016.09
56.00	2201.03	0.98	729.67	0.47	1014.55
56.10	2233.23	0.98	729.67	0.46	1012.88
56.20	2229.52	0.98	729.67	0.46	1011.34
56.30	2222.14	0.98	729.67	0.46	1009.75
56.40	2215.76	0.98	729.67	0.46	1008.13
56.50	2212.32	0.98	729.67	0.46	1006.55
56.60	2206.58	0.98	729.67	0.47	1005.07
56.70	2204.25	0.98	729.67	0.47	1003.51
56.80	2202.70	0.98	729.67	0.47	1001.83
56.90	2199.99	0.97	729.66	0.47	1000.24
57.00	2194.97	0.97	729.66	0.47	998.52
57.10	2188.72	0.97	729.66	0.47	996.85
57.20	2182.64	0.97	729.66	0.47	995.15
57.30	2182.18	0.97	729.66	0.47	993.54
57.40	2181.96	0.97	729.66	0.47	991.84
57.50	2185.60	0.97	729.66	0.47	990.15
57.60	2184.57	0.97	729.66	0.47	988.42
57.70	2182.95	0.97	729.65	0.47	986.72

57.80	2181.55	0.96	729.65	0.47	985.06
57.90	2158.37	0.96	729.65	0.47	983.32
58.00	2134.07	0.96	729.65	0.48	981.64
58.10	2133.83	0.96	729.65	0.48	979.92
58.20	2133.99	0.96	729.65	0.48	978.50
58.30	2133.35	0.96	729.65	0.48	976.64
58.40	2133.94	0.96	729.65	0.48	975.03
58.50	2155.40	0.96	729.64	0.47	973.20
58.60	2161.55	0.95	729.64	0.47	971.40
58.70	2162.16	0.95	729.64	0.47	969.56
58.80	2163.03	0.95	729.64	0.47	967.77
58.90	2162.55	0.95	729.64	0.47	966.05
59.00	2162.59	0.95	729.64	0.47	964.22
59.10	2162.63	0.95	729.64	0.47	962.39
59.20	2162.10	0.95	729.64	0.47	960.56
59.30	2162.50	0.95	729.63	0.47	958.70
59.40	2161.50	0.94	729.63	0.47	956.97
59.50	2159.97	0.94	729.63	0.47	955.36
59.60	2157.85	0.94	729.63	0.47	953.79
59.70	2156.13	0.94	729.63	0.47	952.09
59.80	2155.28	0.94	729.63	0.47	950.44
59.90	2157.29	0.94	729.63	0.47	948.70
60.00	2162.23	0.94	729.63	0.47	946.81
60.10	2161.73	0.93	729.62	0.47	944.91
60.20	2161.79	0.93	729.62	0.47	942.85
60.30	2161.30	0.93	729.62	0.47	940.91
60.40	2161.91	0.93	729.62	0.47	939.28
60.50	2161.36	0.93	729.62	0.47	937.52
60.60	2161.54	0.93	729.62	0.47	935.55
60.70	2172.57	0.93	729.62	0.46	933.66
60.80	2169.29	0.93	729.61	0.46	931.81
60.90	2169.48	0.92	729.61	0.46	929.86
61.00	2170.23	0.92	729.61	0.46	927.96
61.10	2160.26	0.92	729.61	0.47	926.13
61.20	2152.51	0.92	729.61	0.47	924.48
61.30	2157.31	0.92	729.61	0.47	922.54
61.40	2159.08	0.92	729.61	0.47	920.69
61.50	2157.27	0.92	729.60	0.47	918.75
61.60	2152.44	0.91	729.60	0.47	917.15
61.70	2158.57	0.91	729.60	0.46	915.14
61.80	2160.95	0.91	729.60	0.46	913.13
61.90	2162.72	0.91	729.60	0.46	911.03
62.00	2161.07	0.91	729.60	0.46	909.08
62.10	2163.45	0.91	729.60	0.46	907.04
62.20	2162.23	0.91	729.59	0.46	905.11
62.30	2161.23	0.90	729.59	0.46	903.25
62.40	2161.52	0.90	729.59	0.46	901.30
62.50	2161.37	0.90	729.59	0.46	899.24
62.60	2163.13	0.90	729.59	0.46	897.44
62.70	2165.46	0.90	729.59	0.46	895.22
62.80	2156.29	0.90	729.59	0.46	892.95
62.90	2110.01	0.89	729.58	0.47	890.76
63.00	2090.76	0.89	729.58	0.48	888.77
63.10	2095.11	0.89	729.58	0.47	886.72
63.20	2099.35	0.89	729.58	0.47	884.66
63.30	2109.96	0.89	729.58	0.47	882.57
63.40	2114.36	0.89	729.58	0.47	880.57
63.50	2112.31	0.89	729.58	0.47	878.46
63.60	2110.41	0.88	729.57	0.47	876.32

63.70	2105.63	0.88	729.57	0.47	874.26
63.80	2101.99	0.88	729.57	0.47	872.20
63.90	2098.94	0.88	729.57	0.47	870.15
64.00	2093.77	0.88	729.57	0.47	868.35
64.10	2089.50	0.88	729.57	0.47	866.47
	2078.93				864.53
64.20		0.88	729.56	0.48	
64.30	2070.11	0.87	729.56	0.48	862.27
64.40	2069.42	0.87	729.56	0.48	860.18
64.50	2068.92	0.87	729.56	0.48	858.35
64.60	2068.33	0.87	729.56	0.48	856.32
64.70	2068.59	0.87	729.56	0.48	854.03
64.80	2069.32	0.87	729.56	0.48	851.76
64.90	2066.78	0.86	729.55	0.48	849.91
65.00	2066.30	0.86	729.55	0.48	847.69
65.10	2065.89	0.86	729.55	0.48	845.45
65.20	2065.49	0.86	729.55	0.47	843.18
65.30	2065.58	0.86	729.55	0.47	841.09
65.40	2064.68	0.86	729.55	0.47	839.06
	2064.08				836.95
65.50		0.86	729.54	0.47	
65.60	2064.42	0.85	729.54	0.47	834.87
65.70	2056.92	0.85	729.54	0.48	832.75
65.80	2032.59	0.85	729.54	0.48	830.76
65.90	2031.82	0.85	729.54	0.48	828.67
66.00	2032.23	0.85	729.54	0.48	826.62
66.10	2031.82	0.85	729.54	0.48	824.61
66.20	2028.24	0.84	729.53	0.48	822.52
66.30	2031.92	0.84	729.53	0.48	820.53
66.40	2031.97	0.84	729.53	0.48	818.51
66.50	2032.04	0.84	729.53	0.48	816.47
66.60	2032.04	0.84	729.53	0.48	814.32
66.70	2031.74	0.84	729.53	0.48	812.11
	2031.74		729.53	0.48	810.06
66.80		0.84			
66.90	2031.57	0.83	729.52	0.48	808.03
67.00	2031.63	0.83	729.52	0.48	806.27
67.10	2031.41	0.83	729.52	0.48	803.99
67.20	2031.16	0.83	729.52	0.48	801.72
67.30	2024.03	0.83	729.52	0.48	799.74
67.40	2020.07	0.83	729.52	0.48	797.62
67.50	2017.66	0.82	729.51	0.48	795.47
67.60	2015.38	0.82	729.51	0.48	793.39
67.70	1996.14	0.82	729.51	0.48	791.43
67.80	1989.27	0.82	729.51	0.48	789.57
67.90	1984.81	0.82	729.51	0.48	787.25
68.00	1968.80	0.82	729.51	0.49	785.04
68.10	1953.84	0.82	729.50	0.49	782.89
68.20	1947.55	0.81	729.50	0.49	780.71
68.30	1939.14	0.81	729.50	0.49	778.65
68.40	1935.38	0.81	729.50	0.49	776.54
68.50	1931.15	0.81	729.50	0.50	774.49
68.60	1922.31	0.81	729.50	0.50	772.44
68.70	1917.35	0.81	729.50	0.50	770.37
68.80	1905.67	0.81	729.49	0.50	768.22
68.90	1896.79	0.80	729.49	0.50	766.11
69.00	1883.87	0.80	729.49	0.51	764.15
69.10	1879.20	0.80	729.49	0.51	762.10
69.20	1878.12	0.80	729.49	0.51	760.04
69.30	1876.67	0.80	729.49	0.51	758.00
69.40	1875.83	0.80	729.49	0.51	755.94
69.50	1874.84	0.80	729.48	0.51	753.83
05.50	10/7.04	0.00	, 25.40	0.51	755.05

69.60	1873.61	0.79	729.48	0.51	751.92
69.70	1872.61	0.79	729.48	0.51	749.99
69.80	1871.34	0.79	729.48	0.51	747.88
69.90	1862.02	0.79	729.48	0.51	745.74
70.00	1822.94	0.79	729.48	0.52	743.68
70.10	1802.70	0.79	729.48	0.52	741.68
70.20	1797.61	0.79	729.47	0.52	739.62
70.30	1792.42	0.78	729.47	0.52	737.61
70.40	1791.24	0.78	729.47	0.52	735.50
70.50	1790.85	0.78	729.47	0.52	733.64
70.60	1789.25	0.78	729.47	0.52	731.36
70.70	1788.80	0.78	729.47	0.52	729.44
70.80	1787.95	0.78	729.47	0.52	727.19
70.90	1787.05	0.78	729.47	0.52	725.05
71.00	1786.17	0.77	729.46	0.52	723.03
71.10	1785.45	0.77	729.46	0.52	720.96
71.10	1784.45	0.77	729.46	0.52	718.86
	1783.92		729.46		716.88
71.30		0.77		0.52	
71.40	1777.53	0.77	729.46	0.52	714.79
71.50	1774.38	0.77	729.46	0.52	712.62
71.60	1772.78	0.77	729.46	0.52	710.54
71.70	1771.23	0.77	729.45	0.52	708.45
71.80	1762.62	0.76	729.45	0.52	706.38
71.90	1760.94	0.76	729.45	0.52	704.35
72.00	1759.51	0.76	729.45	0.52	702.37
72.10	1763.57	0.76	729.45	0.52	700.27
72.20	1769.13	0.76	729.45	0.52	698.19
72.30	1771.88	0.76	729.45	0.52	696.15
72.40	1771.95	0.76	729.45	0.52	694.11
72.50	1769.62	0.75	729.44	0.52	692.13
72.60	1741.51	0.75	729.44	0.53	690.15
72.70	1696.62	0.75	729.44	0.54	688.17
72.80	1685.68	0.75	729.44	0.54	686.18
72.90	1673.07	0.75	729.44	0.55	684.12
73.00	1648.17	0.75	729.44	0.55	682.07
73.10	1646.91	0.75	729.44	0.55	680.14
73.20	1645.66	0.75	729.44	0.55	678.19
73.30	1644.73	0.74	729.43	0.55	676.07
73.40	1644.86	0.74	729.43	0.55	674.10
73.50	1643.52	0.74	729.43	0.55	672.08
73.60	1635.53	0.74	729.43	0.55	670.11
73.70	1627.12	0.74	729.43	0.56	668.35
73.80	1617.08	0.74	729.43	0.56	666.25
73.90	1613.00	0.74	729.43	0.56	664.28
74.00	1612.49	0.74	729.43	0.56	662.31
74.10	1611.24	0.73	729.42	0.56	660.29
74.20	1610.05	0.73	729.42	0.56	658.31
74.30	1599.81	0.73	729.42	0.56	656.38
74.40	1578.78	0.73	729.42	0.57	654.38
74.50	1577.57	0.73	729.42	0.57	652.39
74.60	1565.31	0.73	729.42	0.57	650.42
74.70	1540.73	0.73	729.42	0.58	648.45
74.80	1515.46	0.73	729.42 729.41	0.59	646.48
74.90	1511.88	0.73	729.41	0.59	644.54
75.00	1506.36	0.72	729.41	0.59	642.59
75.10	1495.99	0.72	729.41	0.59	640.75
75.20	1479.36	0.72	729.41	0.60	638.81
75.30	1478.10	0.72	729.41	0.60	636.86
75.40	1451.08	0.72	729.41	0.61	634.94

75.50	1435.80	0.72	729.41	0.61	633.06
75.60	1426.42	0.72	729.41	0.62	631.20
75.70	1403.16	0.72	729.40	0.63	629.31
75.80	1391.94	0.71	729.40	0.63	627.38
75.90	1393.57	0.71	729.40	0.63	625.62
76.00	1374.18	0.71	729.40	0.64	623.82
76.10	1337.83	0.71	729.40	0.65	621.91
76.20	1315.85	0.71	729.40	0.66	620.06
76.30	1299.26	0.71	729.40	0.67	618.17
76.40	1295.84	0.71	729.40	0.67	616.23
76.50	1293.64	0.71	729.40	0.67	614.47
76.60	1289.19	0.71	729.39	0.67	612.64
76.70	1294.94	0.70	729.39	0.67	610.69
76.80	1294.20	0.70	729.39	0.67	608.83
76.90	1292.26	0.70	729.39	0.67	606.93
77.00	1292.09	0.70	729.39	0.67	605.17
77.10	1289.19	0.70	729.39	0.67	603.26
77.20	1287.38	0.70	729.39	0.67	601.39
77.30	1286.43	0.70	729.39	0.67	599.53
77.40	1275.89	0.70	729.39	0.67	597.72
77.50	1270.38	0.69	729.38	0.68	595.88
77.60	1265.29	0.69	729.38	0.68	594.11
77.70	1263.91	0.69	729.38	0.68	592.21
77.80	1262.66	0.69	729.38	0.68	590.39
77.90	1258.37	0.69	729.38	0.68	588.61
78.00	1250.63	0.69	729.38	0.68	586.91
78.10	1249.63	0.69	729.38	0.68	585.05
78.20	1248.18	0.69	729.38	0.68	583.22
78.30	1246.25	0.69	729.37	0.68	581.51
78.40	1246.41	0.68	729.37	0.68	579.74
78.50	1245.24	0.68	729.37	0.68	577.94
78.60	1247.82	0.68	729.37	0.68	576.19
78.70	1250.48	0.68	729.37	0.68	574.64
78.80	1250.76	0.68	729.37	0.67	572.96
78.90	1255.57	0.68	729.37	0.67	571.06
79.00	1263.95	0.68	729.37	0.67	569.29
79.10	1267.42	0.68	729.37	0.66	567.57
79.20 79.30	1267.78 1265.78	0.68 0.67	729.36 729.36	0.66 0.66	566.10 564.27
79.40	1254.64	0.67	729.36	0.67	562.52
79.50	1242.01	0.67	729.36	0.67	560.82
79.60	1230.09	0.67	729.36	0.68	559.04
79.70	1226.73	0.67	729.36	0.68	557.38
79.80	1225.00	0.67	729.36	0.68	555.69
79.90	1212.70	0.67	729.36	0.68	554.02
80.00	1206.77	0.67	729.36	0.69	552.31
80.10	1196.22	0.67	729.35	0.69	550.63
80.20	1169.70	0.66	729.35	0.71	548.94
80.30	1164.16	0.66	729.35	0.71	547.28
80.40	1166.79	0.66	729.35	0.71	545.63
80.50	1155.93	0.66	729.35	0.71	544.01
80.60	1143.20	0.66	729.35	0.72	542.36
80.70	1140.84	0.66	729.35	0.72	540.70
80.80	1139.67	0.66	729.35	0.72	539.05
80.90	1138.05	0.66	729.35	0.72	537.40
81.00	1133.38	0.66	729.35	0.72	535.77
81.10	1133.02	0.66	729.34	0.72	534.13
81.20	1130.03	0.65	729.34	0.72	532.56
81.30	1111.66	0.65	729.34	0.73	530.95

81.40	1105.44	0.65	729.34	0.74	529.37
81.50	1103.09	0.65	729.34	0.74	527.76
81.60	1097.53	0.65	729.34	0.74	526.21
81.70	1092.21	0.65	729.34	0.74	524.62
81.80	1088.87	0.65	729.34	0.74	523.05
81.90	1082.93	0.65	729.34	0.74	521.46
82.00	1080.63	0.65	729.34	0.75	519.93
82.10	1076.41	0.65	729.33	0.75	518.36
82.20	1068.93	0.64	729.33	0.75	516.83
82.30	1065.11	0.64	729.33	0.75 0.75	515.28
82.40	1062.71	0.64	729.33	0.75	513.80
82.50	1056.62	0.64	729.33	0.76	512.43
82.60	1052.67	0.64	729.33	0.76	510.98
82.70	1047.78	0.64	729.33	0.76	509.50
82.80	1043.16	0.64	729.33	0.76	508.08
82.90	1038.96	0.64	729.33	0.76	506.59
83.00	1031.11	0.64	729.33	0.77	505.13
83.10	1027.16	0.64	729.33	0.77	503.75
83.20	1020.82	0.64	729.32	0.78	502.36
83.30	1016.54	0.63	729.32	0.78	500.93
83.40	1011.95	0.63	729.32	0.78	499.54
83.50	1011.90	0.63	729.32	0.78	498.20
83.60	1009.75	0.63	729.32	0.78	496.84
83.70	1007.05	0.63	729.32	0.78	495.49
83.80	1007.56	0.63	729.32	0.78	494.13
83.90	1002.64	0.63	729.32	0.78	492.81
84.00	1002.64	0.63	729.32	0.78	491.50
84.10	1000.55	0.63	729.32	0.78	490.24
84.20	999.50	0.63	729.32	0.78	488.83
84.30	998.97	0.63	729.32	0.78	487.58
84.40	995.96	0.63	729.31	0.78	486.30
84.50	996.92	0.62	729.31	0.78	485.03
84.60	995.11	0.62	729.31	0.78	483.78
84.70	994.34	0.62	729.31	0.78	482.54
84.80	993.55	0.62	729.31	0.78	481.28
84.90	989.03	0.62	729.31	0.78	480.04
85.00	988.45	0.62	729.31	0.78	478.83
85.10	988.76	0.62	729.31	0.78	477.63
85.20	982.00	0.62	729.31	0.78	476.42
85.30	975.68	0.62	729.31	0.79	475.25
85.40	971.20	0.62	729.31	0.79	474.10
85.50	966.78	0.62	729.31	0.79	472.97
85.60	961.64	0.62	729.31	0.80	471.86
85.70	957.16	0.62	729.30	0.80	470.74
85.80	955.96	0.61	729.30	0.80	469.63
85.90	952.99	0.61	729.30	0.80	468.65
86.00	947.34	0.61	729.30	0.81	467.56
86.10	935.72	0.61	729.30	0.82	466.50
86.20	928.13	0.61	729.30	0.82	465.39
86.30	928.10	0.61	729.30	0.82	464.34
86.40	926.70	0.61	729.30	0.82	463.27
86.50	920.98	0.61	729.30	0.82	462.19
86.60	910.73	0.61	729.30	0.83	461.15
86.70	912.41	0.61	729.30	0.83	460.12
86.80	924.42	0.61	729.30	0.82	459.15
86.90	933.21	0.61	729.30	0.81	458.22
87.00	937.70	0.61	729.30	0.81	457.25
87.10	938.61	0.61	729.30	0.80	456.27
87.10	936.97		729.29	0.80	455.30
07.20	330.37	0.60	123.23	0.00	433.30

87.30	935.94	0.60	729.29	0.80	454.37
87.40	936.70	0.60	729.29	0.80	453.53
87.50	934.50	0.60	729.29	0.80	452.56
87.60	934.48	0.60	729.29	0.80	451.62
87.70	932.48	0.60	729.29	0.80	450.69
87.80	931.63	0.60	729.29	0.80	449.79
87.90	930.07	0.60	729.29	0.81	449.02
88.00	929.18	0.60	729.29	0.81	448.21
88.10	928.37	0.60	729.29	0.81	447.30
88.20	928.18	0.60	729.29	0.81	446.55
88.30	926.83	0.60	729.29	0.81	445.73
88.40	925.93	0.60	729.29	0.81	444.95
88.50	926.56	0.60	729.29	0.80	444.14
88.60	926.70	0.60	729.29	0.80	443.31
88.70	925.03	0.60	729.28	0.80	442.52
88.80	924.43	0.59	729.28	0.80	441.72
88.90	918.67	0.59	729.28	0.81	441.12
89.00	909.79	0.59	729.28	0.82	440.20
89.10	904.05	0.59	729.28	0.82	439.43
89.20	899.75	0.59	729.28	0.82	438.69
89.30	899.86	0.59	729.28	0.82	437.95
89.40					
	898.56	0.59	729.28	0.82	437.21
89.50	899.17	0.59	729.28	0.82	436.49
89.60	874.23	0.59	729.28	0.85	435.93
89.70	858.57	0.59	729.28	0.86	435.22
89.80	854.09	0.59	729.28	0.86	434.49
89.90	854.09	0.59	729.28	0.86	433.80
90.00	851.92	0.59	729.28	0.87	433.08
90.10	844.61	0.59	729.28	0.87	432.39
90.20	837.57	0.59	729.28	0.88	431.76
90.30	833.55	0.59	729.28	0.88	431.07
90.40	834.45	0.59	729.28	0.88	430.52
90.50	833.39	0.59	729.27	0.88	429.89
90.60	830.47	0.59	729.27	0.88	429.25
90.70	830.78	0.58	729.27	0.88	428.71
90.80	829.89	0.58	729.27	0.88	428.12
90.90	828.98	0.58	729.27	0.88	427.50
91.00	828.22	0.58	729.27	0.89	426.96
91.10	829.28	0.58	729.27	0.88	426.41
91.20	816.57	0.61	729.29	0.86	425.82
91.30	810.80	0.62	729.30	0.85	425.36
91.40	808.61	0.62	729.31	0.85	424.82
91.50	807.83	0.62	729.31	0.85	424.26
91.60	808.36	0.62	729.31	0.85	423.78
91.70	806.87	0.62	729.31	0.85	423.28
91.80	805.49	0.62	729.31	0.85	422.73
91.90	806.40	0.62	729.30	0.85	422.26
92.00	804.10	0.62	729.31	0.85	421.72
92.10	804.33	0.62	729.31	0.85	421.29
92.20	803.62	0.62	729.31	0.85	420.79
92.30	802.53	0.62	729.31	0.85	420.39
92.40	801.72	0.62	729.31	0.85	419.94
92.50	801.75	0.61	729.30	0.85	419.51
92.60	801.18	0.62	729.31	0.85	419.06
92.70	799.69	0.62	729.31	0.84	418.65
92.80	800.58	0.62	729.31	0.85	418.20
92.90	798.15	0.62	729.31	0.85	417.79
93.00	796.47	0.62	729.31	0.85	417.37
93.10	794.19	0.62	729.31	0.85	416.96

93.20	795.77	0.62	729.31	0.85	416.62
93.30	792.53	0.62	729.31	0.85	416.20
93.40	793.04	0.62	729.31	0.85	415.85
93.50	791.71	0.62	729.31	0.85	415.45
93.60	788.04	0.62	729.31	0.85	415.12
93.70	788.52	0.62	729.31	0.86	414.86
93.80	787.79	0.62	729.31	0.85	414.46
93.90	786.60	0.62	729.31	0.85	414.18
94.00	785.66	0.62	729.31	0.85	413.78
94.10	763.38	0.62	729.31	0.87	413.40
94.20	755.51	0.62	729.31	0.88	413.06
94.30	754.09	0.62	729.31	0.88	412.72
94.40	750.89	0.63	729.31	0.88	412.38
94.50	753.13	0.62	729.31	0.88	412.03
94.60	752.07	0.62	729.31	0.88	411.76
94.70	751.28	0.62	729.31	0.88	411.49
94.80	751.79	0.62	729.31	0.88	411.11
94.90	750.67	0.63	729.31	0.88	410.85
95.00	752.01	0.63	729.32	0.87	410.48
95.10	750.87	0.62	729.31	0.88	410.26
95.20	749.06	0.63	729.32	0.87	409.92
95.30	751.40	0.63	729.32	0.87	409.64
95.40	749.06	0.63	729.32	0.87	409.34
95.50	748.39	0.63	729.32	0.87	409.08
95.60	749.17	0.63	729.32	0.87	408.78
95.70	749.25	0.63	729.32	0.87	408.55
95.80	749.11	0.63	729.32	0.87	408.25
95.90	749.27	0.63	729.32	0.87	408.00
96.00	748.13	0.63	729.32	0.87	407.74
96.10	746.91	0.63	729.32	0.87	407.49
96.20	746.79	0.63	729.32	0.87	407.20
96.30	746.62	0.63	729.32	0.87	406.99
96.40	748.11	0.63	729.32	0.87	406.77
96.50	746.87	0.63	729.32	0.87	406.52
96.60	747.51	0.63	729.31	0.87	406.25
96.70	746.15	0.63	729.32	0.87	405.98
96.80	745.48	0.63	729.32	0.87	405.77
96.90	745.39	0.63	729.32	0.87	405.51
97.00	745.04	0.63	729.32	0.87	405.27
97.10	744.73	0.63	729.32	0.87	405.02
97.20	743.42	0.63	729.32	0.87	404.82
97.30	744.67	0.63	729.32	0.86	404.57
97.40	744.61	0.63	729.32	0.87	404.33
97.50	743.33	0.63	729.32	0.86	404.15
97.60	743.00	0.63	729.32	0.86	403.95
97.70	740.46	0.63	729.32	0.86	403.77
97.80	743.23	0.63	729.32	0.86	403.55
97.90	740.31	0.63	729.32	0.87	403.35
98.00	742.12	0.63	729.32	0.86	403.12
98.10	740.30	0.63	729.32	0.86	402.87
98.20	739.15	0.63	729.32	0.86	402.67
98.30	739.81	0.63	729.32	0.86	402.37
98.40	740.35	0.63	729.32	0.86	402.37
98.50	738.56	0.63	729.32	0.86	401.86
98.60	743.24	0.63	729.32	0.86	401.71
98.70	744.64	0.63	729.32	0.85	401.41
98.80	742.24	0.63	729.32	0.85	401.15
98.90	744.58	0.63	729.32	0.85	400.88
99.00	745.29	0.63	729.32	0.85	400.57

743.57	0.63	729.32	0.85	400.34
744.39	0.63	729.32	0.85	400.06
743.15	0.63	729.32	0.85	399.83
743.98	0.63	729.32	0.86	399.63
743.17	0.63	729.32	0.85	399.46
739.76	0.63	729.32	0.85	399.15
738.84	0.64	729.33	0.85	398.91
739.26	0.64	729.33	0.85	398.65
740.62	0.63	729.32	0.85	398.37
737.52	0.64	729.33	0.85	398.12
	744.39 743.15 743.98 743.17 739.76 738.84 739.26 740.62	744.39 0.63 743.15 0.63 743.98 0.63 743.17 0.63 739.76 0.63 738.84 0.64 739.26 0.64 740.62 0.63	744.39 0.63 729.32 743.15 0.63 729.32 743.98 0.63 729.32 743.17 0.63 729.32 739.76 0.63 729.32 738.84 0.64 729.33 739.26 0.64 729.33 740.62 0.63 729.32	744.39 0.63 729.32 0.85 743.15 0.63 729.32 0.85 743.98 0.63 729.32 0.86 743.17 0.63 729.32 0.85 739.76 0.63 729.32 0.85 738.84 0.64 729.33 0.85 739.26 0.64 729.33 0.85 740.62 0.63 729.32 0.85

THE MAXIMUM DISCHARGE FROM CROSS SECTION 14 IS: 1151.37 CFS AT TIME: 29.86 HOURS

THE TOTAL VOLUME OF DISCHARGE IS: 4196.90 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 14

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

VELOCII	T - AVENAGE	CKO33 SECTION	VELOCITY (BASED	ON DISCHARGE	AND FLOW AREA)
TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00

4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60 5.70	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
5.80	0.00	0.00	0.00	0.00	0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	16.71	0.00	733.75	-0.00	-0.00
6.60	22.28	0.00	733.75	-0.00	-0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	117.15	0.00	733.75	-0.00	-0.00
6.90	319.71	0.00	733.76	-0.00	-0.00
7.00	443.24	0.00	733.76	-0.00	-0.00
7.10	553.73	0.00	733.76	0.00	0.00
7.20	606.72	0.00	733.76	0.00	0.00
7.30	667.84	0.00	733.76	0.00	0.00
7.40	735.69	0.00	733.76	0.00	0.01
7.50 7.60	782.93 902.10	0.00 0.00	733.76 733.76	0.00 0.00	0.00 0.01
7.70	952.47	0.00	733.76	0.00	0.01
7.80	1056.09	0.00	733.76	0.00	0.02
7.90	1165.33	0.00	733.76	0.00	0.02
8.00	1223.54	0.01	733.76	0.00	0.02
8.10	1224.26	0.01	733.76	0.00	0.03
8.20	1241.88	0.01	733.76	0.00	0.03
8.30	1253.55	0.01	733.76	0.00	0.03
8.40	1273.76	0.01	733.76	0.00	0.03
8.50	1312.05	0.01	733.76	0.00	0.04
8.60	1464.40	0.01	733.76	0.00	0.04
8.70	1627.13	0.01	733.76	0.00	0.05
8.80	1707.84	0.01	733.76	0.00	0.05
8.90	1846.89	0.01	733.76	0.00	0.06
9.00	1964.30	0.01	733.76	0.00	0.07
9.10	2036.39	0.01	733.76	0.00	0.07
9.20 9.30	2130.09 2260.07	0.01 0.01	733.76 733.76	0.00 0.00	0.08 0.10
9.40	2427.25	0.01	733.76	0.01	0.13
9.50	2564.62	0.01	733.76	0.01	0.15
9.60	2607.62	0.01	733.77	0.01	0.17
9.70	2705.12	0.01	733.77	0.01	0.20
9.80	2753.70	0.01	733.77	0.01	0.21
9.90	2881.40	0.01	733.77	0.01	0.24
10.00	2889.94	0.02	733.77	0.01	0.26
10.10	2930.51	0.02	733.77	0.01	0.29
10.20	2955.35	0.02	733.77	0.01	0.31
10.30	3041.79	0.02	733.77	0.01	0.33
10.40	3098.49	0.02	733.77	0.01	0.37
10.50	3179.50	0.02	733.77	0.01	0.41

10.60	3216.45	0.02	733.77	0.01	0.44
10.70	3224.25	0.02	733.78	0.01	0.49
10.80	3297.74	0.02	733.78	0.01	0.54
10.90	3428.08	0.03	733.78	0.01	0.61
11.00	3453.53	0.03	733.78	0.01	0.68
11.10	3525.16	0.03	733.78	0.01	0.80
11.20	3569.41	0.03	733.78	0.01	0.91
11.30	3605.82	0.03	733.79	0.01	1.03
11.40	3710.04	0.04	733.79	0.01	1.17
11.50	3780.98	0.04	733.79	0.01	1.35
11.60	3874.83	0.05	733.80	0.01	1.82
11.70	3899.98	0.06	733.81	0.01	2.68
11.80	3927.61	0.07	733.82	0.01	3.91
11.90	3958.00	0.10	733.85	0.02	7.43
12.00	3958.17	0.14	733.89	0.02	12.93
12.10	3940.04	0.17	733.92	0.03	20.74
12.20	3927.76	0.19	733.94	0.04	29.28
12.30	3954.09	0.21	733.96	0.05	38.52
12.40	3939.49	0.22	733.97	0.05	45.50
12.50	3950.19	0.23	733.98	0.06	51.81
12.60	3958.56	0.23	733.98	0.06	55.52
12.70	3943.49	0.23	733.98	0.06	57.78
12.80	3929.27	0.23	733.98	0.07	59.07
12.90	3929.27	0.23	733.98	0.07	60.83
13.00	3928.14	0.23	733.99	0.07	63.26
13.10	3935.46	0.24	733.99	0.07	66.73
13.20	3916.78	0.24	733.99	0.07	70.24
13.30	3958.56	0.25	734.00	0.08	74.44
13.40	3958.56	0.25	734.00	0.08	78.47
13.50	3958.56	0.26	734.01	0.08	82.01
13.60	3958.56	0.26	734.01	0.08	84.70
13.70	3958.56	0.26	734.01	0.08	87.58
13.80	3888.67	0.26	734.02	0.09	90.07
13.90	3899.98	0.27	734.02	0.09	93.84
14.00	3899.98	0.27	734.02	0.09	96.21
14.10	3890.59	0.27	734.02	0.09	99.38
14.20	3898.35	0.27	734.02	0.10	102.19
14.30	3858.56	0.27	734.03	0.10	105.01
14.40	3858.56	0.27	734.03	0.10	107.77
14.50	3858.56	0.28	734.03	0.10	110.66
14.60	3858.56	0.28	734.03	0.11	113.06
14.70	3858.56	0.28	734.03	0.11	115.26
14.80	3858.56	0.28	734.03	0.11	116.83
14.90	3830.72	0.28	734.03	0.11	118.84
15.00	3829.27	0.28	734.03	0.11	120.60
15.10	3829.27	0.28	734.03	0.11	122.24
15.20	3818.25	0.28	734.04	0.11	123.89
15.30	3799.98	0.28	734.04	0.12	125.51
15.40	3799.98	0.29	734.04	0.12	127.13
15.50	3799.98	0.29	734.04	0.12	128.92
15.60	3799.98	0.29	734.04	0.12	130.77
15.70	3800.27	0.29	734.04	0.12	132.79
15.80	3768.36	0.29	734.04	0.12	135.05
15.90	3751.18	0.29	734.04	0.13	137.57
16.00	3792.36	0.29	734.05	0.13	140.25
16.10	3810.82	0.29	734.05	0.13	142.98
16.20	3796.76	0.29	734.05	0.13	145.65
16.30	3789.43	0.30	734.05	0.13	148.40
16.40	3767.76	0.30	734.05	0.14	151.21
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16.50	3769.23	0.30	734.05	0.14	153.77
16.60	3783.41	0.30	734.05	0.14	155.96
16.70	3799.39	0.30	734.05	0.14	158.82
16.80	3799.98	0.30	734.05	0.14	161.74
16.90	3799.98	0.30	734.06	0.14	164.67
17.00	3799.98	0.30	734.06	0.15	167.82
17.10	3795.84	0.31	734.06	0.15	170.75
17.20	3783.41	0.31	734.06	0.15	173.73
17.30	3773.06	0.31	734.06	0.15	177.18
17.40	3763.29	0.31	734.06	0.15	180.61
17.50	3753.36	0.31	734.06	0.16	184.10
17.60	3745.54	0.31	734.07	0.16	187.67
17.70	3741.40	0.32	734.07	0.16	191.34
17.80	3737.81	0.32	734.07	0.16	194.99
17.90	3728.85	0.32	734.07	0.17	198.74
18.00	3704.72	0.32	734.07	0.17	202.57
18.10	3690.59	0.32	734.08	0.17	206.42
18.20	3688.80	0.32	734.08	0.18	210.36
18.30	3637.81	0.33	734.08	0.18	214.36
18.40	3607.59	0.33	734.08	0.18	218.03
18.50	3594.11	0.33	734.08	0.19	222.04
18.60	3587.60	0.33	734.08	0.19	226.10
18.70	3586.92	0.33	734.09	0.19	229.97
18.80	3584.22	0.34	734.09	0.19	233.95
18.90	3580.94	0.34	734.09	0.20	238.03
19.00	3580.94	0.34	734.09	0.20	241.71
19.10	3550.30	0.34	734.10	0.20	245.54
19.20	3507.67	0.34	734.10	0.21	249.43
19.30	3478.20	0.35	734.10	0.21	253.17
19.40	3485.89	0.35	734.10	0.21	256.81
19.50	3528.33	0.35	734.10	0.21	260.77
19.60	3541.23	0.35	734.10	0.21	264.55
19.70	3540.37	0.35	734.11	0.21	268.12
19.80	3538.76	0.36	734.11	0.22	271.77
19.90	3515.52	0.36	734.11	0.22	275.12
20.00	3473.23	0.36	734.11	0.22	278.42
20.10	3479.91	0.36	734.12	0.22	282.39
20.10	3509.53	0.37	734.12	0.22	286.15
20.20	3500.19	0.37	734.12	0.23	289.83
20.40	3491.58	0.37	734.12	0.23	293.74
20.50	3487.57	0.37	734.12	0.23	297.68
20.60	3478.98	0.37	734.13	0.23	301.64
20.70	3473.50	0.38	734.13	0.23	305.62
20.70	3467.45	0.38	734.13	0.24	309.81
20.90	3464.66	0.38	734.13	0.24	313.99
21.00	3464.97	0.38	734.13	0.24	318.51
21.10	3461.33	0.38	734.14	0.24	322.89
21.20	3461.03	0.39	734.14	0.25	327.85
21.30	3459.17	0.39	734.14	0.25	332.99
21.40	3457.02	0.39	734.14	0.25	338.41
21.50	3456.71	0.39	734.15	0.25	344.03
21.60	3455.78	0.39	734.15	0.26	349.95
21.70	3455.17	0.40	734.15	0.26	356.26
21.70	3454.55	0.40	734.15	0.26	362.93
21.90	3453.93	0.40	734.16	0.27	370.01
22.00	3453.01	0.41	734.16	0.27	377.72
22.10	3452.70	0.41	734.16	0.27	385.72
22.20	3452.02	0.41	734.16	0.28	393.94
22.30	3451.47	0.41	734.17	0.28	402.69
22.50	5-51/	0.41	, 54.11	0.20	402.03

22.40	3444.23	0.42	734.17	0.29	412.80
22.50	3440.06	0.42	734.18	0.29	423.48
22.60	3437.06	0.43	734.18	0.30	434.90
22.70	3436.36	0.43	734.18	0.30	446.44
22.80	3434.88	0.43	734.19	0.31	459.28
22.90	3432.70	0.44	734.19	0.31	
					472.30
23.00	3431.76	0.44	734.20	0.32	485.33
23.10	3428.96	0.45	734.20	0.33	499.87
23.20	3440.49	0.45	734.21	0.33	514.66
23.30	3441.73	0.46	734.21	0.34	530.44
23.40	3441.73	0.46	734.22	0.34	547.23
23.50	3441.87	0.47	734.22	0.35	564.45
23.60	3440.18	0.48	734.23	0.36	581.66
23.70	3439.24	0.48	734.23	0.36	599.77
23.80	3438.40	0.49	734.24	0.37	616.61
23.90	3437.77	0.49	734.25	0.37	634.47
24.00	3438.31	0.50	734.25	0.38	652.23
24.10	3422.97	0.50	734.26	0.39	669.81
24.20	3399.35	0.51	734.26	0.40	686.38
24.30	3367.12	0.52	734.27	0.41	703.40
24.40	3314.15	0.52	734.27	0.42	720.49
24.50	3249.91	0.53	734.27	0.43	737.14
24.60	3129.92	0.53	734.29	0.45	753.54
24.70	3068.50	0.54	734.29	0.47	769.53
24.80	2964.95	0.55	734.30	0.49	785.16
24.90	2937.01	0.55	734.30	0.49	800.44
25.00	2915.97	0.56	734.31	0.50	815.85
25.10	2916.97	0.56	734.32	0.51	831.00
25.20	2893.96	0.57	734.32	0.51	845.47
25.30	2880.49	0.57	734.33	0.52	859.77
25.40	2873.70	0.58	734.33	0.52	873.83
25.50	2797.73	0.58	734.34	0.54	887.27
25.60	2735.50	0.60	734.35	0.55	900.70
25.70	2717.03	0.61	734.36	0.55	913.07
25.80	2715.93	0.61	734.37	0.56	925.57
25.90	2714.80	0.62	734.37	0.56	937.44
26.00	2713.53	0.62	734.38	0.56	949.22
26.10	2712.26	0.63	734.38	0.56	960.24
26.20	2694.75	0.63	734.38	0.57	971.27
26.30	2672.46	0.64	734.39	0.58	981.92
26.40	2603.13	0.64	734.39	0.60	991.59
26.50	2572.78	0.64	734.40	0.61	1001.21
26.60	2572.78	0.65	734.40	0.61	1010.53
26.70	2572.78	0.65	734.40	0.61	1010.33
26.80	2572.78	0.65	734.41	0.61	1017.98
26.90	2560.87	0.66	734.41	0.62	1035.44
27.00	2522.33	0.66	734.41	0.63	1043.06
27.10	2467.02	0.66	734.41	0.64	1051.02
27.20	2460.01	0.66	734.42	0.65	1058.43
27.30	2388.58	0.67	734.42	0.67	1065.59
27.40	2329.24	0.67	734.42	0.69	1072.46
27.50	2240.13	0.67	734.42	0.72	1079.07
27.60	2221.05	0.67	734.43	0.73	1085.37
27.70	2161.12	0.68	734.43	0.75	1091.21
27.80	2132.13	0.68	734.43	0.76	1096.71
27.90	2081.61	0.75	734.50	0.71	1102.13
28.00	2071.14	0.78	734.53	0.69	1107.15
28.10	2071.14	0.78	734.53	0.69	1111.94
28.20	2071.14	0.78	734.54	0.69	1116.42

28.30	2070.23	0.79	734.54	0.69	1120.65
28.40	2071.20	0.78	734.54	0.69	1124.48
28.50	2070.23	0.79	734.54	0.69	1127.93
28.60	2069.32	0.79	734.54	0.69	1131.12
28.70	2041.31	0.79	734.54	0.70	1134.16
28.80	2009.83	0.79	734.55	0.71	1136.91
28.90	2012.62	0.79	734.54	0.72	1130.91
	2012.02				
29.00		0.79	734.55	0.71	1141.69
29.10	2009.86	0.80	734.55	0.72	1143.73
29.20	2009.86	0.80	734.55	0.72	1145.48
29.30	1997.28	0.80	734.55	0.72	1147.01
29.40	1990.52	0.80	734.55	0.72	1148.31
29.50	1988.30	0.80	734.55	0.72	1149.29
29.60	1987.19	0.80	734.55	0.72	1150.13
29.70	1977.64	0.80	734.55	0.73	1150.73
29.80	1902.47	0.80	734.55	0.76	1151.11
29.90	1870.30	0.80	734.56	0.77	1151.25
30.00	1852.05	0.80	734.55	0.78	1151.27
30.10	1824.86	0.80	734.55	0.79	1151.05
30.20	1823.02	0.80	734.56	0.79	1150.66
30.30	1823.56	0.80	734.55	0.79	1150.08
30.40	1823.61	0.80	734.55	0.79	1149.28
30.50	1821.99	0.80	734.56	0.79	1148.21
30.60	1821.99	0.80	734.55	0.79	1147.05
30.70	1822.95	0.80	734.56	0.78	1145.66
30.80	1821.99	0.80	734.55	0.79	1144.18
30.90	1822.02	0.80	734.55	0.78	1142.57
31.00	1819.83	0.80	734.55	0.78	1140.66
31.10	1797.52	0.81	734.56	0.78	1138.58
31.20	1762.84	0.81	734.57	0.79	1136.43
31.30	1751.03	0.81	734.57	0.80	1133.97
31.40	1747.96	0.82	734.57	0.79	1131.34
31.50	1745.84	0.82	734.57	0.79	1128.67
31.60	1745.19	0.81	734.57	0.79	1125.83
31.70	1744.34	0.82	734.57	0.79	1122.90
31.80	1745.41	0.81	734.57	0.79	1119.75
31.90	1733.34	0.82	734.57	0.79	1116.49
32.00	1714.81	0.82	734.57	0.80	1113.11
32.10	1690.90	0.82	734.57	0.80	1109.81
32.20	1683.69	0.81	734.57	0.81	1106.29
32.30	1672.07	0.81	734.57	0.81	1102.60
32.40	1671.67	0.81	734.57	0.81	1098.74
32.50	1664.34	0.81	734.56	0.81	1095.17
32.60	1629.68	0.81	734.56	0.83	1091.07
32.70	1599.68	0.81	734.56	0.84	1086.86
32.80	1569.87	0.81	734.56	0.86	1082.72
32.90	1549.96	0.81	734.56	0.86	1078.37
33.00	1536.97	0.80	734.56	0.87	1073.98
33.10	1532.55	0.80	734.56	0.87	1069.61
33.20	1509.03	0.80	734.55	0.88	1065.07
33.30	1491.20	0.80	734.55	0.89	1060.70
33.40	1489.96	0.80	734.55	0.89	1055.95
33.50	1490.73	0.80	734.55	0.89	1051.19
33.60	1467.42	0.79	734.55	0.90	1046.44
33.70	1460.38	0.79	734.55	0.90	1041.69
33.80	1461.47	0.79	734.54	0.90	1036.96
33.90	1442.18	0.79	734.54	0.91	1032.05
34.00	1380.37	0.79		0.94	1026.97
			734.54		
34.10	1379.88	0.79	734.54	0.94	1021.94

34.20	1372.70	0.78	734.54	0.95	1017.24
34.30	1342.79	0.78	734.54	0.96	1012.39
34.40	1340.69	0.78	734.53	0.96	1007.54
34.50	1340.98	0.78	734.53	0.96	1002.45
34.60	1338.61	0.78	734.53	0.96	997.36
34.70	1340.39	0.77	734.53	0.96	992.12
34.80	1337.62	0.77	734.53	0.96	986.96
34.90	1338.26	0.77	734.52	0.95	981.69
35.00	1332.17	0.77	734.52	0.95	976.60
35.10	1311.13	0.77	734.52	0.97	971.69
35.20	1306.23	0.77	734.52	0.97	966.32
35.30	1302.79	0.76	734.52	0.97	961.13
35.40	1302.79	0.76	734.51	0.96	956.13
35.50	1300.84	0.76	734.51	0.96	950.13
35.60	1298.73	0.76	734.51	0.96	945.77
35.70	1289.79	0.75	734.51	0.97	940.44
35.80	1268.23	0.75	734.51	0.98	935.18
35.90	1267.86	0.75	734.50	0.98	929.97
36.00	1268.02	0.75	734.50	0.97	924.77
36.10	1266.62	0.75	734.50	0.97	919.59
36.20	1266.12	0.74	734.50	0.97	914.43
36.30	1250.85	0.74	734.50	0.98	908.98
36.40	1230.12	0.74	734.49	0.99	903.99
36.50	1228.29	0.74	734.49	0.99	899.05
36.60	1225.05	0.74	734.49	0.99	893.99
36.70	1199.27	0.73	734.49	1.01	888.89
36.80	1197.87	0.73	734.48	1.01	883.82
36.90	1197.77	0.73	734.48	1.01	878.75
37.00	1197.73	0.73	734.48	1.00	873.79
37.10	1199.53	0.73	734.48	1.00	868.76
37.20	1176.59	0.72	734.48	1.02	863.79
37.30	1168.50	0.72	734.47	1.02	858.84
37.40	1169.21	0.72	734.47	1.02	853.94
37.50	1159.41	0.72	734.48	1.01	848.94
37.60	1137.98	0.74	734.49	1.01	844.06
37.70	1138.93	0.73	734.49	1.00	839.24
37.80	1137.78	0.73	734.49	1.00	834.45
37.90	1137.92	0.73	734.48	1.00	829.71
38.00	1138.32	0.73	734.48	1.00	825.11
38.10	1136.58	0.73	734.48	1.00	820.48
38.20	1136.84	0.72	734.48	0.99	815.97
38.30	1135.56	0.72	734.47	0.99	811.16
38.40	1136.34	0.72	734.47	0.99	806.51
38.50	1134.11	0.72	734.47	0.99	801.90
38.60	1134.06	0.72	734.47	0.98	797.20
38.70	1132.01	0.71	734.47	0.98	792.87
38.80	1127.16	0.71	734.46	0.98	788.20
38.90	1123.33	0.71	734.46	0.99	783.66
39.00	1114.09	0.71	734.46	0.99	779.20
39.10	1097.08	0.70	734.46	1.00	774.77
39.20 39.30	1090.03 1088.39	0.70	734.46 734.45	1.01	770.34
		0.70		1.01	765.98 761.91
39.40	1089.45	0.70	734.45	1.00	
39.50	1086.21	0.70	734.45	1.00	757.60
39.60	1086.52	0.69	734.45	1.00	753.23
39.70	1085.03	0.69	734.45	1.00	749.03
39.80	1098.71	0.69	734.44	0.98	744.86
39.90	1095.27	0.69	734.44	0.98	740.62
40.00	1092.10	0.69	734.44	0.98	736.38

40.10	1089.88	0.68	734.44	0.98	732.17
40.20	1090.64	0.68	734.44	0.98	728.03
40.30	1069.62	0.68	734.43	1.00	723.89
40.40	1065.94	0.68	734.43	1.00	719.82
40.50	1074.32	0.68	734.43	0.99	715.75
40.60	1081.27	0.67	734.43	0.98	711.84
40.70	1078.61	0.67	734.43	0.98	707.88
40.80	1079.44	0.67	734.42	0.97	704.00
40.90	1078.56	0.67	734.42	0.97	700.13
41.00	1076.53	0.67	734.42	0.97	696.28
41.10	1075.33	0.66	734.42	0.97	692.51
41.20	1075.08	0.66	734.42	0.97	688.78
41.30	1072.49	0.66	734.41	0.97	684.99
41.40	1071.58	0.66	734.41	0.97	681.38
41.50	1072.59	0.66	734.41	0.96	677.71
41.60	1054.91	0.65	734.41	0.98	674.10
41.70	1027.31	0.65	734.41	1.00	670.44
41.80	1027.21	0.65	734.40	1.00	666.92
41.90	1025.30	0.65	734.40	1.00	663.43
42.00	1024.16	0.65	734.40	1.00	659.84
42.10	1023.96	0.65	734.40	0.99	656.33
42.20	1021.12	0.64	734.40	0.99	652.87
42.30	1021.21	0.64	734.39	0.99	649.44
42.40	1020.16	0.64	734.39	0.99	646.03
42.50	1012.91	0.64	734.39	1.00	642.66
42.60	1023.61	0.64	734.39	0.98	639.34
42.70	1034.71	0.63	734.39	0.97	636.02
42.80	1029.68	0.63	734.39	0.97	632.76
42.90	1027.75	0.63	734.38	0.97	629.50
43.00	1015.91	0.63	734.38	0.98	626.26
43.10	1000.60	0.63	734.38	0.99	623.02
43.20	999.23	0.63	734.38	0.99	619.82
43.30	998.82	0.62	734.38	0.99	617.09
43.40	970.25	0.63	734.38	1.01	613.82
43.50	954.56	0.63	734.38	1.02	610.67
43.60	952.27	0.63	734.38	1.01	607.54
43.70	951.71	0.63	734.38	1.01	604.51
43.80	922.98	0.63	734.38	1.04	601.46
43.90	907.25	0.63	734.38	1.05	598.41
44.00	896.73	0.63	734.38	1.06	595.44
44.10	885.68	0.63	734.38	1.06	592.84
44.20	886.61	0.63	734.38	1.06	589.72
44.30	888.50	0.63	734.38	1.05	586.86
44.40	885.77	0.63	734.38	1.05	584.08
44.50	885.98	0.62	734.38	1.05	581.30
44.60	886.12	0.62	734.38	1.05	578.54
44.70	886.04	0.62	734.37	1.05	575.69
44.80	884.31	0.62	734.37	1.05	572.82
44.90	884.11	0.62	734.37	1.04	569.91
45.00	883.44	0.62	734.37	1.04	567.10
45.10	883.03	0.61	734.37	1.04	564.33
45.20	884.23	0.61	734.37	1.04	561.53
45.30	882.20	0.61	734.36	1.04	558.79
45.40	875.85	0.61	734.36	1.04	556.20
45.50	875.27	0.61	734.36	1.04	553.57
45.60	876.29	0.61	734.36	1.04	550.93
45.70	875.92	0.61	734.36	1.03	548.31
45.80	874.84	0.60	734.36	1.03	545.69
45.90	874.62	0.60	734.36	1.03	543.18
	- 10 min 4.T			- 3.5.5	

46.00	876.52	0.60	734.35	1.03	540.64
46.10	875.03	0.60	734.35	1.03	538.13
46.20	874.26	0.60	734.35	1.02	535.67
46.30	853.94	0.60	734.35	1.05	533.23
46.40	853.14	0.60	734.35	1.05	530.81
46.50	844.34	0.59	734.35	1.05	528.37
46.60	838.86	0.59	734.35	1.06	526.02
46.70	829.07	0.59	734.34	1.07	523.82
46.80	830.18	0.59	734.34	1.07	521.72
46.90	826.41	0.59	734.34	1.07	519.39
47.00	826.68	0.59	734.34	1.07	516.90
47.10	826.16	0.59	734.34	1.06	514.55
47.20	824.92	0.59	734.34	1.06	512.28
47.30	823.13	0.58	734.34	1.06	509.98
47.40	825.53	0.58	734.34	1.06	507.89
47.50	822.32	0.58	734.33	1.06	505.72
47.60	822.00	0.58	734.33	1.06	503.59
47.70	820.08	0.58	734.33	1.06	501.56
47.80	820.89	0.58	734.33	1.05	499.42
47.90	819.31	0.58	734.33	1.05	497.32
48.00	816.30	0.58	734.33	1.06	495.23
48.10	817.66	0.57	734.33	1.05	493.23
48.20	815.41	0.57	734.33	1.05	491.34
48.30	814.50	0.57	734.32	1.05	489.64
48.40	813.55	0.57	734.32	1.05	487.60
48.50	812.27	0.57	734.32	1.05	485.66
48.60	808.42	0.57	734.32	1.05	483.79
48.70	806.77	0.57	734.32	1.05	481.98
48.80	807.13	0.57	734.32	1.05	480.20
48.90	806.45	0.57	734.32	1.05	478.45
49.00	804.08	0.56	734.32	1.05	476.76
49.10	802.77	0.56	734.32	1.05	475.12
49.20	775.57	0.56	734.32	1.09	473.52
49.30	775.39	0.56	734.31	1.09	472.02
49.40	775.23	0.56	734.31	1.08	470.53
49.50	774.85	0.56	734.31	1.08	469.08
49.60	775.46	0.56	734.31	1.08	467.65
49.70	775.57	0.56	734.31	1.08	466.22
49.80	774.26	0.56	734.31	1.08	464.90
49.90	773.90	0.56	734.31	1.08	463.62
50.00	755.39	0.55	734.31	1.11	462.37
50.10	746.30	0.55	734.31	1.12	461.08
50.20	745.55	0.55	734.31	1.12	459.92
50.30	741.68	0.56	734.31	1.11	458.83
50.40	737.84	0.57	734.32	1.10	457.81
50.50	735.14	0.57	734.32	1.10	456.86
50.60	734.35	0.58	734.33	1.09	455.96
50.70	731.96	0.58	734.34	1.08	455.12
50.80	728.03	0.60	734.35	1.06	454.35
50.90	728.10	0.60	734.35	1.06	453.95
51.00	727.68	0.59	734.35	1.07	453.14
51.10	726.66	0.60	734.35	1.06	452.50
51.20	726.37	0.60	734.35	1.06	451.96
51.30	726.78	0.60	734.36	1.05	451.67
51.40	725.36	0.60	734.35	1.06	451.18
51.50	725.01	0.61	734.36	1.04	450.83
51.60	723.50	0.61	734.36	1.05	450.58
51.70	723.51	0.62	734.37	1.04	450.39
51.80	724.60	0.61	734.37	1.04	450.30

51.90	723.91	0.60	734.36	1.06	450.26
52.00	723.91	0.62	734.37	1.04	450.30
52.10	722.81	0.62	734.37	1.04	450.41
52.20	722.39	0.61	734.37	1.05	450.59
52.30	722.00	0.62	734.37	1.03	450.85
52.40	721.94	0.61	734.37	1.04	451.17
52.50	718.45	0.62	734.38	1.04	451.56
52.60	718.39	0.63	734.38	1.03	452.04
52.70	711.83	0.64	734.40	1.02	452.56
52.80	676.41	0.63	734.38	1.10	453.16
52.90	677.39	0.63	734.38	1.10	453.83
53.00	675.81	0.64	734.39	1.09	454.57
53.10	676.38	0.63	734.38	1.10	455.36
53.20	675.55	0.64	734.39	1.09	456.22
53.30	675.51	0.65	734.40	1.08	457.16
			734.39	1.09	
53.40	674.97	0.64			458.12
53.50	674.77	0.64	734.39	1.10	459.19
53.60	676.36	0.64	734.39	1.10	460.32
53.70	674.78	0.64	734.39	1.10	461.48
53.80	673.80	0.64	734.40	1.10	462.74
53.90	672.58	0.65	734.41	1.09	464.02
54.00	673.68	0.65	734.40	1.11	465.17
54.10	672.65	0.65	734.41	1.10	466.62
54.20	672.75	0.66	734.41	1.09	468.07
54.30	671.41	0.67	734.42	1.09	469.24
54.40	673.76	0.66	734.41	1.10	470.82
54.50	672.39	0.66	734.41	1.10	472.55
54.60	670.80	0.67	734.42	1.09	474.19
54.70	671.57	0.67	734.42	1.10	475.77
54.80	671.54	0.67	734.42	1.10	477.37
54.90	670.90	0.67	734.42	1.11	479.05
55.00	670.59	0.68	734.43	1.09	480.80
55.10	671.11	0.67	734.43	1.10	482.58
55.20	669.41	0.68	734.43	1.10	484.37
55.30	669.54	0.68	734.44	1.10	486.18
55.40	670.79	0.67	734.42	1.12	488.02
55.50	669.14	0.67	734.42	1.13	489.83
55.60	669.38	0.69	734.44	1.11	491.67
55.70	668.32	0.69	734.44	1.11	493.52
55.80	669.40	0.68	734.44	1.12	495.35
55.90	668.42	0.68	734.44	1.13	497.20
56.00	667.68	0.69	734.44	1.13	499.08
56.10	668.37	0.70	734.45	1.11	500.94
56.20	667.90	0.69	734.45	1.13	502.79
56.30	667.18	0.70	734.45	1.12	504.67
56.40	667.97	0.69	734.44	1.14	506.53
56.50	667.22	0.71	734.46	1.12	508.40
56.60	666.42	0.71	734.47	1.12	510.23
56.70	667.02	0.71	734.47	1.12	512.05
56.80	666.73	0.71	734.46	1.13	513.87
56.90	665.81	0.72	734.47	1.11	515.68
57.00	666.27	0.71	734.47	1.13	517.11
57.10	666.11	0.72	734.47	1.13	519.00
57.20	665.55	0.73	734.48	1.12	520.77
57.30	666.60	0.73	734.48	1.12	522.39
57.40	664.92	0.74	734.49	1.11	524.14
57.50	665.70	0.72	734.47	1.11	525.86
57.60	663.95	0.74	734.49	1.12	527.55
57.70	665.14	0.74	734.49	1.12	529.19

57.80	664.05	0.73	734.49	1.13	530.78
57.90	664.26	0.74	734.49	1.12	532.40
58.00	664.52	0.73	734.49	1.14	534.04
58.10	663.94	0.74	734.49	1.13	535.57
58.20	663.53	0.74	734.49	1.13	537.14
58.30	663.75	0.74	734.50	1.13	538.65
58.40	662.68	0.75	734.50	1.13	540.13
58.50	663.43	0.75	734.50	1.13	541.59
58.60	663.28	0.75	734.50	1.14	543.02
58.70	662.13	0.76	734.52	1.12	544.41
58.80	662.72	0.75	734.50	1.14	545.61
58.90	662.33	0.76	734.52	1.12	546.94
59.00	662.53	0.75	734.51	1.14	548.37
59.10	663.15	0.76	734.52	1.13	549.73
59.20	661.06	0.77	734.52	1.12	550.72
59.30	661.26	0.77	734.52	1.13	551.80
59.40	661.81	0.77	734.52	1.13	553.33
59.50	661.30	0.77	734.52	1.13	554.66
59.60	661.45	0.77	734.52	1.13	555.92
59.70	661.09	0.78	734.53	1.12	557.11
59.80	661.06	0.77	734.52	1.14	558.27
59.90	660.87	0.78	734.53	1.13	559.43
60.00	659.54	0.79	734.54	1.11	560.56
60.10	660.08	0.78	734.53	1.13	561.68
60.20	660.42	0.78	734.54	1.13	562.76
60.30	660.39	0.78	734.54	1.13	563.86
60.40	660.35	0.78	734.54	1.13	564.92
60.50	659.56	0.79	734.55	1.12	565.95
60.60	658.97	0.79	734.55	1.13	566.97
60.70	659.43	0.79	734.54	1.13	567.96
60.80	659.54	0.80	734.55	1.12	568.92
60.90	659.12	0.80	734.55	1.12	569.86
61.00	658.68	0.80	734.55	1.13	570.82
61.10	659.22	0.80	734.55	1.13	571.74
61.20	657.85	0.81	734.57	1.11	572.64
61.30	658.77	0.80	734.55	1.13	573.47
61.40	677.36	0.79	734.54	1.11	574.23
61.50	687.20	0.79	734.54	1.09	575.02
61.60	687.28	0.79	734.54	1.10	575.77
61.70	686.93	0.79	734.54	1.10	576.56
61.80	687.21	0.78	734.54	1.10	577.31
61.90	687.28	0.78	734.53	1.11	578.09
62.00	686.64	0.79	734.54	1.10	578.86
62.10	686.33	0.79	734.55	1.09	579.61
62.20	686.98	0.78	734.54	1.11	580.34
62.30	686.52	0.79	734.54	1.10	581.06
62.40	686.67	0.79	734.54	1.10	581.77
62.50	685.83	0.79	734.55	1.10	582.48
62.60	685.99	0.79	734.55	1.10	583.15
62.70	686.02	0.80	734.55	1.10	583.80
62.80	685.70	0.80	734.55	1.09	584.45
62.90	685.37	0.80	734.55	1.09	585.06
63.00	685.63	0.80	734.55	1.10	585.66
63.10	685.53	0.80	734.56	1.09	586.27
63.20	685.42	0.80	734.55	1.10	586.80
63.30	685.17	0.80	734.55	1.10	587.34
63.40	684.91	0.81	734.56	1.09	587.84
63.50	685.18	0.80	734.56	1.09	588.31
63.60	674.37	0.87	734.63	1.01	588.68

63.70	670.71	0.90	734.65	0.98	589.04
63.80	670.71	0.90	734.65	0.98	589.48
63.90	670.71	0.90	734.65	0.98	589.93
64.00	670.71	0.90	734.65	0.98	590.37
64.10	670.71	0.90	734.65	0.98	590.80
64.20	670.71	0.90	734.65	0.98	591.23
64.30	670.71	0.90	734.65	0.98	591.62
64.40	670.71	0.90	734.66	0.98	591.98
64.50	670.71	0.90	734.66	0.98	592.22
64.60	670.71	0.90	734.66	0.98	592.61
64.70	670.71	0.90	734.66	0.98	592.95
64.80	670.71	0.90	734.66	0.98	593.27
64.90	670.71	0.90	734.66	0.98	593.44
65.00	670.71	0.90	734.66	0.98	593.67
65.10	670.71	0.90	734.66	0.98	593.90
65.20	670.71	0.90	734.66	0.98	594.17
65.30	670.71	0.91	734.66	0.98	594.42
65.40	670.71	0.91	734.66	0.98	594.65
65.50	670.71	0.91	734.66	0.98	594.87
65.60	670.71	0.91	734.66	0.98	595.08
65.70	670.71	0.91	734.66	0.98	595.26
65.80	670.71	0.91	734.66	0.98	595.44
65.90	670.71	0.91		0.98	
66.00	670.71	0.91	734.66 734.66	0.98	595.59 595.73
	670.71	0.91		0.98	
66.10			734.66		595.87
66.20	670.71	0.91	734.66	0.98	596.00
66.30	670.71	0.91	734.66	0.98	596.10
66.40	670.71	0.91	734.66	0.98	596.21
66.50	670.71	0.91	734.66	0.98	596.28
66.60	670.71	0.91	734.66	0.98	596.37
66.70	670.71	0.91	734.66	0.98	596.42
66.80	670.71	0.91	734.66	0.98	596.47
66.90	670.71	0.91	734.66	0.98	596.50
67.00	670.71	0.91	734.66	0.98	596.55
67.10	670.71	0.91	734.66	0.98	596.57
67.20	670.71	0.91	734.66	0.98	596.58
67.30	670.71	0.91	734.66	0.98	596.60
67.40	670.71	0.91	734.66	0.98	596.58
67.50	670.71	0.91	734.66	0.98	596.58
67.60	670.71	0.91	734.66	0.98	596.54
67.70	670.71	0.91	734.66	0.98	596.51
67.80	670.71	0.91	734.66	0.98	596.48
67.90	670.71	0.91	734.66	0.98	596.43
68.00	670.71	0.91	734.66	0.98	596.37
68.10	670.71	0.91	734.66	0.98	596.32
68.20	670.71	0.91	734.66	0.98	596.26
68.30	670.71	0.91	734.66	0.98	596.17
68.40	670.71	0.91	734.66	0.98	596.09
68.50	670.71	0.91	734.66	0.98	596.00
68.60	670.71	0.91	734.66	0.98	595.91
68.70	670.71	0.91	734.66	0.98	595.80
68.80	670.71	0.91	734.66	0.98	595.70
68.90	670.71	0.91	734.66	0.98	595.58
69.00	670.71	0.91	734.66	0.98	595.45
69.10	670.71	0.91	734.66	0.98	595.33
69.20	670.71	0.91	734.66	0.98	595.20
69.30	670.71	0.91	734.66	0.98	595.05
69.40	670.71	0.91	734.66	0.98	594.91
69.50	670.71	0.91	734.66	0.98	594.77

69.60	670.71	0.91	734.66	0.98	594.60
69.70	670.71	0.91	734.66	0.98	594.45
69.80	670.71	0.91	734.66	0.98	594.27
69.90	670.71	0.91	734.66	0.98	594.10
70.00	670.71	0.91	734.66	0.98	593.92
70.10	670.71	0.91		0.98	593.72
			734.66		
70.20	670.71	0.91	734.66	0.98	593.54
70.30	670.71	0.91	734.66	0.98	593.36
70.40	670.71	0.91	734.66	0.98	593.14
70.50	670.71	0.91	734.66	0.97	592.94
70.60	670.71	0.91	734.66	0.97	592.74
70.70	670.71	0.91	734.66	0.97	592.51
70.80	670.71	0.91	734.66	0.97	592.31
70.90	670.71	0.91	734.66	0.97	592.10
71.00	670.71	0.91	734.66	0.97	591.91
71.10	670.71	0.91	734.66	0.97	591.69
71.20	670.71	0.91	734.66	0.97	591.44
71.30	670.71	0.91	734.66	0.97	591.16
71.40	670.71	0.91	734.66	0.97	590.90
71.50	670.71	0.91	734.66	0.97	590.60
71.60	670.71	0.91	734.66	0.97	590.32
71.70	670.71	0.90	734.66	0.97	590.04
71.70	670.71	0.90	734.66	0.97	589.75
		0.90		0.97	
71.90	670.71		734.66		589.45
72.00	670.71	0.90	734.66	0.97	589.14
72.10	670.71	0.90	734.66	0.97	588.82
72.20	670.71	0.90	734.66	0.97	588.53
72.30	670.71	0.90	734.66	0.97	588.23
72.40	670.71	0.90	734.66	0.97	587.91
72.50	670.71	0.90	734.66	0.97	587.60
72.60	670.71	0.90	734.66	0.97	587.29
72.70	670.71	0.90	734.66	0.97	587.02
72.80	670.71	0.90	734.66	0.97	586.82
72.90	670.71	0.90	734.66	0.97	586.56
73.00	670.71	0.90	734.66	0.97	586.18
73.10	670.71	0.90	734.66	0.97	585.78
73.20	670.71	0.90	734.65	0.97	585.38
73.30	670.71	0.90	734.65	0.97	584.96
73.40	670.71	0.90	734.65	0.97	584.55
73.50	670.71	0.90	734.65	0.97	584.14
73.60	670.71	0.90	734.65	0.97	583.71
73.70	670.71	0.90	734.65	0.97	583.29
73.80	670.71	0.90	734.65	0.97	582.84
73.90	670.71	0.90	734.65	0.97	582.40
74.00	670.71	0.90	734.65	0.96	581.97
74.10	670.71	0.90	734.65	0.96	581.54
74.20	670.71	0.90	734.65	0.96	581.11
74.30	670.71	0.90	734.65	0.96	580.67
74.40	670.71	0.90	734.65	0.96	580.23
74.50	670.71	0.90	734.65	0.96	579.78
74.60	670.71	0.90	734.65	0.96	579.34
74.70	670.71	0.90	734.65	0.96	578.89
74.70	670.71	0.90	734.65	0.96	578.43
74.90	670.71	0.90	734.65	0.96	577.98
75.00	670.71	0.90	734.65	0.96	577.52
75.10	670.71	0.90	734.65	0.96	577.07
75.20	670.71	0.90	734.65	0.96	576.60
75.30	670.71	0.90	734.65	0.96	576.13
75.40	670.71	0.89	734.65	0.96	575.67

75.50	670.71	0.89	734.65	0.96	575.22
75.60	670.71	0.89	734.65	0.96	574.77
75.70	670.71	0.89	734.65	0.96	574.30
75.80	670.71	0.89	734.65	0.96	573.82
75.90	670.71	0.89	734.65	0.96	573.37
76.00	670.71	0.89	734.65	0.96	572.91
76.10	670.71	0.89	734.65	0.96	572.41
76.20	670.71	0.89	734.65	0.96	571.92
76.30	670.71	0.89	734.64	0.96	571.42
76.40	670.71	0.89	734.64	0.96	570.92
76.50	670.71	0.89	734.64	0.95	570.44
76.60	670.71	0.89	734.64	0.95	569.93
76.70	670.71	0.89	734.64	0.95	569.39
76.80	670.71	0.89	734.64	0.95	568.87
76.90	670.71	0.89	734.64	0.95	568.36
77.00	670.71	0.89	734.64	0.95	567.86
77.10	670.71	0.89	734.64	0.95	567.33
77.20	670.71	0.89	734.64	0.95	566.79
77.30	670.71	0.89	734.64	0.95	566.25
77.40	670.71	0.89	734.64	0.95	565.72
77.50	670.71	0.89	734.64	0.95	565.19
77.60	670.71	0.89	734.64	0.95	564.66
77.70	670.71	0.89	734.64	0.95	564.13
77.80	670.71	0.89	734.64	0.95	563.60
77.90	670.71	0.89	734.64	0.95	563.07
78.00	670.71	0.89	734.64	0.95	562.55
78.10	670.71	0.88	734.64	0.95	562.02
78.20	670.71	0.88	734.64	0.95	561.48
78.30	670.71	0.88	734.64	0.95	560.95
78.40	670.71	0.88	734.64	0.95	560.42
78.50	670.71	0.88	734.64	0.95	559.89
78.60	670.71	0.88	734.64	0.94	559.37
78.70	670.71	0.88	734.64	0.94	558.84
78.80	670.71	0.88	734.63	0.94	558.32
78.90	670.71	0.88	734.63	0.94	557.81
79.00	670.71	0.88	734.63	0.94	557.28
79.10	670.71	0.88	734.63	0.94	556.75
79.20	670.71	0.88	734.63	0.94	556.22
79.30	670.71	0.88	734.63	0.94	555.70
79.40	670.71	0.88	734.63	0.94	555.20
79.50	670.71	0.88	734.63	0.94	554.70
79.60	670.71	0.88	734.63	0.94	554.18
79.70	670.71	0.88	734.63	0.94	553.66
79.80	670.71	0.88	734.63	0.94	553.12
79.90	670.71	0.88	734.63	0.94	552.59
80.00	670.71	0.88	734.63	0.94	552.06
80.10	670.71	0.88	734.63	0.94	551.54
80.20	670.71	0.88	734.63	0.94	551.01
80.30	670.71	0.88	734.63	0.94	550.48
80.40	670.71	0.88	734.63	0.94	549.96
80.50	670.71	0.88	734.63	0.94	549.43
80.60	670.71	0.87	734.63	0.94	548.91
80.70	670.71	0.87	734.63	0.94	548.40
80.80	670.71	0.87	734.63	0.93	547.88
80.90	670.71	0.87	734.63	0.93	547.36
81.00	670.71	0.87	734.63	0.93	546.84
81.10	670.71	0.87	734.63	0.93	546.32
81.20	670.71	0.87	734.63	0.93	545.80
81.30	670.71	0.87	734.62	0.93	545.29

81.40	670.71	0.87	734.62	0.93	544.77
81.50	670.71	0.87	734.62	0.93	544.29
81.60	670.71	0.87	734.62	0.93	543.79
81.70	670.71	0.87	734.62	0.93	543.29
81.80	670.71	0.87	734.62	0.93	542.80
81.90	670.71	0.87	734.62	0.93	542.30
82.00	670.71	0.87	734.62	0.93	541.81
82.10	670.71	0.87	734.62	0.93	541.31
82.20	670.71	0.87	734.62	0.93	540.80
82.30	670.71	0.87	734.62	0.93	540.28
82.40	670.71	0.87	734.62	0.93	539.76
82.50	670.71	0.87	734.62	0.93	539.24
82.60	670.71	0.87	734.62	0.93	538.71
82.70	670.71	0.87	734.62	0.93	538.71
82.80		0.87	734.62	0.93	537.65
82.90	670.71				
	670.71	0.87	734.62	0.93	537.12
83.00	670.71	0.87	734.62	0.92	536.60
83.10	670.71	0.86	734.62	0.92	536.07
83.20	670.71	0.86	734.62	0.92	535.54
83.30	670.71	0.86	734.62	0.92	535.01
83.40	670.71	0.86	734.62	0.92	534.49
83.50	670.71	0.86	734.62	0.92	533.96
83.60	670.71	0.86	734.62	0.92	533.43
83.70	670.71	0.86	734.62	0.92	532.90
83.80	670.71	0.86	734.61	0.92	532.36
83.90	670.71	0.86	734.61	0.92	531.82
84.00	661.14	0.87	734.63	0.92	531.45
84.10	641.42	0.90	734.66	0.92	531.52
84.20	641.42	0.90	734.66	0.92	530.53
84.30	641.42	0.90	734.66	0.92	529.89
84.40	641.42	0.90	734.66	0.91	529.28
84.50	641.42	0.90	734.65	0.91	528.70
84.60	641.42	0.90	734.65	0.91	528.14
84.70	641.42	0.90	734.65	0.91	527.60
84.80	641.42	0.90	734.65	0.91	527.06
84.90	641.42	0.90	734.65	0.91	526.51
85.00	641.42	0.90	734.65	0.91	525.97
85.10	641.42	0.90	734.65	0.91	525.42
85.20	641.42	0.90	734.65	0.91	524.87
85.30	641.42	0.90	734.65	0.91	524.32
85.40	641.42	0.90	734.65	0.91	523.77
85.50	641.42	0.90	734.65	0.91	523.21
85.60	641.42	0.90	734.65	0.91	522.66
85.70	641.42	0.90	734.65	0.91	522.11
85.80	641.42	0.90	734.65	0.91	521.57
85.90	641.42	0.90	734.65	0.91	521.02
86.00	641.42	0.90	734.65	0.91	520.46
86.10	641.42	0.89	734.65	0.91	519.91
86.20	641.42	0.89	734.65	0.91	519.36
86.30	641.42	0.89	734.65	0.91	518.80
86.40	641.42	0.89	734.65	0.90	518.26
86.50	641.42	0.89	734.65	0.90	517.73
86.60	641.42	0.89	734.65	0.90	517.73
86.70	641.42	0.89	734.64	0.90	517.18
86.80	641.42	0.89	734.64	0.90	516.05
86.90	641.42	0.89	734.64	0.90	515.49
87.00	641.42	0.89	734.64	0.90	514.93
87.10	641.42	0.89	734.64	0.90	514.36
87.20	641.42	0.89	734.64	0.90	513.81

87.30	641.42	0.89	734.64	0.90	513.26
87.40	641.42	0.89	734.64	0.90	512.72
87.50	641.42	0.89	734.64	0.90	512.19
87.60	641.42	0.89	734.64	0.90	511.67
87.70	641.42	0.89	734.64	0.90	511.16
87.80	641.42	0.89	734.64	0.90	510.66
87.90	641.42	0.89	734.64	0.90	510.07
88.00	641.42	0.89	734.64	0.90	509.49
88.10	641.42	0.89	734.64	0.90	508.90
88.20	641.42	0.89	734.64	0.90	508.32
88.30	641.42	0.88	734.64	0.89	507.73
88.40	641.42	0.88	734.64	0.89	507.16
	641.42	0.88		0.89	
88.50			734.64		506.59
88.60	641.42	0.88	734.64	0.89	506.02
88.70	641.42	0.88	734.64	0.89	505.46
88.88	641.42	0.88	734.64	0.89	504.90
88.90	641.42	0.88	734.64	0.89	504.34
89.00	641.42	0.88	734.63	0.89	503.78
89.10	641.42	0.88	734.63	0.89	503.23
89.20	641.42	0.88	734.63	0.89	502.68
89.30	641.42	0.88	734.63	0.89	502.14
89.40	641.42	0.88	734.63	0.89	501.60
89.50	641.42	0.88	734.63	0.89	501.06
89.60	641.42	0.88	734.63	0.89	500.50
89.70	641.42	0.88	734.63	0.89	499.95
89.80	641.42	0.88	734.63	0.89	499.38
89.90	641.42	0.88	734.63	0.89	498.81
90.00	641.42	0.88	734.63	0.89	498.25
90.10	641.42	0.88	734.63	0.89	497.70
90.20	641.42	0.88	734.63	0.88	497.15
90.30	641.42	0.88	734.63	0.88	496.60
90.40	641.42	0.88	734.63	0.88	496.04
90.50	641.42	0.87	734.63	0.88	495.47
90.60	641.42	0.87	734.63	0.88	494.88
90.70	641.42	0.87	734.63	0.88	494.30
90.80	641.42	0.87	734.63	0.88	493.72
90.90	641.42	0.87	734.63	0.88	493.13
91.00	641.42	0.87	734.63	0.88	492.53
91.10	641.42	0.87	734.62	0.88	491.94
91.20	641.42	0.87	734.62	0.88	491.35
91.30	641.42	0.87	734.62	0.88	490.77
91.40	641.42	0.87	734.62	0.88	490.18
91.50	641.42	0.87	734.62	0.88	489.59
91.60	641.42	0.87	734.62	0.88	488.99
91.70	641.42	0.87	734.62	0.88	488.40
91.80	641.42	0.87	734.62	0.88	487.82
91.90	641.42	0.87	734.62	0.88	487.23
92.00	641.42	0.87	734.62	0.88	486.95
92.10	641.42	0.87	734.62	0.87	486.31
92.20	641.42	0.87	734.62	0.87	485.65
92.30	641.42	0.87	734.62	0.87	485.03
92.40	641.42	0.87	734.62	0.87	484.42
92.50	641.42	0.87	734.62	0.87	483.81
92.60	641.42	0.86	734.62	0.87	483.21
92.70	641.42	0.86	734.62	0.87	482.60
92.80	641.42	0.86	734.62	0.87	481.93
92.90	641.42	0.86	734.62	0.87	481.42
93.00	641.42	0.86	734.62	0.87	480.81
93.10	641.42	0.86	734.61	0.87	480.23
23.10	0-1.72	0.00	, 54.01	0.07	400.23

93.20	641.42	0.86	734.61	0.87	479.62
93.30	641.42	0.86	734.61	0.87	479.04
93.40	641.42	0.86	734.61	0.87	478.45
93.50	641.42	0.86	734.61	0.87	477.86
93.60	641.42	0.86	734.61	0.87	477.26
93.70	641.42	0.86	734.61	0.87	476.66
93.80	641.42	0.86	734.61	0.86	476.05
93.90	641.42	0.86	734.61	0.86	475.38
94.00	641.42	0.86	734.61	0.86	474.77
94.10	641.42	0.86	734.61	0.86	474.77
94.20	641.42	0.86	734.61	0.86	473.69
94.30	641.42	0.86	734.61	0.86	473.13
94.40	641.42	0.86	734.61	0.86	472.56
94.50	641.42	0.85	734.61	0.86	471.96
94.60	641.42	0.85	734.61	0.86	
				0.86	471.39 470.80
94.70	641.42	0.85	734.61		
94.80	641.42	0.85	734.61	0.86	470.18
94.90	641.42	0.85	734.61	0.86	469.57
95.00	641.42	0.85	734.61	0.86	468.94
95.10	641.42	0.85	734.60	0.86	468.25
95.20	641.42	0.85	734.60	0.86	467.63
95.30	641.42	0.85	734.60	0.86	467.01
95.40	641.42	0.85	734.60	0.86	466.39
95.50	641.42	0.85	734.60	0.85	465.97
95.60	641.42	0.85	734.60	0.85	465.22
95.70	641.42	0.85	734.60	0.85	464.65
95.80	641.42	0.85	734.60	0.85	464.07
95.90	641.42	0.85	734.60	0.85	463.49
96.00	641.42	0.85	734.60	0.85	462.89
96.10	641.42	0.85	734.60	0.85	462.27
96.20	641.42	0.85	734.60	0.85	461.66
96.30	641.42	0.85	734.60	0.85	461.01
96.40	641.42	0.84	734.60	0.85	460.38
96.50	641.42	0.84	734.60	0.85	459.76
96.60	641.42	0.84	734.60	0.85	459.14
96.70	641.42	0.84	734.60	0.85	458.52
96.80	641.42	0.84	734.60	0.85	457.89
96.90	641.42	0.84	734.60	0.85	457.28
97.00	641.42	0.84	734.59	0.85	456.83
97.10	641.42	0.84	734.59	0.85	456.28
97.20	641.42	0.84	734.59	0.84	455.54
97.30	641.42	0.84	734.59	0.84	454.85
97.40	641.42	0.84	734.59	0.84	454.30
97.50	641.42	0.84	734.59	0.84	453.72
97.60	641.42	0.84	734.59	0.84	452.98
97.70	641.42	0.84	734.59	0.84	452.30
97.80	641.42	0.84	734.59	0.84	451.63
97.90	641.42	0.84	734.59	0.84	450.96
98.00	641.42	0.84	734.59	0.84	450.32
98.10	641.42	0.84	734.59	0.84	449.64
98.20	641.42	0.84	734.59	0.84	449.00
98.30	641.42	0.83	734.59	0.84	448.38
98.40	641.42	0.83	734.59	0.84	447.84
98.50	641.42	0.83	734.59	0.84	447.21
98.60	641.42	0.83	734.59	0.84	446.57
98.70	641.42	0.83	734.59	0.84	446.13
98.80	641.42	0.83	734.58	0.83	445.43
98.90	641.42	0.83	734.58	0.83	444.73
99.00	641.42	0.83	734.58	0.83	444.75
33.00	041.42	0.03	134.30	0.03	444.00

99.10	641.42	0.83	734.58	0.83	443.37
99.20	641.42	0.83	734.58	0.83	442.70
99.30	641.42	0.83	734.58	0.83	442.04
99.40	641.42	0.83	734.58	0.83	441.37
99.50	641.42	0.83	734.58	0.83	440.67
99.60	641.42	0.83	734.58	0.83	439.99
99.70	641.42	0.83	734.58	0.83	439.33
99.80	641.42	0.83	734.58	0.83	438.66
99.90	641.42	0.83	734.58	0.83	437.98
100.00	641.42	0.82	734.58	0.83	437.33

THE MAXIMUM DISCHARGE FROM CROSS SECTION 27 IS: 307.04 CFS AT TIME: 27.01 HOURS

THE TOTAL VOLUME OF DISCHARGE IS: 933.88 AF

HYDROGRAPH AND FLOODPLAIN HYDRAULICS (AVERAGED FOR THE OUTPUT INTERVAL) FOR CROSS SECTION NO: 27

VELOCITY = AVERAGE CROSS SECTION VELOCITY (BASED ON DISCHARGE AND FLOW AREA)

VLLOCI	I - AVENAGE	CHOSS SECTION	VELOCITI (DASED	ON DISCHARGE	AND I LOW ARLA)
TIME	FLOW WIDTH	AVE. DEPTH	WS ELEV	VELOCITY	DISCHARGE
(HRS)	(FT)	(FT)	(FT/FT)	(FPS)	(CFS)
0.10	0.00	0.00	0.00	0.00	0.00
0.10	0.00	0.00	0.00	0.00	0.00
0.20	0.00	0.00	0.00	0.00	0.00
0.30	0.00	0.00	0.00	0.00	0.00
0.40	0.00	0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00	0.00	0.00
0.60	0.00	0.00	0.00	0.00	0.00
0.70	0.00	0.00	0.00	0.00	0.00
0.80	0.00	0.00	0.00	0.00	0.00
0.90	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.00	0.00	0.00	0.00
1.10	0.00	0.00	0.00	0.00	0.00
1.20	0.00	0.00	0.00	0.00	0.00
1.30	0.00	0.00	0.00	0.00	0.00
1.40	0.00	0.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00	0.00	0.00
1.60	0.00	0.00	0.00	0.00	0.00
1.70	0.00	0.00	0.00	0.00	0.00
1.80	0.00	0.00	0.00	0.00	0.00
1.90	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00
2.10	0.00	0.00	0.00	0.00	0.00
2.20	0.00	0.00	0.00	0.00	0.00
2.30	0.00	0.00	0.00	0.00	0.00
2.40	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00
2.60	0.00	0.00	0.00	0.00	0.00
2.70	0.00	0.00	0.00	0.00	0.00
2.80	0.00	0.00	0.00	0.00	0.00
2.90	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00
3.10	0.00	0.00	0.00	0.00	0.00
3.20	0.00	0.00	0.00	0.00	0.00
3.30	0.00	0.00	0.00	0.00	0.00
3.40	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00
3.60	0.00	0.00	0.00	0.00	0.00
3.70	0.00	0.00	0.00	0.00	0.00
3.80	0.00	0.00	0.00	0.00	0.00
3.90	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00
4.10	0.00	0.00	0.00	0.00	0.00
4.20	0.00	0.00	0.00	0.00	0.00
4.30	0.00	0.00	0.00	0.00	0.00
4.40	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00
4.60	0.00	0.00	0.00	0.00	0.00

4.70	0.00	0.00	0.00	0.00	0.00
4.80	0.00	0.00	0.00	0.00	0.00
4.90	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00
5.10	0.00	0.00	0.00	0.00	0.00
5.20	0.00	0.00	0.00	0.00	0.00
5.30	0.00	0.00	0.00	0.00	0.00
5.40	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00
5.60	0.00	0.00	0.00	0.00	0.00
5.70 5.80	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
5.90	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00
6.10	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00
6.30	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00
6.60	0.00	0.00	0.00	0.00	0.00
6.70	0.00	0.00	0.00	0.00	0.00
6.80	0.00	0.00	0.00	0.00	0.00
6.90	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00
7.10	0.00	0.00	0.00	0.00	0.00
7.20	0.00	0.00	0.00	0.00	0.00
7.30	0.00	0.00	0.00	0.00	0.00
7.40	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00
7.60	0.00	0.00	0.00	0.00	0.00
7.70 7.80	12.12 29.29	0.00 0.00	735.98 735.99	0.01 0.01	0.00 0.00
7.90	29.29	0.01	735.99	0.01	0.00
8.00	35.40	0.01	735.99	0.01	0.00
8.10	91.46	0.01	735.99	0.00	0.00
8.20	169.77	0.01	735.99	0.01	0.01
8.30	274.78	0.01	735.99	0.01	0.01
8.40	339.24	0.01	735.99	0.01	0.02
8.50	388.89	0.01	735.99	0.01	0.03
8.60	431.98	0.01	735.99	0.01	0.03
8.70	489.49	0.01	735.99	0.01	0.04
8.80	558.47	0.01	735.99	0.01	0.04
8.90	600.11	0.01	735.99	0.01	0.05
9.00	658.74	0.01	735.99	0.01	0.07
9.10	719.20	0.01	735.99	0.01	0.08
9.20	796.32	0.01	735.99	0.01	0.09
9.30	828.94	0.01	735.99	0.01	0.11
9.40	910.02	0.01	736.00	0.01	0.13
9.50 9.60	998.47 1098.13	0.01 0.01	736.00 736.00	0.01 0.01	0.15 0.17
9.70	1225.52	0.02	736.00	0.01	0.18
9.80	1332.29	0.02	736.00	0.01	0.20
9.90	1381.82	0.02	736.00	0.01	0.21
10.00	1463.73	0.02	736.00	0.01	0.26
10.10	1528.58	0.02	736.00	0.01	0.29
10.20	1559.30	0.02	736.00	0.01	0.33
10.30	1659.25	0.02	736.01	0.01	0.38
10.40	1703.32	0.02	736.01	0.01	0.41
10.50	1726.08	0.03	736.01	0.01	0.46

10.60	1782.09	0.03	736.01	0.01	0.53
10.70	1869.91	0.03	736.01	0.01	0.61
10.80	1923.73	0.03	736.01	0.01	0.68
10.90	1950.45	0.03	736.02	0.01	0.76
11.00	1972.03	0.04	736.02	0.01	0.86
11.10	2032.50	0.04	736.02	0.01	0.97
11.20	2081.53	0.04	736.02	0.01	1.10
11.30	2117.15	0.04	736.03	0.01	1.24
11.40	2143.63	0.05	736.03	0.01	1.45
11.50	2192.05	0.05	736.03	0.01	1.64
11.60	2199.99	0.06	736.04	0.02	2.13
11.70	2225.19	0.07	736.05	0.02	3.00
11.80	2254.40	0.09	736.07	0.02	4.34
11.90	2307.79	0.12	736.10	0.03	7.92
12.00	2373.18	0.16	736.14	0.04	13.54
12.10	2356.06	0.19	736.17	0.04	19.71
12.20	2362.51	0.21	736.20	0.05	25.66
12.30	2392.18	0.23	736.22	0.06	32.24
12.40					37.69
	2373.74	0.25	736.23	0.06	
12.50	2399.43	0.26	736.24	0.07	43.30
12.60	2381.12	0.26	736.25	0.08	47.71
12.70	2368.75	0.26	736.24	0.08	50.35
12.80	2359.43	0.26	736.24	0.09	52.85
12.90	2370.70	0.26	736.24	0.09	54.76
13.00	2357.95	0.26	736.24	0.09	56.38
13.10	2358.57	0.26	736.24	0.09	57.63
13.20	2351.24	0.26	736.24	0.10	59.43
13.30	2270.96	0.26	736.24	0.10	61.28
13.40	2277.90	0.26	736.24	0.11	63.20
13.50	2308.96	0.26	736.24	0.11	65.17
13.60	2301.69	0.26	736.24	0.11	67.13
13.70	2299.70	0.26	736.24	0.11	68.58
13.80	2341.50	0.27	736.25	0.11	70.76
13.90	2358.57	0.27	736.25	0.12	73.51
14.00	2358.57	0.27	736.25	0.12	76.29
14.10	2358.57	0.27	736.26	0.12	79.32
14.20	2364.66	0.28	736.26	0.13	82.65
14.30	2392.88	0.28	736.26	0.13	85.13
14.40	2370.70	0.29	736.27	0.13	88.08
14.50	2367.25	0.29	736.27	0.13	90.83
14.60	2354.33	0.29	736.28	0.13	92.83
14.70	2363.23	0.30	736.28	0.14	96.26
14.80	2370.70	0.30	736.28	0.14	99.32
14.90	2370.70	0.30	736.29	0.14	101.88
15.00	2370.70	0.31	736.29	0.14	104.28
15.10	2349.74	0.31	736.29	0.14	105.86
15.20	2343.49	0.31	736.30	0.15	107.14
15.30	2350.74	0.32	736.30	0.15	109.11
15.40		0.32	736.30		111.21
15.50	2357.99	0.32	736.30	0.15 0.15	111.21
	2358.57				
15.60	2358.57	0.33	736.31	0.15	114.53
15.70	2358.57	0.33	736.31	0.15	116.69
15.80	2358.57	0.33	736.31	0.15	117.32
15.90	2358.57	0.33	736.31	0.15	118.39
16.00	2358.57	0.33	736.32	0.15	120.01
16.10	2358.57	0.34	736.32	0.15	121.56
16.20	2358.57	0.34	736.32	0.15	122.96
16.30	2358.57	0.34	736.32	0.15	123.82
16.40	2358.57	0.34	736.32	0.16	125.37

16.50	2358.57	0.34	736.33	0.16	126.64
16.60	2358.57	0.35	736.33	0.16	128.17
16.70	2358.57	0.35	736.33	0.16	129.66
16.80	2358.57	0.35	736.33	0.16	130.96
16.90	2358.57	0.35	736.33	0.16	132.06
17.00	2358.57	0.35	736.33	0.16	133.24
17.10	2358.57	0.35	736.34	0.16	134.53
17.20	2358.57	0.35	736.34	0.16	135.67
17.30	2358.57	0.36	736.34	0.16	136.65
17.40	2358.57	0.36	736.34	0.16	137.84
17.50	2358.57	0.36	736.34	0.16	138.77
17.60	2358.27	0.36	736.34	0.17	140.00
17.70	2357.97	0.36	736.34	0.17	141.30
17.80	2358.27	0.36	736.35	0.17	142.51
17.90	2352.29	0.36	736.35	0.17	143.79
18.00	2334.60	0.37	736.35	0.17	144.95
18.10	2331.67	0.37	736.35	0.17	145.80
18.20	2330.47	0.37	736.35	0.17	146.80
18.30	2329.87	0.37	736.35	0.17	147.63
18.40	2330.48	0.37	736.35	0.17	149.09
18.50	2331.67	0.37	736.35	0.17	150.39
18.60	2331.67	0.37	736.36	0.17	151.72
18.70	2332.90	0.37	736.36	0.18	153.08
18.80	2332.26	0.38	736.36	0.18	154.33
18.90	2332.90	0.38	736.36	0.18	155.62
19.00	2332.90	0.38	736.36	0.18	157.39
19.10	2332.26	0.38	736.36	0.18	159.21
19.20	2331.69	0.38	736.36	0.18	161.08
19.30	2307.54	0.38	736.37	0.18	162.70
19.40	2301.20	0.39	736.37	0.19	164.82
19.50	2296.46	0.39	736.37	0.19	166.73
		0.39		0.19	168.54
19.60	2260.27		736.37		
19.70	2258.57	0.39	736.37	0.19	170.76
19.80	2258.57	0.39	736.38	0.19	173.12
19.90	2258.57	0.40	736.38	0.20	175.37
20.00	2258.57	0.40	736.38	0.20	177.37
20.10	2258.57	0.40	736.38	0.20	180.06
20.20	2247.58	0.40	736.39	0.20	182.63
20.30	2247.89	0.41	736.39	0.20	185.63
20.40	2259.79	0.41	736.39	0.20	188.47
20.50	2258.57	0.41	736.40	0.21	190.94
20.60	2261.31	0.42	736.40	0.21	194.11
20.70	2272.30	0.42	736.40	0.21	197.21
20.80	2285.39	0.42	736.40	0.21	199.92
20.90	2287.85	0.43	736.41	0.21	203.06
21.00	2287.85	0.43	736.41	0.21	206.20
21.10	2287.85	0.43	736.42	0.21	208.92
21.20	2287.85	0.44	736.42	0.21	212.12
21.30	2287.85	0.44	736.42	0.21	215.41
21.40	2287.85	0.44	736.43	0.22	218.21
21.50	2287.85	0.45	736.43	0.22	221.34
21.60	2287.85	0.45	736.43	0.22	224.65
21.70	2287.85	0.45	736.44	0.22	228.03
21.80	2271.82	0.46	736.44	0.22	231.06
21.90	2259.18	0.46	736.45	0.22	233.71
22.00	2258.57	0.47	736.45	0.22	236.68
22.10	2258.57	0.47	736.45	0.23	239.92
22.20	2258.57	0.47	736.46	0.23	243.37
22.30	2258.57	0.48	736.46	0.23	246.22
22.50	2230.37	0.40	, 50.40	0.23	2-10.22

22.40	2258.57	0.48	736.46	0.23	248.93
22.50	2258.57	0.48	736.47	0.23	251.73
22.60	2258.57	0.49	736.47	0.23	254.65
22.70	2258.57	0.49	736.48	0.23	257.51
22.80	2258.57	0.50	736.48	0.23	260.54
22.90	2258.57	0.50	736.48	0.23	263.01
23.00	2258.57	0.50	736.49	0.23	265.74
23.10	2258.57	0.51	736.49	0.23	268.30
23.20	2258.57	0.51	736.49	0.24	270.75
23.30	2258.57	0.51	736.50	0.24	273.35
23.40	2258.57	0.52	736.50	0.24	275.73
23.50	2258.57	0.52	736.50	0.24	277.96
23.60	2258.57	0.52	736.50	0.24	280.25
23.70	2258.57	0.52	736.51	0.24	282.47
23.80	2258.57	0.53	736.51	0.24	284.71
23.90	2258.57	0.53	736.51	0.24	286.84
24.00	2258.57	0.53	736.51	0.24	288.65
24.10	2258.57	0.53	736.52	0.24	290.30
24.20	2258.57	0.54	736.52	0.24	291.85
24.30	2258.57	0.54	736.52	0.24	293.06
24.40	2258.57	0.54	736.52	0.24	294.14
24.50	2258.57	0.54	736.52	0.24	295.45
24.60	2258.57	0.54	736.52	0.24	296.28
24.70	2258.57	0.54	736.53	0.24	297.16
24.80	2258.57	0.54	736.53	0.24	297.81
24.90	2258.57	0.55	736.53	0.24	298.84
25.00	2258.57	0.55	736.53	0.24	299.70
25.10	2258.57	0.55	736.53	0.24	300.58
25.20	2258.57	0.55	736.53	0.24	301.36
25.30	2258.57	0.55	736.53	0.24	302.10
25.40	2258.57	0.55	736.53	0.24	302.78
25.50	2258.57	0.55	736.53	0.24	303.39
25.60	2258.57	0.55	736.53	0.24	303.93
25.70	2258.57	0.55	736.54	0.24	304.34
25.80	2258.57	0.55	736.54	0.24	304.75
25.90	2258.57	0.55	736.54	0.24	305.14
26.00	2258.57	0.55	736.54	0.24	305.49
26.10	2258.57	0.55	736.54	0.24	305.81
26.20	2258.57	0.55	736.54	0.24	306.08
26.30	2258.57	0.55	736.54	0.24	306.32
26.40	2258.57	0.56	736.54	0.24	306.52
26.50	2258.57	0.56	736.54	0.24	306.57
26.60	2258.57	0.56	736.54	0.24	306.74
26.70	2258.57	0.56	736.54	0.24	306.89
26.80	2239.78	0.56	736.54	0.25	306.97
26.90	2229.28	0.56	736.54	0.25	307.01
27.00	2229.28	0.56	736.54	0.25	307.04
27.10	2229.28	0.56	736.54	0.25	307.03
27.20	2229.28	0.56	736.54	0.25	307.00
27.30	2229.28	0.56	736.54	0.25	306.94
27.40	2229.28	0.56	736.54	0.25	306.86
27.50	2229.28	0.56	736.54	0.25	306.79
27.60	2229.28	0.56	736.54	0.25	306.67
27.70	2229.28	0.56	736.54	0.25	306.51
27.80	2229.28	0.56	736.54	0.25	306.33
27.90	2229.28	0.56	736.54	0.25	306.12
28.00	2229.28	0.56	736.54	0.25	305.89
28.10	2229.28	0.56	736.54	0.25	305.65
28.20	2229.28	0.55	736.54	0.25	305.42

28.30	2229.28	0.55	736.54	0.25	305.20
28.40	2229.28	0.55	736.54	0.25	304.97
28.50	2229.28	0.55	736.54	0.25	304.68
28.60	2229.28	0.55	736.54	0.25	304.37
28.70	2229.28	0.55	736.54	0.25	304.13
28.80	2249.23	0.55	736.54	0.24	303.84
28.90	2249.78	0.55	736.54	0.24	303.57
29.00	2248.59	0.55	736.54	0.24	303.20
29.10	2247.18	0.55	736.53	0.24	302.79
29.20	2246.20	0.55	736.53	0.24	302.79
29.30	2246.20	0.55	736.53	0.24	301.92
29.40	2245.55	0.55	736.53	0.24	301.49
29.50	2244.90	0.55	736.53	0.24	301.06
29.60	2244.57	0.55	736.53	0.24	300.72
29.70	2244.25	0.55	736.53	0.24	300.28
29.80	2244.25	0.55	736.53	0.24	299.80
29.90	2244.57	0.55	736.53	0.24	299.31
30.00	2244.25	0.55	736.53	0.24	298.88
30.10	2244.25	0.55	736.53	0.24	298.44
30.20	2243.92	0.55	736.53	0.24	297.98
30.30	2243.60	0.55	736.53	0.24	297.54
30.40	2243.10	0.55	736.53	0.24	297.14
30.50	2222.69	0.55	736.53	0.24	296.68
30.60	2201.52	0.54	736.53	0.25	296.21
30.70	2202.34	0.54	736.53	0.25	295.69
30.80	2201.52	0.54	736.53	0.25	295.19
30.90	2202.34	0.54	736.53	0.25	294.66
31.00	2201.52	0.54	736.53	0.25	294.09
31.10	2201.68	0.54	736.53	0.25	293.50
31.20	2201.68	0.54	736.52	0.25	292.96
31.30	2201.52	0.54	736.52	0.25	292.43
31.40	2198.06	0.54	736.52	0.25	291.82
31.50	2171.07	0.55	736.53	0.24	291.15
31.60	2171.07	0.55	736.53	0.24	290.49
31.70	2171.07	0.55	736.53	0.24	289.83
31.80	2170.69	0.55	736.53	0.24	289.16
31.90	2171.17	0.55	736.53	0.24	288.49
32.00	2170.77	0.55	736.53	0.24	287.90
32.10	2171.12	0.55	736.53	0.24	287.30
32.20	2170.71	0.55	736.53	0.24	286.62
32.30	2170.71	0.55	736.53	0.24	285.95
32.40	2170.41	0.55	736.53	0.24	285.45
32.50	2170.41	0.54	736.53	0.24	284.63
32.60	2170.53	0.54	736.53	0.24	284.00
32.70	2170.15	0.54	736.53	0.24	283.78
32.80	2170.28	0.54	736.53	0.24	282.98
32.90	2169.76	0.54	736.52	0.24	282.15
33.00	2170.01	0.54	736.52	0.24	281.47
33.10	2169.34	0.54	736.52	0.24	280.90
33.20	2169.92	0.54	736.52	0.24	280.07
33.30	2169.22	0.54	736.52	0.24	279.24
33.40	2170.04	0.54	736.52	0.24	278.45
33.50	2169.67	0.54	736.52	0.24	277.68
33.60	2169.16	0.54	736.52	0.24	276.89
33.70	2165.57	0.54	736.52	0.24	276.09
33.80	2164.93	0.53	736.52	0.24	275.27
33.90	2166.38	0.53	736.52	0.24	274.48
		0.53			
34.00	2167.48		736.52	0.24	273.64
34.10	2168.14	0.53	736.51	0.24	272.83

34.20	2169.01	0.53	736.51	0.24	272.01
34.30	2169.22	0.53	736.51	0.24	271.21
34.40	2169.33	0.53	736.51	0.24	270.44
34.50	2169.55	0.53	736.51	0.24	270.03
34.60	2169.67	0.53	736.51	0.24	269.12
34.70	2169.59	0.53	736.51	0.23	268.25
34.80	2169.71	0.53	736.51	0.23	267.46
34.90	2169.39	0.52	736.51	0.23	266.66
35.00	2169.63	0.52	736.51	0.23	265.92
35.10	2169.31	0.52	736.51	0.23	265.12
35.20	2169.55	0.52	736.51	0.23	264.28
35.30	2169.22	0.52	736.50	0.23	263.41
35.40	2169.01	0.52	736.50	0.23	262.60
35.50	2168.52	0.52	736.50	0.23	261.80
35.60	2165.21	0.52	736.50	0.23	261.25
35.70	2133.85	0.54	736.52	0.23	260.59
35.80	2135.44	0.54	736.52	0.23	259.74
35.90	2136.84	0.54	736.52	0.23	258.93
36.00	2137.55	0.53	736.52	0.23	258.13
36.10	2138.29	0.53	736.52	0.23	257.27
36.20	2138.71	0.53	736.52	0.22	256.40
36.30	2139.43	0.53	736.51	0.22	255.50
36.40	2139.43	0.53	736.51	0.22	255.10
36.50	2139.33	0.53	736.51	0.22	254.28
36.60	2139.82	0.53	736.51	0.22	253.52
	2139.74				
36.70		0.53	736.51	0.22	252.64
36.80	2140.38	0.53	736.51	0.22	251.76
36.90	2140.49	0.53	736.51	0.22	250.93
37.00	2140.74	0.53	736.51	0.22	250.06
37.10	2140.10	0.52	736.51	0.22	249.21
37.20	2140.22	0.52	736.51	0.22	248.56
37.30	2140.34	0.52	736.51	0.22	247.80
37.40	2140.47	0.52	736.50	0.22	246.97
37.50	2140.19	0.52	736.50	0.22	246.26
37.60	2139.90	0.52	736.50	0.22	245.39
37.70	2140.22	0.52	736.50	0.22	244.59
37.80	2139.54	0.52	736.50	0.22	243.81
37.90	2139.65	0.52	736.50	0.22	242.77
38.00	2126.19	0.52	736.50	0.22	241.80
38.10	2115.74	0.51	736.50	0.22	240.87
38.20	2116.37	0.51	736.50	0.22	239.89
38.30	2115.44	0.51	736.50	0.22	238.98
38.40	2115.93	0.51	736.49	0.22	238.36
38.50	2115.28	0.51	736.49	0.22	237.69
38.60	2113.30	0.51	736.49	0.22	236.91
38.70	2113.22	0.51	736.49	0.22	235.96
38.80	2114.63	0.51	736.49	0.22	235.01
38.90	2114.63	0.51	736.49	0.22	234.14
39.00	2114.12	0.51	736.49	0.22	233.34
39.10	2114.76	0.50	736.49	0.22	232.41
39.20	2114.77	0.50	736.49	0.22	231.50
39.30	2114.22	0.50	736.49	0.22	230.53
39.40	2114.49	0.50	736.48	0.22	229.59
39.50	2114.35	0.50	736.48	0.22	228.71
39.60	2114.49	0.50	736.48	0.22	227.81
39.70	2113.91	0.50	736.48	0.22	226.93
39.80	2114.05	0.50	736.48	0.22	226.03
39.90	2113.89	0.50	736.48	0.21	225.12
40.00	2113.44	0.49	736.48	0.21	224.51

40.10	2113.27	0.49	736.48	0.21	223.68
40.20	2113.41	0.49	736.48	0.21	222.77
40.30	2113.41	0.49	736.47	0.21	221.86
40.40	2112.94	0.49	736.47	0.21	220.96
40.50	2113.14	0.49	736.47	0.21	220.71
40.60	2112.89	0.49	736.47	0.21	219.58
40.70	2112.70	0.49	736.47	0.21	218.52
40.80	2113.51	0.49	736.47	0.21	217.55
40.90	2112.62	0.49	736.47	0.21	216.64
41.00	2112.88	0.48	736.47	0.21	215.81
41.10	2111.82	0.48	736.47	0.21	214.98
41.20	2112.54	0.48	736.46	0.21	214.07
41.30	2112.62	0.48	736.46	0.21	213.19
41.40	2112.02	0.48	736.46	0.21	212.31
41.50	2112.46	0.48	736.46	0.21	211.51
41.60	2112.58	0.48	736.46	0.21	210.68
41.70	2112.10	0.48	736.46	0.21	209.98
41.80	2111.60	0.47	736.46	0.21	209.38
41.90	2111.16	0.47	736.46	0.21	208.56
42.00	2111.70	0.47	736.46	0.21	207.82
42.10	2112.02	0.47	736.45	0.21	206.92
42.20	2111.17	0.47	736.45	0.21	206.03
42.30	2111.17	0.47	736.45	0.21	205.14
42.40	2111.48	0.47	736.45	0.21	204.25
42.50	2111.82	0.47	736.45	0.21	203.39
42.60	2111.32	0.47	736.45	0.21	202.60
42.70	2110.79	0.46	736.45	0.21	201.72
42.70	2110.53	0.46	736.45	0.21	200.90
42.90	2110.33	0.46	736.45	0.20	200.01
43.00	2110.15	0.46	736.44	0.20	199.19
43.10	2110.13	0.46	736.44	0.20	198.42
43.10	2111.94	0.46	736.44	0.20	197.51
43.30	2112.13	0.46	736.44	0.20	196.64
43.40	2112.35	0.46	736.44	0.20	195.77
43.50	2112.33	0.46	736.44	0.20	195.47
43.60	2113.23	0.45	736.44	0.20	194.65
43.70	2114.35	0.45	736.44	0.20	193.61
43.80	2114.33	0.45	736.43	0.20	192.67
43.90	2110.43	0.45	736.43	0.20	191.79
44.00	2111.12	0.45	736.43	0.20	190.89
44.10	2111.16	0.45	736.43	0.20	189.97
44.20	2111.76	0.45	736.43	0.20	189.23
44.30	2112.77	0.45	736.43	0.20	188.49
44.40	2111.92	0.44	736.43	0.20	187.68
44.50	2112.15	0.44	736.43	0.20	186.80
44.60	2111.93	0.44	736.42	0.20	185.92
44.70	2111.33	0.44	736.42	0.20	185.37
44.80	2113.20	0.44	736.42	0.20	184.61
44.90	2112.78	0.44	736.42	0.20	183.68
45.00	2112.73	0.44	736.42	0.20	182.85
45.10	2112.47	0.44	736.42	0.20	182.11
45.20	2112.13	0.43	736.42	0.20	181.23
45.30	2112.75	0.43	736.42	0.20	180.49
45.40	2111.70	0.43	736.42	0.20	179.70
45.50	2111.36	0.43	736.41	0.20	178.92
45.60	2111.30	0.43	736.41	0.20	178.17
45.70	2110.01	0.43	736.41	0.20	177.47
45.80	2109.84	0.43	736.41	0.20	176.95
45.90	2109.24	0.43	736.41	0.20	176.52
43.30	2109.24	0.43	750.41	0.20	1/0.32

46.00	2109.04	0.43	736.41	0.20	176.13
46.10	2109.21	0.43	736.41	0.20	175.83
46.20	2108.83	0.42	736.41	0.20	174.87
46.30	2108.91	0.42	736.41	0.19	173.98
46.40	2108.60	0.42	736.41	0.19	173.14
46.50	2108.50	0.42	736.40	0.19	172.36
46.60	2108.14	0.42	736.40	0.19	171.65
46.70	2108.28	0.42	736.40	0.19	171.12
46.80	2107.44	0.42	736.40	0.19	170.27
46.90	2107.04	0.42	736.40	0.19	169.56
47.00	2107.73	0.42	736.40	0.19	168.91
47.10	2106.75	0.41	736.40	0.19	168.10
47.20	2107.38	0.41	736.40	0.19	167.35
47.30	2107.04	0.41	736.40	0.19	166.56
47.40	2107.00	0.41	736.39	0.19	165.77
47.50	2107.18	0.41	736.39	0.19	165.02
47.60	2106.85	0.41	736.39	0.19	164.25
47.70	2106.50	0.41	736.39	0.19	163.52
47.80	2107.11	0.41	736.39	0.19	163.12
47.90	2106.68	0.41	736.39	0.19	162.40
48.00	2106.62	0.41	736.39	0.19	161.60
48.10	2103.43	0.40	736.39	0.19	160.93
48.20	2094.94	0.40	736.39	0.19	160.27
48.30	2090.14	0.40	736.39	0.19	159.62
48.40	2085.61	0.40	736.38	0.19	158.93
48.50	2080.46	0.40	736.38	0.19	158.17
48.60	2076.17	0.40	736.38	0.19	157.40
48.70	2076.28	0.40	736.38	0.19	156.62
48.80	2076.10	0.40	736.38	0.19	156.14
48.90	2075.95	0.40	736.38	0.19	155.42
49.00	2075.71	0.39	736.38	0.19	154.72
49.10	2075.03	0.39	736.38	0.19	154.08
49.20	2072.55	0.39	736.38	0.19	153.31
49.30	2075.49	0.39	736.37	0.19	152.70
49.40	2073.16	0.39	736.37	0.19	151.96
49.50	2070.14	0.39	736.37	0.19	151.22
49.60	2067.32	0.39	736.37	0.19	150.48
49.70	2064.63	0.39	736.37	0.19 0.19	149.78
49.80	2062.26	0.39	736.37	0.19	149.12 148.49
49.90 50.00	2061.96 2059.98	0.38 0.38	736.37 736.37	0.19	147.83
50.10	2059.14	0.38	736.37	0.19	147.14
50.20	2057.29	0.38	736.36	0.19	146.46
50.30	2055.64	0.38	736.36	0.19	145.84
50.40	2056.29	0.38	736.36	0.19	145.38
50.50	2047.37	0.38	736.36	0.19	144.74
50.60	2045.99	0.38	736.36	0.19	144.07
50.70	2046.59	0.38	736.36	0.19	143.46
50.80	2045.14	0.37	736.36	0.19	142.84
50.90	2045.75	0.37	736.36	0.19	142.31
51.00	2044.80	0.37	736.36	0.19	141.70
51.10	2045.28	0.37	736.35	0.19	141.26
51.20	2044.39	0.37	736.35	0.19	140.93
51.30	2044.98	0.37	736.35	0.19	140.38
51.40	2045.04	0.37	736.35	0.19	139.72
51.50	2044.05	0.37	736.35	0.18	139.02
				0 10	420 24
51.60	2050.55	0.37	736.35	0.18	138.31
51.70	2070.17	0.37	736.35	0.18	137.58

51.90	2073.16	0.36	736.35	0.18	136.23
52.00	2073.70	0.36	736.35	0.18	135.87
52.10	2073.78	0.36	736.34	0.18	135.29
52.20	2073.34	0.36	736.34	0.18	134.62
52.30	2046.74	0.36	736.34	0.18	133.91
52.40	2043.87	0.36	736.34	0.18	133.27
52.50	2044.42	0.36	736.34	0.18	132.65
52.60	2041.65	0.36	736.34	0.18	132.03
52.70	2014.56	0.36	736.34	0.18	131.53
52.80	2014.65	0.35	736.34	0.18	130.95
52.90	2015.20	0.35	736.34	0.18	130.60
53.00	2014.21	0.35	736.34	0.18	129.88
53.10	2014.81	0.35	736.33	0.18	129.38
53.20	2013.75	0.35	736.33	0.18	128.87
53.30	2014.71	0.35	736.33	0.18	128.21
53.40	2012.36	0.35	736.33	0.18	127.62
53.50	2010.14	0.35	736.33	0.18	127.18
53.60	2007.79	0.35	736.33	0.18	126.55
53.70	2006.42	0.35	736.33	0.18	126.02
53.80	2004.67	0.34	736.33	0.18	125.53
53.90	2002.18	0.34	736.33	0.18	124.97
54.00	1991.92	0.34	736.33	0.18	124.44
54.10	1968.92	0.34	736.32	0.18	123.89
54.20	1955.26	0.34	736.32	0.19	123.31
54.30	1944.14	0.34	736.32	0.19	122.78
54.40	1943.47	0.34	736.32	0.19	122.29
54.50	1942.99	0.34	736.32	0.19	121.83
54.60	1943.41	0.34	736.32	0.19	121.51
54.70	1942.82	0.34	736.32	0.19	121.37
54.80	1943.35	0.33	736.32	0.19	120.81
54.90	1942.90	0.33	736.32	0.19	120.31
55.00	1943.96	0.33	736.32	0.19	120.24
55.10	1962.66	0.33	736.32	0.18	119.52
55.20	1963.84	0.33	736.31	0.18	118.83
55.30	1967.48	0.33	736.31	0.18	118.40
55.40	1970.97	0.33	736.31	0.18	117.79
55.50	1970.70	0.33	736.31	0.18	117.16
55.60	1971.92	0.33	736.31	0.18	116.56
55.70	1969.20	0.33	736.31	0.18	115.97
					115.39
55.80	1968.13	0.33	736.31	0.18	
55.90	1971.48	0.32	736.31	0.18	114.84
56.00	1969.13	0.32	736.31	0.18	114.41
56.10	1971.40	0.32	736.31	0.18	113.94
56.20	1973.10	0.32	736.30	0.18	113.38
56.30	1969.72	0.32	736.30	0.18	112.88
56.40	1970.95	0.32	736.30	0.18	112.36
56.50	1972.50	0.32	736.30	0.18	111.82
56.60	1972.28	0.32	736.30	0.18	111.28
56.70	1972.30	0.32	736.30	0.18	110.76
56.80	1972.33	0.32	736.30	0.18	110.26
56.90	1972.34	0.32	736.30	0.18	109.77
57.00	1972.37	0.31	736.30	0.18	109.41
57.10	1971.83	0.31	736.30	0.18	109.06
57.10	1945.46	0.31	736.30	0.18	108.48
57.20	1931.00	0.31	736.29	0.18	107.92
57.40	1930.40	0.31	736.29	0.18	107.32
57.50	1930.29	0.31	736.29	0.18	106.86
57.60	1932.36	0.31	736.29	0.18	106.40
57.70	1933.01	0.31	736.29	0.18	106.01

57.80	1933.08	0.31	736.29	0.18	105.60
57.90	1932.56	0.31	736.29	0.18	105.16
58.00	1932.66	0.31	736.29	0.18	104.71
58.10	1932.12	0.31	736.29	0.18	104.31
58.20	1931.76	0.30	736.29	0.18	103.88
58.30	1932.33	0.30	736.29	0.18	103.45
58.40	1931.35	0.30	736.29	0.18	103.00
58.50	1918.72	0.30	736.28	0.18	102.55
58.60	1905.41	0.30	736.28	0.18	102.08
58.70	1906.62	0.30	736.28	0.18	101.62
58.80	1905.57	0.30	736.28	0.18	101.16
58.90	1905.68	0.30	736.28	0.18	100.70
59.00	1885.83	0.30	736.28	0.18	100.23
59.10	1870.93	0.30	736.28	0.18	99.78
59.20	1863.62	0.30	736.28	0.18	99.72
59.30	1864.48	0.30	736.28	0.18	99.21
59.40	1863.98	0.29	736.28	0.18	98.71
59.50	1864.66	0.29	736.28	0.18	98.23
59.60	1863.85	0.29	736.28	0.18	98.11
59.70	1864.18	0.29	736.27	0.18	98.29
59.80	1864.38	0.29	736.27	0.18	97.77
59.90	1864.17	0.29	736.27	0.18	97.21
60.00	1863.28	0.29	736.27	0.18	96.78
60.10	1864.90	0.29	736.27	0.18	96.35
60.20	1865.55	0.29	736.27	0.18	95.95
60.30	1864.04	0.29	736.27	0.18	95.48
60.40	1865.26	0.29	736.27	0.18	95.12
60.50	1864.15	0.28	736.27	0.18	94.63
60.60	1865.02	0.28	736.27	0.18	94.38
60.70					
	1864.17	0.28	736.27	0.18	94.09
60.80	1864.32	0.28	736.27	0.18	94.13
60.90	1863.89	0.28	736.26	0.18	93.70
61.00	1863.99	0.28	736.26	0.18	93.07
61.10	1863.41	0.28	736.26	0.18	92.44
61.20	1863.17	0.28	736.26	0.18	91.89
61.30	1863.07	0.28	736.26	0.18	91.43
61.40	1861.65	0.28	736.26	0.18	91.04
61.50	1858.57	0.28	736.26	0.18	90.75
61.60	1807.78	0.28	736.26	0.18	90.69
61.70	1773.21	0.27	736.26	0.19	90.35
61.80	1765.24	0.27	736.26	0.19	89.91
61.90	1764.43	0.27	736.26	0.19	89.40
62.00	1763.07	0.27	736.26	0.19	88.82
62.10	1761.91	0.27	736.25	0.19	88.59
62.20	1761.45	0.27	736.25	0.19	88.12
62.30			736.25		87.67
	1760.70	0.27		0.18	
62.40	1761.79	0.27	736.25	0.18	87.26
62.50	1761.12	0.27	736.25	0.18	86.99
62.60	1761.45	0.27	736.25	0.18	86.71
62.70	1761.03	0.27	736.25	0.18	86.41
62.80	1757.05	0.27	736.25	0.18	85.80
62.90	1750.53	0.26	736.25	0.18	85.58
63.00	1749.86	0.26	736.25	0.19	85.52
63.10	1749.43	0.26	736.25	0.19	85.41
63.20	1736.94	0.26	736.24	0.19	85.03
63.30	1731.21	0.26	736.24	0.19	84.42
63.40	1725.93	0.26	736.24	0.19	83.93
63.50	1725.01	0.26	736.24	0.19	83.54
63.60	1720.73	0.26	736.24	0.19	83.17
03.00	1/20./3	0.20	750.24	0.15	05.17

63.70	1711.01	0.26	736.24	0.19	82.89
63.80	1708.73	0.26	736.24	0.19	82.62
63.90	1707.38	0.26	736.24	0.19	82.12
64.00	1665.62	0.26	736.24	0.19	81.63
64.10	1662.95	0.25	736.24	0.19	81.22
64.20	1662.47	0.25	736.24	0.19	81.04
64.30	1649.28	0.25	736.24	0.19	80.56
64.40	1638.37	0.25	736.24	0.19	80.36
64.50	1637.86	0.25	736.23	0.19	79.89
64.60	1637.50	0.25	736.23	0.19	79.68
64.70	1637.20	0.25	736.23	0.19	79.12
64.80	1638.15	0.25	736.23	0.19	78.97
64.90	1633.66	0.25	736.23	0.19	78.37
65.00	1632.32	0.25	736.23	0.19	77.90
65.10	1631.25	0.25	736.23	0.19	77.65
65.20	1629.55	0.25	736.23	0.19	77.28
65.30	1623.02	0.24	736.23	0.19	76.76
65.40	1622.91	0.24	736.23	0.19	76.35
65.50	1621.63	0.24	736.23	0.19	75.98
65.60	1620.76	0.24	736.23	0.19	75.59
65.70	1620.75	0.24	736.22	0.19	75.21
65.80	1620.71	0.24	736.22	0.19	74.84
65.90	1619.09	0.24	736.22	0.19	74.47
66.00	1619.19	0.24	736.22	0.19	74.12
66.10	1619.19	0.24		0.19	73.80
			736.22		
66.20	1618.39	0.24	736.22	0.19	73.59
66.30	1618.20	0.24	736.22	0.19	73.39
66.40	1616.65	0.24	736.22	0.19	73.17
66.50	1617.12	0.24	736.22	0.19	72.90
66.60	1617.40	0.24	736.22	0.19	72.64
66.70	1618.45	0.24	736.22	0.19	72.38
66.80	1617.37	0.23	736.22	0.19	72.10
66.90	1619.35	0.23	736.22	0.19	71.83
67.00	1621.70	0.23	736.22	0.19	71.50
67.10	1614.37	0.23	736.22	0.19	71.16
67.20	1608.86	0.23	736.21	0.19	70.90
67.30	1607.45	0.23	736.21	0.19	70.63
67.40	1605.85	0.23	736.21	0.19	70.42
67.50	1602.65	0.23	736.21	0.19	70.13
67.60	1601.48	0.23	736.21	0.19	69.73
67.70	1594.34	0.23	736.21	0.19	69.48
67.80	1592.15	0.23	736.21	0.19	69.26
67.90	1590.67	0.23	736.21	0.19	69.00
68.00	1590.77	0.23	736.21	0.19	68.57
68.10	1588.66	0.23	736.21	0.19	68.25
68.20	1582.98	0.23	736.21	0.19	68.08
68.30	1581.79	0.22	736.21	0.19	67.67
68.40	1577.59	0.22	736.21	0.19	67.28
68.50	1575.96	0.22	736.21	0.19	66.91
68.60	1553.23	0.22	736.21	0.19	66.57
68.70	1530.85	0.22	736.20	0.20	66.29
68.80	1515.30	0.22	736.20	0.20	65.97
68.90	1480.74	0.22	736.20	0.20	65.71
69.00	1476.71	0.22	736.20	0.20	65.56
69.10	1445.74	0.22	736.20	0.21	65.36
69.20	1441.94	0.22	736.20	0.21	65.35
69.30	1440.33	0.22	736.20	0.21	64.91
69.40	1440.17	0.22	736.20	0.21	64.52
69.50	1439.93	0.22	736.20	0.20	64.16

69.60	1439.86	0.22	736.20	0.20	63.82
69.70	1440.06	0.22	736.20	0.20	63.63
69.80	1439.14	0.22	736.20	0.20	63.35
69.90	1438.96	0.22	736.20	0.20	63.04
70.00	1438.79	0.21	736.20	0.20	62.99
70.10	1438.96	0.21	736.20	0.20	62.63
70.20	1438.25	0.21	736.20	0.20	62.44
70.30	1438.33	0.21	736.20	0.20	62.29
70.40	1423.86	0.21	736.19	0.21	61.92
70.50	1390.32	0.21	736.19	0.21	61.55
70.60	1380.19	0.21	736.19	0.21	61.26
70.70	1380.19	0.21	736.19	0.21	60.95
70.70	1380.37	0.21	736.19	0.21	60.92
70.80	1380.14	0.21	736.19	0.21	60.57
71.00	1379.44	0.21	736.19	0.21	60.26
71.10	1354.49	0.21	736.19	0.21	60.00
71.20	1350.55	0.21	736.19	0.21	59.81
71.30	1350.63	0.21	736.19	0.21	59.53
71.40	1350.90	0.21	736.19	0.21	59.42
71.50	1349.86	0.21	736.19	0.21	59.15
71.60	1350.03	0.20	736.19	0.21	58.99
71.70	1350.11	0.20	736.19	0.21	58.69
71.80	1349.91	0.20	736.19	0.21	58.48
71.90	1349.70	0.20	736.19	0.21	58.40
72.00	1348.93	0.20	736.19	0.21	58.24
72.10	1349.33	0.20	736.19	0.21	58.28
72.20	1348.94	0.20	736.18	0.21	57.94
72.30	1349.08	0.20	736.18	0.21	57.65
72.40	1348.67	0.20	736.18	0.21	57.34
72.50	1348.88	0.20	736.18	0.21	57.04
72.60	1348.08	0.20	736.18	0.21	56.94
72.70	1348.02	0.20	736.18	0.21	56.73
72.80	1348.15	0.20	736.18	0.21	56.46
72.90	1347.75	0.20	736.18	0.21	56.33
73.00	1347.86	0.20	736.18	0.21	56.08
73.10	1347.49	0.20	736.18	0.21	55.81
73.20	1347.61	0.20	736.18	0.21	55.60
73.30	1347.12	0.20	736.18	0.21	55.30
73.40	1347.37	0.20	736.18	0.21	55.03
73.50	1347.07	0.20	736.18	0.21	54.84
73.60	1347.69	0.19	736.18	0.21	54.61
73.70	1346.25	0.19	736.18	0.21	54.37
73.80	1346.84	0.19	736.18	0.21	54.25
73.90	1346.99	0.19	736.18	0.21	54.06
				0.21	
74.00	1346.48	0.19	736.18		53.98
74.10	1346.54	0.19	736.18	0.21	53.99
74.20	1347.17	0.19	736.17	0.21	54.51
74.30	1346.04	0.19	736.17	0.21	53.77
74.40	1346.69	0.19	736.17	0.21	53.45
74.50	1346.25	0.19	736.17	0.21	53.15
74.60	1345.79	0.19	736.17	0.21	52.85
74.70	1345.84	0.19	736.17	0.21	52.59
74.80	1347.05	0.19	736.17	0.21	52.35
74.90	1349.38	0.19	736.17	0.21	52.12
75.00	1349.55	0.19	736.17	0.21	51.90
75.10	1349.49	0.19	736.17	0.20	51.69
75.20	1350.15	0.19	736.17	0.20	51.47
75.30	1343.30	0.19	736.17	0.21	51.30
75.40	1309.21	0.19	736.17	0.21	51.19

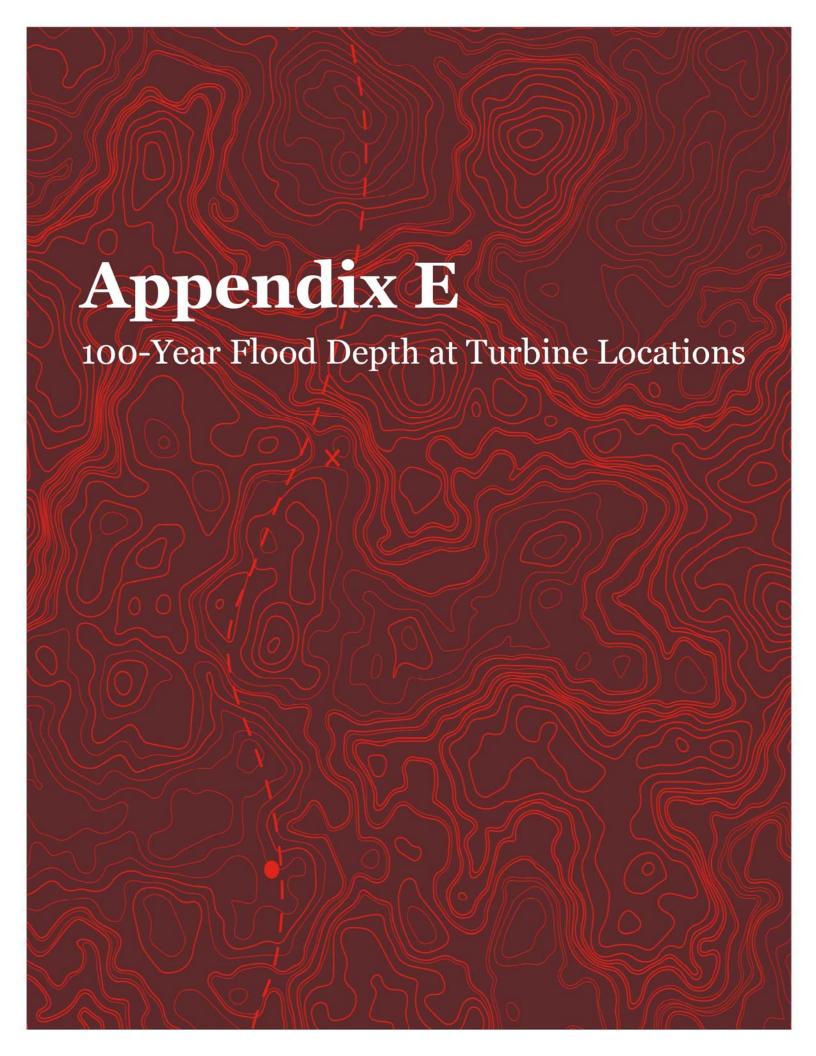
75.50	1309.57	0.19	736.17	0.21	51.08
75.60	1309.57	0.18	736.17	0.21	50.98
75.70	1308.72	0.18	736.17	0.21	51.28
75.80	1309.05	0.18	736.17	0.21	51.46
75.90	1309.00	0.18	736.17	0.21	51.07
76.00	1309.76	0.18	736.17	0.21	51.05
76.10	1311.60	0.18	736.17	0.21	50.60
76.20	1313.43	0.18	736.16	0.21	50.31
76.30	1313.53	0.18	736.16	0.21	50.06
76.40	1315.33	0.18	736.16	0.21	49.82
76.50	1315.20	0.18	736.16	0.21	49.60
76.60	1315.79	0.18	736.16	0.21	49.39
76.70	1316.52	0.18	736.16	0.21	49.19
	1316.98	0.18	736.16	0.21	49.09
76.80					
76.90	1320.63	0.18	736.16	0.21	48.94
77.00	1321.57	0.18	736.16	0.21	48.81
77.10	1321.37	0.18	736.16	0.21	48.86
77.20	1318.53	0.18	736.16	0.21	48.54
77.30	1314.50	0.18	736.16	0.21	48.64
77.40	1308.44	0.18	736.16	0.21	48.37
77.50	1309.66	0.18	736.16	0.21	48.18
77.60	1309.47	0.18	736.16	0.21	47.98
77.70	1309.66	0.18	736.16	0.21	47.77
77.80	1310.35	0.18	736.16	0.21	47.56
77.90	1310.26	0.17	736.16	0.21	47.36
78.00	1310.86	0.17	736.16	0.21	47.17
78.10	1310.06	0.17	736.16	0.21	46.98
78.20	1303.69	0.17	736.16	0.21	46.78
78.30	1299.43	0.17	736.16	0.21	46.69
78.40	1299.72	0.17	736.16	0.21	46.68
78.50	1299.44	0.17	736.16	0.21	46.36
78.60	1300.27	0.17	736.15	0.21	46.14
78.70	1293.39	0.17	736.15	0.21	45.95
78.80	1245.76	0.17	736.15	0.21	45.76
78.90	1244.96	0.17	736.15	0.21	45.60
79.00	1244.43	0.17	736.15	0.21	45.44
79.10	1244.74	0.17	736.15	0.21	45.27
79.20	1244.58	0.17	736.15	0.21	45.09
79.30	1243.31	0.17	736.15	0.21	44.92
79.40	1242.51	0.17	736.15	0.21	44.76
79.50	1240.85	0.17	736.15	0.21	44.59
79.60	1240.56	0.17	736.15	0.21	44.42
79.70	1241.12	0.17	736.15	0.21	44.26
79.80	1238.83	0.17	736.15	0.21	44.14
79.90	1199.99	0.17		0.21	44.06
			736.15		
80.00	1199.47	0.17	736.15	0.22	43.86
80.10	1201.08	0.17	736.15	0.22	43.69
80.20	1200.54	0.17	736.15	0.22	43.51
80.30	1200.56	0.17	736.15	0.22	43.32
80.40	1201.12	0.17	736.15	0.22	43.14
80.50	1201.36	0.17	736.15	0.22	42.95
80.60	1201.76	0.16	736.15	0.22	42.78
80.70	1201.28	0.16	736.15	0.22	42.63
80.80	1198.48	0.16	736.15	0.22	42.50
80.90	1184.82	0.16	736.15	0.22	42.33
81.00	1184.15	0.16	736.15	0.22	42.17
81.10	1182.62	0.16	736.15	0.22	42.00
81.20	1182.90	0.16	736.15	0.22	41.83
81.30	1180.94	0.16	736.15	0.22	41.65

81.40	1174.47	0.16	736.15	0.22	41.48
81.50	1172.82	0.16	736.15	0.22	41.33
81.60	1171.73	0.16	736.14	0.22	41.20
81.70	1170.58	0.16	736.14	0.22	41.07
81.80	1168.95	0.16	736.14	0.22	40.94
81.90	1168.37	0.16	736.14	0.22	40.83
82.00	1167.53	0.16	736.14	0.22	40.99
82.10	1141.79	0.16	736.14	0.22	40.91
82.20	1139.18	0.16	736.14	0.22	40.69
82.30	1136.21	0.16	736.14	0.22	40.50
82.40	1133.87	0.16	736.14	0.22	40.36
82.50	1134.03	0.16	736.14	0.22	40.33
82.60	1134.08	0.16	736.14	0.22	40.15
82.70	1133.66	0.16	736.14	0.22	39.95
82.80	1132.91	0.16	736.14	0.22	40.22
82.90	1134.07	0.16	736.14	0.22	40.02
83.00	1120.09	0.16	736.14	0.23	39.90
83.10	1106.44	0.16	736.14	0.23	39.79
83.20	1106.44	0.16	736.14	0.23	39.58
83.30	1105.97	0.16	736.14	0.23	39.36
83.40	1106.27	0.16	736.14	0.23	39.33
83.50	1105.27	0.16	736.14	0.23	39.15
83.60	1105.37	0.16	736.14	0.23	38.96
83.70	1106.07	0.16	736.14	0.23	38.80
83.80	1105.01	0.16	736.14	0.22	38.56
83.90	1105.11	0.15	736.14	0.22	38.37
84.00	1105.21	0.15	736.14	0.22	38.17
84.10	1104.68	0.15	736.14	0.22	37.98
84.20	1104.70	0.15	736.14	0.22	37.79
84.30	1104.70	0.15	736.14	0.22	37.62
84.40	1104.52	0.15	736.14	0.22	37.45
84.50	1105.15	0.15	736.14	0.22	37.29
84.60	1105.29	0.15	736.14	0.22	37.14
84.70	1104.22	0.15	736.14	0.22	37.00
84.80	1104.54	0.15	736.13	0.22	36.86
84.90	1104.68	0.15	736.13	0.22	36.73
85.00	1104.09	0.15	736.13	0.22	36.59
85.10	1097.60	0.15	736.13	0.22	36.47
85.20	1074.81	0.15	736.13	0.22	36.39
85.30	1075.37	0.15	736.13	0.22	36.27
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85.40	1074.47	0.15	736.13		36.17
85.50	1075.08	0.15	736.13	0.22	36.11
85.60	1074.61	0.15	736.13	0.22	35.99
85.70	1075.21	0.15	736.13	0.22	35.85
85.80	1075.34	0.15	736.13	0.22	35.71
85.90	1074.81	0.15	736.13	0.22	35.56
86.00	1074.61	0.15	736.13	0.22	35.41
86.10	1074.82	0.15	736.13	0.22	35.26
86.20	1074.40	0.15	736.13	0.22	35.11
86.30	1074.50	0.15	736.13	0.22	34.97
86.40	1074.57	0.15	736.13	0.22	34.83
86.50	1074.89	0.15	736.13	0.22	34.70
86.60	1075.59	0.15	736.13	0.22	34.57
86.70	1074.76	0.15	736.13	0.22	34.46
86.80	1074.51	0.15	736.13	0.22	34.34
86.90	1073.34	0.15	736.13	0.22	34.22
87.00	1075.33	0.15	736.13	0.22	34.10
87.10	1074.93	0.15	736.13	0.22	33.98
87.20	1074.50	0.15	736.13	0.22	33.86
				(=1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32.20

87.30	1074.54	0.15	736.13	0.22	33.74
87.40	1075.21	0.14	736.13	0.22	33.63
87.50	1074.12	0.14	736.13	0.22	33.52
87.60	1076.50	0.14	736.13	0.21	33.41
87.70	1077.15	0.14	736.13	0.21	33.41
87.80	1075.73	0.14	736.13	0.22	33.34
87.90	1075.15	0.14	736.13	0.21	33.22
88.00	1074.37	0.14	736.13	0.21	33.09
88.10	1075.00	0.14	736.13	0.21	32.96
88.20	1074.02	0.14	736.13	0.21	32.83
88.30	1074.61	0.14	736.13	0.21	32.70
88.40	1074.12	0.14	736.13	0.21	32.70
88.50	1074.47	0.14	736.13	0.21	32.45
88.60	1073.93	0.14	736.13	0.21	32.43
88.70	1073.69	0.14	736.13	0.21	32.21
88.80	1074.89	0.14	736.13	0.21	32.12
88.90	1073.15	0.14	736.13	0.21	32.03
89.00	1074.26	0.14	736.13	0.21	31.91
89.10	1073.37	0.14	736.13	0.21	31.80
89.20	1073.96	0.14	736.12	0.21	31.69
89.30	1072.94	0.14	736.12	0.21	31.59
89.40	1073.52	0.14	736.12	0.21	31.49
89.50	1073.60	0.14	736.12	0.21	31.39
89.60	1073.02	0.14	736.12	0.21	31.29
89.70	1073.69	0.14	736.12	0.21	31.19
89.80	1073.10	0.14	736.12	0.21	31.10
89.90	1033.63	0.14	736.12	0.21	30.99
90.00	1031.95	0.14	736.12	0.21	30.89
90.10	1031.47	0.14	736.12	0.21	30.79
90.20	1031.49	0.14	736.12	0.21	30.69
90.30	1031.56	0.14	736.12	0.21	30.60
90.40	1031.01	0.14	736.12	0.21	30.52
90.50	1030.46	0.14	736.12	0.21	30.43
90.60	1029.28	0.14	736.12	0.21	30.33
90.70	1029.88	0.14	736.12	0.21	30.23
90.80	1029.89	0.14	736.12	0.21	30.12
90.90	1016.16	0.14	736.12	0.21	30.02
91.00	1013.57	0.14	736.12	0.21	29.92
91.10	994.60	0.14	736.12	0.22	29.81
91.20	978.82	0.14	736.12	0.22	29.71
91.30	976.48	0.14	736.12	0.22	29.61
91.40	971.21	0.14	736.12	0.22	29.51
91.50	969.59	0.14	736.12	0.22	29.41
91.60	971.13	0.14	736.12	0.22	29.31
91.70	970.23	0.14	736.12	0.22	29.21
91.80	970.17	0.14	736.12	0.22	29.12
91.90	969.86	0.14	736.12	0.22	29.20
92.00	961.58	0.14	736.12	0.22	29.22
92.10	959.39	0.14	736.12	0.22	28.99
92.20	958.85	0.14	736.12	0.22	28.85
92.30	958.29	0.14	736.12	0.22	28.73
92.40	958.29	0.14	736.12	0.22	28.61
92.50	958.87	0.14	736.12	0.22	28.50
92.60	956.80	0.14	736.12	0.22	28.40
92.70	958.27	0.14	736.12	0.22	28.30
92.80	952.13	0.14	736.12	0.22	28.21
92.90	953.03	0.14	736.12	0.22	28.13
93.00	950.44	0.14	736.12	0.22	28.03
93.10	950.01	0.14	736.12	0.22	27.93

93.20	951.25	0.13	736.12	0.22	27.83
93.30	950.53	0.13	736.12	0.22	27.74
93.40	948.71	0.13	736.12	0.22	27.64
93.50	949.70	0.13	736.12	0.22	27.55
93.60	949.61	0.13	736.12	0.22	27.52
93.70	948.61	0.13	736.12	0.22	27.43
93.80	948.20	0.13	736.12	0.22	27.33
93.90	949.23	0.13	736.12	0.21	27.23
94.00	946.11	0.13	736.12	0.21	27.14
94.10	937.96	0.13	736.12	0.22	27.08
94.20	937.30	0.13	736.12	0.22	27.03
94.30	923.65	0.13	736.12	0.22	26.92
94.40	923.25	0.13	736.12	0.22	26.82
94.50	920.20	0.13	736.12	0.22	26.73
94.60	919.23	0.13	736.12	0.22	26.64
94.70	918.82	0.13	736.12	0.22	26.55
94.80	916.16	0.13	736.12	0.22	26.47
94.90	914.79	0.13	736.11	0.22	26.38
95.00	914.64	0.13	736.11	0.22	26.31
95.10	912.91	0.13	736.11	0.22	26.25
95.20	913.05	0.13	736.11	0.22	26.19
95.30	909.97	0.13	736.11	0.22	26.11
95.40	905.73	0.13	736.11	0.22	26.03
95.50	903.90	0.13	736.11	0.22	25.95
95.60	902.01	0.13	736.11	0.22	25.87
95.70	899.71	0.13	736.11	0.22	25.79
95.80	898.52	0.13	736.11	0.22	25.71
95.90	898.79	0.13	736.11	0.22	25.64
96.00	898.16	0.13	736.11	0.22	25.57
96.10	896.94	0.13	736.11	0.22	25.49
96.20	897.31	0.13	736.11	0.22	25.42
96.30	896.98	0.13	736.11	0.22	25.35
96.40	895.81	0.13	736.11	0.22	25.28
96.50	895.97	0.13	736.11	0.22	25.22
96.60	896.23	0.13	736.11	0.22	25.15
96.70	894.37	0.13	736.11	0.22	25.09
96.80	894.62	0.13	736.11	0.22	25.03
96.90	896.07	0.13	736.11	0.21	24.97
97.00	894.75	0.13	736.11	0.21	24.91
97.10	893.83	0.13	736.11	0.21	24.85
97.20	894.33	0.13	736.11	0.21	24.78
97.30	893.38	0.13	736.11	0.21	24.72
97.40	893.88	0.13	736.11	0.21	24.66
97.50	892.59	0.13	736.11	0.21	24.59
97.60	893.24	0.13	736.11	0.21	24.53
97.70	891.77	0.13	736.11	0.21	24.46
97.80	892.43	0.13	736.11	0.21	24.40
97.90	892.01	0.13	736.11	0.21	24.33
98.00	891.67	0.13	736.11	0.21	24.27
98.10	891.24	0.13	736.11	0.21	24.20
98.20	891.58	0.13	736.11	0.21	24.13
98.30	890.46	0.13	736.11	0.21	24.07
98.40	889.83	0.13	736.11	0.21	24.00
98.50	889.83	0.13	736.11	0.21	23.94
98.60	890.03	0.13	736.11	0.21	23.87
98.70	889.82	0.13	736.11	0.21	23.80
98.80	890.86	0.13	736.11	0.21	23.73
98.90	890.86	0.13	736.11	0.21	23.67
99.00	890.02	0.13	736.11	0.21	23.60

99.10	890.23	0.13	736.11	0.21	23.54
99.20	890.45	0.13	736.11	0.21	23.47
99.30	890.68	0.13	736.11	0.21	23.41
99.40	888.89	0.13	736.11	0.21	23.34
99.50	888.89	0.13	736.11	0.21	23.28
99.60	890.69	0.13	736.11	0.21	23.22
99.70	888.64	0.13	736.11	0.21	23.15
99.80	889.24	0.13	736.11	0.21	23.09
99.90	889.32	0.13	736.11	0.21	23.02
100.00	888.28	0.13	736.11	0.21	22.96



Westwood

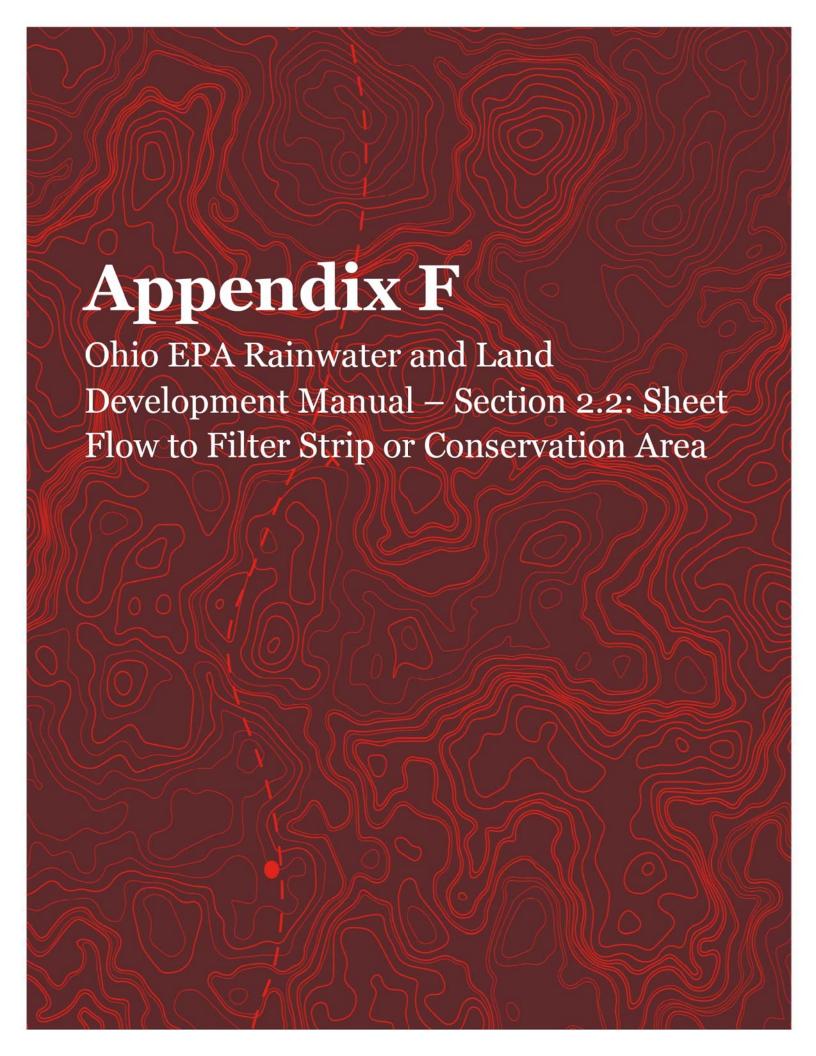
Project: Grover Hill Wind Project

Attachment A: 100-Year Turbine Flood Depths

Date: 4-Aug-21

Turbine Array: 20210329_Grover_Hill_Turbines.shp

Turbine ID	100-Year Flood Depth (ft)
T-13	4.6
T-14	1.7
T-34	1.5
T-33	1.1
T-30	0.7
T-25	0.7
T-38	0.5
T-32	0.5
T-17	0.5
T-41	0.4
T-37	0.4
T-35	0.4
T-29	0.4
T-40	0.3
T-28	0.3
T-27	0.3
T-26	0.3
T-36	0.2
T-16	0.2
T-43	0.1
T-31	0.1
T-15	0.1
T-11	0.1



2.2 Sheet Flow to Filter Strip or Conservation Area



Photo credit: David Reutter, Franklin SWCD

Description

Both sheet flow to filter strip and sheet flow to conservation area are the practice of directing diffuse, uncollected runoff from an area of impervious cover (typically pavement) through an adjacent broad, pervious area of heathy vegetation and high soil quality on a mild slope.

Filter strips are uniformly sloped areas of maintained turf-forming grasses applied between the impervious surface and the storm drainage conveyance infrastructure (for example, pipe or channel).

Conservation areas are undisturbed areas of forest, prairie, or mixed vegetation in a natural condition, typically contiguous with the receiving waters. Managed lawn, landscaping, routinely maintained areas, and high-use areas are not considered conservation areas.

A filter strip or conservation area alone does not achieve water quality goals and cannot be used as a development's exclusive or primary practice to manage stormwater or the water quality volume (WQv). Either practice, however, may provide full WQv treatment for small pockets within a development that cannot otherwise be directed to a standard practice and are not pollutant hot spots.

A filter strip or conservation area should not be confused with a stream or wetland buffer. Buffer strips or setbacks (see Chapter 1) have diverse vegetation that provides additional function beyond stormwater treatment including habitat, shade, flood attenuation, and channel stability. Conservation areas are ideal for managing drainage discharges to a stream or wetland buffer. **Jurisdictional wetlands themselves may not serve as conservation areas.** Wetlands are sensitive to the increased inputs of stormwater runoff.

Planning and Feasibility

Dense, healthy vegetation is central to the effectiveness of a filter strip or conservation area. These practices should only be applied where it is reasonable to expect healthy vegetation on uncompacted soil can be established and maintained long-term. Field evaluate potential conservation areas to determine their suitability prior to design.

A filter strip can serve as a multi-use area providing limited, passive recreational use. To maintain cover and minimize soil compaction, do not plan a filter strip in an area expected to receive regular pedestrian (trails) or vehicular traffic after the site is developed. Filter strips can also provide a convenient area for plowed snow storage and treatment.

Incorporating filter strips throughout a development site provides many stormwater benefits including:

- · pretreatment that reduces maintenance of the primary stormwater management practice,
- · lower peak flow rates by extending the site's time of concentration, and
- a lower WQv for the drainage area through runoff reduction credits.

Locating a filter strip or conservation area on private residential lots is not recommended unless it can be assured that eventual homeowners will protect the area, maintaining both the water quality and drainage functions of the practice. However, both practices may be particularly useful where construction of an individual residence on a large lot requires stormwater management.

Neither practice is appropriate for treating hot spots where a high load or accumulation of a specific pollutant may stress the vegetation and/or result in groundwater contamination.

Credits

Table 2.2.1 Credits for Sheet Flow to a Filter Strip or a Conservation Area Meeting the Criteria in this Chapter

Objective		Credit
Runoff Reduction Volume (RRv)		0.06 ft ³ per square foot of filter strip constructed on Hydrologic Soil Group A or B soil
	Filter Strip	0.03 ft ³ per square foot of filter strip constructed on Hydrologic Soil Group C or D soil
		0.06 ft ³ per square foot of filter strip restored by topsoil replacement with decompaction (see Chapter 1.4)
	Conservation	0.15 ft ³ per square foot of conservation area on Hydrologic Soil Group A or B soil
	Area	0.08 ft ³ per square foot of conservation area on Hydrologic Soil Group C or D soil
		ust be calculated using the Runoff Reduction Spreadsheet and may not 2v calculated for the practice.

Design Criteria

Stormwater runoff must enter and continue through the vegetated practice as sheet flow. Sheet flow is unconfined runoff flowing in a thin, even layer or sheet over a broad surface area. Maintaining sheet flow over the contributing impervious area helps moderate the discharge rate and spread flow over the entire practice area. Re-establishing broad sheet flow once stormwater is collected and concentrated in a pipe or channel can be difficult. As runoff progresses through the practice, vegetative surface roughness reduces the velocity. This increases the hydraulic residence time which both promotes infiltration to reduce runoff volume and maximizes the filtration and sedimentation of suspended pollutants. Runoff must not concentrate in rills or gullies within the practice that not only bypass treatment mechanisms but export the eroded sediment. The following criteria promote sheet flow over healthy soil and vegetation to establish limited runoff volume reduction and pollutant removal capacity.

Contributing Impervious Drainage Area

Sheet flow is considered to have a limited travel length before shallow concentrated flow develops and therefore the contributing drainage area to a filter strip or conservation area is limited by the flow path length rather than the total acreage. The contributing length of pavement (L_{imp}) in the direction of flow shall be a maximum of 100 feet (see Figure 2.2.1).

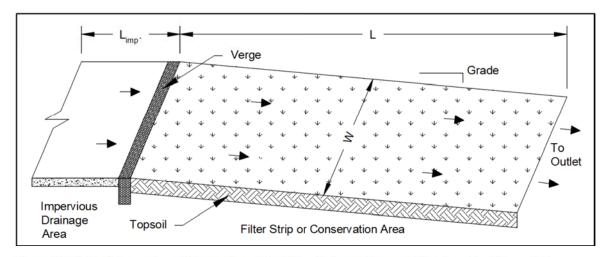


Figure 2.2.1 Basic Layout and Dimensions of a Filter Strip or Conservation Area (not to scale)

Grade and Dimensions

Figure 2.2.1 illustrates the basic layout and dimensions of a filter strip or a conservation area. The width (W) of all practices shall be equal to the width of the drainage area contributing sheet flow. The minimum length (L) in the direction of flow of a filter strip or conservation area is listed in Table 2.2.2 according to the design grade up to the maximum allowable grade of 15 percent.

Conservation areas are ungraded, following the natural topography. The design grade may be averaged over the area. Do not use highly irregular topography that

Table 2.2.2

Grade (%)	Filter Strip or Conservation Area Minimum Length (ft)
1.0 – 8.0	30
8.1 – 15.0	50

will concentrate flow as a conservation area. Runoff reduction credits may only be applied to locations within the conservation area that will receive flow.

Design a filter strip to have a uniform slope with the contours perpendicular or convex to the flow. Do not use concave (funneling) topography for filter strips.

Soil

A filter strip or conservation area is more than simply an area of vegetation. All practices must have healthy soil (i.e. uncompacted with sufficient tilth) to support a dense, healthy vegetative cover and the processes that treat and abstract runoff. Use the specifications for topsoil replacement given in Chapter 1.3 to establish a filter strip on compacted or graded soil. To receive the higher credit value for a filter strip on HSG C or D soil, use the specification for topsoil replacement with decompaction.

Transition from Pavement to Practice

To ensure runoff is spread thin and even across the filter strip or conservation area, install a level gravel verge as the transition from pavement to the filter strip. The gravel verge dissipates energy due to minor variations in elevation and pretreats runoff by collecting course sediment. A typical verge is illustrated in Figure 2.2.2. A broad concrete verge may be substituted where the edge of pavement is relatively level and even with the leading edge of the filter strip.

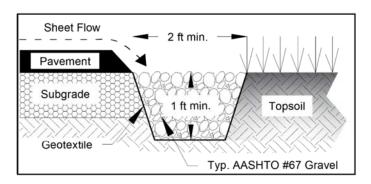


Figure 2.2.2 Typical Gravel Verge/Spreader (not to scale)

A gravel verge must adequately spread flow from curb cuts across the entire practice width. Space curb cuts a

maximum of 10 feet apart. A grass receiving area as specified in Chapter 2.1 may be used to spread flow prior to a conservation area or where a more natural transition is desired (see Figure 2.2.4).

Conveyance and Overflow

Filter strips and conservation areas are on-line practices. Limitations on the contributing impervious drainage area to apply sheet flow will minimize the need for large storm conveyance and overflow provisions. Soil reinforcement (grids or cells) may be used where necessary to stabilize a filter strip.

These practices do not provide significant flow attenuation for large storm events and may not meet local regulations for peak-discharge (flood) control. Filter strips and conservation areas along a perimeter that treat the full WQv must not divert or convey runoff in a manner that will erode, flood, or otherwise degrade adjoining properties.

Disconnected Residential Roof Downspouts

Locate a grass receiving area designed according to Chapter 2.1 prior to a filter strip or conservation area to establish sheet flow from disconnected downspouts. The filter strip or conservation area width may extend across multiple, evenly spaced disconnected down spouts (see Figure 2.2.3).

Signage

Signs marking the practice boundary ensure that current and future owners are aware of the designation and are recommended for all practices. Signs also notify landscaping contractors or other third parties who may not be aware the area serves as a stormwater management practice.

Grass Receiving Area

FIGURE 2.2.3 Illustration of Impervious Surface Disconnection Applied to a Series of Rear Residential Roofs and Yards to Establish Sheet Flow to a Filter Strip or Conservation Area (not to scale)

Establishing Filter Strip Vegetation

When soil restoration is complete, the filter strip shall be immediately seeded with a non-clumping, turf-forming perennial grass mix appropriate for the regional climate and local site conditions (for example, full sun, partial sun). Salt tolerant species may be appropriate where snow storage is expected. Compatible legumes (for example, white clover) may be included in a seed mix to provide nitrogen. Do not sod a filter strip unless the clay content of the included soil is verified to be less than 20 percent. In addition, seeding establishes deeper roots with a better species mix. Reference Chapter 7 for further specifications on permanent seeding.

Plan to seed the filter strip between March 15 through June 1 or Aug. 1 through Oct. 15 to assure proper germination and plant growth. Seeding between June 1 and Aug. 1 is possible but will require frequent watering and use of erosion control blankets to retain moisture. Where possible a filter strip should be constructed, protected with straw mulch, and given time for a dense grass cover to grow prior to receiving stormwater runoff from the contributing impervious area.

The filter strip is considered established when both (1) plants can no longer be pulled free from the soil by hand; and (2) 90 percent cover is achieved which may take multiple growing seasons.



Figure 2.2.4 Depiction of Impervious Surface Disconnection to Establish Sheet Flow to a Conservation Area

Establishing a Conservation Area

A conservation area has a natural cover of woods, brush, herbaceous vegetation, or a mixture of these cover types in good hydraulic condition. This requires greater than 75 percent ground cover of vegetation and/or forest litter (USDA, 1986) and should not be dominated by invasive species (for example, Bush honeysuckle, Autumn-olive, Multiflora rose, and Tree-of-Heaven) that may be subject to future removal. Prior to design, conduct a visual field assessment of the area to verify adequacy of vegetative cover and identify any needed remedies such as supplemental planting, gully repair, or debris removal.

A conservation area should not require grading aside from isolated, minor erosion repairs or incidental utility installation and must remain outside the limit of disturbance. Any work including invasive species removal or supplemental plantings must be done by hand or with lightweight, tracked vehicles to prevent compaction and damage to vegetation.

Prior to construction, a conservation area must be fully protected with perimeter silt fence or temporary diversions to prevent construction sediment from fouling the area. Install barricades (for example, chain link or snow fence) and signage to prevent accidental disturbance or clearing.

Install the gravel verge and place the conservation area into service only after the contributing drainage area has been fully stabilized.

Establishing A New Conservation Area

Establishing a new conservation area on graded or construction disturbed soil is a lengthy process and should only be applied where long-term work to establish vegetation can be performed by the owner. The conservation area must first be rapidly established with herbaceous vegetation to develop an unmaintained prairie or meadow. Tree whips or saplings may be intermixed to allow the area to forest over a considerable amount of time. Plans to re-establish a conservation area must include the following.

- A planting plan utilizing native trees, shrubs, and herbaceous vegetation must be prepared in advance by a
 qualified ecological professional. The plan should specify the desired mix of native species and their quantity or
 density to achieve 100 percent cover.
- Prior to planting or seeding, the soil must be restored using the specification for topsoil replacement with decompaction provided in Chapter 1.4.
- Planting and seeding should be performed by hand or with lightweight, tracked equipment to minimize
 subsequent soil compaction under the supervision of a qualified, professional landscaper. For maximum
 survivability, the planting should occur only from September through November and March through May of
 each year. Native grass and wildflower seeds must be sown at the proper time of year for each species.
- A two-year maintenance agreement and monitoring period is required to ensure plant survival after installation and re-populate as necessary.

Construction Considerations

The sequence and timing of the construction of a filter strip should be carefully planned. Establish a filter strip during optimal seeding time and well prior to receiving runoff from the contributing impervious surface to allow for vegetation to grow prior to use. Protect the constructed filter strip from sediment, erosion, and compaction throughout construction.

Do not use a filter strip or conservation area for construction staging or storing materials or equipment.

Maintenance Considerations

Both practices require a low level of maintenance. Basic lawn care activity such as mowing, weeding, and periodic reseeding should sustain dense turf on a filter strip. A conservation area, by definition, requires minimal maintenance activity, usually limited to invasive species management and gully repair.

Filter strips and conservation areas are not always identifiable as traditional stormwater management infrastructure. The designer and developer must determine how to best educate owners regarding the area's purpose and safeguard it. The following considerations assure long-term maintenance and operation of a filter strip or conservation area.

- Clearly identify the purpose and location of the practice(s) on the construction plans, stormwater pollution
 prevention plan (SWP3), long-term operation and management plan, and where applicable, plat maps and
 property surveys.
- Conservation areas should be protected by a legal instrument (for example, drainage easement, deed
 restriction, environmental covenant, etc.) to ensure that no future development, landcover change, or clearing
 occurs within the area, except as stipulated in the maintenance plan.
- Practices within residential developments may be placed under control of a homeowner's association (HOA).
- The local entities may require easements to access practices isolated along the perimeter or rear of a development for inspection or maintenance purposes.

References

American Society of Civil Engineers/Water Environment Federation. 2012. Design of Urban Stormwater Controls, WEF Manual of Practice No. 23, ASCE Manual and Report on Engineering Practice No. 87, Alexandria and Reston, VA.

Clar, M., B. Barfield and T. O'Conner. 2004. Stormwater Best Management Practice Design Guide Volume 2 Vegetative Biofilters. EPA/600/R-04/121A. National Risk Management Research Laboratory, USEPA. Cincinnati, OH.

Claytor, R. and T. Schueler. 2006. Design of Stormwater Filtering Systems. Prepared for Chesapeake Research Consortium. The Center for Watershed Protection. Silver Spring, MD.

District of Columbia. 2020. Stormwater Management Guidebook. 3.4 Impervious Surface Disconnection. Department of Energy and Environment. Washington D.C.

Leeds, R., L.C. Brown, M.R Sulc, and L. VanLieshout. 1994. Vegetative Filter Strips: Application, Installation and Maintenance. Publication AEX-467-94, Ohio State University Extension, Columbus, OH.

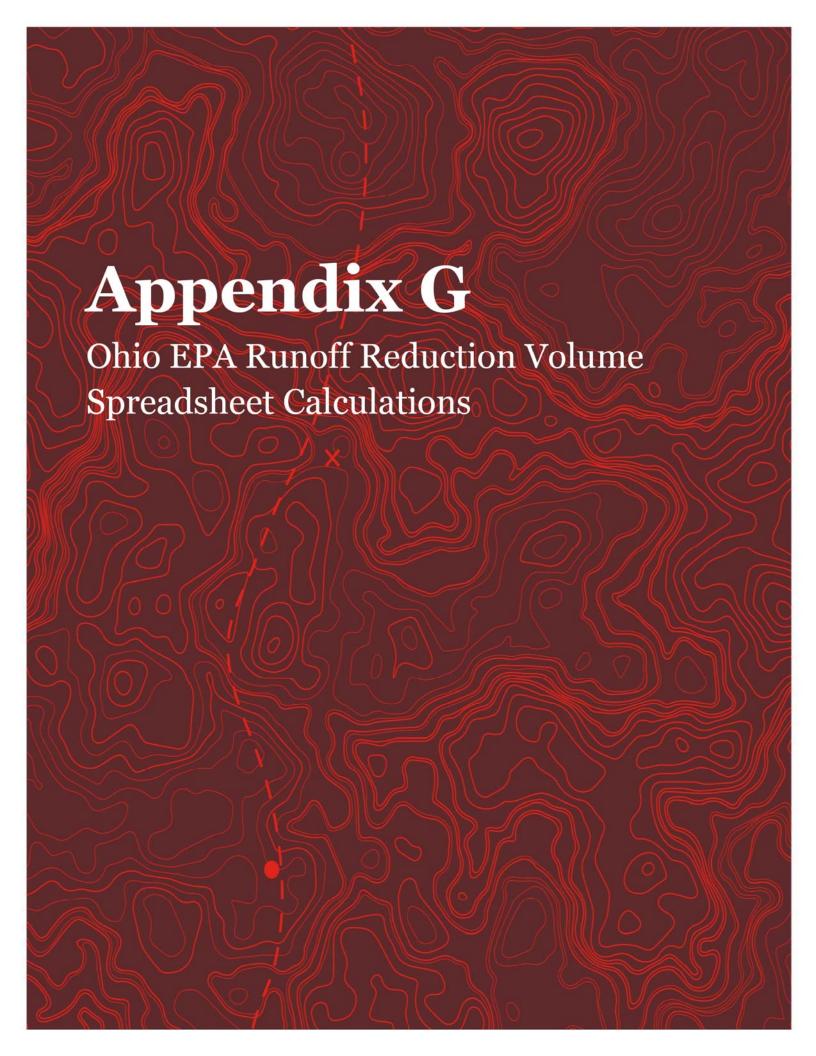
Natural Resource Conservation Service. 2008. Design Guide for Practice Standard – Vegetated Treatment Area (635). In PART 651 – Agricultural Waste Management Field Handbook, addendum OH651.1004.

Natural Resource Conservation Service. 2010. National Engineering Handbook, Part 630 Hydrology, Chapter 15 Time of Concentration. Washington D.C.

North Carolina. 2020. Stormwater Design Manual. C-9. Level Spreader – Filter Strip. Department of Environmental Quality. Raleigh, NC.

U.S. Department of Agricultural (USDA). 1986. Urban Hydrology for Small Watersheds. TR-55. Natural Resources Conservation Service, Conservation Engineering Division. Washington, D.C.

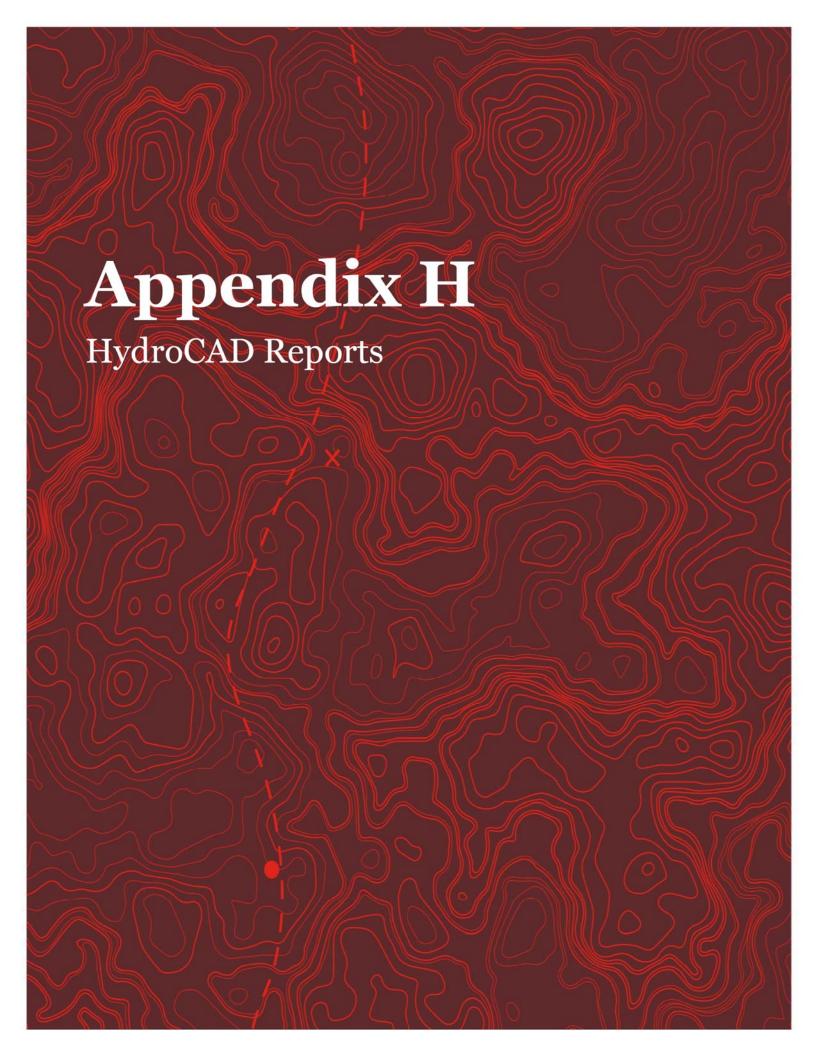
West Virginia. 2012. Sheet Flow to Vegetated Filter Strips and Conservation Areas. West Virginia Stormwater Management and Design Guidance Manual. Department of Environmental Protection. Charleston, WV.



Project Information & Summary v1.1 2018-10-31 **Project Name:** Grover Hill Wind Project Date: 8/5/2021 Grover Hill, Ohio, 45849 **Project Location:** Project Latitude: 41.025502° Longitude: -84.485428° **NPDES Permit Applicant:** Starwood Energy Group Submitted by: Grace Polverari, WPS **Phone Number:** 612-403-5460 Area A **Drainage Area ID: Access Road** Drainage Area, A_A = 0.54 acres 23,522 ft² Impervious Area, A_{Aimp} = 0.27 acres 11,761 ft² = Imperviousness Fraction, ia = 0.50 50 % Volumetric Runoff Coefficient, Rv = 0.50 Water Quality Volume, WQv₄ = 882 ft³ Runoff Reduction Volume, RRv_A = 882 ft³ Remaining Water Quality Volume, WQvAR = 0 ft³ Area B Drainage Area ID: **Turbine** 0.09 acres Drainage Area, A_B = 3,920 ft² Impervious Area, A_{Bimp} = 0.05 acres 2,178 ft² 56 % Imperviousness Fraction, i_R = 0.56 Volumetric Runoff Coefficient, Rv_B = 0.55 Water Quality Volume, WQv_B = 162 ft³ Runoff Reduction Volume, RRv_B = 162 ft³ Remaining Water Quality Volume, WQv_{BR} = 0 ft³ Area C **Drainage Area ID:** 0.00 acres 0 ft² Drainage Area, A_c = 0 ft² 0.00 acres Impervious Area, A_{Cimp} = Imperviousness Fraction, i_c = Volumetric Runoff Coefficient, Rvc = ft³ Water Quality Volume, WQvc = Runoff Reduction Volume, RRv_c = 0 ft³ Remaining Water Quality Volume, WQvcg = Area D Drainage Area ID: Drainage Area, A_D = 0.00 acres 0 ft² Impervious Area, A_{Dimp} = 0 ft² 0.00 acres Imperviousness Fraction, in = Volumetric Runoff Coefficient, Rv_D = Water Quality Volume, WQv_D = ft³ Runoff Reduction Volume, RRv_D = 0 ft³ Remaining Water Quality Volume, WQvDR = **Project Totals** 0.63 acres 27,443 ft² Drainage Area, A_{total} = Impervious Area, A_{imp} = 13,939 ft² 0.32 acres = Imperviousness Fraction, i = 0.51 51 % Volumetric Runoff Coefficient, Rv = 0.51 1044 ft³ Water Quality Volume, WQv = 1044 ft³ Runoff Reduction Volume, RRv = Remaining Water Quality Volume, WQv_R = 0 ft³

Area A Runoff Reduction Volume (RRv) Calculator	itor											
VI.1 2018-10-31 Drainage Area ID:	Acress Boad											
Drainage Area. A. =	0.54	acres	23.522 642	249								
Impervious Area, A _{dim} =	0.27	acres	11,761 ft²	, tez								
Pervious Area, Aspendous =	0.27	acres	11,761 ft²	445								
Imperviousness Fraction, i _A =	0.50		808	*								
Volumetric Runoff Coefficient, Rv _A =												
Water Quality Volume, WQv _A =	= 882 ft³	ft ³										
Apply Runoff Reduction Practices							T					
D. soft Dadeston	Impervious Cover in Contributing	I *	Volume Received	Constitution of Paralle	9	Volume Received from Upstream	Total Volume Received by	Disconnection	Storage Volume Provided by	Runo# Reduction	Remaining	A second
1. Green (Vesetated) Roof	(ft²)	(ft²)	(ft³)	Treat le legit de service de la centre de la	and a	(ft³)	П	(ft²)	(ft³)	(ft³)	(ft³)	DOWNSTEAM FACUCE
Green Roof		N/A	0	Subtract 100% of the provided	100%	N/A	0	N/A		0	0	N/A
2. Rainwater Harvesting				The second secon								
Rainwater Harvesting		N/A	0	Subtract a % of the provided design volume based on annual beneficial		0	0	N/A		0	0	
3. Impervious Surface Disconnection				-Xn								
Simple Disconnection to A/B Soils or Amended C/D Soils		N/A	0	Reduce volume conveyed to disconnection area by 0.04 cu. ft per sc, ft. of disconnection area.	N/A	0	0		N/A	0	0	
Simple Disconnection to C/D Soils		N/A	0	Reduce volume conveyed to disconnection area by 0.02 cu. It per sc. ft. of disconnection area.	N/A	0	0		N/A	0	0	
To Rain Garden(s)			0	Subtract 100% of the provided storage volume.	100%	0	0	N/A		0	0	
To Stormwater Planter(s)		N/A	0	Subtract 100% of the provided storage volume.	100%	0	0	N/A		0	0	
4. Sneetflow to Grass Filter Sheetflow to Grass Filter Strip with A/B Solls or Compost Amended C/D Soils			0	Reduce volume conveyed to grass filter strip by 0.06 cu. ft per sq. ft. of filter strip area.	N/A	0	0		N/A	0	0	
Sheetflow to Grass Filter Strip with C/D Soils	11761	11761	882	Reduce volume conveyed to grass filter strip 0.03 cu. ft per sq. ft. of filter strip area.	N/A	0	882	31988	N/A	882	0	Sheetflow to Conservation Area with C/D Solls
5. Grass Swale Grass Swale A/B Soils or Compost Amendec C/D Soils			0	Reduce volume conveyed through grass swale by 0.2 inches.	0.2"	0	0	N,A	N/A	0	0	
Grass Swale C/D Soils			0	Reduce volume conveyed through grass swale by 0.1 inches.	0.1"	0	0	N/A	N/A	0	0	
6. Bioretention Bioretention			0	Subtract 100% of the provided storage volume.	100%	0	0	N/A		0	0	
7. Infiltration Practice			0	Subtract 100% of the provided	100%	0	0	N/A	Ī	0	0	
8. Permeable Pavement				storage volume.								
Permeable Pavement		N/A	0	Subtract 100% of the provided storage volume.	100%	N/A	0	N/A		0	0	
9. Sheetflow to Conservation Area												
Sheetflow to Conservation Area with A/B Solls			0	Reduce volume conveyed to conservation area by 0.09 cu. ft per sq. ft. of conservation area.	N/A	0	0		N/A	0	0	N/A
Sheetflow to Conservation Area with C/D Soils			0	Reduce volume conveyed to conservation area by 0.04 cu. ft per sq. ft. of conservation area.	N/A	0	0		N/A	0	0	N/A
Totals	11761	11761						31588		882		
							W	iter Quality Volum	Water Quality Volume Remaining (ft³):	0		

Area B Runoff Reduction Volume (RRv) Calculator	ator											
vi.1 2018-10-31	ш											
Drainage Area ID:	Turbine	90250	3 930 642	7"								
Impervious Area, Asime	0.05	Sacres	2,178	45								
Pervious Area, Agentous	0.04	0.04 acres	1,742 ft²	145								
Imperviousness Fraction, i _B =	= 0.56	UN.	26%	×								
Volumetric Runoff Coefficient, Rv _B =		IA.			1							
Water Quality Volume, WQv _B =	= 162 ft³	2 Hz										
Apply Runoff Reduction Practices												
Runoff Reduction Practice	Impervious Cover in Contributing Drainage Area	Contributing Drainage Area	Volume Received by Practice	Description of Ceelit	% Stages	Volume Received from Upstream Practices	Total Volume Received by	Disconnection Area of Practice	Storage Volume Provided by	Runoff Reduction Volume	Remaining	Downstream Practice
band (basesant)) anash t	(ft²)	(ft²)	(ft³)			(ft³)	(ft³)	(ft²)	(ft³)	(ft³)	(ft³)	
L. Oreen (vegetared) root Green Roof		N/A	0	Subtract 100% of the provided	100%	N/A	0	N/A		0	0	N/A
2. Rainwater Harvesting				Storage volume.								
Rainwater Harvesting		N/A	0	Subtract a % of the provided design volume based on annual beneficial use.		0	0	N,A		0	0	
3. Impervious Surface Disconnection												
Simple Disconnection to A/B Soils or Amended C/D Soils		N/A	0	Reduce volume conveyed to disconnection area by 0.04 cu. It per sc, ft. of disconnection area.	N/A	0	0		N/A	0	0	
Simple Disconnection to C/D Soils		N/A	0	Reduce volume conveyed to disconnection area by 0.02 cu. ft per sc, ft. of disconnection area.	N/A	0	0		N/A	0	0	
To Rain Garden(s)			0	Subtract 100% of the provided storage volume.	100%	0	0	N/A		0	0	
To Stormwater Planter(s)		N/A	0	Subtract 100% of the provided storage volume.	100%	0	0	N/A		0	0	
4. Sheettlow to Grass Filter Sheetflow to Grass Filter Strip with A/B Soils or Compost Amended C/D Soils			0	Reduce volume conveyed to grass filter strip by 0.06 cu. ft per sq. ft. of filter strip area.	N/A	0	0		N/A	0	0	
Sheetlow to Grass Filter Strip with C/D Soils	2178	1743	162	Reduce volume conveyed to grass filter strip 0.03 cu. ft per sq. ft. of filter strip area.	N/A	0	162	5592	N/A	162	0	Sheetflow to Coniervation Area with C/D Soils
5. Grass Swale				Reduce volume conveyed through							ı	
Grass Swale A/B Soils or Compost Amendec C/D Soils			0	grass swale by 0.2 inches.	0.2"	0	0	N/A	N/A	0	0	
Grass Swale C/D Soils			0	Reduce volume conveyed through grass swale by 0.1 inches.	0.1"	0	0	N,A	N/A	0	0	
6. Bioretention Bioretention			0	Subtract 100% of the provided	100%	0	0	N/A		0	0	
7, Infiltration Practice				storage volume.							l	
Infiltration Practice			0	Subtract 100% of the provided storage volume.	100%	0	0	N/A		0	0	
8. Permeable Pavement Permeable Pavement		0/N	o	Subtract 100% of the provided	100%	N/A	c	W/A		o	o	
O Chastilan to Concernation Area				storage volume.								
Sheetflow to Conservation Area with A/B Solis			0	Reduce volume conveyed to conservation area by 0.09 cu. ft per sq. ft. of conservation area.	N/A	0	0		N/A	0	0	N/A
Sheetflow to Conservation Area with C/D Soils			0	Reduce volume conveyed to conservation area by 0.04 cu. ft per sq. ft. of conservation area.	N/A	0	0		N/A	0	0	N/A
Totak	2178	1743						5592		162		
							-38	Water Quality Volume Remaining (ft²):	e Remaining (tt²):	0		



Existing



Sub+O&M









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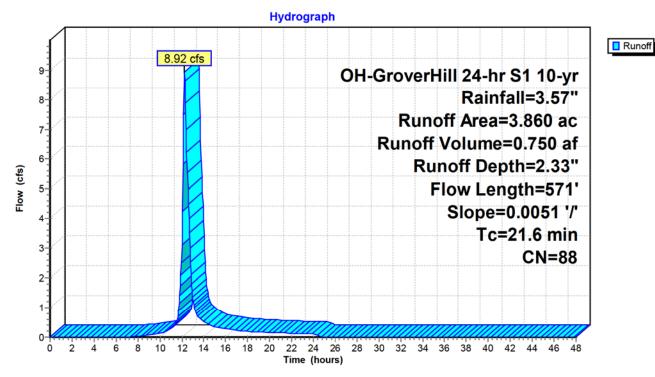
Summary for Subcatchment 1S: Sub+O&M

Runoff = 8.92 cfs @ 12.25 hrs, Volume= 0.750 af, Depth= 2.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs OH-GroverHill 24-hr S1 10-yr Rainfall=3.57"

_	Area	(ac)	CN	Desc	ription			
	2.	960	89	Row	crops, stra	aight row, (Good, HSG D	
	0.	250	77	Woo	ds, Good,	HSG D		
	0.	650	86	Farm	isteads, H	SG D		
	3.	860	88	Weig	hted Aver	age		
	3.860 100.00% Pervious Area					ous Area		
	Тс	Lengtl	h	Slope	Velocity	Capacity	Description	
_	(min)	(feet	:)	(ft/ft)	(ft/sec)	(cfs)		
	21.6	57	1 (0051	0 44		Lag/CN Method.	

Subcatchment 1S: Sub+O&M



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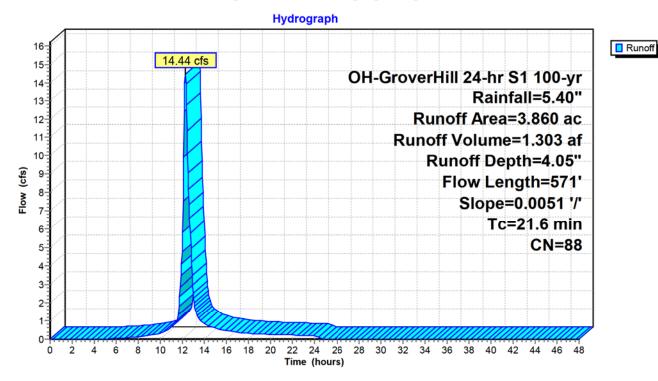
Summary for Subcatchment 1S: Sub+O&M

Runoff = 14.44 cfs @ 12.25 hrs, Volume= 1.303 af, Depth= 4.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs OH-GroverHill 24-hr S1 100-yr Rainfall=5.40"

Area	(ac) (ON Des	cription			
2.	.960	89 Rov	v crops, str	aight row, (Good, HSG D	
0.	.250	77 Wo	ods, Good,	HSG D		
0.	.650	86 Far	msteads, H	ISG D		
3.	.860	88 We	ghted Ave	rage		
3.860			.00% Pervi	ous Area		
Тс	Length		•	Capacity	Description	
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
21.6	571	0.0051	0 44		Lag/CN Method.	

Subcatchment 1S: Sub+O&M



Proposed



Sub+O&M









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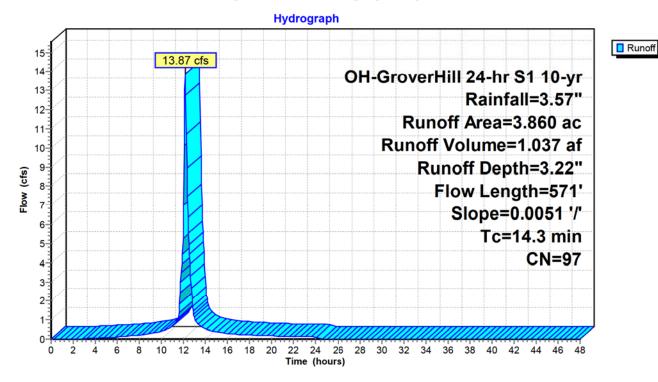
Summary for Subcatchment 2S: Sub+O&M

Runoff = 13.87 cfs @ 12.15 hrs, Volume= 1.037 af, Depth= 3.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs OH-GroverHill 24-hr S1 10-yr Rainfall=3.57"

_	Area	(ac) C	N	Desc	ription			
	1.	930	96	Grav	el surface	, HSG D		
	1.	930	98	Unco	nnected p	avement,	HSG D	
	3.	860 9	97	Weig	hted Aver	age		
	1.	930		50.00)% Pervio	us Area		
	1.	930		50.00)% Imperv	ious Area		
	1.930 100.00% Unconnected			nnected				
	Тс	Length		ope	Velocity	Capacity	Description	
_	(min)	(feet)	(f	ft/ft)	(ft/sec)	(cfs)		
	14.3	571	0.0	051	0.67		Lag/CN Method,	

Subcatchment 2S: Sub+O&M



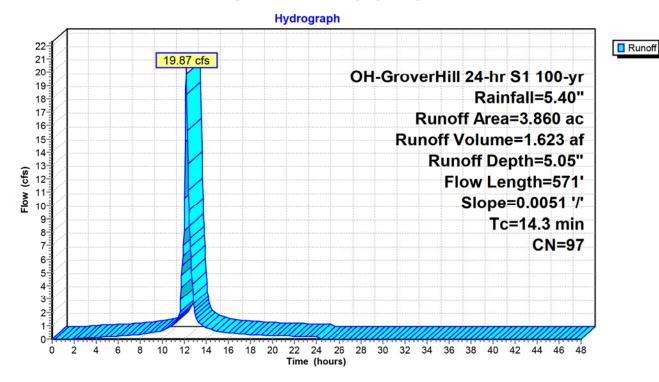
Summary for Subcatchment 2S: Sub+O&M

Runoff = 19.87 cfs @ 12.15 hrs, Volume= 1.623 af, Depth= 5.05"

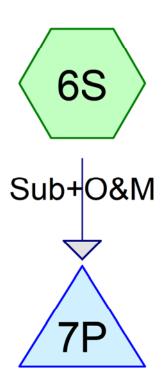
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs OH-GroverHill 24-hr S1 100-yr Rainfall=5.40"

_	Area	(ac) C	N E	Desc	ription			
	1.	930 9	96 (Grav	el surface	, HSG D		
	1.	930 9	98 L	Jnco	nnected p	avement,	HSG D	
	3.	860 9	97 V	Neig	hted Aver	age		
	1.	930	5	50.00)% Pervio	us Area		
	1.	930	5	50.00)% Imperv	ious Area		
	1.930 100.00% Unconnected			nnected				
	Тс	Length	Slo	pe	Velocity	Capacity	Description	
_	(min)	(feet)	(ft	t/ft)	(ft/sec)	(cfs)		
	14.3	571	0.00)51	0.67		Lag/CN Method,	

Subcatchment 2S: Sub+O&M



Proposed with Basin



Sub+O&M Basin









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Area Listing (selected nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
1.930	96	Gravel surface, HSG D (6S)
1.930	98	Unconnected pavement, HSG D (6S)
3.860	97	TOTAL AREA

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Soil Listing (selected nodes)

Area	Soil	Subcatchment
(acres)	Group	Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
3.860	HSG D	6S
0.000	Other	
3.860		TOTAL AREA

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Ground Covers (selected nodes)

HSG-A	HSG-B	HSG-C	HSG-D	Other	Total	Ground	Subcatchment
(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	Cover	Numbers
0.000	0.000	0.000	1.930	0.000	1.930	Gravel surface	6S
0.000	0.000	0.000	1.930	0.000	1.930	Unconnected pavement	6S
0.000	0.000	0.000	3.860	0.000	3.860	TOTAL AREA	

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Pipe Listing (selected nodes)

Line#	Node	In-Invert	Out-Invert	Length	Slope	n	Diam/Width	Height	Inside-Fill
	Number	(feet)	(feet)	(feet)	(ft/ft)		(inches)	(inches)	(inches)
1	7P	725.00	724.00	50.0	0.0200	0.025	12.0	0.0	0.0

OH-GroverHill 24-hr S1 10-yr Rainfall=3.57"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 6S: Sub+O&M Runoff Area=3.860 ac 50.00% Impervious Runoff Depth=3.22"

Flow Length=571' Slope=0.0051 '/' Tc=14.3 min CN=97 Runoff=13.87 cfs 1.037 af

Pond 7P: Sub+O&M Basin Peak Elev=725.74' Storage=0.748 af Inflow=13.87 cfs 1.037 af

Primary=1.43 cfs 0.698 af Secondary=6.46 cfs 0.356 af Outflow=7.89 cfs 1.054 af

Total Runoff Area = 3.860 ac Runoff Volume = 1.037 af Average Runoff Depth = 3.22" 50.00% Pervious = 1.930 ac 50.00% Impervious = 1.930 ac

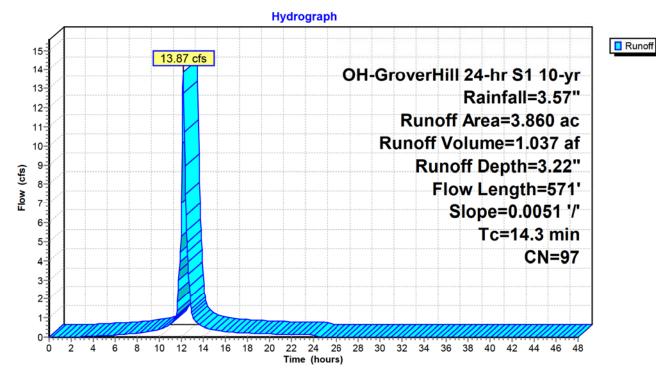
Summary for Subcatchment 6S: Sub+O&M

Runoff = 13.87 cfs @ 12.15 hrs, Volume= 1.037 af, Depth= 3.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs OH-GroverHill 24-hr S1 10-yr Rainfall=3.57"

_	Area	(ac) (CN	Desc	ription			
	1.	930	96	Grav	el surface	, HSG D		
	1.	930	98	Unco	nnected p	avement,	HSG D	
	3.	860	97	Weig	hted Aver	age		
	1.	930		50.00	0% Pervio	us Area		
	1.	930		50.00	0% Imperv	ious Area		
	1.930			100.0	00% Unco	nnected		
	_						_	
	Тс	Length		lope	Velocity	Capacity	Description	
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
	14.3	571	0.0	051	0.67		Lag/CN Method,	

Subcatchment 6S: Sub+O&M



Volume

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Summary for Pond 7P: Sub+O&M Basin

Inflow Area = 3.860 ac, 50.00% Impervious, Inflow Depth = 3.22" for 10-yr event

Inflow = 13.87 cfs @ 12.15 hrs, Volume= 1.037 af

Outflow = 7.89 cfs @ 12.34 hrs, Volume= 1.054 af, Atten= 43%, Lag= 11.6 min

Primary = 1.43 cfs @ 12.34 hrs, Volume= 0.698 af Secondary = 6.46 cfs @ 12.34 hrs, Volume= 0.356 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs

Starting Elev= 725.10' Surf.Area= 0.579 ac Storage= 0.342 af

Peak Elev= 725.74' @ 12.34 hrs Surf.Area= 0.700 ac Storage= 0.748 af (0.407 af above start)

Plug-Flow detention time= 408.4 min calculated for 0.712 af (69% of inflow)

Invert Avail.Storage Storage Description

Center-of-Mass det. time= 196.5 min (964.8 - 768.3)

VOIGITIO	IIIVOIT /	van.otorag	0.01	rage besorption
#1	724.00'	0.940 a	f Cus	stom Stage Data (Prismatic) Listed below (Recalc)
Elevatio			Store -feet)	Cum.Store (acre-feet)
724.0		,	0.000	0.000
725.0	0.560		0.285	0.285
726.0	0.750		0.655	0.940
Device	Routing			Devices
#1	Primary			Round CMP_Round 12"
#2	·		Inlet / O n= 0.029 20.0' lor Head (fe	D' CMP, projecting, no headwall, Ke= 0.900 Dutlet Invert= 725.00' / 724.00' S= 0.0200 '/' Cc= 0.900 De Corrugated metal, Flow Area= 0.79 sf De Corrugated Metal, Flow

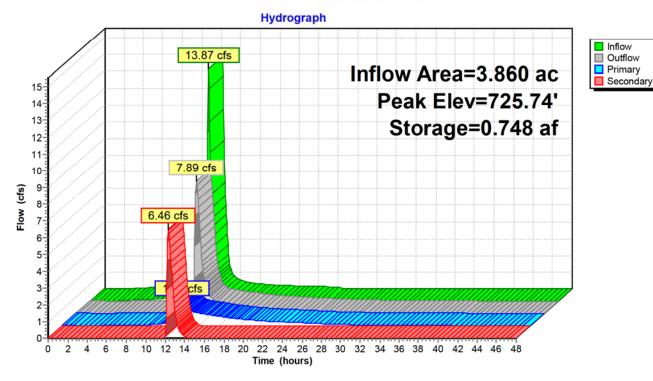
Primary OutFlow Max=1.43 cfs @ 12.34 hrs HW=725.74' (Free Discharge)
1=CMP_Round 12" (Inlet Controls 1.43 cfs @ 2.30 fps)

Secondary OutFlow Max=6.44 cfs @ 12.34 hrs HW=725.74' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 6.44 cfs @ 1.37 fps)

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Pond 7P: Sub+O&M Basin



OH-GroverHill 24-hr S1 100-yr Rainfall=5.40"

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Time span=0.00-48.00 hrs, dt=0.05 hrs, 961 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 6S: Sub+O&M Runoff Area=3.860 ac 50.00% Impervious Runoff Depth=5.05" Flow Length=571' Slope=0.0051 '/' Tc=14.3 min CN=97 Runoff=19.87 cfs 1.623 af

Pond 7P: Sub+O&M Basin

Peak Elev=725.86' Storage=0.838 af Inflow=19.87 cfs 1.623 af

Primary=1.79 cfs 0.903 af Secondary=12.58 cfs 0.735 af Outflow=14.37 cfs 1.638 af

Total Runoff Area = 3.860 ac Runoff Volume = 1.623 af Average Runoff Depth = 5.05" 50.00% Pervious = 1.930 ac 50.00% Impervious = 1.930 ac

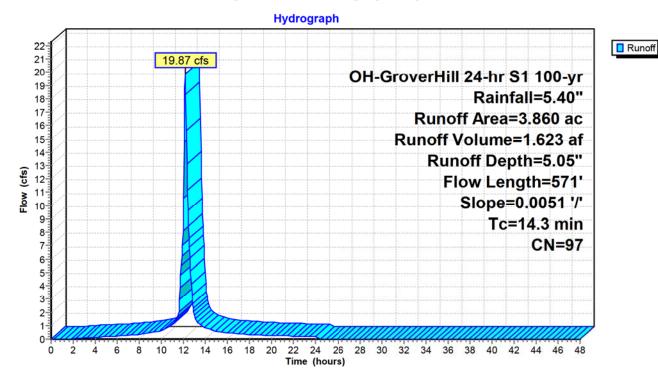
Summary for Subcatchment 6S: Sub+O&M

Runoff = 19.87 cfs @ 12.15 hrs, Volume= 1.623 af, Depth= 5.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs OH-GroverHill 24-hr S1 100-yr Rainfall=5.40"

_	Area	(ac) C	N	Desc	ription			
	1.	930	96	Grav	el surface	, HSG D		
	1.	930	98	Unco	nnected p	avement,	HSG D	
	3.	860 9	97	Weig	hted Aver	age		
	1.	930		50.00)% Pervio	us Area		
	1.	930		50.00)% Imperv	ious Area		
	1.930 100.00% Unconnected			nnected				
	Тс	Length		ope	Velocity	Capacity	Description	
_	(min)	(feet)	(f	ft/ft)	(ft/sec)	(cfs)		
	14.3	571	0.0	051	0.67		Lag/CN Method,	

Subcatchment 6S: Sub+O&M



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Summary for Pond 7P: Sub+O&M Basin

Inflow Area = 3.860 ac, 50.00% Impervious, Inflow Depth = 5.05" for 100-yr event

Inflow = 19.87 cfs @ 12.15 hrs, Volume= 1.623 af

Outflow = 14.37 cfs @ 12.28 hrs, Volume= 1.638 af, Atten= 28%, Lag= 7.9 min

Primary = 1.79 cfs @ 12.28 hrs, Volume= 0.903 af Secondary = 12.58 cfs @ 12.28 hrs, Volume= 0.735 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.05 hrs

Starting Elev= 725.10' Surf.Area= 0.579 ac Storage= 0.342 af

Peak Elev= 725.86' @ 12.28 hrs Surf.Area= 0.724 ac Storage= 0.838 af (0.496 af above start)

Plug-Flow detention time= 297.9 min calculated for 1.296 af (80% of inflow)

Center-of-Mass det. time= 156.6 min (916.9 - 760.3)

Volume	Invert A	vail.Storag	ge Stoi	age Description	
#1	724.00'	0.940	af Cus	tom Stage Data (Prismatic) Listed be	elow (Recalc)
Elevatio (fee	t) (acres)	(acre	:Store e-feet) 0.000	Cum.Store (acre-feet) 0.000	
725.0			0.285	0.285	
726.0	0 0.750		0.655	0.940	
Device	Routing	Invert	Outlet D	evices	
#1	Primary	725.00'	12.0" R	ound CMP_Round 12"	
			Inlet / O	CMP, projecting, no headwall, Ke- utlet Invert= 725.00' / 724.00' S= 0.0 Corrugated metal, Flow Area= 0.7	0200 '/' Cc= 0.900
#2	Secondary		20.0' long x 0.5' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00		

Coef. (English) 2.80 2.92 3.08 3.30 3.32

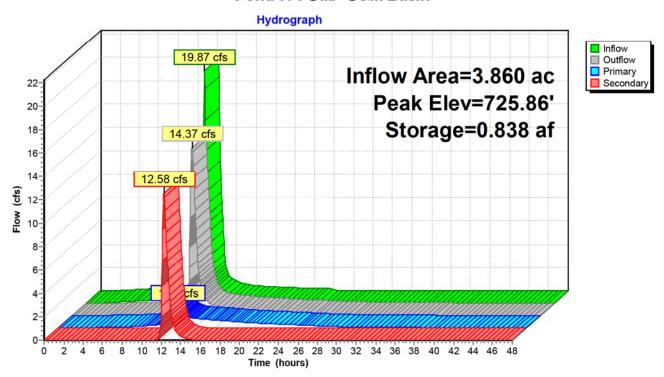
Primary OutFlow Max=1.79 cfs @ 12.28 hrs HW=725.86' (Free Discharge)
—1=CMP_Round 12" (Inlet Controls 1.79 cfs @ 2.49 fps)

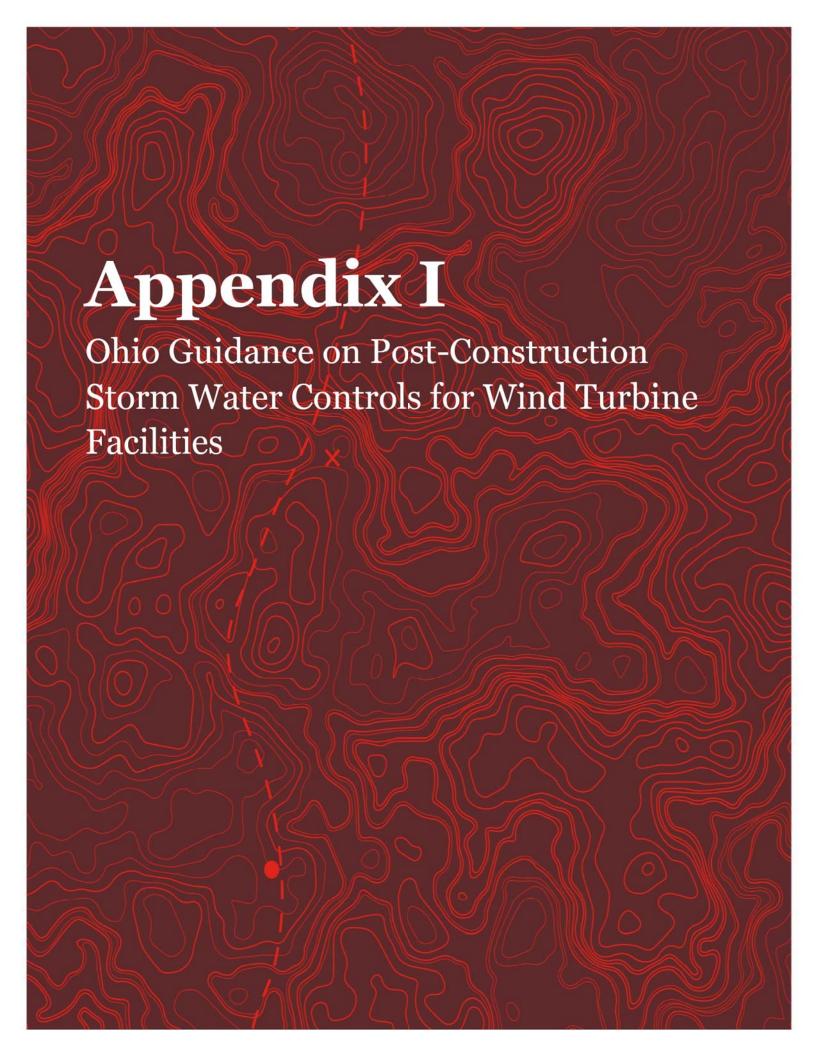
Secondary OutFlow Max=12.50 cfs @ 12.28 hrs HW=725.86' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 12.50 cfs @ 1.74 fps)

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Pond 7P: Sub+O&M Basin







Guidance on Post-Construction Storm Water Controls for Wind Turbine Facilities

Background

The earth disturbance associated with new wind turbine facilities can be isolated and include primarily the construction of access roads, pads and the relatively small footprint for each turbine structure. As such, they may seem to have limited impacts to water quality; however the size of disturbance (larger than one acre) and total cumulative impervious surfaces (gravel areas are considered impervious) does require the installation of post-construction storm water management requirements under OHC00005 (Part III.G.2.e, pp. 19-27).

Post-Construction Storm Water Management Options

Ohio EPA recognizes that wind turbine facilities are often dispersed geographically and constructed in rural farm fields. Ohio EPA also recognizes that standard post-construction water quality best management practices (BMPs) listed in tables 4a and 4b of OHC000005 may be challenging or there may be better-fit or more



beneficial alternatives for these sites. Therefore, applicants may consider using a combination of acceptable practices such as runoff reduction practices (for example, grass swales or grass filter strips with accepted criteria) or approvable alternative agricultural conservation practices (for example, stream buffers, stream restoration, wetlands, etc.) that can be applied in or alongside the permitted area, on the same farm parcel or offsite in the same HUC-12 watershed.

Any alternative practice must be pre-approved by Ohio EPA and in some cases, significant time may be needed to plan and negotiate with landowners prior to finalizing this aspect. For this reason, applicants are encouraged to discuss their considerations with Ohio EPA early in the planning process.

In any case, the Storm Water Pollution Prevention Plan (SWP3) will still need to address all needed erosion and sediment controls that are needed during construction and planned in order to leave the areas stable after construction. Also, whatever post-construction practices are approved, long-term operation and maintenance plans must be developed and implemented by the operator for the BMPs selected.

Contact

For more information, contact Michael Joseph at michael.joseph@epa.ohio.gov or (614) 644-2001.

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in

Case No(s). 20-0417-EL-BGN

Summary: Response - Supplemental Response to Third Data Request from Staff of the Ohio Power Siting Board electronically filed by Christine M.T. Pirik on behalf of Grover Hill Wind, LLC