

APPENDIX A
SEPTEMBER 25, 2008 REPORT



Devine Tarbell & Associates, Inc.
Consulting Engineers, Scientists, & Regulatory Specialists

An Employee-Owned Company

September 25, 2008

Mr. Raymond L. McCoy
Mail Code ON02MO
Oconee Nuclear Station
7800 Rochester Highway
Seneca, SC 29672

**Subject: Oconee Nuclear Station
Model Simulation Results for Jocassee Dam Failure Report**

Dear Mr. McCoy:

The Keowee Hydroelectric Development is owned and operated by Duke Energy Carolinas, LLC (Duke Energy) and is part of the Keowee-Toxaway Project licensed by the Federal Energy Regulatory Commission as Project No. 2503-SC. The Keowee-Toxaway Project (Project) includes the Jocassee Pumped Storage Development and the Keowee Development. The FERC regulates the Project and their role includes regulatory oversight of all water retaining structures at both developments. The Oconee Nuclear Station (ONS) is located on Lake Keowee adjacent to the Keowee Dam and tailrace. Based on a request for additional information concerning flooding impacts at ONS from a hypothetical failure of the Jocassee Dam, Devine Tarbell & Associates, Inc. (DTA) was commissioned by Duke Energy to perform Jocassee Dam failure simulations using the National Weather Service DAMBRK model and input file developed for the FERC required Emergency Action Plan (EAP). The model was previously developed by Duke Energy and results were submitted to FERC in 1992. DTA was selected to perform this work based on our experience with the DAMBRK model and development of the 1992 Jocassee EAP dam failure scenarios.

1.0 Purpose

Duke Energy requested that DTA perform a series of additional DAMBRK model simulations using the hydraulic model input file described in the 1992 report titled "Final Summary of Analyses to Determine the Extent of Inundation Due to Catastrophic Dam Failure for Jocassee Pumped Storage Project". The additional scenarios included using starting reservoir elevations for Lake Jocassee ranging from 1080 to 1108 feet mean sea level (ft msl) and Lake Keowee reservoir elevations of 796, 797, and 798 ft msl. In addition, two scenarios were modeled assuming a bottom of breach elevation at Jocassee Dam of 919 ft msl as was used in a 1983 analysis for the design of the SSF wall at Oconee. This input parameter differed from the elevation assumed for the FERC EAP analyses, which used a bottom of breach elevation of 800 ft msl, the full reservoir elevation at Lake Keowee.

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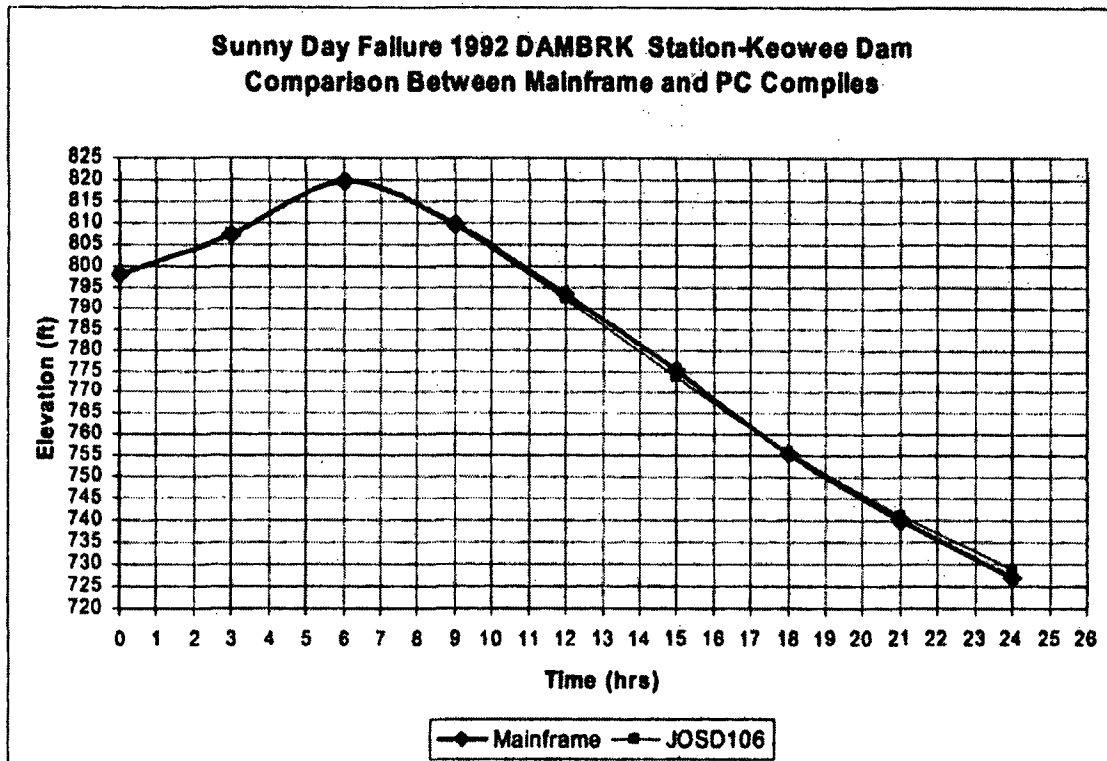
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2.0 Scope/Models

The hydraulic modeling performed in 1992 to develop FERC required EAP inundation mapping was simulated using a "Mainframe" compiled version of the DAMBRK computer program developed by D. L. Fread. Details of the 1992 model input development are outlined in the referenced report and are not repeated in this summary report.

The DAMBRK model used to perform this review was compiled for usage on a PC by means of the June 20, 1988, Revision 4, August 1991 FORTRAN source code. An input file was generated from the output file included in Appendix B of the 1992 report and simulation results were verified by reviewing the output elevations at selected cross sections. A sample of the output at the cross section just upstream of Keowee Dam is shown in the figure below. Based on this verification, the input file and PC compiled program were assumed to provide very similar results in relation to the original 1992 work, and were judged to be appropriate for reviewing the new scenarios. The PC model input includes an adjustment to the flood plain (FPC) storage curve compared to the 1992 run. The FPC curve was extended from elevation 820 ft msl to 830 ft msl by interpolation of the storage curve (Cards 39 - PSA and 40 - PEL parameters).



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Additionally, DTA truncated the number of dams included in the 1992 EAP file from seven dams to three dams. This was done to remove all dams downstream of Lake Hartwell, which is the reservoir downstream of Keowee Dam. The remaining four reservoirs do not influence the headwater or tailwater elevations in the subject area of review near ONS. The deletion facilitates run times and review of output, and generally creates a more mathematically stable model for making changes to the input parameters.

All input files assumed a failure of the Jocassee Dam with no precipitation (Sunny Day Failure). The failure was simulated in the main rock-filled dam by piping starting at elevation 940 ft msl except for two scenarios that include a modified bottom of breach elevation at 919 ft msl. For those two scenarios, a piping failure was assumed to occur at elevation 1000.5 ft msl.

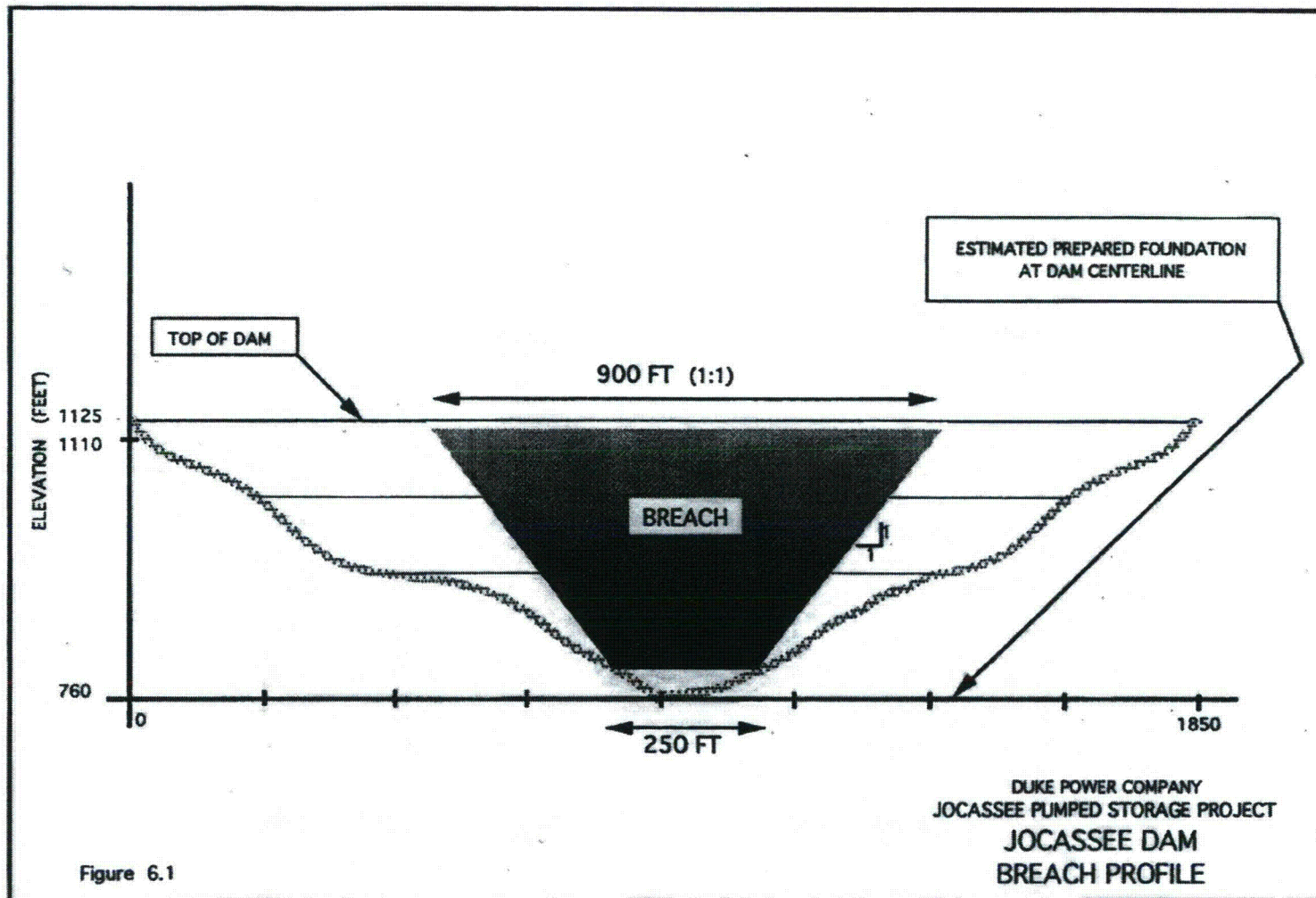
Table 1 Definition of Modeled Scenarios

Model Name	Analysis File Name	FPC Little River Arm Storage Area	Jocassee Dam Failure Breach Bottom Elev.	Pond Levels at Lake Keowee/ Lake Jocassee (ft msl)
Original '1992'	JOCEAP20	Original	1992 shape	798/1108
Restored '1992'	JOSD106	Modified	1992 shape	798/1108
'1992' current levels	JOSD16	Modified	1992 shape	797/1085
Sensitivity Case 2	JOSD21	Modified	1992 shape	797/1090
Sensitivity Case 5	JOSD09	Modified	1992 shape	796/1080
Sensitivity Case 6	JOSD10	Modified	1992 shape	796/1085
Sensitivity Case 1	JOSD15	Modified	1992 shape	796/1090
Sensitivity Case 4	JOSD23	Modified	1983 shape 919 ft msl	798/1108
Sensitivity Case 3	JOSD22	Modified	1983 shape 919 ft msl	797/1090

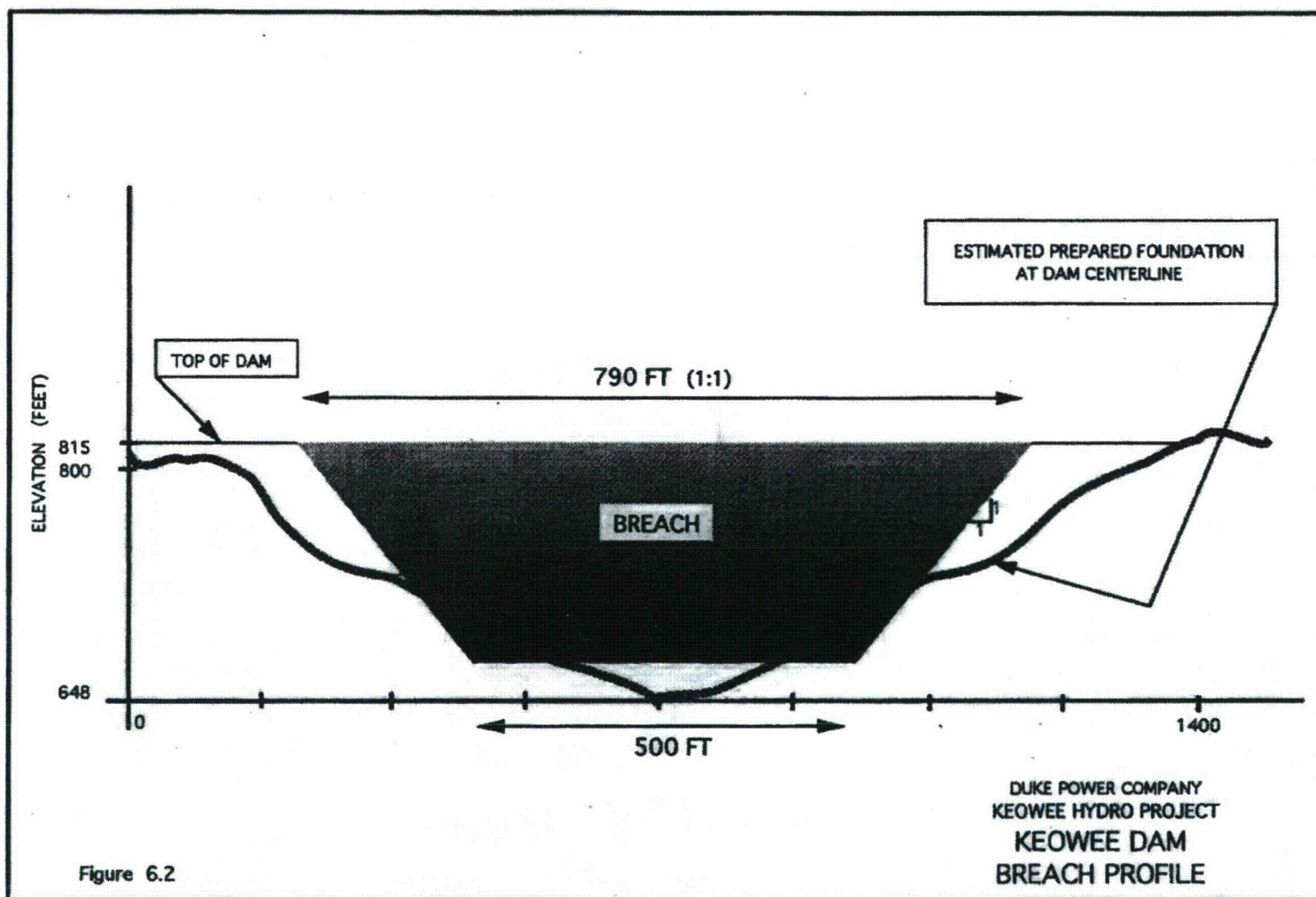
Dam failure parameters used in the EAP analysis were based on FERC guidelines with consideration for generating inundation maps for emergency management planning purposes. The probability of dam failure sizes was considered for the 1992 work. The DAMBRK model requires a bottom of breach elevation, side slope, and time to complete failure parameters. The following two figures from the 1992 report show the extent of the final simulated breach shape for all runs except JOSD22 and JOSD23, which differ in final breach bottom elevation and point of breach initiation. A failure of the Keowee Dam was simulated after 0.5 ft of overtopping. The failure time for Jocassee Dam was simulated at 4 hours for the scenarios in the table above. Keowee Dam was assumed to reach full breach in 2 hours. The difference was due to the type of construction and size of the dams.

Starting elevations for all reservoirs in the 1992 EAP model were assumed to be an average elevation based on historic operation (Lake Jocassee 1108 ft msl, Lake Keowee 798 ft msl, and Lake Hartwell 658 ft msl). Changes in starting elevations requested for simulation by Duke Energy are shown in the table above for each scenario. No changes in Lake Hartwell starting elevations were simulated. No additional changes to the 1992 model inputs were made.

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3.0 Results of Simulations

The focus of the hydraulic model simulations was on the dam failure water elevations just upstream of Keowee Dam and in the tailrace area just downstream of the dam. The area downstream is of significant interest due to possible inundation of ONS facilities due to dam failure flooding. The results are presented in the following tables and graphs based on the scenario file name. Legends included on each chart refer to the different starting elevations for Lake Jocassee and Lake Keowee requested by Duke Energy. It should be noted that for all scenarios assuming a base of breach elevation of 800 ft msl at Jocassee Dam, the dam failure flood elevation below the dam exceeded 801 ft msl. For the two scenarios that set the bottom of breach elevation at Jocassee Dam to 919 ft msl (1983 assumption), flooding downstream of the dam did not exceed elevation 796 ft msl. It should also be noted that for all scenarios, Lake Keowee exceeded the top of dam elevation 815 ft msl. Failure of the Keowee Dam was assumed for all scenarios due to the overtopping value of 815.5 ft msl being exceeded.

Based on the modeling results provided as attachments 1 through 8, DTA prepared summary Table 2. The key results requested by Duke Energy are:

- The maximum dam failure flood elevation downstream of the dam,
- The hour after simulation started when:
 - the ONS 796 ft msl yard elevation would be inundated,
 - elevation 801 ft msl would be exceeded,
 - water elevations would recede to 801 ft msl, and
 - water elevations would recede to 796 ft msl.

Dam failure at Jocassee was initiated at the start of simulation and a complete breach was assumed to form in 4 hours.

Breach times and elevations are approximations limited by the accuracy of the input information and should not be considered absolute numbers due to a variety of unknowns such as breach formation size and time to failure, estimated cross section data representing Lake Keowee and Hartwell, assumed gate operations at Lake Keowee and Lake Hartwell, flood channel roughness coefficients, and the complex geometry of the Lake Keowee reservoir including the connecting canal and multiple dams.

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Table 2 Summary of DAMBRK Scenarios

Selected DPC Model Name	Analysis Model Name	FPC Channel Storage Area	Overtop Yard Elev 796 ft msl (hrs)	Overtop SSF Wall 801 ft msl (hrs)	Recede to SSF Wall 801 ft msl (hrs)	Recede to Yard Elev 796 ft msl (hrs)	Max Tailrace Water Height (ft msl)	Jocassee Dam Failure Trapezoid	Software Tool	Pond Levels Lake Keowee/ Lake Jocassee
Original '1992'	JOCEAP20	Original	n/a	n/a	n/a	n/a	808.5	1992 shape	DAMBRK	798/1108
Restored '1992'	JOSD106	Modified	6.0	6.0	8.5	9.5	807.2	1992 shape	DAMBRK	798/1108
'1992' current levels	JOSD16	Modified	6	6.5	8	9	803	1992 shape	DAMBRK	797/1085
Sensitivity Case 2	JOSD21	Modified	6	6.5	8	9	803.8	1992 shape	DAMBRK	797/1090
Sensitivity Case 5	JOSD09	Modified	6.5	7.0	8	9	802	1992 shape	DAMBRK	796/1080
Sensitivity Case 6	JOSD10	Modified	6.5	6.5	8	9	802.8	1992 shape	DAMBRK	796/1085
Sensitivity Case 1	JOSD15	Modified	6	6.5	8	9	803.6	1992 shape	DAMBRK	796/1090
Sensitivity Case 4	JOSD23	Modified	n/a	n/a	n/a	n/a	795.2	1983 shape	DAMBRK	798/1108
Sensitivity Case 3	JOSD22	Modified	n/a	n/a	n/a	n/a	792.2	1983 shape	DAMBRK	797/1090

Note: Time shown is in Hours, to the nearest 1/2 hour.

Keowee Dam is assumed to fail in all cases shown above when elevation reaches 815.5 ft msl.

FPC - Flood Plain Compartment - Little River Dam Arm of Reservoir.

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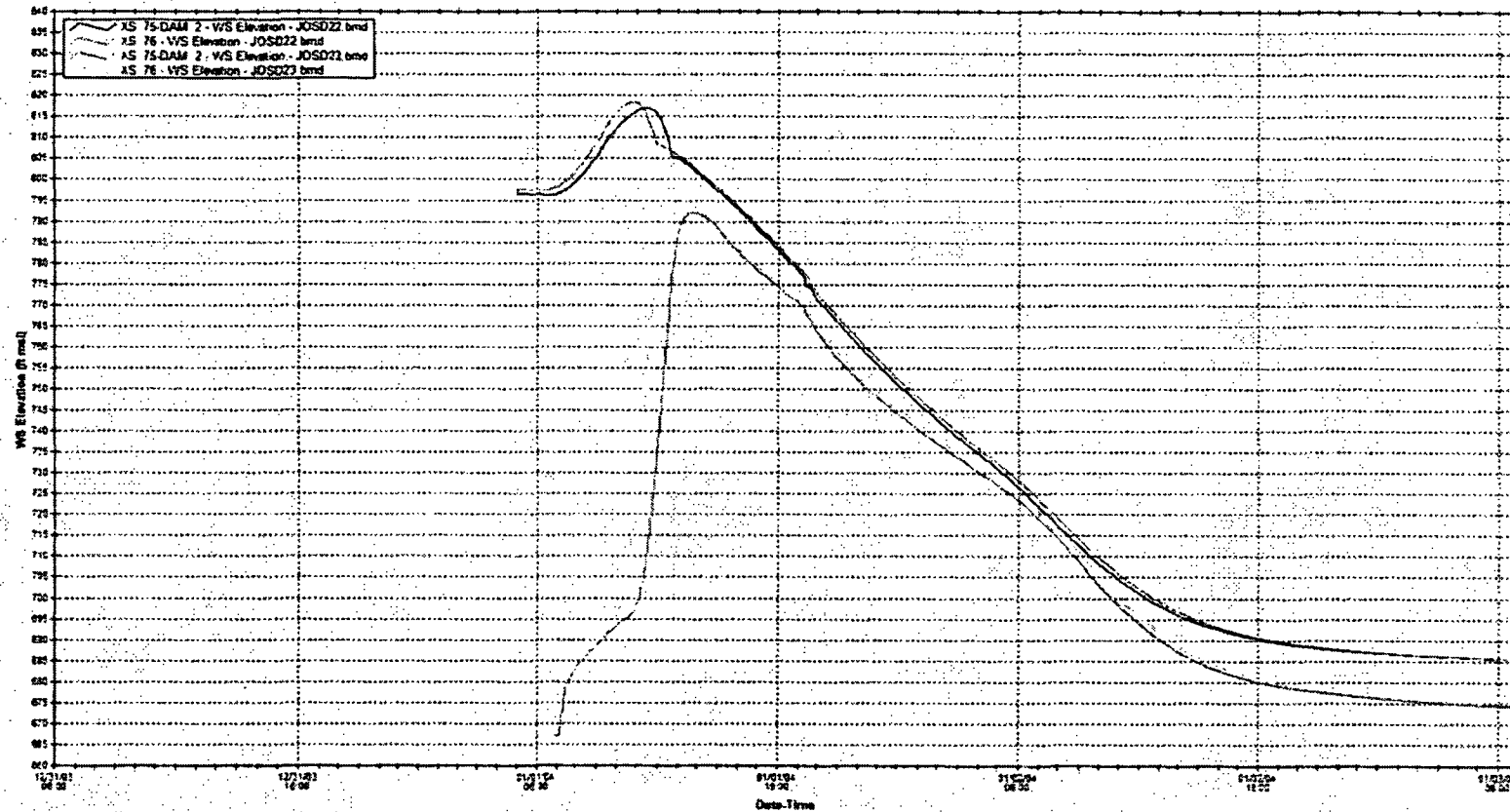


Figure 1 DAMBRK Model Results Using 1983 Joceasee Dam Breach Minimum Elevation

Note: In the figure legend, XS 75 represents a cross section just upstream of the Keowee Dam and XS 76 represents the first cross section downstream of the dam.

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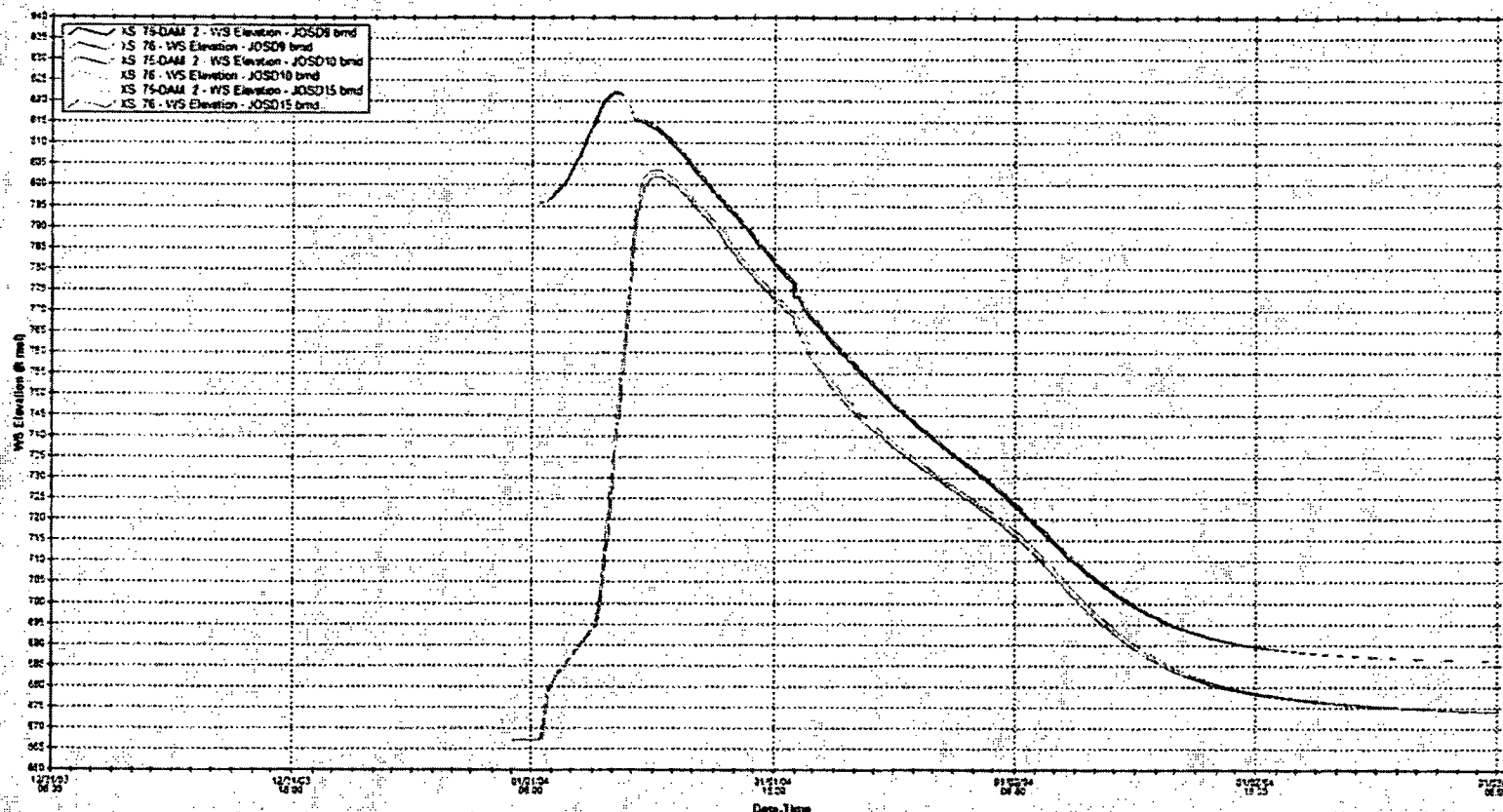


Figure 2 DAMBRK Model Results Using 1992 EAP Jocassee Dam Breach Minimum Elevation with varying starting elevations for Lake Jocassee and Lake Keowee at 796 ft msl

Note: In the figure legend, XS 75 represents a cross section just upstream of the Keowee Dam and XS 76 represents the first cross section downstream of the dam.

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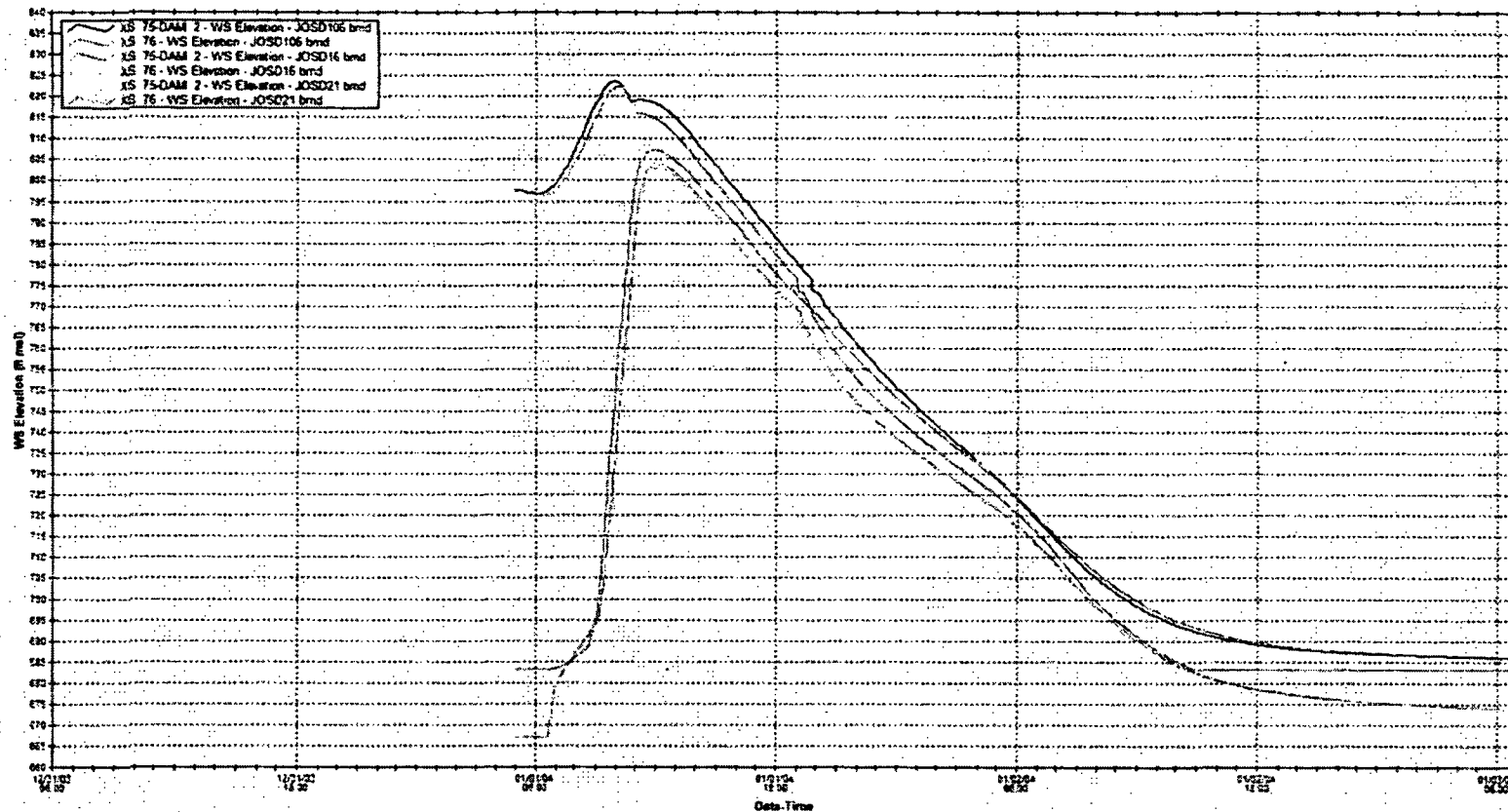


Figure 3 DAMBRK Model Results Using 1992 EAP Jocassee Dam Breach Minimum Elevation with varying starting elevations for Lake Jocassee and Lake Keowee

Note: In the figure legend, XS 75 represents a cross section just upstream of the Keowee Dam and XS 76 represents the first cross section downstream of the dam.

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Table 3 Comparison of Model Inputs

Item	Original 1992 Analysis	2008 Analysis
Software	DAMBRK - Mainframe version	DAMBRK - PC version
Software version	Revision 4, 8/91	Rev 4, 8/91 with modifications for Duke Energy to increase array size and gate options definition of changes in the Law Engineering Catawba Wateree PMF Studies 1991-1992
General Storage Areas	Off-Channel storage per maps	Same
Connecting Channel	Used Flood Plain Compartment (FPC)	Increased array to allow storage at higher Reservoir/FPC areas in Little River Arm Original FPC 'maxed-out'
PMF	Available with or without PMF	Not part of scope of work
Sunny Day Jocassee Level	1108	Varied per Duke Energy request
Keowee Level	798	Varied per Duke Energy request
Jocassee Breach Size	Trapz-250'W/1-1 slopes/EL. 800 FERC Guidelines and varied	FERC Guidelines
Keowee Dam Failed	Yes	Yes - fail at 0.5 ft overtopping of Keowee dam
Keowee Dam Breach	Trapz-500'W/1-1 slopes/EL. 670	same
Keowee Spillway Curve	4 gate discharge (est. w/head vs. discharge curve)	same
Hartwell Spillway Curve	Estimated from COE data	same
Richard B. Russell Dam	Estimated from COE data	not used
Strom Thurmond Dam	Estimated from COE data	not used
Stevens Creek Dam	Estimated from SCE&G data	not used
Augusta Area	Estimated from FEMA Flood Study	not used

Note: All cross sections, Jocassee Reservoir Area Curve, Cross Section Storage Areas and routing parameters used in the 1992 analysis are the same in all scenarios.

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This report provides summary results of DAMBRK modeling at the Keowee-Toxaway Project for the seven scenarios requested by Duke Energy using the 1992 EAP Inundation Model Inputs. Should you have any questions regarding this submittal or require further information, please contact me at (704) 342-7385 or chris.ey@devinetarbell.com.

Sincerely,

DEVINE TARBELL & ASSOCIATES, INC

A handwritten signature in cursive script, likely belonging to J. Christopher Ey.

J. Christopher Ey, P.E.
Civil Engineering Manager

A handwritten signature in cursive script, likely belonging to Carey Fraser.

Carey Fraser
Technical Editor

A handwritten signature in cursive script, likely belonging to Tim Banta.

Tim Banta, P.E.
Senior Engineer

JCE/cef
Attachments

cc: C. Ey, DTA
File

ATTACHMENT 1
JOSD106 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH
PRODUCED BY THE DAM BREAK OF

JOCASSEE HYDRO-M1

ON

JOC/KEO FAILURE

ANALYSIS BY

SD FAILURE OPTION 12
JOSD106 09/18/08 SD Fail JOC#1108 W/FFC
@ L RIVER CANAL COE QT CURVE 900 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATANBA PROJECT

*** SUMMARY OF INPUT DATA ***

INPUT CONTROL PARAMETERS FOR JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KKN	1
TYPE OF RESERVOIR ROUTING	MUI	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEN	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9	NPRT	0
FLOOD-PLAIN MODEL PARAMETER	RFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES) SA (K)	ELEVATION (FT) HSA (KI)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1108.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	800.00
WIDTH OF BASE OF BREACH	FEET	BB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	940.00
ELEVATION OF TOP OF DAM	FEET	HD	1125.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	798.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	795.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19500.00

DAM NUMBER 3

JOCASSEE HYDRO-K1 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	658.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40975.	1.0
44081.	3.0
47314.	5.0
52201.	8.0
55476.	10.0
58759.	12.0
61222.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
41280.	.2
61920.	.5
67920.	2.0
74010.	4.0
80220.	6.0
92730.	10.0
121080.	19.0

QTT(L, K):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

OSPILL(K, 3) CFS	HEAD(K, 3) FEET
.....
0.	0
78750.	5
157500.	1.0
315000.	2.0
353000.	6.0
400000.	8.0
480000.	12.0
565000.	16.0

DHF (INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.
TEN (TIME AT WHICH COMPUTATIONS TERMINATE) = 50.0000 HRS.
BREX (BREACH EXPONENT) = .000
MUD (MUD FLOW OPTION) = 0
IMF (TYPE OF WAVE FRONT TRACKING) = 0
KPRES (WETTED PERIMETER OPTION) = 0
KSL (LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-MI

500.00 500.00 500.00 500.00 36000.00 36000.00 36000.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000 1.0000 7.0000 8.0000 14.0000 30.0000 140.0000

CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)

1 3 9 10 11 12

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

PARAMETER	UNITS	VARIABLE
.....

LOCATION OF CROSS-SECTION MILE XS(I)
ELEVATION (MSL) OF FLOODING AT CROSS-SECTION FEET FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH FEET HS (N,I)
TOP WIDTH CORRESPONDING TO EACH ELEV FEET BS (N,I)
(ACTIVE FLOW PORTION)
TOP WIDTH CORRESPONDING TO EACH ELEV FEET BSS (N,I)
(OFF-CHANNEL PORTION)
NUMBER OF CROSS-SECTION I
NUMBER OF ELEVATION LEVEL K

CROSS-SECTION NUMBER 1

XS(I) = .100 FSTG(I) = 1109.00

HS	...	746.0	780.0	840.0	940.0	1000.0	1100.0	1140.0
BS	...	.0	600.0	900.0	1400.0	1800.0	2600.0	2750.0
BSS	...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2

XS(I) = .130 FSTG(I) = 800.00

HS	...	745.0	760.0	800.0	820.0	840.0	900.0	940.0
BS	...	.0	1000.0	1500.0	1600.0	1800.0	2000.0	2200.0
BSS	...	.0	.0	541.0	900.0	1184.0	2897.0	4000.0

CROSS-SECTION NUMBER 3

XS(I) = 1.320 FSTG(I) = 800.00

HS	...	731.0	740.0	760.0	800.0	820.0	840.0	900.0
BS	...	.0	250.0	1300.0	2000.0	2200.0	2400.0	2600.0
BSS	...	.0	.0	.0	541.0	900.0	1184.0	2897.0

CROSS-SECTION NUMBER 4

XS(I) = 2.910 FSTG(I) = 800.00

HS	...	715.0	720.0	740.0	800.0	820.0	840.0	900.0
BS	...	.0	200.0	700.0	1700.0	1850.0	2100.0	2800.0
BSS	...	.0	.0	.0	3359.0	5100.0	6607.0	12826.0

CROSS-SECTION NUMBER 5

XS(I) = 3.820 FSTG(I) = 800.00

HS	...	710.0	720.0	740.0	800.0	820.0	840.0	900.0
BS	...	.0	200.0	500.0	800.0	850.0	925.0	2300.0
BSS	...	.0	.0	.0	3771.0	5780.0	7764.0	14858.0

CROSS-SECTION NUMBER 6

XS(I) = 6.470 FSTG(I) = 800.00

HS	...	693.0	720.0	740.0	800.0	820.0	840.0	900.0
BS	...	.0	500.0	600.0	1000.0	1150.0	1300.0	1900.0
BSS	...	.0	.0	.0	412.0	680.0	957.0	2032.0

CROSS-SECTION NUMBER 7
.....

XS(1) = 8.210 FSTG(1) = 800.00

HS	...	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS	...	.0	1600.0	1850.0	2000.0	2300.0	2425.0	2700.0
BSS	...	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8
.....

XS(1) = 10.480 FSTG(1) = 800.00

HS	...	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS	...	.0	2400.0	3700.0	4000.0	4400.0	4650.0	4950.0
BSS	...	.0	.0	.0	.0	1426.0	2860.0	4300.0

CROSS-SECTION NUMBER 9
.....

XS(1) = 13.900 FSTG(1) = 800.00

HS	...	648.0	680.0	740.0	780.0	800.0	820.0	840.0
BS	...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10
.....

XS(1) = 14.100 FSTG(1) = 800.00

HS	...	647.4	680.0	740.0	780.0	800.0	820.0	840.0
BS0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11
.....

XS(1) = 14.200 FSTG(1) = 800.00

HS	...	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS	...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS	...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12
.....

XS(1) = 14.800 FSTG(1) = 669.00

HS	...	646.0	660.0	680.0	700.0	720.0	760.0	815.0
BS	...	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS	...	.0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13
.....

XS(1) = 16.400 FSTG(1) = 667.00

HS ...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS ...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14
.....

XS(I) = 17.800 FSTG(I) = 665.00

HS ...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS ...	.0	400.0	700.0	800.0	1000.0	2400.0	4000.0
BSS ...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15
.....

XS(I) = 20.300 FSTG(I) = 661.40

HS ...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS ...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS ...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16
.....

XS(I) = 21.900 FSTG(I) = 660.60

HS ...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS ...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS ...	.0	.0	.0	1217.0	2400.0	5000.0	6007.0

CROSS-SECTION NUMBER 17
.....

XS(I) = 25.100 FSTG(I) = 660.00

HS ...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS ...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS ...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18
.....

XS(I) = 26.700 FSTG(I) = 660.00

HS ...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS ...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19
.....

XS(I) = 29.200 FSTG(I) = 660.00

HS ...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	250.0	600.0	800.0	4700.0	6000.0	7000.0
BSS ...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20

XS(I) = 31.500 FSTG(I) = 660.00

HS ...	600.0	620.0	640.0	660.0	670.0	680.0	700.0
BS ...	.0	1400.0	2000.0	2400.0	2800.0	3000.0	4000.0
BSS ...	.0	.0	.0	2330.0	3150.0	4320.0	5764.0

CROSS-SECTION NUMBER 21

XS(I) = 36.800 FSTG(I) = 660.00

HS ...	589.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	600.0	1560.0	1700.0	2200.0	2900.0	3500.0
BSS ...	.0	.0	.0	50.0	3664.0	5720.0	8808.0

CROSS-SECTION NUMBER 22

XS(I) = 40.100 FSTG(I) = 660.00

HS ...	583.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	600.0	800.0	900.0	1100.0	1200.0
BSS ...	.0	.0	.0	50.0	384.0	1900.0	3444.0

CROSS-SECTION NUMBER 23

XS(I) = 41.100 FSTG(I) = 660.00

HS ...	540.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	1500.0	1900.0	2000.0	2150.0	2350.0	3100.0
BSS ...	.0	.0	.0	50.0	10358.0	15200.0	20109.0

CROSS-SECTION NUMBER 24

XS(I) = 42.800 FSTG(I) = 660.00

HS ...	520.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	2000.0	4300.0	5700.0	11000.0	13000.0	14000.0
BSS ...	.0	.0	3500.0	4000.0	14673.0	68200.0	101803.0

CROSS-SECTION NUMBER 25

XS(I) = 49.900 FSTG(I) = 660.00

HS ...	497.0	500.0	600.0	640.0	660.0	680.0	700.0
BS0	500.0	3500.0	4200.0	10000.0	10700.0	11200.0
BSS0	.0	1000.0	1800.0	18239.0	29500.0	40619.0

CROSS-SECTION NUMBER 26

XS(I) = 53.900 FSTG(I) = 660.00

HS ...	490.0	540.0	600.0	620.0	640.0	660.0	680.0
BS0	1500.0	12000.0	14000.0	14700.0	15000.0	16200.0
BSS0	.0	.0	50.0	100.0	1500.0	2400.0

CROSS-SECTION NUMBER 27

XS(I) = 54.400 PSTG(I) = 496.00

HS ...	485.0	500.0	520.0	540.0	560.0	580.0	600.0
BS0	1000.0	1100.0	1200.0	1250.0	2100.0	2300.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28

XS(I) = 55.700 PSTG(I) = 482.00

HS ...	474.0	480.0	500.0	520.0	540.0	580.0	600.0
BS0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29

XS(I) = 69.700 PSTG(I) = 477.00

HS ...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30

XS(I) = 72.300 PSTG(I) = 477.00

HS ...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31

XS(I) = 79.900 PSTG(I) = 477.00

HS ...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS ...	.0	1500.0	1800.0	2000.0	2200.0	3800.0	6000.0
BSS ...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(CM(K,I), K=1, NCS) WHERE I = REACH NUMBER

REACH 1 ...	.030	.030	.030	.030	.030	.030	.030
REACH 2 ...	.030	.030	.035	.040	.050	.070	.080
REACH 3 ...	.030	.030	.030	.035	.040	.050	.080
REACH 4 ...	.030	.030	.030	.035	.040	.050	.080
REACH 5 ...	.030	.030	.030	.035	.040	.050	.080
REACH 6 ...	.030	.030	.030	.030	.035	.050	.080
REACH 7 ...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.060	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.050	.060	.080
REACH 27 ...	.030	.030	.030	.035	.050	.060	.080
REACH 28030	.030	.030	.035	.050	.060	.080
REACH 29030	.030	.030	.035	.050	.060	.080
REACH 30030	.030	.030	.035	.050	.060	.080

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CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(1)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FKC(1)

REACH NUMBER	DXM(1)	FKC(1)
1	-101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.500	.000
8	.200	.000
9	.500	.000
10	1.500	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

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DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-WI

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET	QLL	.000
INITIAL SIZE OF TIME STEP	HOOR	DTIM	.0500
DOWNSTREAM BOUNDARY PARAMETER	FEET	YDN	.000200
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPM	SOM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOOR	TFI	.00

NPLO= 1

III= 1 NXPI(K,III)= 9 NXPN(K,III)= 10 NQLP(K)= 0 PWELV(K,III)= 720.10 PCWR(K,III)= 3.20 PEO(K)= 794.61 QMINP(K)= .00

(PSA(I,K),I=1,8)
58854.00 353605.00 485177.00 535128.00 644168.00 703866.00 767766.00 908172.00

(PEL(I,K),I=1,8)
720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(OPU(I,K),I=1,ITEM)
.00 .00 .00 .00 .00 .00 .00 .00

(COPF(I,K),I=1,8)
.00 .00 .00 .00 .00 .00 .00 .00

(HCFE(I,K),I=1,8)
900.00 .00 .00 .00 .00 .00 .00 .00
NPM= 0

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) = 163 (MAXIMUM ALLOWABLE = 256)

*** SUMMARY OF OUTPUT DATA ***

CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE YFM	MESSAGE
1	.10	746.00				
2	.11	745.00	1	.03	33.33	
3	1.32	731.00	2	1.19	11.76	
4	2.91	715.00	3	1.59	10.06	
5	3.82	710.00	4	.91	5.49	
6	8.47	693.00	5	2.65	6.42	
7	9.21	680.00	6	1.74	7.47	
8	10.48	672.00	7	2.21	3.52	
9	13.90	648.00	8	3.42	7.02	
10	14.10	647.40	9	.20	3.00	
11	14.20	647.00	10	.10	4.00	
12	14.80	646.00	11	.60	1.67	
13	16.40	645.00	12	1.60	.63	
14	17.80	644.00	13	1.40	.71	
15	20.30	633.00	14	2.50	4.40	
16	21.90	628.00	15	1.60	3.12	
17	25.10	620.00	16	3.20	2.50	
18	26.70	614.00	17	1.60	3.75	
19	29.20	607.00	18	2.50	2.80	
20	31.50	600.00	19	2.30	3.04	
21	36.80	589.00	20	5.30	2.08	
22	40.10	583.00	21	3.30	1.62	
23	41.10	540.00	22	1.00	43.00	
24	42.80	520.00	23	1.70	11.76	
25	49.90	497.00	24	7.10	3.24	
26	53.90	490.00	25	4.00	1.75	
27	54.40	485.00	26	.50	10.00	
28	55.70	474.00	27	1.30	8.46	
29	69.70	405.00	28	14.00	4.93	
30	72.30	387.00	29	2.60	6.92	
31	79.90	330.00	30	7.60	7.50	

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1
IDAM(2) = 75
IDAM(3) = 140.

SNC(F,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS NN(IN3) 163

NUMBER OF TIME STEPS NNU 7

ROUTING COMPLETED.

KTIME= 1003 ALLOWABLE KTIME=9999 TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.....
.100	1107.98	4538608	.000	14.55	1109.00	.00
.130	887.78	4538608	4.450	22.16	800.00	1.20
.238	887.40	4515375	4.450	21.73	800.00	1.20
.346	887.02	4491914	4.500	21.27	800.00	1.20
.455	886.64	4468268	4.500	20.79	800.00	1.20
.563	886.28	4444378	4.500	20.29	800.00	1.20
.671	885.92	4420126	4.500	19.77	800.00	1.25
.779	885.59	4395485	4.550	19.24	800.00	1.25
.887	885.28	4370459	4.550	18.69	800.00	1.25
.995	884.99	4345046	4.550	18.12	800.00	1.25
1.104	884.72	4319250	4.600	17.54	800.00	1.25
1.212	884.47	4293070	4.600	16.95	800.00	1.25
1.320	884.25	4266511	4.600	16.36	800.00	1.30
1.426	883.92	4242417	4.600	16.40	800.00	1.30
1.532	883.60	4217585	4.600	16.44	800.00	1.30
1.638	883.27	4189585	4.650	16.47	800.00	1.30
1.744	882.95	4158429	4.650	16.49	800.00	1.30
1.850	882.61	4124148	4.650	16.50	800.00	1.30
1.956	882.27	4086785	4.650	16.51	800.00	1.30
2.062	881.92	4046397	4.700	16.51	800.00	1.30
2.168	881.57	4003056	4.700	16.50	800.00	1.35
2.274	881.21	3956833	4.700	16.48	800.00	1.35
2.380	880.84	3907800	4.700	16.46	800.00	1.35
2.486	880.46	3856040	4.700	16.43	800.00	1.35
2.592	880.07	3801635	4.750	16.39	800.00	1.35
2.698	879.67	3744679	4.750	16.34	800.00	1.35
2.804	879.26	3689645	4.750	16.28	800.00	1.35
2.910	878.83	3634417	4.750	16.22	800.00	1.35
3.013	876.40	3471046	4.800	19.03	800.00	1.40
3.517	872.07	3315035	4.850	24.01	800.00	1.45
3.820	861.97	3168902	4.950	36.33	800.00	1.55
4.024	857.15	3079317	4.950	35.32	800.00	1.60
4.228	852.64	3011239	5.000	34.52	800.00	1.65
4.432	848.59	2959302	5.050	33.92	800.00	1.65
4.635	844.98	2918351	5.150	33.49	800.00	1.70
4.839	841.75	2891049	5.200	33.24	800.00	1.75
5.043	838.83	2878122	5.250	33.15	800.00	1.80
5.247	836.05	2869499	5.300	33.21	800.00	1.80
5.451	833.35	2861369	5.350	33.45	800.00	1.85
5.655	830.69	2852813	5.400	33.89	800.00	1.90
5.858	828.10	2843680	5.400	34.51	800.00	2.00
6.062	825.57	2834730	5.450	35.50	800.00	2.05
6.266	823.11	2825075	5.450	37.09	800.00	2.10
6.470	820.74	2814562	5.500	40.22	800.00	2.20
6.687	824.66	2802757	5.400	28.24	800.00	2.10
6.905	826.28	2786606	5.350	22.92	800.00	2.05
7.122	827.05	2771037	5.350	19.41	800.00	2.05
7.340	827.45	2749583	5.300	16.81	800.00	2.00

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PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.....
7.557	827.63	2724323	5.300	14.77	800.00	2.00
7.775	827.68	2697398	5.250	13.09	800.00	2.00
7.992	827.65	2672734	5.250	11.70	800.00	2.00
8.210	827.53	2724539	5.250	11.00	800.00	2.00
8.777	827.16	2870427	5.200	9.50	800.00	2.00
9.345	826.83	2983774	5.150	8.36	800.00	2.05
9.912	826.56	3069342	5.150	7.44	800.00	2.05
10.480	826.32	3127848	5.150	6.69	800.00	2.05
10.681	826.20	3144226	5.150	6.78	800.00	2.05
10.882	826.06	3161696	5.100	6.88	800.00	2.05
11.084	825.93	3178188	5.100	6.98	800.00	2.05
11.285	825.80	3193677	5.100	7.10	800.00	2.05
11.486	825.66	3208145	5.100	7.23	800.00	2.05
11.687	825.51	3221572	5.100	7.38	800.00	2.05
11.888	825.36	3233927	5.100	7.54	800.00	2.05
12.089	825.20	3245162	5.050	7.71	800.00	2.05
12.291	825.03	3255225	5.050	7.89	800.00	2.05
12.492	824.86	3264035	5.050	8.10	800.00	2.05
12.693	824.67	3272998	5.050	8.32	800.00	2.05
12.894	824.47	3283945	5.050	8.56	800.00	2.10
13.095	824.26	3294141	5.000	8.84	800.00	2.10
13.296	824.04	3303594	5.000	9.16	800.00	2.10
13.498	823.79	3312319	5.000	9.52	800.00	2.10

13.699	823.52	3320379	4.950	9.92	800.00	2.10
13.900	823.23	3327805	4.950	10.38	800.00	2.10
14.100	823.57	3333485	4.900	10.45	800.00	2.10
14.200	823.50	3336856	4.900	10.48	800.00	2.10
14.800	807.18	3336856	6.950	19.77	669.00	.00
14.900	806.97	3283973	6.950	18.94	668.88	.00
15.000	806.75	3231248	6.950	18.13	668.75	.00
15.100	806.54	3178793	7.000	17.35	668.63	.00
15.200	806.32	3126721	7.000	16.60	668.50	.00
15.300	806.10	3075142	7.000	15.87	668.38	.00
15.400	805.88	3024157	7.000	15.17	668.25	.00
15.500	805.66	2973868	7.000	14.56	668.13	.00
15.600	805.43	2928225	7.000	14.17	668.00	.00
15.700	805.20	2885747	7.000	13.84	667.88	.00
15.800	804.97	2843616	7.000	13.56	667.75	.00
15.900	804.74	2801960	7.000	13.32	667.63	.00
16.000	804.50	2760896	7.050	13.16	667.50	.00
16.100	804.26	2720523	7.050	13.02	667.38	.00
16.200	804.03	2680929	7.050	12.90	667.25	.00
16.300	803.79	2642190	7.050	12.78	667.13	.00
16.400	803.55	2605958	7.050	12.67	667.00	.00
16.500	803.32	2573023	7.050	12.55	666.86	.00
16.600	803.08	2539843	7.050	12.43	666.71	.00
16.700	802.84	2506442	7.050	12.31	666.57	.00
16.800	802.60	2472843	7.050	12.20	666.43	.00

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRG-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL PPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	802.35	2439068	7.050	12.08	666.29	.00
17.000	802.09	2405133	7.050	11.97	666.14	.00
17.100	801.83	2374037	7.050	11.85	666.00	.00
17.200	801.56	2343760	7.100	11.74	665.86	.00
17.300	801.29	2313362	7.100	11.64	665.71	.00
17.400	801.01	2282859	7.100	11.53	665.57	.00
17.500	800.73	2255442	7.100	11.43	665.43	.00
17.600	800.43	2231001	7.100	11.33	665.29	.00
17.700	800.14	2208940	7.100	11.23	665.14	.00
17.800	799.83	2188827	7.100	11.14	665.00	.00
18.113	798.61	2141671	7.100	11.08	664.55	.00
18.425	797.14	2109363	7.150	11.95	664.10	.00
18.738	795.32	2083614	7.150	12.61	663.65	.00
19.050	793.03	2062728	7.150	13.57	663.20	.00
19.363	790.04	2055878	7.200	14.95	662.75	.00
19.675	785.98	2051962	7.250	16.98	662.30	.00
19.988	780.11	2049233	7.300	20.17	661.85	.00
20.300	770.88	2047125	7.400	25.59	661.40	.00
21.900	743.98	2002990	9.800	23.54	660.60	.00
25.100	723.88	1703253	11.300	18.25	660.00	3.65
25.633	720.52	1625669	11.650	16.54	660.00	4.30
26.167	717.18	1568634	11.950	14.40	660.00	4.45
26.700	714.21	1535980	12.350	11.47	660.00	4.55
29.200	703.85	1443358	14.875	15.27	660.00	5.70
29.775	702.11	1425674	15.250	11.71	660.00	5.70
30.350	700.53	1404666	15.450	10.75	660.00	5.75
30.925	699.04	1381502	15.600	9.62	660.00	5.85
31.500	697.57	1357661	15.800	8.39	660.00	5.90
34.150	690.65	1275075	16.750	7.93	660.00	6.40
36.800	683.67	1221667	18.000	8.35	660.00	7.35
40.100	672.73	1188880	29.500	25.85	660.00	14.85
41.100	673.19	1175174	28.150	6.87	660.00	10.40
42.800	673.17	1073065	28.200	2.30	660.00	10.35
43.814	673.14	979085	28.250	2.02	660.00	10.40
44.829	673.12	891540	28.350	1.79	660.00	10.40
45.843	673.10	812571	28.350	1.59	660.00	10.45
46.857	673.08	741807	28.400	1.42	660.00	10.45
47.871	673.06	678025	28.400	1.27	660.00	10.45
48.886	673.04	622743	28.400	1.14	660.00	10.45
49.900	673.02	577315	28.450	1.02	660.00	10.45
50.900	673.02	545355	28.400	.63	660.00	10.45
51.900	673.01	527829	28.450	.47	660.00	10.45
52.900	673.01	520569	28.400	.39	660.00	10.45
53.900	673.01	518880	28.400	.35	660.00	10.45
54.400	514.42	518880	26.700	23.10	496.80	.10
55.050	501.38	518852	29.550	21.32	489.40	.30
55.700	500.61	518648	29.500	11.32	482.00	.35
56.200	498.49	518411	29.700	11.30	481.82	.60

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM	MAX ELEV	MAX FLOW	TIME MAX	MAX VEL	FLOOD ELEV	TIME FLOOD
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MILE *****	FEET *****	CFS *****	ELEV-HRS *****	FPS *****	FEET *****	ELEV-HRS *****
56.700	496.38	518156	29.900	11.28	481.64	.90
57.200	494.27	517882	30.100	11.26	481.46	1.25
57.700	492.16	517587	30.350	11.23	481.29	1.85
58.200	490.06	517279	30.550	11.20	481.11	12.55
58.700	487.96	516957	30.750	11.17	480.93	13.40
59.200	485.86	516625	30.950	11.13	480.75	16.70
59.700	483.77	516286	31.200	11.10	480.57	19.70
60.200	481.68	515943	31.400	11.06	480.39	24.00
60.700	479.59	515603	31.600	11.02	480.21	.00
61.200	477.50	515263	31.800	10.98	480.04	.00
61.700	475.41	514932	32.000	10.93	479.86	.00
62.200	473.33	514612	32.150	10.89	479.68	.00
62.700	471.24	514306	32.350	10.84	479.50	.00
63.200	469.15	514018	32.500	10.80	479.32	.00
63.700	467.06	513751	32.650	10.75	479.14	.00
64.200	464.96	513508	32.800	10.71	478.96	.00
64.700	462.86	513290	32.950	10.67	478.79	.00
65.200	460.74	513099	33.050	10.63	478.61	.00
65.700	458.62	512935	33.200	10.60	478.43	.00
66.200	456.47	512799	33.300	10.57	478.25	.00
66.700	454.31	512688	33.350	10.56	478.07	.00
67.200	452.11	512600	33.450	10.55	477.89	.00
67.700	449.88	512535	33.500	10.57	477.71	.00
68.200	447.58	512489	33.550	10.61	477.54	.00
68.700	445.21	512456	33.600	10.70	477.36	.00
69.200	442.72	512436	33.600	10.84	477.18	.00
69.700	440.04	512423	33.650	11.09	477.00	.00
70.220	436.74	512414	33.700	12.02	477.00	.00
70.740	433.12	512406	33.750	12.91	477.00	.00
71.260	429.35	512401	33.750	13.63	477.00	.00
71.780	425.48	512397	33.800	14.11	477.00	.00
72.300	421.43	512393	33.800	14.48	477.00	.00
73.386	413.02	512387	33.900	14.58	477.00	.00
74.471	404.62	512380	34.000	14.65	477.00	.00
75.557	396.34	512370	34.100	14.63	477.00	.00
76.643	389.02	512348	34.300	13.99	477.00	.00
77.729	384.34	512314	34.400	12.06	477.00	.00
78.814	382.08	512282	34.400	11.04	477.00	.00
79.900	381.04	512269	34.400	7.95	477.00	.00

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K *****	TTP(K) *****	YC(K,1,1=1,NTT) *****					
1	.000	1107.97	797.89	797.55	797.63	797.62	683.29
2	.050	1107.95	797.84	797.52	797.49	797.52	683.29
3	.100	1107.94	797.80	797.59	797.61	797.58	683.29
4	.150	1107.92	797.76	797.61	797.63	797.65	683.29
5	.200	1107.91	797.72	797.64	797.63	797.61	683.29
6	.250	1107.89	797.67	797.56	797.57	797.59	683.29
7	.300	1107.88	797.63	797.54	797.54	797.52	683.29
8	.350	1107.86	797.59	797.45	797.46	797.47	683.29
9	.400	1107.84	797.56	797.37	797.37	797.36	683.29
10	.450	1107.82	797.52	797.24	797.25	797.26	683.29
11	.500	1107.80	797.44	797.13	797.14	797.13	683.29
12	.550	1107.77	797.33	797.05	797.05	797.06	683.29
13	.600	1107.74	797.22	797.02	797.02	797.02	683.29
14	.650	1107.70	797.14	797.04	797.04	797.04	683.29
15	.700	1107.66	797.16	797.06	797.06	797.06	683.29
16	.750	1107.61	797.30	797.06	797.06	797.06	683.29
17	.800	1107.55	797.51	797.03	797.04	797.04	683.29
18	.850	1107.48	797.75	797.00	797.00	797.00	683.29
19	.900	1107.39	797.98	796.96	796.96	796.96	683.29
20	.950	1107.30	798.19	796.93	796.93	796.93	683.29
21	1.000	1107.19	798.40	796.90	796.90	796.90	683.29
22	1.050	1107.06	798.63	796.88	796.88	796.88	683.29
23	1.100	1106.92	798.90	796.86	796.86	796.86	683.29
24	1.150	1106.77	799.20	796.86	796.86	796.86	683.29
25	1.200	1106.59	799.55	796.87	796.87	796.87	683.29
26	1.250	1106.40	799.96	796.90	796.89	796.89	683.29
27	1.300	1106.18	800.40	796.95	796.95	796.95	683.29
28	1.350	1105.94	800.89	797.03	797.03	797.03	683.29
29	1.400	1105.68	801.41	797.14	797.14	797.14	683.29
30	1.450	1105.39	801.96	797.28	797.27	797.27	683.29
31	1.500	1105.08	802.54	797.43	797.43	797.43	683.29
32	1.550	1104.73	803.14	797.59	797.59	797.59	683.29
33	1.600	1104.36	803.77	797.76	797.76	797.75	683.29
34	1.650	1103.96	804.44	797.92	797.92	797.92	683.29
35	1.700	1103.52	805.15	798.10	798.10	798.10	683.29
36	1.750	1103.05	805.90	798.31	798.31	798.31	683.31
37	1.800	1102.54	806.71	798.53	798.53	798.53	683.35
38	1.850	1102.00	807.57	798.77	798.78	798.78	683.40
39	1.900	1101.41	808.47	799.03	799.04	799.04	683.45
40	1.950	1100.79	809.43	799.31	799.32	799.32	683.50
41	2.000	1100.12	810.43	799.59	799.60	799.60	683.56
42	2.050	1099.42	811.48	799.88	799.90	799.89	683.63
43	2.100	1098.66	812.59	800.18	800.20	800.20	683.70

44	2.150	1097.86	813.74	800.48	800.51	800.51	683.78
45	2.200	1097.02	814.94	800.80	800.83	800.83	683.87
46	2.250	1096.12	816.18	801.12	801.16	801.16	683.95
47	2.300	1095.17	817.47	801.46	801.50	801.50	684.05
48	2.350	1094.17	818.80	801.81	801.86	801.86	684.15
49	2.400	1093.12	820.17	802.17	802.23	802.23	684.26
50	2.450	1092.02	821.58	802.54	802.61	802.61	684.37
51	2.500	1090.85	823.05	802.93	803.01	803.01	684.49
52	2.550	1089.63	824.56	803.33	803.41	803.41	684.61
53	2.600	1088.36	826.12	803.74	803.83	803.83	684.74
54	2.650	1087.02	827.73	804.15	804.26	804.26	684.88
55	2.700	1085.62	829.39	804.58	804.70	804.70	685.02
56	2.750	1084.17	831.08	805.03	805.15	805.15	685.16
57	2.800	1082.65	832.81	805.48	805.61	805.61	685.31
58	2.850	1081.06	834.57	805.93	806.08	806.08	685.46
59	2.900	1079.41	836.35	806.40	806.56	806.56	685.62
60	2.950	1077.69	838.16	806.85	807.02	807.01	685.78
61	3.000	1075.91	839.99	807.33	807.51	807.51	685.95
62	3.050	1074.06	841.84	807.81	807.99	807.99	686.12
63	3.100	1072.14	843.71	808.30	808.50	808.50	686.30
64	3.150	1070.15	845.59	808.80	809.01	809.01	686.48
65	3.200	1068.08	847.47	809.31	809.53	809.53	686.66
66	3.250	1065.95	849.36	809.83	810.07	810.07	686.85
67	3.300	1063.74	851.26	810.36	810.61	810.61	687.04
68	3.350	1061.45	853.16	810.90	811.16	811.16	687.24
69	3.400	1059.09	855.06	811.44	811.71	811.71	687.44
70	3.450	1056.65	856.96	812.00	812.27	812.27	687.64
71	3.500	1054.13	858.86	812.55	812.84	812.84	687.85
72	3.550	1051.53	860.75	813.12	813.41	813.41	688.05
73	3.600	1048.84	862.64	813.68	813.99	813.99	688.27
74	3.650	1046.07	864.52	814.26	814.57	814.57	688.48
75	3.700	1043.21	866.40	814.83	815.15	815.15	688.74
76	3.750	1040.26	868.26	815.39	815.72	815.71	689.32
77	3.800	1037.22	870.11	815.94	816.27	816.27	690.13
78	3.850	1034.08	871.94	816.48	816.82	816.81	691.13
79	3.900	1030.85	873.76	817.00	817.36	817.35	692.32
80	3.950	1027.53	875.56	817.53	817.89	817.88	693.70
81	4.000	1024.11	877.33	818.04	818.41	818.40	695.28
82	4.050	1020.66	878.84	818.54	818.93	818.91	697.04
83	4.100	1017.26	879.91	819.04	819.43	819.41	698.99
84	4.150	1013.90	880.80	819.50	819.90	819.89	701.10
85	4.200	1010.60	881.63	819.92	820.34	820.32	703.38
86	4.250	1007.34	882.32	820.34	820.77	820.75	705.87
87	4.300	1004.13	882.91	820.73	821.17	821.15	708.46
88	4.350	1000.96	883.38	821.10	821.54	821.52	711.25
89	4.400	997.84	883.72	821.44	821.89	821.86	714.17
90	4.450	994.76	883.97	821.74	822.19	822.16	717.21
91	4.500	991.73	884.13	822.01	822.46	822.43	720.39
92	4.550	988.74	884.22	822.24	822.71	822.67	723.80
93	4.600	985.78	884.25	822.48	822.92	822.88	727.25
94	4.650	982.87	884.21	822.68	823.11	823.07	730.58
95	4.700	980.01	884.13	822.86	823.28	823.23	733.79
96	4.750	977.18	883.99	822.99	823.40	823.35	736.87
97	4.800	974.39	883.80	823.09	823.49	823.43	739.84
98	4.850	971.63	883.55	823.17	823.54	823.48	742.71
99	4.900	968.92	883.26	823.21	823.57	823.50	745.51
100	4.950	966.24	882.91	823.23	823.56	823.48	748.26
101	5.000	963.61	882.52	823.21	823.51	823.43	750.97
102	5.050	961.00	882.09	823.16	823.43	823.34	753.65
103	5.100	958.44	881.61	823.08	823.31	823.22	756.30
104	5.150	955.90	881.08	822.96	823.16	823.05	758.95
105	5.200	953.41	880.51	822.81	822.96	822.84	761.59
106	5.250	950.94	879.91	822.62	822.71	822.59	764.27
107	5.300	948.51	879.26	822.39	822.43	822.29	767.00
108	5.350	946.12	878.58	822.11	822.09	821.94	769.81
109	5.400	943.75	877.87	821.79	821.70	821.54	772.69
110	5.450	941.42	877.13	821.42	821.26	821.08	775.65
111	5.500	939.12	876.36	820.99	820.76	820.55	778.68
112	5.550	936.85	875.57	820.51	820.20	820.00	781.74
113	5.600	934.62	874.75	820.01	819.65	819.43	784.75
114	5.650	932.41	873.90	819.53	819.14	818.92	787.63
115	5.700	930.23	873.03	819.12	818.71	818.50	790.34
116	5.750	928.08	872.15	818.79	818.38	818.17	792.83
117	5.800	925.97	871.24	818.44	818.05	818.42	794.81
118	5.850	923.88	870.31	818.08	817.79	818.63	796.52
119	5.900	921.81	869.36	817.69	817.43	818.00	798.02
120	5.950	919.78	868.39	817.30	817.06	818.93	799.33
121	6.000	917.78	867.40	816.93	816.71	819.02	800.49
122	6.050	915.80	866.40	816.51	816.20	819.09	801.52
123	6.100	913.84	865.37	816.13	815.73	819.13	802.41
124	6.150	911.92	864.33	815.74	815.24	819.14	803.19
125	6.200	910.02	863.27	815.31	814.73	819.13	803.86
126	6.250	908.14	862.19	814.93	814.20	819.11	804.44
127	6.300	906.30	861.09	814.53	813.66	819.07	804.93
128	6.350	904.47	859.97	814.17	813.11	819.03	805.35
129	6.400	902.67	858.84	813.79	812.66	818.98	805.70
130	6.450	900.90	857.69	813.41	812.21	818.93	806.01
131	6.500	899.15	856.51	813.02	811.77	818.89	806.26
132	6.550	897.42	855.32	812.63	811.32	818.84	806.48
133	6.600	895.72	854.11	812.23	810.87	818.79	806.67
134	6.650	894.05	852.88	811.84	810.42	818.74	806.83
135	6.700	892.40	851.64	811.45	810.00	818.67	806.95
136	6.750	890.77	850.38	811.05	809.61	818.60	807.05
137	6.800	889.17	849.11	810.72	809.26	818.50	807.11
138	6.850	887.59	847.82	810.41	808.97	818.40	807.15

139	6.900	886.03	846.53	818.51	818.37	818.30	807.17
140	6.950	884.49	845.24	818.45	818.28	818.21	807.18
141	7.000	882.98	843.94	818.38	818.19	818.12	807.17
142	7.050	881.49	842.65	818.30	818.09	818.02	807.14
143	7.100	880.02	841.36	818.21	817.98	817.91	807.10
144	7.150	878.57	840.09	818.12	817.85	817.79	807.04
145	7.200	877.15	838.84	818.01	817.72	817.65	806.97
146	7.250	875.74	837.60	817.89	817.58	817.51	806.88
147	7.300	874.36	836.39	817.77	817.43	817.36	806.78
148	7.350	873.00	835.19	817.63	817.27	817.20	806.66
149	7.400	871.65	834.01	817.49	817.10	817.04	806.54
150	7.450	870.33	832.85	817.34	816.93	816.86	806.40
151	7.500	869.03	831.71	817.18	816.75	816.68	806.26
152	7.550	867.74	830.59	817.02	816.56	816.50	806.10
153	7.600	866.48	829.50	816.85	816.37	816.30	805.94
154	7.650	865.23	828.44	816.67	816.17	816.11	805.78
155	7.700	864.01	827.40	816.49	815.97	815.91	805.60
156	7.750	862.80	826.40	816.30	815.76	815.70	805.42
157	7.800	861.61	825.42	816.10	815.55	815.48	805.24
158	7.850	860.44	824.46	815.90	815.32	815.26	805.05
159	7.900	859.28	823.57	815.69	815.10	815.03	804.85
160	7.950	858.15	822.69	815.47	814.86	814.80	804.66
161	8.000	857.03	821.86	815.25	814.62	814.55	804.46
162	8.050	855.93	821.07	815.02	814.37	814.31	804.25
163	8.100	854.84	820.32	814.78	814.12	814.06	804.05
164	8.150	853.78	819.61	814.54	813.85	813.80	803.83
165	8.200	852.73	818.93	814.30	813.60	813.54	803.62
166	8.250	851.70	818.29	814.05	813.34	813.28	803.40
167	8.300	850.69	817.68	813.79	813.07	813.01	803.17
168	8.350	849.69	817.10	813.53	812.80	812.74	802.95
169	8.400	848.71	816.55	813.27	812.52	812.46	802.72
170	8.450	847.75	816.03	813.01	812.24	812.18	802.48
171	8.500	846.80	815.54	812.73	811.96	811.90	802.24
172	8.550	845.87	815.07	812.45	811.67	811.61	802.00
173	8.600	844.96	814.63	812.17	811.38	811.32	801.76
174	8.650	844.06	814.20	811.89	811.09	811.03	801.51
175	8.700	843.18	813.80	811.61	810.80	810.74	801.26
176	8.750	842.31	813.42	811.32	810.51	810.45	801.01
177	8.800	841.46	813.05	811.04	810.22	810.16	800.76
178	8.850	840.63	812.69	810.76	809.93	809.87	800.50
179	8.900	839.81	812.35	810.47	809.64	809.58	800.25
180	8.950	839.00	812.01	810.19	809.35	809.29	799.99
181	9.000	838.21	811.69	809.91	809.06	809.00	799.73
182	9.050	837.44	811.37	809.62	808.77	808.71	799.47
183	9.100	836.68	811.06	809.34	808.48	808.43	799.22
184	9.150	835.93	810.75	809.05	808.20	808.14	798.96
185	9.200	835.20	810.45	808.77	807.91	807.85	798.70
186	9.250	834.48	810.14	808.49	807.62	807.56	798.44
187	9.300	833.78	809.84	808.21	807.34	807.28	798.18
188	9.350	833.09	809.54	807.92	807.05	806.99	797.92
189	9.400	832.42	809.24	807.64	806.77	806.71	797.66
190	9.450	831.76	808.94	807.36	806.48	806.43	797.40
191	9.500	831.11	808.64	807.07	806.19	806.13	797.14
192	9.550	830.48	808.33	806.78	805.90	805.84	796.87
193	9.600	829.86	808.03	806.49	805.61	805.55	796.61
194	9.650	829.25	807.73	806.20	805.32	805.26	796.35
195	9.700	828.66	807.42	805.92	805.03	804.98	796.09
196	9.750	828.08	807.12	805.63	804.75	804.69	795.83
197	9.800	827.51	806.81	805.35	804.46	804.41	795.57
198	9.850	826.95	806.51	805.06	804.18	804.12	795.31
199	9.900	826.41	806.20	804.78	803.89	803.84	795.05
200	9.950	825.88	805.89	804.49	803.61	803.55	794.79
201	10.000	825.37	805.58	804.21	803.32	803.26	794.53
202	10.050	824.86	805.28	803.92	803.03	802.98	794.27
203	10.100	824.37	804.97	803.63	802.74	802.69	794.01
204	10.150	823.89	804.66	803.34	802.45	802.40	793.75
205	10.200	823.42	804.34	803.06	802.17	802.11	793.48
206	10.250	822.96	804.03	802.77	801.88	801.82	793.22
207	10.300	822.52	803.71	802.48	801.59	801.53	792.96
208	10.350	822.09	803.39	802.19	801.30	801.24	792.70
209	10.400	821.67	803.08	801.91	801.01	800.95	792.44
210	10.450	821.25	802.76	801.62	800.72	800.67	792.18
211	10.500	820.86	802.45	801.33	800.43	800.38	791.91
212	10.550	820.47	802.14	801.05	800.15	800.09	791.65
213	10.600	820.09	801.83	800.76	799.86	799.80	791.39
214	10.650	819.72	801.52	800.48	799.57	799.51	791.13
215	10.700	819.37	801.21	800.19	799.28	799.23	790.86
216	10.750	819.03	800.90	799.90	798.99	798.94	790.60
217	10.800	818.70	800.59	799.62	798.71	798.65	790.34
218	10.850	818.39	800.29	799.33	798.42	798.36	790.07
219	10.900	818.08	799.98	799.05	798.13	798.07	789.81
220	10.950	817.79	799.68	798.76	797.84	797.79	789.55
221	11.000	817.50	799.38	798.48	797.55	797.50	789.28
222	11.050	817.23	799.09	798.19	797.27	797.21	789.02
223	11.100	816.97	798.79	797.91	796.98	796.92	788.76
224	11.150	816.72	798.50	797.62	796.70	796.64	788.49
225	11.200	816.47	798.21	797.34	796.41	796.35	788.23
226	11.250	816.24	797.93	797.05	796.12	796.06	787.96
227	11.300	816.02	797.64	796.74	795.82	795.76	787.69
228	11.350	815.80	797.36	796.46	795.54	795.48	787.42
229	11.400	815.59	797.08	796.19	795.29	795.25	787.09
230	11.450	815.39	796.80	795.96	795.11	795.07	786.69
231	11.500	815.20	796.52	795.72	794.88	794.83	786.32
232	11.550	815.02	796.24	795.43	794.58	794.53	786.00
233	11.600	814.84	795.96	795.15	794.30	794.24	785.69

234	11.650	814.68	795.68	794.86	794.01	793.96	785.37
235	11.700	814.51	795.41	794.58	793.72	793.67	785.06
236	11.750	814.36	795.13	794.30	793.43	793.38	784.75
237	11.800	814.21	794.86	794.01	793.15	793.10	784.44
238	11.850	814.07	794.58	793.74	792.87	792.82	784.13
239	11.900	813.94	794.30	793.46	792.59	792.54	783.83
240	11.950	813.81	794.03	793.19	792.32	792.27	783.53
241	12.000	813.68	793.75	792.92	792.05	792.00	783.23
242	12.050	813.57	793.48	792.66	791.78	791.73	782.94
243	12.100	813.46	793.22	792.39	791.51	791.46	782.65
244	12.150	813.35	792.97	792.07	791.19	791.14	782.36
245	12.200	813.25	792.72	791.78	790.91	790.86	782.07
246	12.250	813.15	792.47	791.49	790.62	790.56	781.79
247	12.300	813.06	792.21	791.20	790.33	790.27	781.51
248	12.350	812.98	791.94	790.91	790.04	789.98	781.23
249	12.400	812.90	791.67	790.63	789.75	789.70	780.96
250	12.450	812.82	791.39	790.34	789.46	789.41	780.68
251	12.500	812.75	791.12	790.06	789.18	789.12	780.41
252	12.550	812.68	790.85	789.77	788.89	788.83	780.14
253	12.600	812.62	790.58	789.48	788.60	788.55	779.87
254	12.650	812.56	790.31	789.20	788.31	788.26	779.60
255	12.700	812.50	790.03	788.91	788.02	787.97	779.34
256	12.750	812.45	789.76	788.62	787.73	787.68	779.07
257	12.800	812.40	789.47	788.34	787.44	787.39	778.81
258	12.850	812.36	789.18	788.05	787.16	787.10	778.55
259	12.900	812.32	788.88	787.77	786.87	786.82	778.29
260	12.950	812.28	788.59	787.49	786.59	786.53	778.03
261	13.000	812.24	788.29	787.21	786.30	786.25	777.78
262	13.050	812.21	787.99	786.92	786.02	785.96	777.52
263	13.100	812.19	787.69	786.64	785.73	785.67	777.27
264	13.150	812.16	787.40	786.36	785.45	785.39	777.01
265	13.200	812.14	787.11	786.08	785.16	785.11	776.76
266	13.250	812.12	786.82	785.80	784.88	784.82	776.51
267	13.300	812.10	786.53	785.52	784.60	784.54	776.26
268	13.350	812.09	786.24	785.24	784.31	784.26	776.02
269	13.400	812.08	785.95	784.96	784.03	783.97	775.77
270	13.450	812.07	785.66	784.68	783.75	783.69	775.52
271	13.500	812.06	785.37	784.40	783.46	783.40	775.28
272	13.550	812.06	785.09	784.12	783.18	783.12	775.03
273	13.600	812.05	784.81	783.83	782.89	782.83	774.79
274	13.650	812.06	784.52	783.55	782.61	782.55	774.54
275	13.700	812.06	784.25	783.28	782.32	782.27	774.30
276	13.750	812.06	783.97	783.00	782.04	781.98	774.06
277	13.800	812.07	783.70	782.72	781.76	781.70	773.82
278	13.850	812.08	783.43	782.44	781.48	781.42	773.58
279	13.900	812.09	783.15	782.16	781.20	781.14	773.34
280	13.950	812.10	782.88	781.89	780.92	780.86	773.10
281	14.000	812.11	782.61	781.61	780.64	780.58	772.87
282	14.050	812.13	782.34	781.34	780.36	780.30	772.63
283	14.100	812.14	782.08	781.06	780.08	780.02	772.39
284	14.150	812.15	781.81	780.79	779.81	779.75	772.16
285	14.200	812.17	781.54	780.52	779.53	779.47	771.92
286	14.250	812.18	781.28	780.24	779.25	779.19	771.69
287	14.300	812.19	781.01	779.97	778.98	778.92	771.46
288	14.350	812.20	780.75	779.70	778.70	778.64	771.22
289	14.400	812.22	780.48	779.43	778.43	778.37	770.99
290	14.450	812.23	780.22	779.16	778.16	778.10	770.76
291	14.500	812.24	779.95	778.90	777.89	777.82	770.53
292	14.550	812.25	779.69	778.63	777.61	777.55	770.30
293	14.600	812.26	779.42	778.36	777.34	777.28	770.07
294	14.650	812.27	779.16	778.09	777.07	777.01	769.85
295	14.700	812.28	778.90	777.83	776.80	776.74	769.62
296	14.750	812.29	778.63	777.56	776.54	776.47	769.39
297	14.775	812.29	778.50	777.42	776.40	776.34	769.26
298	14.788	812.29	778.44	777.40	776.38	776.32	769.13
299	14.800	812.30	778.37	777.37	776.35	776.29	768.99
300	14.850	812.31	778.11	777.09	776.07	776.01	768.85
301	14.875	812.31	777.98	776.98	776.00	775.94	768.72
302	14.900	812.31	777.85	776.84	775.86	775.80	768.59
303	14.950	812.32	777.59	776.53	775.55	775.49	768.46
304	15.000	812.33	777.33	776.28	775.30	775.24	768.33
305	15.050	812.34	777.07	776.01	775.03	774.97	768.20
306	15.100	812.34	776.81	775.75	774.77	774.71	768.07
307	15.150	812.35	776.54	775.48	774.50	774.44	767.94
308	15.200	812.36	776.28	775.22	774.24	774.18	767.81
309	15.250	812.37	775.98	774.92	773.94	773.88	767.68
310	15.300	812.37	775.64	774.58	773.60	773.54	767.55
311	15.350	812.38	775.22	774.16	773.18	773.12	767.42
312	15.400	812.38	774.69	773.63	772.65	772.59	767.29
313	15.450	812.39	774.03	773.07	772.09	772.03	767.16
314	15.500	812.40	773.28	772.32	771.34	771.28	767.03
315	15.550	812.40	772.48	771.52	770.54	770.48	766.90
316	15.600	812.41	771.71	770.75	769.77	769.71	766.77
317	15.650	812.41	771.04	770.08	769.10	769.04	766.64
318	15.700	812.42	770.51	769.55	768.57	768.51	766.51
319	15.750	812.42	770.13	769.17	768.19	768.13	766.38
320	15.800	812.43	769.83	768.87	767.89	767.83	766.25
321	15.850	812.43	769.55	768.59	767.61	767.55	766.12
322	15.900	812.44	769.27	768.31	767.33	767.27	765.99
323	15.950	812.44	769.00	768.04	767.06	767.00	765.86
324	16.000	812.44	768.72	767.76	766.78	766.72	765.73
325	16.050	812.45	768.41	767.45	766.47	766.41	765.60
326	16.100	812.45	768.10	767.14	766.16	766.10	765.47
327	16.150	812.46	767.79	766.83	765.85	765.79	765.34
328	16.200	812.46	767.51	766.55	765.57	765.51	765.21

329	16.250	812.46	767.25	766.25	765.49	765.44	757.12
330	16.300	812.47	767.02	765.94	765.17	765.12	756.81
331	16.350	812.47	766.80	765.64	764.86	764.81	756.50
332	16.400	812.47	766.59	765.34	764.57	764.52	756.19
333	16.450	812.48	766.40	765.06	764.28	764.23	755.89
334	16.500	812.48	766.20	764.78	764.00	763.95	755.59
335	16.550	812.48	765.99	764.50	763.72	763.67	755.29
336	16.600	812.48	765.78	764.22	763.44	763.39	754.99
337	16.650	812.49	765.55	763.93	763.15	763.10	754.70
338	16.700	812.49	765.31	763.65	762.86	762.81	754.41
339	16.750	812.49	765.07	763.36	762.58	762.53	754.12
340	16.800	812.50	764.82	763.08	762.29	762.24	753.84
341	16.850	812.50	764.56	762.80	762.01	761.96	753.56
342	16.900	812.50	764.31	762.52	761.73	761.68	753.28
343	16.950	812.50	764.06	762.25	761.45	761.40	753.00
344	17.000	812.50	763.81	761.98	761.18	761.13	752.73
345	17.050	812.51	763.55	761.71	760.91	760.86	752.45
346	17.100	812.51	763.29	761.44	760.64	760.58	752.18
347	17.150	812.51	763.03	761.17	760.36	760.31	751.92
348	17.200	812.51	762.76	760.90	760.09	760.04	751.65
349	17.250	812.51	762.49	760.63	759.82	759.77	751.39
350	17.300	812.52	762.22	760.36	759.55	759.50	751.13
351	17.350	812.52	761.95	760.09	759.28	759.23	750.87
352	17.400	812.52	761.68	759.82	759.00	758.95	750.61
353	17.450	812.52	761.41	759.55	758.73	758.68	750.36
354	17.500	812.52	761.14	759.28	758.46	758.41	750.11
355	17.550	812.52	760.87	759.01	758.19	758.13	749.85
356	17.600	812.53	760.61	758.74	757.92	757.86	749.60
357	17.650	812.53	760.34	758.48	757.65	757.59	749.35
358	17.700	812.53	760.08	758.21	757.38	757.33	749.11
359	17.750	812.53	759.83	757.95	757.11	757.06	748.86
360	17.800	812.53	759.57	757.68	756.85	756.79	748.62
361	17.850	812.53	759.31	757.42	756.58	756.53	748.38
362	17.900	812.53	759.06	757.16	756.32	756.26	748.14
363	17.950	812.54	758.81	756.90	756.05	756.00	747.90
364	18.000	812.54	758.57	756.64	755.79	755.73	747.66
365	18.050	812.54	758.32	756.38	755.52	755.47	747.42
366	18.100	812.54	758.08	756.12	755.26	755.21	747.19
367	18.150	812.54	757.84	755.86	755.00	754.95	746.96
368	18.200	812.54	757.60	755.60	754.74	754.69	746.72
369	18.250	812.54	757.37	755.34	754.48	754.43	746.49
370	18.300	812.54	757.14	755.09	754.22	754.17	746.26
371	18.350	812.54	756.90	754.83	753.97	753.91	746.03
372	18.400	812.54	756.67	754.58	753.71	753.66	745.81
373	18.450	812.55	756.45	754.32	753.45	753.40	745.58
374	18.500	812.55	756.22	754.07	753.20	753.15	745.36
375	18.550	812.55	755.99	753.82	752.95	752.89	745.14
376	18.600	812.55	755.77	753.57	752.69	752.64	744.92
377	18.650	812.55	755.55	753.32	752.44	752.39	744.70
378	18.700	812.55	755.33	753.07	752.19	752.14	744.48
379	18.750	812.55	755.11	752.82	751.94	751.89	744.26
380	18.800	812.55	754.89	752.57	751.69	751.64	744.04
381	18.850	812.55	754.68	752.33	751.44	751.39	743.83
382	18.900	812.55	754.47	752.08	751.19	751.14	743.61
383	18.950	812.55	754.25	751.84	750.95	750.89	743.40
384	19.000	812.55	754.04	751.59	750.70	750.65	743.19
385	19.050	812.55	753.84	751.35	750.45	750.40	742.98
386	19.100	812.55	753.63	751.11	750.21	750.16	742.77
387	19.150	812.55	753.43	750.86	749.97	749.91	742.56
388	19.200	812.56	753.23	750.62	749.72	749.67	742.35
389	19.250	812.56	753.03	750.38	749.48	749.43	742.15
390	19.300	812.56	752.83	750.14	749.24	749.19	741.94
391	19.350	812.56	752.64	749.90	749.00	748.95	741.74
392	19.400	812.56	752.44	749.66	748.76	748.71	741.53
393	19.450	812.56	752.26	749.43	748.52	748.47	741.33
394	19.500	812.56	752.07	749.19	748.28	748.23	741.12
395	19.550	812.56	751.89	748.95	748.04	747.99	740.92
396	19.600	812.56	751.71	748.72	747.80	747.75	740.72
397	19.650	812.56	751.53	748.48	747.57	747.52	740.52
398	19.700	812.56	751.36	748.25	747.33	747.28	740.32
399	19.750	812.56	751.19	748.01	747.10	747.04	740.12
400	19.800	812.56	751.02	747.78	746.86	746.81	739.92
401	19.850	812.56	750.86	747.55	746.63	746.58	739.73
402	19.900	812.56	750.70	747.32	746.40	746.34	739.53
403	19.950	812.56	750.54	747.09	746.16	746.11	739.33
404	20.000	812.56	750.39	746.86	745.93	745.88	739.14
405	20.050	812.56	750.24	746.63	745.70	745.65	738.94
406	20.100	812.56	750.10	746.40	745.47	745.42	738.75
407	20.150	812.56	749.96	746.17	745.24	745.19	738.55
408	20.200	812.56	749.83	745.94	745.01	744.96	738.36
409	20.250	812.56	749.69	745.72	744.79	744.73	738.17
410	20.300	812.56	749.57	745.49	744.56	744.51	737.97
411	20.350	812.56	749.45	745.26	744.33	744.28	737.78
412	20.400	812.56	749.33	745.04	744.11	744.06	737.59
413	20.450	812.56	749.21	744.82	743.88	743.83	737.40
414	20.500	812.56	749.11	744.59	743.66	743.61	737.21
415	20.550	812.56	749.00	744.37	743.43	743.38	737.03
416	20.600	812.57	748.90	744.15	743.21	743.16	736.84
417	20.650	812.57	748.81	743.93	742.99	742.94	736.65
418	20.700	812.57	748.72	743.70	742.77	742.72	736.46
419	20.750	812.57	748.63	743.48	742.55	742.50	736.28
420	20.800	812.57	748.55	743.26	742.33	742.28	736.09
421	20.850	812.57	748.47	743.05	742.11	742.06	735.91
422	20.900	812.57	748.40	742.83	741.89	741.84	735.72
423	20.950	812.57	748.33	742.61	741.67	741.62	735.53

424	21.000	812.57	748.26	742.39	741.45	741.40	735.35
425	21.050	812.57	748.20	742.18	741.24	741.19	735.17
426	21.100	812.57	748.14	741.96	741.02	740.97	734.98
427	21.150	812.57	748.09	741.74	740.80	740.75	734.80
428	21.200	812.57	748.04	741.53	740.59	740.54	734.62
429	21.250	812.57	747.99	741.32	740.37	740.33	734.43
430	21.300	812.57	747.95	741.10	740.16	740.11	734.25
431	21.350	812.57	747.90	740.89	739.95	739.90	734.07
432	21.400	812.57	747.87	740.68	739.73	739.69	733.89
433	21.450	812.57	747.83	740.46	739.52	739.47	733.71
434	21.500	812.57	747.80	740.25	739.31	739.26	733.53
435	21.550	812.57	747.77	740.04	739.10	739.05	733.35
436	21.600	812.57	747.74	739.83	738.89	738.84	733.17
437	21.650	812.57	747.71	739.62	738.68	738.63	732.99
438	21.700	812.57	747.69	739.41	738.47	738.42	732.81
439	21.750	812.57	747.66	739.20	738.26	738.21	732.63
440	21.800	812.57	747.64	739.00	738.05	738.00	732.46
441	21.850	812.57	747.62	738.79	737.84	737.79	732.28
442	21.900	812.57	747.61	738.58	737.64	737.59	732.10
443	21.950	812.57	747.59	738.37	737.43	737.38	731.92
444	22.000	812.57	747.57	738.16	737.22	737.17	731.75
445	22.050	812.57	747.56	737.96	737.01	736.96	731.57
446	22.100	812.57	747.55	737.75	736.81	736.76	731.39
447	22.150	812.57	747.54	737.55	736.60	736.55	731.22
448	22.200	812.57	747.53	737.34	736.40	736.35	731.04
449	22.250	812.57	747.52	737.13	736.19	736.14	730.86
450	22.300	812.57	747.51	736.93	735.99	735.94	730.69
451	22.350	812.57	747.50	736.73	735.78	735.73	730.51
452	22.400	812.57	747.49	736.52	735.58	735.53	730.34
453	22.450	812.57	747.48	736.32	735.38	735.33	730.16
454	22.500	812.57	747.47	736.12	735.17	735.12	729.99
455	22.550	812.57	747.47	735.91	734.97	734.92	729.81
456	22.600	812.57	747.46	735.71	734.77	734.72	729.64
457	22.650	812.57	747.46	735.51	734.57	734.51	729.46
458	22.700	812.57	747.45	735.30	734.36	734.31	729.29
459	22.750	812.57	747.45	735.10	734.16	734.11	729.12
460	22.800	812.57	747.45	734.90	733.96	733.91	728.94
461	22.850	812.57	747.44	734.70	733.76	733.71	728.77
462	22.900	812.57	747.44	734.49	733.56	733.50	728.59
463	22.950	812.57	747.44	734.29	733.35	733.30	728.42
464	23.000	812.57	747.43	734.09	733.15	733.10	728.24
465	23.050	812.57	747.43	733.88	732.95	732.90	728.07
466	23.100	812.57	747.43	733.68	732.75	732.69	727.89
467	23.150	812.57	747.43	733.47	732.54	732.49	727.72
468	23.200	812.57	747.42	733.27	732.34	732.29	727.54
469	23.250	812.57	747.42	733.06	732.13	732.08	727.37
470	23.300	812.57	747.42	732.86	731.93	731.88	727.19
471	23.350	812.57	747.42	732.65	731.72	731.67	727.02
472	23.400	812.57	747.42	732.44	731.52	731.46	726.84
473	23.450	812.57	747.41	732.23	731.31	731.26	726.66
474	23.500	812.57	747.41	732.02	731.10	731.05	726.48
475	23.550	812.57	747.41	731.81	730.89	730.84	726.31
476	23.600	812.57	747.41	731.60	730.68	730.63	726.13
477	23.650	812.57	747.41	731.38	730.47	730.42	725.95
478	23.700	812.57	747.41	731.17	730.26	730.20	725.77
479	23.750	812.57	747.41	730.95	730.04	729.99	725.59
480	23.800	812.57	747.41	730.73	729.83	729.77	725.40
481	23.850	812.57	747.40	730.51	729.61	729.55	725.22
482	23.900	812.57	747.40	730.28	729.39	729.33	725.03
483	23.950	812.57	747.40	730.05	729.16	729.11	724.85
484	24.000	812.57	747.40	729.83	728.94	728.89	724.66
485	24.050	812.57	747.40	729.60	728.72	728.66	724.47
486	24.100	812.57	747.40	729.37	728.49	728.43	724.28
487	24.150	812.57	747.40	729.13	728.26	728.20	724.09
488	24.200	812.57	747.40	728.90	728.03	727.97	723.90
489	24.250	812.57	747.40	728.66	727.80	727.74	723.70
490	24.300	812.57	747.40	728.42	727.57	727.51	723.51
491	24.350	812.57	747.40	728.19	727.33	727.28	723.31
492	24.400	812.57	747.40	727.95	727.10	727.04	723.11
493	24.450	812.57	747.40	727.70	726.86	726.80	722.91
494	24.500	812.57	747.40	727.46	726.62	726.56	722.70
495	24.550	812.57	747.40	727.22	726.38	726.32	722.50
496	24.600	812.57	747.40	726.97	726.14	726.08	722.29
497	24.650	812.57	747.40	726.72	725.89	725.83	722.08
498	24.700	812.57	747.40	726.47	725.65	725.59	721.86
499	24.750	812.57	747.40	726.22	725.40	725.34	721.65
500	24.800	812.57	747.40	725.97	725.15	725.09	721.43
501	24.850	812.57	747.39	725.72	724.91	724.85	721.21
502	24.900	812.57	747.39	725.47	724.66	724.60	720.98
503	24.950	812.57	747.39	725.21	724.41	724.35	720.76
504	25.000	812.57	747.39	724.96	724.16	724.10	720.53
505	25.050	812.57	747.39	724.71	723.91	723.85	720.29
506	25.100	812.57	747.39	724.45	723.65	723.59	720.06
507	25.150	812.57	747.39	724.20	723.40	723.34	719.84
508	25.200	812.57	747.39	723.94	723.15	723.09	719.61
509	25.250	812.57	747.39	723.69	722.90	722.84	719.38
510	25.300	812.57	747.39	723.43	722.65	722.58	719.15
511	25.350	812.57	747.39	723.17	722.39	722.33	718.92
512	25.400	812.57	747.39	722.91	722.14	722.07	718.69
513	25.450	812.57	747.39	722.65	721.88	721.82	718.46
514	25.500	812.57	747.38	722.40	721.63	721.56	718.22
515	25.550	812.57	747.39	722.14	721.37	721.31	717.99
516	25.600	812.57	747.39	721.88	721.12	721.05	717.75
517	25.650	812.57	747.39	721.62	720.86	720.80	717.51
518	25.700	812.57	747.39	721.36	720.61	720.54	717.27

519	25.750	812.57	747.39	721.11	720.35	720.29	717.03
520	25.800	812.57	747.39	720.85	720.10	720.03	716.79
521	25.850	812.57	747.39	720.59	719.84	719.78	716.55
522	25.900	812.57	747.39	720.33	719.59	719.52	716.30
523	25.950	812.57	747.39	720.08	719.33	719.27	716.06
524	26.000	812.57	747.39	719.82	719.08	719.01	715.81
525	26.050	812.57	747.39	719.56	718.82	718.76	715.56
526	26.100	812.57	747.39	719.30	718.57	718.50	715.31
527	26.150	812.57	747.39	719.05	718.32	718.25	715.06
528	26.200	812.57	747.39	718.79	718.06	718.00	714.81
529	26.250	812.57	747.39	718.54	717.81	717.74	714.55
530	26.300	812.57	747.39	718.28	717.56	717.49	714.30
531	26.350	812.57	747.39	718.03	717.30	717.24	714.04
532	26.400	812.57	747.39	717.77	717.05	716.99	713.78
533	26.450	812.57	747.39	717.52	716.80	716.74	713.52
534	26.500	812.57	747.39	717.27	716.55	716.48	713.26
535	26.550	812.57	747.39	717.01	716.30	716.24	713.00
536	26.600	812.57	747.39	716.76	716.05	715.99	712.74
537	26.650	812.57	747.39	716.51	715.80	715.74	712.47
538	26.700	812.57	747.39	716.26	715.55	715.49	712.20
539	26.750	812.57	747.39	716.01	715.30	715.24	711.94
540	26.800	812.57	747.39	715.76	715.06	714.99	711.67
541	26.850	812.57	747.39	715.51	714.81	714.74	711.40
542	26.900	812.57	747.39	715.26	714.56	714.49	711.12
543	26.950	812.57	747.39	715.01	714.32	714.25	710.85
544	27.000	812.57	747.39	714.76	714.07	714.00	710.57
545	27.050	812.57	747.39	714.52	713.83	713.76	710.30
546	27.100	812.57	747.39	714.27	713.58	713.51	710.02
547	27.150	812.57	747.39	714.03	713.34	713.27	709.74
548	27.200	812.57	747.39	713.78	713.10	713.03	709.46
549	27.250	812.57	747.39	713.54	712.86	712.79	709.18
550	27.300	812.57	747.39	713.30	712.62	712.55	708.89
551	27.350	812.57	747.39	713.06	712.38	712.31	708.61
552	27.400	812.57	747.39	712.82	712.14	712.07	708.33
553	27.450	812.57	747.39	712.58	711.90	711.83	708.04
554	27.500	812.57	747.39	712.34	711.67	711.60	707.75
555	27.550	812.57	747.39	712.10	711.43	711.36	707.46
556	27.600	812.57	747.39	711.86	711.20	711.13	707.17
557	27.650	812.57	747.39	711.63	710.96	710.89	706.88
558	27.700	812.57	747.39	711.39	710.73	710.66	706.59
559	27.750	812.57	747.39	711.16	710.50	710.43	706.30
560	27.800	812.57	747.39	710.93	710.27	710.20	706.01
561	27.850	812.57	747.39	710.69	710.04	709.97	705.71
562	27.900	812.57	747.39	710.46	709.81	709.74	705.42
563	27.950	812.57	747.39	710.24	709.58	709.51	705.13
564	28.000	812.57	747.39	710.01	709.36	709.29	704.84
565	28.050	812.57	747.39	709.78	709.13	709.06	704.54
566	28.100	812.57	747.39	709.56	708.91	708.84	704.25
567	28.150	812.57	747.39	709.33	708.69	708.62	703.96
568	28.200	812.57	747.39	709.11	708.47	708.40	703.67
569	28.250	812.57	747.39	708.89	708.25	708.18	703.38
570	28.300	812.57	747.39	708.67	708.03	707.96	703.10
571	28.350	812.57	747.39	708.45	707.81	707.74	702.81
572	28.400	812.57	747.39	708.23	707.59	707.52	702.53
573	28.450	812.57	747.39	708.01	707.38	707.31	702.25
574	28.500	812.57	747.39	707.80	707.17	707.09	701.98
575	28.550	812.57	747.39	707.58	706.95	706.88	701.71
576	28.600	812.57	747.39	707.37	706.74	706.67	701.44
577	28.650	812.57	747.39	707.16	706.53	706.46	701.18
578	28.700	812.57	747.39	706.95	706.32	706.25	700.92
579	28.750	812.57	747.39	706.74	706.12	706.05	700.66
580	28.800	812.57	747.39	706.53	705.91	705.84	700.41
581	28.850	812.57	747.39	706.32	705.71	705.64	700.16
582	28.900	812.57	747.39	706.12	705.51	705.43	699.91
583	28.950	812.57	747.39	705.92	705.31	705.24	699.66
584	29.000	812.57	747.39	705.72	705.11	705.04	699.42
585	29.050	812.57	747.39	705.52	704.92	704.84	699.18
586	29.100	812.57	747.39	705.33	704.72	704.65	698.94
587	29.150	812.57	747.39	705.13	704.53	704.46	698.71
588	29.200	812.57	747.39	704.94	704.34	704.27	698.47
589	29.250	812.57	747.39	704.75	704.15	704.08	698.24
590	29.300	812.57	747.39	704.56	703.96	703.89	698.01
591	29.350	812.57	747.39	704.37	703.78	703.70	697.79
592	29.400	812.57	747.39	704.18	703.59	703.52	697.56
593	29.450	812.57	747.39	704.00	703.41	703.33	697.34
594	29.500	812.57	747.39	703.81	703.23	703.15	697.12
595	29.550	812.57	747.39	703.63	703.04	702.97	696.90
596	29.600	812.57	747.39	703.45	702.87	702.79	696.68
597	29.650	812.57	747.39	703.27	702.69	702.61	696.46
598	29.700	812.57	747.39	703.09	702.51	702.44	696.23
599	29.750	812.57	747.39	702.92	702.34	702.26	696.03
600	29.800	812.57	747.39	702.74	702.16	702.09	695.82
601	29.850	812.57	747.39	702.57	701.99	701.92	695.61
602	29.900	812.57	747.39	702.39	701.82	701.75	695.41
603	29.950	812.57	747.39	702.22	701.65	701.58	695.20
604	30.000	812.57	747.39	702.05	701.49	701.41	694.99
605	30.050	812.57	747.39	701.89	701.32	701.25	694.79
606	30.100	812.57	747.39	701.72	701.15	701.08	694.59
607	30.150	812.57	747.39	701.55	700.99	700.92	694.39
608	30.200	812.57	747.39	701.39	700.83	700.76	694.19
609	30.250	812.57	747.39	701.23	700.67	700.60	693.99
610	30.300	812.57	747.39	701.07	700.51	700.44	693.80
611	30.350	812.57	747.39	700.91	700.35	700.28	693.60
612	30.400	812.57	747.39	700.75	700.20	700.12	693.41
613	30.450	812.57	747.39	700.59	700.04	699.97	693.21

614	30.500	812.57	747.39	700.44	699.89	699.81	693.02
615	30.550	812.57	747.39	700.29	699.74	699.66	692.83
616	30.600	812.57	747.39	700.13	699.58	699.51	692.64
617	30.650	812.57	747.39	699.98	699.44	699.36	692.46
618	30.700	812.57	747.39	699.83	699.29	699.21	692.27
619	30.750	812.57	747.39	699.68	699.14	699.07	692.08
620	30.800	812.57	747.39	699.53	699.00	698.92	691.90
621	30.850	812.57	747.39	699.39	698.85	698.78	691.72
622	30.900	812.57	747.39	699.24	698.71	698.64	691.54
623	30.950	812.57	747.39	699.10	698.57	698.50	691.35
624	31.000	812.57	747.39	698.96	698.43	698.36	691.16
625	31.050	812.57	747.39	698.82	698.29	698.22	691.00
626	31.100	812.57	747.39	698.68	698.15	698.08	690.82
627	31.150	812.57	747.39	698.54	698.02	697.94	690.65
628	31.200	812.57	747.39	698.40	697.88	697.81	690.47
629	31.250	812.57	747.39	698.27	697.75	697.68	690.30
630	31.300	812.57	747.39	698.13	697.62	697.55	690.13
631	31.350	812.57	747.39	698.00	697.49	697.42	689.95
632	31.400	812.57	747.39	697.87	697.36	697.29	689.78
633	31.450	812.57	747.39	697.74	697.23	697.16	689.62
634	31.500	812.57	747.39	697.61	697.10	697.03	689.45
635	31.550	812.57	747.39	697.48	696.98	696.91	689.28
636	31.600	812.57	747.39	697.36	696.86	696.78	689.12
637	31.650	812.57	747.39	697.23	696.73	696.66	688.96
638	31.700	812.57	747.39	697.11	696.61	696.54	688.80
639	31.750	812.57	747.39	696.99	696.49	696.42	688.64
640	31.800	812.57	747.39	696.87	696.37	696.30	688.48
641	31.850	812.57	747.39	696.75	696.26	696.18	688.32
642	31.900	812.57	747.39	696.63	696.14	696.07	688.17
643	31.950	812.57	747.39	696.51	696.02	695.95	688.01
644	32.000	812.57	747.39	696.40	695.91	695.84	687.86
645	32.050	812.57	747.39	696.28	695.80	695.73	687.71
646	32.100	812.57	747.39	696.17	695.69	695.62	687.56
647	32.150	812.57	747.39	696.06	695.58	695.51	687.41
648	32.200	812.57	747.39	695.95	695.47	695.40	687.26
649	32.250	812.57	747.39	695.84	695.36	695.29	687.12
650	32.300	812.57	747.39	695.73	695.25	695.18	686.97
651	32.350	812.57	747.39	695.62	695.15	695.08	686.83
652	32.400	812.57	747.39	695.51	695.04	694.97	686.69
653	32.450	812.57	747.39	695.41	694.94	694.87	686.55
654	32.500	812.57	747.39	695.31	694.84	694.77	686.41
655	32.550	812.57	747.39	695.20	694.74	694.67	686.28
656	32.600	812.57	747.39	695.10	694.64	694.57	686.14
657	32.650	812.57	747.39	695.00	694.54	694.47	686.01
658	32.700	812.57	747.39	694.90	694.44	694.37	685.88
659	32.750	812.57	747.39	694.80	694.35	694.28	685.75
660	32.800	812.57	747.39	694.71	694.25	694.18	685.63
661	32.850	812.57	747.39	694.61	694.16	694.09	685.50
662	32.900	812.57	747.39	694.51	694.06	693.99	685.38
663	32.950	812.57	747.39	694.42	693.97	693.90	685.25
664	33.000	812.57	747.39	694.33	693.88	693.81	685.13
665	33.050	812.57	747.39	694.24	693.79	693.72	685.01
666	33.100	812.57	747.39	694.15	693.70	693.63	684.89
667	33.150	812.57	747.39	694.06	693.61	693.54	684.79
668	33.200	812.57	747.39	693.97	693.53	693.46	684.66
669	33.250	812.57	747.39	693.88	693.44	693.37	684.55
670	33.300	812.57	747.39	693.79	693.36	693.29	684.44
671	33.350	812.57	747.39	693.71	693.27	693.20	684.33
672	33.400	812.57	747.39	693.62	693.19	693.12	684.22
673	33.450	812.57	747.39	693.54	693.11	693.04	684.11
674	33.500	812.57	747.39	693.46	693.03	692.96	684.00
675	33.550	812.57	747.39	693.38	692.95	692.88	683.90
676	33.600	812.57	747.39	693.30	692.87	692.80	683.80
677	33.650	812.57	747.39	693.22	692.79	692.72	683.69
678	33.700	812.57	747.39	693.14	692.71	692.65	683.59
679	33.750	812.57	747.39	693.06	692.64	692.57	683.50
680	33.800	812.57	747.39	692.98	692.56	692.50	683.40
681	33.850	812.57	747.39	692.91	692.49	692.42	683.30
682	33.900	812.57	747.39	692.83	692.42	692.35	683.30
683	33.950	812.57	747.39	692.76	692.34	692.28	683.30
684	34.000	812.57	747.39	692.68	692.27	692.20	683.30
685	34.050	812.57	747.39	692.61	692.20	692.13	683.30
686	34.100	812.57	747.39	692.54	692.13	692.06	683.30
687	34.150	812.57	747.39	692.47	692.06	692.00	683.30
688	34.200	812.57	747.39	692.40	691.99	691.93	683.30
689	34.250	812.57	747.39	692.33	691.93	691.86	683.30
690	34.300	812.57	747.39	692.26	691.86	691.79	683.30
691	34.350	812.57	747.39	692.20	691.80	691.73	683.30
692	34.400	812.57	747.39	692.13	691.73	691.66	683.30
693	34.450	812.57	747.39	692.06	691.67	691.60	683.30
694	34.500	812.57	747.39	692.00	691.60	691.54	683.30
695	34.550	812.57	747.39	691.94	691.54	691.48	683.30
696	34.600	812.57	747.39	691.87	691.48	691.41	683.30
697	34.650	812.57	747.39	691.81	691.42	691.35	683.30
698	34.700	812.57	747.39	691.75	691.36	691.29	683.30
699	34.750	812.57	747.39	691.69	691.30	691.23	683.30
700	34.800	812.57	747.39	691.63	691.24	691.18	683.30
701	34.850	812.57	747.39	691.57	691.18	691.12	683.30
702	34.900	812.57	747.39	691.51	691.13	691.06	683.30
703	34.950	812.57	747.39	691.45	691.07	691.01	683.30
704	35.000	812.57	747.39	691.39	691.02	690.95	683.30
705	35.050	812.57	747.39	691.34	690.96	690.90	683.30
706	35.100	812.57	747.39	691.28	690.91	690.84	683.30
707	35.150	812.57	747.39	691.23	690.85	690.79	683.30
708	35.200	812.57	747.39	691.17	690.80	690.74	683.30

709	35.250	812.57	747.39	691.12	690.75	690.68	683.30
710	35.300	812.57	747.39	691.07	690.70	690.63	683.30
711	35.350	812.57	747.39	691.01	690.65	690.58	683.30
712	35.400	812.57	747.39	690.96	690.60	690.53	683.30
713	35.450	812.57	747.39	690.91	690.55	690.48	683.30
714	35.500	812.57	747.39	690.86	690.50	690.43	683.30
715	35.550	812.57	747.39	690.81	690.45	690.38	683.30
716	35.600	812.57	747.39	690.76	690.40	690.34	683.30
717	35.650	812.57	747.39	690.71	690.35	690.29	683.30
718	35.700	812.57	747.39	690.67	690.31	690.24	683.30
719	35.750	812.57	747.39	690.62	690.26	690.20	683.30
720	35.800	812.57	747.39	690.57	690.22	690.15	683.30
721	35.850	812.57	747.39	690.52	690.17	690.11	683.30
722	35.900	812.57	747.39	690.48	690.13	690.06	683.30
723	35.950	812.57	747.39	690.43	690.08	690.02	683.30
724	36.000	812.57	747.39	690.39	690.04	689.98	683.30
725	36.050	812.57	747.39	690.35	690.00	689.93	683.30
726	36.100	812.57	747.39	690.30	689.95	689.89	683.30
727	36.150	812.57	747.39	690.26	689.91	689.85	683.30
728	36.200	812.57	747.39	690.22	689.87	689.81	683.30
729	36.250	812.57	747.39	690.17	689.83	689.77	683.30
730	36.300	812.57	747.39	690.13	689.79	689.73	683.30
731	36.350	812.57	747.39	690.09	689.75	689.69	683.30
732	36.400	812.57	747.39	690.05	689.71	689.65	683.30
733	36.450	812.57	747.39	690.01	689.67	689.61	683.30
734	36.500	812.57	747.39	689.97	689.64	689.57	683.30
735	36.550	812.57	747.39	689.93	689.60	689.54	683.30
736	36.600	812.57	747.39	689.89	689.56	689.50	683.30
737	36.650	812.57	747.39	689.86	689.52	689.46	683.30
738	36.700	812.57	747.39	689.82	689.49	689.43	683.30
739	36.750	812.57	747.39	689.78	689.45	689.39	683.30
740	36.800	812.57	747.39	689.75	689.42	689.35	683.30
741	36.850	812.57	747.39	689.71	689.38	689.32	683.30
742	36.900	812.57	747.39	689.67	689.35	689.29	683.30
743	36.950	812.57	747.39	689.64	689.31	689.25	683.30
744	37.000	812.57	747.39	689.60	689.28	689.22	683.30
745	37.050	812.57	747.39	689.57	689.25	689.18	683.30
746	37.100	812.57	747.39	689.53	689.21	689.15	683.30
747	37.150	812.57	747.39	689.50	689.18	689.12	683.30
748	37.200	812.57	747.39	689.47	689.15	689.09	683.30
749	37.250	812.57	747.39	689.43	689.12	689.05	683.30
750	37.300	812.57	747.39	689.40	689.08	689.02	683.30
751	37.350	812.57	747.39	689.37	689.05	688.99	683.30
752	37.400	812.57	747.39	689.34	689.02	688.96	683.30
753	37.450	812.57	747.39	689.31	688.99	688.93	683.30
754	37.500	812.57	747.39	689.27	688.96	688.90	683.30
755	37.550	812.57	747.39	689.24	688.93	688.87	683.30
756	37.600	812.57	747.39	689.21	688.90	688.84	683.30
757	37.650	812.57	747.39	689.18	688.87	688.81	683.30
758	37.700	812.57	747.39	689.15	688.85	688.78	683.30
759	37.750	812.57	747.39	689.12	688.82	688.76	683.30
760	37.800	812.57	747.39	689.09	688.79	688.73	683.30
761	37.850	812.57	747.39	689.07	688.76	688.70	683.30
762	37.900	812.57	747.39	689.04	688.73	688.67	683.30
763	37.950	812.57	747.39	689.01	688.71	688.65	683.30
764	38.000	812.57	747.39	688.98	688.68	688.62	683.30
765	38.050	812.57	747.39	688.95	688.65	688.59	683.30
766	38.100	812.57	747.39	688.93	688.63	688.57	683.30
767	38.150	812.57	747.39	688.90	688.60	688.54	683.30
768	38.200	812.57	747.39	688.87	688.58	688.52	683.30
769	38.250	812.57	747.39	688.85	688.55	688.49	683.30
770	38.300	812.57	747.39	688.82	688.53	688.47	683.30
771	38.350	812.57	747.39	688.79	688.50	688.44	683.30
772	38.400	812.57	747.39	688.77	688.48	688.42	683.30
773	38.450	812.57	747.39	688.74	688.45	688.39	683.30
774	38.500	812.57	747.39	688.72	688.43	688.37	683.30
775	38.550	812.57	747.39	688.69	688.40	688.34	683.30
776	38.600	812.57	747.39	688.67	688.38	688.32	683.30
777	38.650	812.57	747.39	688.65	688.36	688.30	683.30
778	38.700	812.57	747.39	688.62	688.33	688.28	683.30
779	38.750	812.57	747.39	688.60	688.31	688.25	683.30
780	38.800	812.57	747.39	688.57	688.29	688.23	683.30
781	38.850	812.57	747.39	688.55	688.27	688.21	683.30
782	38.900	812.57	747.39	688.53	688.25	688.19	683.30
783	38.950	812.57	747.39	688.51	688.22	688.16	683.30
784	39.000	812.57	747.39	688.48	688.20	688.14	683.30
785	39.050	812.57	747.39	688.46	688.18	688.12	683.30
786	39.100	812.57	747.39	688.44	688.16	688.10	683.30
787	39.150	812.57	747.39	688.42	688.14	688.08	683.30
788	39.200	812.57	747.39	688.40	688.12	688.06	683.30
789	39.250	812.57	747.39	688.37	688.10	688.04	683.30
790	39.300	812.57	747.39	688.35	688.08	688.02	683.30
791	39.350	812.57	747.39	688.33	688.06	688.00	683.30
792	39.400	812.57	747.39	688.31	688.04	687.98	683.30
793	39.450	812.57	747.39	688.29	688.02	687.96	683.30
794	39.500	812.57	747.39	688.27	688.00	687.94	683.30
795	39.550	812.57	747.39	688.25	687.98	687.92	683.30
796	39.600	812.57	747.39	688.23	687.96	687.90	683.30
797	39.650	812.57	747.39	688.21	687.94	687.88	683.30
798	39.700	812.57	747.39	688.19	687.92	687.86	683.30
799	39.750	812.57	747.39	688.17	687.90	687.85	683.30
800	39.800	812.57	747.39	688.15	687.89	687.83	683.30
801	39.850	812.57	747.39	688.13	687.87	687.81	683.30
802	39.900	812.57	747.39	688.12	687.85	687.79	683.30
803	39.950	812.57	747.39	688.10	687.83	687.77	683.30

804	40.000	812.57	747.39	688.08	687.81	687.76	683.30
805	40.050	812.57	747.39	688.06	687.80	687.74	683.30
806	40.100	812.57	747.39	688.04	687.78	687.72	683.30
807	40.150	812.57	747.39	688.02	687.76	687.70	683.30
808	40.200	812.57	747.39	688.01	687.75	687.69	683.30
809	40.250	812.57	747.39	687.99	687.73	687.67	683.30
810	40.300	812.57	747.39	687.97	687.71	687.65	683.30
811	40.350	812.57	747.39	687.95	687.70	687.64	683.30
812	40.400	812.57	747.39	687.94	687.68	687.62	683.30
813	40.450	812.57	747.39	687.92	687.66	687.61	683.30
814	40.500	812.57	747.39	687.90	687.65	687.59	683.30
815	40.550	812.57	747.39	687.89	687.63	687.57	683.30
816	40.600	812.57	747.39	687.87	687.62	687.56	683.30
817	40.650	812.57	747.39	687.85	687.60	687.54	683.30
818	40.700	812.57	747.39	687.84	687.58	687.53	683.30
819	40.750	812.57	747.39	687.82	687.57	687.51	683.30
820	40.800	812.57	747.39	687.81	687.55	687.50	683.30
821	40.850	812.57	747.39	687.79	687.54	687.48	683.30
822	40.900	812.57	747.39	687.77	687.52	687.47	683.30
823	40.950	812.57	747.39	687.76	687.51	687.45	683.30
824	41.000	812.57	747.39	687.74	687.49	687.44	683.30
825	41.050	812.57	747.39	687.73	687.48	687.42	683.30
826	41.100	812.57	747.39	687.71	687.47	687.41	683.30
827	41.150	812.57	747.39	687.70	687.45	687.39	683.30
828	41.200	812.57	747.39	687.68	687.44	687.38	683.30
829	41.250	812.57	747.39	687.67	687.42	687.37	683.30
830	41.300	812.57	747.39	687.65	687.41	687.35	683.30
831	41.350	812.57	747.39	687.64	687.40	687.34	683.30
832	41.400	812.57	747.39	687.63	687.38	687.33	683.30
833	41.450	812.57	747.39	687.61	687.37	687.31	683.30
834	41.500	812.57	747.39	687.60	687.36	687.30	683.30
835	41.550	812.57	747.39	687.58	687.34	687.29	683.30
836	41.600	812.57	747.39	687.57	687.33	687.27	683.30
837	41.650	812.57	747.39	687.56	687.32	687.26	683.30
838	41.700	812.57	747.39	687.54	687.30	687.25	683.30
839	41.750	812.57	747.39	687.53	687.29	687.23	683.30
840	41.800	812.57	747.39	687.52	687.28	687.22	683.30
841	41.850	812.57	747.39	687.50	687.26	687.21	683.30
842	41.900	812.57	747.39	687.49	687.25	687.20	683.30
843	41.950	812.57	747.39	687.48	687.24	687.18	683.30
844	42.000	812.57	747.39	687.46	687.23	687.17	683.30
845	42.050	812.57	747.39	687.45	687.22	687.16	683.30
846	42.100	812.57	747.39	687.44	687.20	687.15	683.30
847	42.150	812.57	747.39	687.42	687.19	687.13	683.30
848	42.200	812.57	747.39	687.41	687.18	687.12	683.30
849	42.250	812.57	747.39	687.40	687.17	687.11	683.30
850	42.300	812.57	747.39	687.39	687.16	687.10	683.30
851	42.350	812.57	747.39	687.37	687.14	687.09	683.30
852	42.400	812.57	747.39	687.36	687.13	687.08	683.30
853	42.450	812.57	747.39	687.35	687.12	687.06	683.30
854	42.500	812.57	747.39	687.34	687.11	687.05	683.30
855	42.550	812.57	747.39	687.33	687.10	687.04	683.30
856	42.600	812.57	747.39	687.31	687.09	687.03	683.30
857	42.650	812.57	747.39	687.30	687.08	687.02	683.30
858	42.700	812.57	747.39	687.29	687.06	687.01	683.30
859	42.750	812.57	747.39	687.28	687.05	687.00	683.30
860	42.800	812.57	747.39	687.27	687.04	686.99	683.30
861	42.850	812.57	747.39	687.26	687.03	686.98	683.30
862	42.900	812.57	747.39	687.25	687.02	686.97	683.30
863	42.950	812.57	747.39	687.23	687.01	686.96	683.30
864	43.000	812.57	747.39	687.22	687.00	686.95	683.30
865	43.050	812.57	747.39	687.21	686.99	686.93	683.30
866	43.100	812.57	747.39	687.20	686.98	686.92	683.30
867	43.150	812.57	747.39	687.19	686.97	686.91	683.30
868	43.200	812.57	747.39	687.18	686.96	686.90	683.30
869	43.250	812.57	747.39	687.17	686.95	686.89	683.30
870	43.300	812.57	747.39	687.16	686.94	686.88	683.30
871	43.350	812.57	747.39	687.15	686.93	686.87	683.30
872	43.400	812.57	747.39	687.14	686.92	686.86	683.30
873	43.450	812.57	747.39	687.13	686.91	686.85	683.30
874	43.500	812.57	747.39	687.12	686.90	686.85	683.30
875	43.550	812.57	747.39	687.11	686.89	686.84	683.30
876	43.600	812.57	747.39	687.10	686.88	686.83	683.30
877	43.650	812.57	747.39	687.09	686.87	686.82	683.30
878	43.700	812.57	747.39	687.08	686.86	686.81	683.30
879	43.750	812.57	747.39	687.07	686.85	686.80	683.30
880	43.800	812.57	747.39	687.06	686.84	686.79	683.30
881	43.850	812.57	747.39	687.05	686.84	686.78	683.30
882	43.900	812.57	747.39	687.04	686.83	686.77	683.30
883	43.950	812.57	747.39	687.03	686.82	686.76	683.30
884	44.000	812.57	747.39	687.02	686.81	686.75	683.30
885	44.050	812.57	747.39	687.01	686.80	686.74	683.30
886	44.100	812.57	747.39	687.00	686.79	686.74	683.30
887	44.150	812.57	747.39	686.99	686.78	686.73	683.30
888	44.200	812.57	747.39	686.98	686.77	686.72	683.30
889	44.250	812.57	747.39	686.97	686.76	686.71	683.30
890	44.300	812.57	747.39	686.97	686.76	686.70	683.30
891	44.350	812.57	747.39	686.96	686.75	686.69	683.30
892	44.400	812.57	747.39	686.95	686.74	686.68	683.30
893	44.450	812.57	747.39	686.94	686.73	686.67	683.30
894	44.500	812.57	747.39	686.93	686.72	686.67	683.30
895	44.550	812.57	747.39	686.92	686.71	686.66	683.30
896	44.600	812.57	747.39	686.91	686.71	686.65	683.30
897	44.650	812.57	747.39	686.90	686.70	686.64	683.30
898	44.700	812.57	747.39	686.89	686.69	686.63	683.30

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899	44.750	812.57	747.39	686.89	686.68	686.63	683.30
900	44.800	812.57	747.39	686.88	686.67	686.62	683.30
901	44.850	812.57	747.39	686.87	686.66	686.61	683.30
902	44.900	812.57	747.39	686.86	686.66	686.60	683.30
903	44.950	812.57	747.39	686.85	686.65	686.59	683.30
904	45.000	812.57	747.39	686.84	686.64	686.59	683.30
905	45.050	812.57	747.39	686.84	686.63	686.58	683.30
906	45.100	812.57	747.39	686.83	686.63	686.57	683.30
907	45.150	812.57	747.39	686.82	686.62	686.56	683.30
908	45.200	812.57	747.39	686.81	686.61	686.56	683.30
909	45.250	812.57	747.39	686.80	686.60	686.55	683.30
910	45.300	812.57	747.39	686.80	686.60	686.54	683.30
911	45.350	812.57	747.39	686.79	686.59	686.53	683.30
912	45.400	812.57	747.39	686.78	686.58	686.53	683.30
913	45.450	812.57	747.39	686.77	686.57	686.52	683.30
914	45.500	812.57	747.39	686.76	686.57	686.51	683.30
915	45.550	812.57	747.39	686.76	686.56	686.50	683.30
916	45.600	812.57	747.39	686.75	686.55	686.50	683.30
917	45.650	812.57	747.39	686.74	686.54	686.49	683.30
918	45.700	812.57	747.39	686.73	686.54	686.48	683.30
919	45.750	812.57	747.39	686.73	686.53	686.48	683.30
920	45.800	812.57	747.39	686.72	686.52	686.47	683.30
921	45.850	812.57	747.39	686.71	686.52	686.46	683.30
922	45.900	812.57	747.39	686.70	686.51	686.45	683.30
923	45.950	812.57	747.39	686.70	686.50	686.45	683.30
924	46.000	812.57	747.39	686.69	686.50	686.44	683.30
925	46.050	812.57	747.39	686.68	686.49	686.43	683.30
926	46.100	812.57	747.39	686.68	686.48	686.43	683.30
927	46.150	812.57	747.39	686.67	686.48	686.42	683.30
928	46.200	812.57	747.39	686.66	686.47	686.41	683.30
929	46.250	812.57	747.39	686.65	686.46	686.41	683.30
930	46.300	812.57	747.39	686.65	686.46	686.40	683.30
931	46.350	812.57	747.39	686.64	686.45	686.39	683.30
932	46.400	812.57	747.39	686.63	686.44	686.39	683.30
933	46.450	812.57	747.39	686.63	686.44	686.38	683.30
934	46.500	812.57	747.39	686.62	686.43	686.38	683.30
935	46.550	812.57	747.39	686.61	686.42	686.37	683.30
936	46.600	812.57	747.39	686.61	686.42	686.36	683.30
937	46.650	812.57	747.39	686.60	686.41	686.36	683.30
938	46.700	812.57	747.39	686.59	686.40	686.35	683.30
939	46.750	812.57	747.39	686.59	686.40	686.34	683.30
940	46.800	812.57	747.39	686.58	686.39	686.34	683.30
941	46.850	812.57	747.39	686.57	686.39	686.33	683.30
942	46.900	812.57	747.39	686.57	686.38	686.33	683.30
943	46.950	812.57	747.39	686.56	686.37	686.32	683.30
944	47.000	812.57	747.39	686.55	686.37	686.31	683.30
945	47.050	812.57	747.39	686.55	686.36	686.31	683.30
946	47.100	812.57	747.39	686.54	686.36	686.30	683.30
947	47.150	812.57	747.39	686.54	686.35	686.30	683.30
948	47.200	812.57	747.39	686.53	686.34	686.29	683.30
949	47.250	812.57	747.39	686.52	686.34	686.28	683.30
950	47.300	812.57	747.39	686.52	686.33	686.28	683.30
951	47.350	812.57	747.39	686.51	686.33	686.27	683.30
952	47.400	812.57	747.39	686.51	686.32	686.27	683.30
953	47.450	812.57	747.39	686.50	686.32	686.26	683.30
954	47.500	812.57	747.39	686.49	686.31	686.26	683.30
955	47.550	812.57	747.39	686.49	686.31	686.25	683.30
956	47.600	812.57	747.39	686.48	686.30	686.25	683.30
957	47.650	812.57	747.39	686.48	686.29	686.24	683.30
958	47.700	812.57	747.39	686.47	686.29	686.24	683.30
959	47.750	812.57	747.39	686.47	686.28	686.23	683.30
960	47.800	812.57	747.39	686.46	686.28	686.22	683.30
961	47.850	812.57	747.39	686.45	686.27	686.22	683.30
962	47.900	812.57	747.39	686.45	686.27	686.21	683.30
963	47.950	812.57	747.39	686.44	686.26	686.21	683.30
964	48.000	812.57	747.39	686.44	686.26	686.20	683.30
965	48.050	812.57	747.39	686.43	686.25	686.20	683.30
966	48.100	812.57	747.39	686.43	686.25	686.19	683.30
967	48.150	812.57	747.39	686.42	686.24	686.19	683.30
968	48.200	812.57	747.39	686.42	686.24	686.18	683.30
969	48.250	812.57	747.39	686.41	686.23	686.18	683.30
970	48.300	812.57	747.39	686.41	686.23	686.17	683.30
971	48.350	812.57	747.39	686.40	686.22	686.17	683.30
972	48.400	812.57	747.39	686.40	686.22	686.16	683.30
973	48.450	812.57	747.39	686.39	686.21	686.16	683.30
974	48.500	812.57	747.39	686.38	686.21	686.15	683.30
975	48.550	812.57	747.39	686.38	686.20	686.15	683.30
976	48.600	812.57	747.39	686.37	686.20	686.14	683.30
977	48.650	812.57	747.39	686.37	686.19	686.14	683.30
978	48.700	812.57	747.39	686.36	686.19	686.13	683.30
979	48.750	812.57	747.39	686.36	686.18	686.13	683.30
980	48.800	812.57	747.39	686.35	686.18	686.13	683.30
981	48.850	812.57	747.39	686.35	686.17	686.12	683.30
982	48.900	812.57	747.39	686.34	686.17	686.12	683.30
983	48.950	812.57	747.39	686.34	686.16	686.11	683.30
984	49.000	812.57	747.39	686.33	686.16	686.11	683.30
985	49.050	812.57	747.39	686.33	686.16	686.10	683.30
986	49.100	812.57	747.39	686.32	686.15	686.10	683.30
987	49.150	812.57	747.39	686.32	686.15	686.09	683.30
988	49.200	812.57	747.39	686.32	686.14	686.09	683.30
989	49.250	812.57	747.39	686.31	686.14	686.08	683.30
990	49.300	812.57	747.39	686.31	686.13	686.08	683.30
991	49.350	812.57	747.39	686.30	686.13	686.07	683.30
992	49.400	812.57	747.39	686.30	686.12	686.07	683.30
993	49.450	812.57	747.39	686.29	686.12	686.07	683.30

994	49.500	812.57	747.39	686.29	686.12	686.06	683.30
995	49.550	812.57	747.39	686.28	686.11	686.06	683.30
996	49.600	812.57	747.39	686.28	686.11	686.05	683.30
997	49.650	812.57	747.39	686.27	686.10	686.05	683.30
998	49.700	812.57	747.39	686.27	686.10	686.04	683.30
999	49.750	812.57	747.39	686.26	686.09	686.04	683.30
1000	49.800	812.57	747.39	686.26	686.09	686.04	683.30
1001	49.850	812.57	747.39	686.25	686.09	686.03	683.30
1002	49.900	812.57	747.39	686.25	686.08	686.03	683.30
1003	49.950	812.57	747.39	686.25	686.08	686.02	683.30

1

K	TTP(K)	OC(K, 1), I=1, N(TT)
1	.000	26.60
2	.050	26.60
3	.100	26.60
4	.150	26.60
5	.200	26.60
6	.250	26.60
7	.300	26.60
8	.350	30.23
9	.400	33.52
10	.450	38.10
11	.500	44.09
12	.550	51.62
13	.600	60.78
14	.650	71.68
15	.700	84.39
16	.750	99.01
17	.800	115.61
18	.850	134.25
19	.900	155.00
20	.950	177.91
21	1.000	203.04
22	1.050	229.09
23	1.100	257.44
24	1.150	288.12
25	1.200	321.16
26	1.250	356.59
27	1.300	394.41
28	1.350	434.63
29	1.400	477.27
30	1.450	522.33
31	1.500	569.78
32	1.550	619.63
33	1.600	671.85
34	1.650	726.42
35	1.700	783.32
36	1.750	842.50
37	1.800	903.52
38	1.850	967.56
39	1.900	1033.34
40	1.950	1101.22
41	2.000	1171.13
42	2.050	1244.34
43	2.100	1319.44
44	2.150	1396.35
45	2.200	1475.00
46	2.250	1555.29
47	2.300	1637.14
48	2.350	1720.46
49	2.400	1805.15
50	2.450	1891.11
51	2.500	1978.25
52	2.550	2066.45
53	2.600	2155.60
54	2.650	2245.61
55	2.700	2336.34
56	2.750	2427.69
57	2.800	2519.54
58	2.850	2611.76
59	2.900	2704.25
60	2.950	2796.88
61	3.000	2889.51
62	3.050	2982.04
63	3.100	3074.32
64	3.150	3166.25
65	3.200	3257.69
66	3.250	3348.51
67	3.300	3438.60
68	3.350	3527.87
69	3.400	3616.03
70	3.450	3703.04
71	3.500	3788.69
72	3.550	3872.82
73	3.600	3955.30
74	3.650	4035.98
75	3.700	4114.72
76	3.750	4191.39

77	3.800	4265.83	3994.90	1435.83	180.00	173.42	173.42
78	3.850	4337.92	4066.02	1470.47	201.37	195.01	195.01
79	3.900	4407.51	4135.24	1507.80	227.72	221.35	221.35
80	3.950	4474.45	4202.16	1547.68	258.67	252.44	252.44
81	4.000	4538.61	4266.51	1590.03	294.42	288.26	288.26
82	4.050	4605.96	4264.09	1634.71	334.80	328.78	328.78
83	4.100	4277.27	4158.10	1681.45	379.87	373.98	373.98
84	4.150	4152.40	4037.13	1732.52	428.22	422.81	422.81
85	4.200	4031.25	3935.77	1786.67	479.79	474.75	474.75
86	4.250	3913.68	3829.67	1835.61	536.77	531.61	531.61
87	4.300	3799.60	3730.18	1884.47	594.17	589.75	589.75
88	4.350	3688.87	3636.91	1931.09	655.95	651.52	651.52
89	4.400	3581.41	3545.75	1976.32	720.26	716.48	716.48
90	4.450	3477.12	3457.64	2019.04	787.84	784.30	784.30
91	4.500	3375.89	3369.18	2060.02	858.04	855.03	855.03
92	4.550	3277.62	3281.16	2100.67	931.61	928.86	928.86
93	4.600	3182.24	3194.40	2142.61	1008.76	1006.34	1006.34
94	4.650	3089.63	3109.85	2186.00	1089.65	1087.50	1087.50
95	4.700	2999.73	3028.02	2230.17	1173.96	1172.18	1172.18
96	4.750	2912.44	2948.66	2276.83	1260.32	1259.12	1259.12
97	4.800	2827.49	2871.73	2324.56	1351.48	1350.64	1350.64
98	4.850	2745.40	2797.03	2371.78	1446.48	1445.92	1445.92
99	4.900	2665.48	2724.49	2419.89	1544.05	1544.02	1544.02
100	4.950	2587.88	2654.01	2468.38	1645.06	1645.33	1645.33
101	5.000	2512.51	2585.54	2517.61	1748.83	1749.62	1749.62
102	5.050	2439.32	2519.07	2567.46	1855.70	1856.86	1856.86
103	5.100	2368.23	2454.49	2618.05	1965.32	1966.99	1966.99
104	5.150	2299.17	2391.73	2669.51	2077.77	2079.91	2079.91
105	5.200	2232.10	2330.65	2722.13	2193.00	2195.64	2195.64
106	5.250	2166.95	2271.11	2776.20	2310.95	2314.10	2314.10
107	5.300	2103.66	2212.99	2831.88	2431.54	2435.25	2435.25
108	5.350	2042.18	2156.18	2889.43	2554.63	2558.93	2558.93
109	5.400	1982.45	2100.57	2949.32	2680.10	2685.04	2685.04
110	5.450	1924.42	2046.19	3012.27	2807.83	2813.46	2813.46
111	5.500	1868.05	1993.11	3079.21	2937.47	2943.86	2943.86
112	5.550	1813.28	1941.38	3148.94	3063.59	3070.37	3070.37
113	5.600	1760.06	1891.03	3215.36	3173.60	3180.10	3180.10
114	5.650	1708.37	1842.04	3270.58	3257.32	3263.08	3263.08
115	5.700	1658.13	1794.33	3309.22	3310.45	3315.05	3315.05
116	5.750	1609.33	1747.77	3327.81	3333.49	3336.86	3336.86
117	5.800	1561.90	1702.35	3327.52	3265.42	3258.99	3258.99
118	5.850	1515.82	1658.09	3190.47	3178.91	3178.89	3178.89
119	5.900	1471.04	1615.00	3115.64	3100.32	3097.32	3097.32
120	5.950	1427.53	1573.12	3035.70	3016.11	3015.53	3015.53
121	6.000	1385.25	1532.40	2956.64	2935.67	2934.29	2934.29
122	6.050	1344.15	1492.76	2878.28	2855.08	2854.72	2854.72
123	6.100	1304.22	1454.22	2800.75	2777.91	2777.48	2777.48
124	6.150	1265.42	1416.78	2726.01	2703.47	2703.53	2703.53
125	6.200	1227.71	1380.41	2654.17	2633.42	2633.58	2633.58
126	6.250	1191.05	1345.04	2586.72	2567.86	2568.27	2568.27
127	6.300	1155.44	1310.57	2523.92	2507.50	2508.01	2508.01
128	6.350	1120.82	1277.01	2466.72	2452.58	2453.16	2453.16
129	6.400	1087.18	1244.43	2415.36	2403.36	2403.93	2403.93
130	6.450	1054.48	1212.82	2369.89	2359.70	2360.26	2360.26
131	6.500	1022.71	1182.07	2329.58	2320.99	2321.51	2321.51
132	6.550	991.86	1152.07	2293.39	2286.32	2286.86	2286.86
133	6.600	961.90	1122.86	2260.14	2254.65	2255.25	2255.25
134	6.650	932.80	1094.45	2228.89	2225.09	2225.80	2225.80
135	6.700	904.55	1066.76	2199.14	2197.12	2197.96	2197.96
136	6.750	877.12	1039.56	2170.76	2170.48	2171.47	2171.47
137	6.800	850.48	1012.71	2143.85	2145.10	2146.24	2146.24
138	6.850	824.61	986.18	2118.49	2120.88	2122.17	2122.17
139	6.900	799.50	960.09	2091.91	2098.60	2099.83	2099.83
140	6.950	775.11	934.44	2056.34	2082.85	2083.71	2083.71
141	7.000	751.42	909.24	2020.24	2066.79	2068.02	2068.02
142	7.050	728.43	884.23	1983.74	2051.33	2052.52	2052.52
143	7.100	706.10	859.22	1946.97	2036.21	2037.62	2037.62
144	7.150	684.41	833.92	1909.77	2021.45	2022.92	2022.92
145	7.200	663.36	808.72	1872.22	2006.91	2008.53	2008.53
146	7.250	642.92	784.23	1834.31	1982.57	1994.29	1994.29
147	7.300	623.07	760.86	1796.22	1978.41	1980.25	1980.25
148	7.350	603.79	738.40	1758.22	1964.46	1966.39	1966.39
149	7.400	585.08	716.37	1720.60	1950.80	1952.82	1952.82
150	7.450	566.91	694.59	1683.67	1937.51	1939.60	1939.60
151	7.500	549.28	673.12	1647.71	1924.64	1926.80	1926.80
152	7.550	532.15	652.09	1612.75	1912.26	1914.48	1914.48
153	7.600	515.53	631.55	1578.82	1900.29	1902.58	1902.58
154	7.650	499.39	611.51	1545.71	1888.74	1891.08	1891.08
155	7.700	483.72	591.93	1513.25	1877.49	1879.91	1879.91
156	7.750	468.51	572.78	1481.28	1866.52	1869.01	1869.01
157	7.800	453.75	553.96	1449.70	1855.82	1858.40	1858.40
158	7.850	439.42	535.43	1418.57	1845.49	1848.14	1848.14
159	7.900	425.51	517.09	1388.01	1835.67	1838.41	1838.41
160	7.950	412.01	498.94	1358.12	1826.74	1829.58	1829.58
161	8.000	398.91	481.05	1328.75	1817.81	1820.68	1820.68
162	8.050	386.20	463.63	1299.67	1808.68	1811.63	1811.63
163	8.100	373.87	446.87	1270.98	1799.47	1802.46	1802.46
164	8.150	361.92	430.80	1242.66	1790.12	1793.17	1793.17
165	8.200	350.34	415.30	1214.73	1780.72	1783.82	1783.82
166	8.250	339.10	400.30	1187.27	1771.23	1774.38	1774.38
167	8.300	328.22	385.88	1160.31	1761.72	1764.90	1764.90
168	8.350	317.66	372.04	1133.95	1752.16	1755.39	1755.39
169	8.400	307.43	358.74	1108.23	1742.65	1745.91	1745.91
170	8.450	297.52	345.89	1083.23	1733.18	1736.47	1736.47
171	8.500	287.92	333.53	1060.05	1723.31	1726.70	1726.70

172	8.550	278.61	321.66	1039.38	1712.97	1716.46	1716.46
173	8.600	269.60	310.29	1017.83	1703.93	1707.22	1707.22
174	8.650	260.86	299.43	998.15	1694.26	1697.78	1697.78
175	8.700	252.40	289.06	979.02	1685.33	1688.67	1688.67
176	8.750	244.21	279.17	961.10	1676.28	1679.75	1679.75
177	8.800	236.28	269.75	944.03	1667.68	1671.06	1671.06
178	8.850	228.60	260.75	927.92	1659.21	1662.65	1662.65
179	8.900	221.17	252.15	912.65	1651.01	1654.41	1654.41
180	8.950	213.97	243.93	898.16	1642.97	1646.39	1646.39
181	9.000	207.01	236.08	884.37	1635.09	1638.50	1638.50
182	9.050	200.27	228.60	871.24	1627.33	1630.74	1630.74
183	9.100	193.75	221.48	858.74	1619.72	1623.12	1623.12
184	9.150	187.45	214.72	846.91	1612.24	1615.64	1615.64
185	9.200	181.35	208.32	835.75	1604.94	1608.32	1608.32
186	9.250	175.45	202.24	825.30	1597.79	1601.16	1601.16
187	9.300	169.75	196.43	815.48	1590.79	1594.15	1594.15
188	9.350	164.23	190.85	806.23	1583.92	1587.27	1587.27
189	9.400	158.90	185.42	797.48	1577.16	1580.50	1580.50
190	9.450	153.76	180.15	789.13	1570.52	1573.84	1573.84
191	9.500	148.78	175.07	781.01	1563.96	1567.22	1567.22
192	9.550	143.97	170.20	773.64	1557.44	1560.62	1560.62
193	9.600	139.33	165.55	766.94	1550.99	1554.16	1554.16
194	9.650	134.85	161.07	760.94	1544.69	1548.22	1548.22
195	9.700	130.52	156.74	754.72	1538.43	1541.86	1541.86
196	9.750	126.35	152.54	748.27	1532.22	1535.55	1535.55
197	9.800	122.32	148.47	741.59	1526.06	1529.73	1529.73
198	9.850	118.43	144.53	734.68	1519.94	1523.44	1523.44
199	9.900	114.68	140.71	727.54	1513.86	1517.17	1517.17
200	9.950	111.06	137.02	720.18	1507.82	1510.92	1510.92
201	10.000	107.57	133.46	712.60	1501.82	1504.72	1504.72
202	10.050	104.21	130.04	704.80	1495.86	1498.46	1498.46
203	10.100	100.97	126.80	721.45	1489.94	1492.36	1492.36
204	10.150	97.85	123.74	714.90	1484.06	1486.22	1486.22
205	10.200	94.84	120.85	708.39	1478.22	1480.16	1480.16
206	10.250	91.95	118.08	701.93	1472.42	1474.17	1474.17
207	10.300	89.16	115.35	695.54	1466.66	1468.22	1468.22
208	10.350	86.48	112.58	689.16	1460.94	1462.30	1462.30
209	10.400	83.90	109.78	682.79	1455.26	1456.42	1456.42
210	10.450	81.42	107.03	676.47	1449.62	1450.58	1450.58
211	10.500	79.04	104.41	670.20	1443.99	1444.79	1444.79
212	10.550	76.74	101.95	664.03	1438.39	1438.95	1438.95
213	10.600	74.54	99.60	657.89	1432.82	1433.36	1433.36
214	10.650	72.43	97.33	651.82	1427.28	1427.71	1427.71
215	10.700	70.41	95.12	645.72	1421.76	1422.09	1422.09
216	10.750	68.49	92.97	639.62	1416.26	1416.49	1416.49
217	10.800	66.66	90.90	633.45	1410.78	1410.90	1410.90
218	10.850	64.90	88.92	627.22	1405.32	1405.32	1405.32
219	10.900	63.23	87.01	621.01	1400.00	1400.00	1400.00
220	10.950	61.64	85.17	614.89	1394.70	1394.70	1394.70
221	11.000	60.12	83.39	608.89	1389.42	1389.42	1389.42
222	11.050	58.67	81.66	603.05	1384.15	1384.15	1384.15
223	11.100	57.28	79.97	597.35	1378.90	1378.90	1378.90
224	11.150	55.96	78.37	591.78	1373.66	1373.66	1373.66
225	11.200	54.70	76.87	586.35	1368.43	1368.43	1368.43
226	11.250	53.50	75.46	581.05	1363.22	1363.22	1363.22
227	11.300	52.36	74.12	575.87	1358.02	1358.02	1358.02
228	11.350	51.27	72.83	570.72	1352.83	1352.83	1352.83
229	11.400	50.23	71.58	565.60	1347.66	1347.66	1347.66
230	11.450	49.24	70.39	560.51	1342.50	1342.50	1342.50
231	11.500	48.29	69.26	555.43	1337.36	1337.36	1337.36
232	11.550	47.39	68.20	550.37	1332.23	1332.23	1332.23
233	11.600	46.54	67.21	545.33	1327.12	1327.12	1327.12
234	11.650	45.72	66.27	540.31	1322.02	1322.02	1322.02
235	11.700	44.94	65.38	535.31	1316.93	1316.93	1316.93
236	11.750	44.21	64.56	530.33	1311.86	1311.86	1311.86
237	11.800	43.50	63.81	525.38	1306.80	1306.80	1306.80
238	11.850	42.84	63.15	520.50	1301.76	1301.76	1301.76
239	11.900	42.20	62.54	515.68	1296.73	1296.73	1296.73
240	11.950	41.60	61.89	510.93	1291.72	1291.72	1291.72
241	12.000	41.03	61.04	506.25	1286.72	1286.72	1286.72
242	12.050	40.49	59.91	501.64	1281.74	1281.74	1281.74
243	12.100	39.98	58.54	497.09	1276.77	1276.77	1276.77
244	12.150	39.50	57.25	492.60	1271.82	1271.82	1271.82
245	12.200	39.04	56.45	488.16	1266.88	1266.88	1266.88
246	12.250	38.60	56.37	483.77	1261.95	1261.95	1261.95
247	12.300	38.19	56.00	479.43	1257.03	1257.03	1257.03
248	12.350	37.81	55.23	475.13	1252.12	1252.12	1252.12
249	12.400	37.44	54.48	470.87	1247.22	1247.22	1247.22
250	12.450	37.10	53.75	466.65	1242.33	1242.33	1242.33
251	12.500	36.78	53.02	462.46	1237.45	1237.45	1237.45
252	12.550	36.48	52.31	458.30	1232.58	1232.58	1232.58
253	12.600	36.20	51.62	454.16	1227.72	1227.72	1227.72
254	12.650	35.94	51.00	450.04	1222.87	1222.87	1222.87
255	12.700	35.69	50.41	445.94	1218.03	1218.03	1218.03
256	12.750	35.46	49.80	441.86	1213.20	1213.20	1213.20
257	12.800	35.25	49.25	437.80	1208.38	1208.38	1208.38
258	12.850	35.06	48.70	433.76	1203.57	1203.57	1203.57
259	12.900	34.88	48.15	429.74	1198.77	1198.77	1198.77
260	12.950	34.72	47.60	425.74	1193.98	1193.98	1193.98
261	13.000	34.57	47.05	421.76	1189.19	1189.19	1189.19
262	13.050	34.43	46.50	417.80	1184.41	1184.41	1184.41
263	13.100	34.31	45.95	413.86	1179.64	1179.64	1179.64
264	13.150	34.20	45.40	409.93	1174.88	1174.88	1174.88
265	13.200	34.10	44.85	406.02	1170.13	1170.13	1170.13
266	13.250	34.02	44.30	402.12	1165.39	1165.39	1165.39

267	13.300	33.95	52.88	472.23	1074.30	1077.24	1077.24
268	13.350	33.89	52.71	469.16	1069.93	1072.88	1072.88
269	13.400	33.84	52.54	465.90	1065.57	1068.50	1068.50
270	13.450	33.80	52.37	462.48	1061.20	1064.13	1064.13
271	13.500	33.77	52.16	458.95	1056.84	1059.77	1059.77
272	13.550	33.75	51.92	455.36	1052.48	1055.40	1055.40
273	13.600	33.75	51.66	451.77	1048.15	1051.06	1051.06
274	13.650	33.75	51.41	448.24	1043.83	1046.72	1046.72
275	13.700	33.76	51.18	444.79	1039.53	1042.41	1042.41
276	13.750	33.78	50.98	441.46	1035.25	1038.12	1038.12
277	13.800	33.80	50.83	438.21	1031.00	1033.85	1033.85
278	13.850	33.84	50.72	435.00	1026.76	1029.60	1029.60
279	13.900	33.88	50.63	431.84	1022.53	1025.36	1025.36
280	13.950	33.94	50.57	428.70	1018.32	1021.14	1021.14
281	14.000	34.00	50.51	425.58	1014.13	1016.93	1016.93
282	14.050	34.06	50.45	422.50	1009.95	1012.74	1012.74
283	14.100	34.12	50.39	419.48	1005.80	1008.57	1008.57
284	14.150	34.18	50.31	416.50	1001.66	1004.42	1004.42
285	14.200	34.23	50.24	413.60	997.54	1000.28	1000.28
286	14.250	34.29	50.18	410.76	993.45	996.17	996.17
287	14.300	34.34	50.13	407.98	989.37	992.07	992.07
288	14.350	34.39	50.08	405.26	985.31	988.00	988.00
289	14.400	34.44	50.04	402.59	981.27	983.94	983.94
290	14.450	34.49	50.01	399.96	977.25	979.90	979.90
291	14.500	34.54	49.98	397.34	973.25	975.88	975.88
292	14.550	34.59	49.95	394.75	969.26	971.88	971.88
293	14.600	34.63	49.91	392.20	965.29	967.90	967.90
294	14.650	34.67	49.86	389.66	961.34	963.92	963.92
295	14.700	34.71	49.81	387.14	957.40	959.97	959.97
296	14.750	34.75	49.75	384.63	953.48	956.04	956.04
297	14.775	34.77	49.72	382.14	950.00	953.00	953.00
298	14.788	34.78	49.70	380.04	947.35	950.24	950.24
299	14.800	34.79	49.68	378.23	944.77	947.44	947.44
300	14.850	34.83	49.62	376.45	942.18	944.72	944.72
301	14.875	34.85	49.59	374.72	939.57	941.97	941.97
302	14.900	34.87	49.55	373.02	936.94	939.24	939.24
303	14.950	34.90	49.49	370.96	933.29	935.49	935.49
304	15.000	34.94	49.43	368.91	929.62	931.72	931.72
305	15.050	34.97	49.37	366.86	925.94	927.94	927.94
306	15.100	35.00	49.32	364.82	922.25	924.15	924.15
307	15.150	35.03	49.25	362.79	918.55	920.35	920.35
308	15.200	35.06	49.18	360.76	914.84	916.54	916.54
309	15.250	35.09	49.10	358.72	911.12	912.72	912.72
310	15.300	35.12	49.02	356.68	907.39	908.89	908.89
311	15.350	35.15	48.94	354.63	903.65	905.05	905.05
312	15.400	35.18	48.86	352.58	900.00	901.40	901.40
313	15.450	35.20	48.77	350.52	896.34	897.64	897.64
314	15.500	35.23	48.68	348.46	892.67	893.87	893.87
315	15.550	35.25	48.59	346.39	889.00	890.10	890.10
316	15.600	35.27	48.50	344.32	885.31	886.41	886.41
317	15.650	35.30	48.41	342.24	881.61	882.61	882.61
318	15.700	35.32	48.32	340.15	877.90	878.90	878.90
319	15.750	35.34	48.23	338.06	874.18	875.18	875.18
320	15.800	35.36	48.14	335.96	870.46	871.46	871.46
321	15.850	35.38	48.05	333.86	866.73	867.73	867.73
322	15.900	35.40	47.96	331.75	863.00	864.00	864.00
323	15.950	35.42	47.87	329.64	859.26	860.26	860.26
324	16.000	35.44	47.77	327.52	855.51	856.51	856.51
325	16.050	35.46	47.68	325.39	851.76	852.76	852.76
326	16.100	35.47	47.58	323.26	848.00	849.00	849.00
327	16.150	35.49	47.48	321.12	844.23	845.23	845.23
328	16.200	35.51	47.38	318.97	840.46	841.46	841.46
329	16.250	35.52	47.28	316.82	836.68	837.68	837.68
330	16.300	35.54	47.17	314.66	832.89	833.89	833.89
331	16.350	35.55	47.07	312.50	829.09	830.09	830.09
332	16.400	35.56	46.96	310.33	825.28	826.28	826.28
333	16.450	35.58	46.85	308.16	821.46	822.46	822.46
334	16.500	35.59	46.74	305.98	817.63	818.63	818.63
335	16.550	35.60	46.63	303.80	813.79	814.79	814.79
336	16.600	35.62	46.52	301.61	809.94	810.94	810.94
337	16.650	35.63	46.41	299.42	806.08	807.08	807.08
338	16.700	35.64	46.30	297.22	802.21	803.21	803.21
339	16.750	35.65	46.19	295.01	798.33	799.33	799.33
340	16.800	35.66	46.08	292.80	794.44	795.44	795.44
341	16.850	35.67	45.97	290.58	790.54	791.54	791.54
342	16.900	35.68	45.86	288.36	786.63	787.63	787.63
343	16.950	35.69	45.75	286.13	782.71	783.71	783.71
344	17.000	35.70	45.64	283.90	778.78	779.78	779.78
345	17.050	35.71	45.53	281.66	774.84	775.84	775.84
346	17.100	35.72	45.42	279.42	770.89	771.89	771.89
347	17.150	35.73	45.31	277.17	766.93	767.93	767.93
348	17.200	35.74	45.20	274.92	762.96	763.96	763.96
349	17.250	35.75	45.09	272.66	758.98	759.98	759.98
350	17.300	35.76	44.98	270.40	754.99	755.99	755.99
351	17.350	35.77	44.87	268.13	750.99	751.99	751.99
352	17.400	35.78	44.76	265.86	746.98	747.98	747.98
353	17.450	35.79	44.65	263.58	742.96	743.96	743.96
354	17.500	35.79	44.54	261.30	738.93	739.93	739.93
355	17.550	35.80	44.43	259.01	734.89	735.89	735.89
356	17.600	35.80	44.32	256.72	730.84	731.84	731.84
357	17.650	35.81	44.21	254.42	726.78	727.78	727.78
358	17.700	35.81	44.10	252.12	722.71	723.71	723.71
359	17.750	35.82	44.00	249.81	718.63	719.63	719.63
360	17.800	35.82	43.89	247.50	714.54	715.54	715.54
361	17.850	35.83	43.78	245.18	710.44	711.44	711.44

362	17.900	35.83	43.88	257.33	570.72	572.53	572.53
363	17.950	35.84	43.69	255.46	567.91	569.71	569.71
364	18.000	35.84	43.49	253.61	565.11	566.89	566.89
365	18.050	35.85	43.29	251.77	562.33	564.10	564.10
366	18.100	35.85	43.10	249.97	559.56	561.37	561.37
367	18.150	35.86	42.92	248.21	556.81	558.55	558.55
368	18.200	35.86	42.75	246.48	554.07	555.80	555.80
369	18.250	35.87	42.58	244.77	551.35	553.06	553.06
370	18.300	35.87	42.42	243.09	548.65	550.35	550.35
371	18.350	35.88	42.26	241.44	545.96	547.64	547.64
372	18.400	35.88	42.10	239.81	543.28	544.95	544.95
373	18.450	35.88	41.95	238.21	540.62	542.27	542.27
374	18.500	35.89	41.79	236.63	537.96	539.62	539.62
375	18.550	35.89	41.64	235.07	535.35	536.97	536.97
376	18.600	35.89	41.49	233.53	532.73	534.34	534.34
377	18.650	35.90	41.34	232.02	530.14	531.73	531.73
378	18.700	35.90	41.19	230.52	527.55	529.13	529.13
379	18.750	35.90	41.04	229.04	524.98	526.55	526.55
380	18.800	35.91	40.89	227.57	522.42	523.97	523.97
381	18.850	35.91	40.74	226.11	519.88	521.42	521.42
382	18.900	35.91	40.59	224.66	517.35	518.87	518.87
383	18.950	35.92	40.44	223.21	514.83	516.34	516.34
384	19.000	35.92	40.29	221.77	512.32	513.83	513.83
385	19.050	35.92	40.15	220.34	509.83	511.32	511.32
386	19.100	35.92	40.00	218.92	507.35	508.83	508.83
387	19.150	35.93	39.86	217.52	504.96	506.43	506.43
388	19.200	35.93	39.71	216.13	502.48	503.92	503.92
389	19.250	35.93	39.58	214.73	500.06	501.51	501.51
390	19.300	35.93	39.44	213.34	497.62	499.03	499.03
391	19.350	35.93	39.30	211.95	495.22	496.65	496.65
392	19.400	35.94	39.17	210.59	492.80	494.19	494.19
393	19.450	35.94	39.03	209.21	490.43	491.84	491.84
394	19.500	35.94	38.90	207.86	488.04	489.41	489.41
395	19.550	35.94	38.77	206.50	485.69	487.07	487.07
396	19.600	35.94	38.65	205.16	483.32	484.66	484.66
397	19.650	35.95	38.52	203.82	481.00	482.36	482.36
398	19.700	35.95	38.40	202.50	478.65	479.97	479.97
399	19.750	35.95	38.28	201.18	476.35	477.69	477.69
400	19.800	35.95	38.17	199.89	474.03	475.32	475.32
401	19.850	35.95	38.06	198.60	471.75	473.07	473.07
402	19.900	35.95	37.95	197.33	469.45	470.73	470.73
403	19.950	35.96	37.85	196.05	467.20	468.49	468.49
404	20.000	35.96	37.74	194.81	464.92	466.17	466.17
405	20.050	35.96	37.65	193.56	462.70	463.96	463.96
406	20.100	35.96	37.55	192.33	460.44	461.67	461.67
407	20.150	35.96	37.46	191.10	458.23	459.48	459.48
408	20.200	35.96	37.38	189.90	456.00	457.21	457.21
409	20.250	35.96	37.29	188.70	453.82	455.04	455.04
410	20.300	35.96	37.21	187.51	451.61	452.80	452.80
411	20.350	35.97	37.13	186.33	449.45	450.65	450.65
412	20.400	35.97	37.06	185.17	447.26	448.42	448.42
413	20.450	35.97	36.99	184.02	445.12	446.30	446.30
414	20.500	35.97	36.93	182.88	442.95	444.10	444.10
415	20.550	35.97	36.87	181.75	440.83	442.00	442.00
416	20.600	35.97	36.81	180.64	438.69	439.82	439.82
417	20.650	35.97	36.75	179.53	436.60	437.74	437.74
418	20.700	35.97	36.70	178.45	434.47	435.58	435.58
419	20.750	35.97	36.65	177.36	432.40	433.52	433.52
420	20.800	35.97	36.60	176.30	430.30	431.39	431.39
421	20.850	35.97	36.55	175.23	428.17	429.27	429.27
422	20.900	35.98	36.51	174.17	426.11	427.19	427.19
423	20.950	35.98	36.47	173.14	424.06	425.13	425.13
424	21.000	35.98	36.44	172.12	422.02	423.08	423.08
425	21.050	35.98	36.40	171.11	419.99	421.04	421.04
426	21.100	35.98	36.37	170.12	417.97	419.01	419.01
427	21.150	35.98	36.34	169.14	415.96	416.99	416.99
428	21.200	35.98	36.31	168.17	413.96	414.98	414.98
429	21.250	35.98	36.29	167.21	411.97	412.98	412.98
430	21.300	35.98	36.26	166.26	409.98	410.99	410.99
431	21.350	35.98	36.24	165.33	408.01	409.00	409.00
432	21.400	35.98	36.22	164.40	406.03	407.03	407.03
433	21.450	35.98	36.20	163.48	404.07	405.06	405.06
434	21.500	35.98	36.18	162.58	402.11	403.10	403.10
435	21.550	35.98	36.17	161.69	400.17	401.15	401.15
436	21.600	35.98	36.15	160.80	398.23	399.27	399.27
437	21.650	35.98	36.14	159.93	396.30	397.27	397.27
438	21.700	35.99	36.13	159.08	394.39	395.36	395.36
439	21.750	35.99	36.11	158.23	392.48	393.44	393.44
440	21.800	35.99	36.10	157.37	390.57	391.52	391.52
441	21.850	35.99	36.09	156.52	388.66	389.62	389.62
442	21.900	35.99	36.09	155.68	386.77	387.72	387.72
443	21.950	35.99	36.08	154.85	384.89	385.83	385.83
444	22.000	35.99	36.07	154.05	383.01	383.95	383.95
445	22.050	35.99	36.06	153.27	381.14	382.08	382.08
446	22.100	35.99	36.06	152.50	379.28	380.21	380.21
447	22.150	35.99	36.05	151.76	377.43	378.35	378.35
448	22.200	35.99	36.05	151.05	375.58	376.51	376.51
449	22.250	35.99	36.04	150.36	373.75	374.67	374.67
450	22.300	35.99	36.04	149.70	371.92	372.84	372.84
451	22.350	35.99	36.03	149.05	370.10	371.01	371.01
452	22.400	35.99	36.03	148.43	368.28	369.19	369.19
453	22.450	35.99	36.03	147.83	366.48	367.38	367.38
454	22.500	35.99	36.03	147.24	364.67	365.57	365.57
455	22.550	35.99	36.02	146.68	362.88	363.77	363.77
456	22.600	35.99	36.02	146.14	361.08	361.98	361.98

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457	22.650	35.99	36.02	145.62	359.29	360.18	360.18
458	22.700	35.99	36.02	145.13	357.51	358.40	358.40
459	22.750	35.99	36.01	144.66	355.73	356.62	356.62
460	22.800	35.99	36.01	144.21	353.96	354.84	354.84
461	22.850	35.99	36.01	143.79	352.18	353.06	353.06
462	22.900	35.99	36.01	143.39	350.41	351.29	351.29
463	22.950	35.99	36.01	143.03	348.64	349.52	349.52
464	23.000	35.99	36.01	142.69	346.88	347.76	347.76
465	23.050	35.99	36.01	142.38	345.12	345.99	345.99
466	23.100	35.99	36.01	142.11	343.35	344.23	344.23
467	23.150	35.99	36.01	141.86	341.58	342.46	342.46
468	23.200	35.99	36.00	141.65	339.82	340.69	340.69
469	23.250	35.99	36.00	141.48	338.05	338.92	338.92
470	23.300	35.99	36.00	141.35	336.28	337.15	337.15
471	23.350	36.00	36.00	141.27	334.50	335.38	335.38
472	23.400	36.00	36.00	141.22	332.73	333.60	333.60
473	23.450	36.00	36.00	141.23	330.94	331.82	331.82
474	23.500	36.00	36.00	141.28	329.16	330.04	330.04
475	23.550	36.00	36.00	141.39	327.36	328.25	328.25
476	23.600	36.00	36.00	141.54	325.56	326.44	326.44
477	23.650	36.00	36.00	141.75	323.74	324.63	324.63
478	23.700	36.00	36.00	142.02	321.92	322.81	322.81
479	23.750	36.00	36.00	142.34	320.09	320.99	320.99
480	23.800	36.00	36.00	142.71	318.25	319.15	319.15
481	23.850	36.00	36.00	143.14	316.40	317.31	317.31
482	23.900	36.00	36.00	143.61	314.54	315.45	315.45
483	23.950	36.00	36.00	144.17	312.74	313.66	313.66
484	24.000	36.00	36.00	144.73	310.86	311.76	311.76
485	24.050	36.00	36.00	145.28	308.98	309.92	309.92
486	24.100	36.00	36.00	145.82	307.08	307.99	307.99
487	24.150	36.00	36.00	146.33	305.19	306.14	306.14
488	24.200	36.00	36.00	146.79	303.29	304.21	304.21
489	24.250	36.00	36.00	147.19	301.39	302.34	302.34
490	24.300	36.00	36.00	147.54	299.46	300.39	300.39
491	24.350	36.00	36.00	147.78	297.48	298.42	298.42
492	24.400	36.00	36.00	148.04	295.59	296.54	296.54
493	24.450	36.00	36.00	148.25	293.64	294.58	294.58
494	24.500	36.00	36.00	148.36	291.66	292.62	292.62
495	24.550	36.00	36.00	148.44	289.70	290.66	290.66
496	24.600	36.00	36.00	148.49	287.74	288.70	288.70
497	24.650	36.00	36.00	148.50	285.78	286.74	286.74
498	24.700	36.00	36.00	148.48	283.82	284.78	284.78
499	24.750	36.00	36.00	148.43	281.87	282.83	282.83
500	24.800	36.00	36.00	148.34	279.91	280.87	280.87
501	24.850	36.00	36.00	148.22	277.95	278.92	278.92
502	24.900	36.00	36.00	148.06	276.00	276.96	276.96
503	24.950	36.00	36.00	147.87	274.04	275.01	275.01
504	25.000	36.00	36.00	147.65	272.08	273.05	273.05
505	25.050	36.00	36.00	147.38	270.12	271.08	271.08
506	25.100	36.00	36.00	147.07	268.12	269.07	269.07
507	25.150	36.00	36.00	146.67	266.07	267.02	267.02
508	25.200	36.00	36.00	146.24	264.04	265.00	265.00
509	25.250	36.00	36.00	145.86	262.09	263.05	263.05
510	25.300	36.00	36.00	145.47	260.14	261.10	261.10
511	25.350	36.00	36.00	145.05	258.20	259.15	259.15
512	25.400	36.00	36.00	144.61	256.25	257.20	257.20
513	25.450	36.00	36.00	144.13	254.30	255.24	255.24
514	25.500	36.00	36.00	143.63	252.35	253.30	253.30
515	25.550	36.00	36.00	143.12	250.41	251.35	251.35
516	25.600	36.00	36.00	142.58	248.48	249.42	249.42
517	25.650	36.00	36.00	142.03	246.55	247.49	247.49
518	25.700	36.00	36.00	141.46	244.63	245.56	245.56
519	25.750	36.00	36.00	140.88	242.72	243.65	243.65
520	25.800	36.00	36.00	140.29	240.82	241.75	241.75
521	25.850	36.00	36.00	139.68	238.93	239.85	239.85
522	25.900	36.00	36.00	139.05	237.04	237.96	237.96
523	25.950	36.00	36.00	138.41	235.16	236.07	236.07
524	26.000	36.00	36.00	137.75	233.28	234.19	234.19
525	26.050	36.00	36.00	137.08	231.41	232.32	232.32
526	26.100	36.00	36.00	136.40	229.55	230.45	230.45
527	26.150	36.00	36.00	135.71	227.70	228.60	228.60
528	26.200	36.00	36.00	135.01	225.86	226.75	226.75
529	26.250	36.00	36.00	134.31	224.03	224.92	224.92
530	26.300	36.00	36.00	133.59	222.21	223.09	223.09
531	26.350	36.00	36.00	132.86	220.39	221.27	221.27
532	26.400	36.00	36.00	132.12	218.59	219.46	219.46
533	26.450	36.00	36.00	131.33	216.72	217.57	217.57
534	26.500	36.00	36.00	130.53	214.92	215.79	215.79
535	26.550	36.00	36.00	129.76	213.11	213.96	213.96
536	26.600	36.00	36.00	128.94	211.29	212.14	212.14
537	26.650	36.00	36.00	128.14	209.51	210.36	210.36
538	26.700	36.00	36.00	127.34	207.75	208.59	208.59
539	26.750	36.00	36.00	126.55	206.00	206.83	206.83
540	26.800	36.00	36.00	125.75	204.25	205.08	205.08
541	26.850	36.00	36.00	124.94	202.52	203.35	203.35
542	26.900	36.00	36.00	124.13	200.80	201.62	201.62
543	26.950	36.00	36.00	123.27	199.02	199.82	199.82
544	27.000	36.00	36.00	122.43	197.33	198.15	198.15
545	27.050	36.00	36.00	121.61	195.62	196.41	196.41
546	27.100	36.00	36.00	120.78	193.95	194.76	194.76
547	27.150	36.00	36.00	119.96	192.27	193.04	193.04
548	27.200	36.00	36.00	119.09	190.56	191.35	191.35
549	27.250	36.00	36.00	118.24	188.91	189.69	189.69
550	27.300	36.00	36.00	117.41	187.27	188.04	188.04
551	27.350	36.00	36.00	116.58	185.64	186.41	186.41

552	27.400	36.00	36.00	115.74	184.02	184.78	184.78
553	27.450	36.00	36.00	114.90	182.41	183.17	183.17
554	27.500	36.00	36.00	114.07	180.82	181.57	181.57
555	27.550	36.00	36.00	113.23	179.23	179.98	179.98
556	27.600	36.00	36.00	112.40	177.66	178.40	178.40
557	27.650	36.00	36.00	111.56	176.10	176.83	176.83
558	27.700	36.00	36.00	110.73	174.55	175.27	175.27
559	27.750	36.00	36.00	109.89	173.01	173.73	173.73
560	27.800	36.00	36.00	109.06	171.48	172.19	172.19
561	27.850	36.00	36.00	108.23	169.97	170.67	170.67
562	27.900	36.00	36.00	107.40	168.46	169.16	169.16
563	27.950	36.00	36.00	106.58	166.97	167.66	167.66
564	28.000	36.00	36.00	105.76	165.49	166.18	166.18
565	28.050	36.00	36.00	104.94	164.02	164.70	164.70
566	28.100	36.00	36.00	104.12	162.56	163.24	163.24
567	28.150	36.00	36.00	103.30	161.12	161.78	161.78
568	28.200	36.00	36.00	102.48	159.68	160.35	160.35
569	28.250	36.00	36.00	101.66	158.26	158.92	158.92
570	28.300	36.00	36.00	100.87	156.85	157.50	157.50
571	28.350	36.00	36.00	100.07	155.46	156.10	156.10
572	28.400	36.00	36.00	99.27	154.07	154.71	154.71
573	28.450	36.00	36.00	98.48	152.70	153.33	153.33
574	28.500	36.00	36.00	97.69	151.34	151.96	151.96
575	28.550	36.00	36.00	96.90	149.99	150.61	150.61
576	28.600	36.00	36.00	96.12	148.66	149.27	149.27
577	28.650	36.00	36.00	95.35	147.34	147.94	147.94
578	28.700	36.00	36.00	94.62	146.08	146.69	146.69
579	28.750	36.00	36.00	93.87	144.77	145.35	145.35
580	28.800	36.00	36.00	93.11	143.51	144.11	144.11
581	28.850	36.00	36.00	92.38	142.24	142.80	142.80
582	28.900	36.00	36.00	91.66	141.01	141.59	141.59
583	28.950	36.00	36.00	90.98	139.83	140.38	140.38
584	29.000	36.00	36.00	90.28	138.61	139.17	139.17
585	29.050	36.00	36.00	89.57	137.42	137.96	137.96
586	29.100	36.00	36.00	88.87	136.23	136.77	136.77
587	29.150	36.00	36.00	88.18	135.06	135.60	135.60
588	29.200	36.00	36.00	87.49	133.91	134.43	134.43
589	29.250	36.00	36.00	86.81	132.76	133.28	133.28
590	29.300	36.00	36.00	86.14	131.63	132.14	132.14
591	29.350	36.00	36.00	85.47	130.51	131.02	131.02
592	29.400	36.00	36.00	84.81	129.40	129.90	129.90
593	29.450	36.00	36.00	84.16	128.30	128.80	128.80
594	29.500	36.00	36.00	83.51	127.22	127.71	127.71
595	29.550	36.00	36.00	82.88	126.15	126.64	126.64
596	29.600	36.00	36.00	82.24	125.09	125.57	125.57
597	29.650	36.00	36.00	81.62	124.05	124.52	124.52
598	29.700	36.00	36.00	81.00	123.01	123.48	123.48
599	29.750	36.00	36.00	80.38	121.99	122.45	122.45
600	29.800	36.00	36.00	79.78	120.98	121.44	121.44
601	29.850	36.00	36.00	79.18	119.98	120.43	120.43
602	29.900	36.00	36.00	78.58	118.99	119.44	119.44
603	29.950	36.00	36.00	78.00	118.02	118.46	118.46
604	30.000	36.00	36.00	77.42	117.05	117.49	117.49
605	30.050	36.00	36.00	76.84	116.10	116.53	116.53
606	30.100	36.00	36.00	76.27	115.16	115.58	115.58
607	30.150	36.00	36.00	75.71	114.23	114.65	114.65
608	30.200	36.00	36.00	75.15	113.30	113.72	113.72
609	30.250	36.00	36.00	74.60	112.39	112.81	112.81
610	30.300	36.00	36.00	74.06	111.50	111.90	111.90
611	30.350	36.00	36.00	73.52	110.61	111.01	111.01
612	30.400	36.00	36.00	72.99	109.73	110.13	110.13
613	30.450	36.00	36.00	72.47	108.86	109.25	109.25
614	30.500	36.00	36.00	71.95	108.00	108.39	108.39
615	30.550	36.00	36.00	71.44	107.16	107.54	107.54
616	30.600	36.00	36.00	70.93	106.32	106.70	106.70
617	30.650	36.00	36.00	70.43	105.49	105.86	105.86
618	30.700	36.00	36.00	69.94	104.67	105.04	105.04
619	30.750	36.00	36.00	69.45	103.87	104.23	104.23
620	30.800	36.00	36.00	68.96	103.07	103.43	103.43
621	30.850	36.00	36.00	68.49	102.28	102.64	102.64
622	30.900	36.00	36.00	68.02	101.50	101.86	101.86
623	30.950	36.00	36.00	67.55	100.74	101.08	101.08
624	31.000	36.00	36.00	67.10	99.98	100.32	100.32
625	31.050	36.00	36.00	66.65	99.23	99.57	99.57
626	31.100	36.00	36.00	66.20	98.49	98.82	98.82
627	31.150	36.00	36.00	65.76	97.76	98.09	98.09
628	31.200	36.00	36.00	65.33	97.04	97.37	97.37
629	31.250	36.00	36.00	64.90	96.33	96.65	96.65
630	31.300	36.00	36.00	64.48	95.63	95.94	95.94
631	31.350	36.00	36.00	64.06	94.94	95.25	95.25
632	31.400	36.00	36.00	63.65	94.25	94.56	94.56
633	31.450	36.00	36.00	63.24	93.58	93.88	93.88
634	31.500	36.00	36.00	62.84	92.91	93.21	93.21
635	31.550	36.00	36.00	62.45	92.25	92.55	92.55
636	31.600	36.00	36.00	62.06	91.60	91.89	91.89
637	31.650	36.00	36.00	61.67	90.96	91.25	91.25
638	31.700	36.00	36.00	61.30	90.33	90.61	90.61
639	31.750	36.00	36.00	60.92	89.70	89.98	89.98
640	31.800	36.00	36.00	60.55	89.08	89.36	89.36
641	31.850	36.00	36.00	60.19	88.47	88.75	88.75
642	31.900	36.00	36.00	59.83	87.87	88.14	88.14
643	31.950	36.00	36.00	59.48	87.28	87.55	87.55
644	32.000	36.00	36.00	59.13	86.70	86.96	86.96
645	32.050	36.00	36.00	58.79	86.12	86.38	86.38
646	32.100	36.00	36.00	58.45	85.55	85.80	85.80

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647	32.150	36.00	36.00	58.12	84.98	85.24	85.24
648	32.200	36.00	36.00	57.79	84.43	84.68	84.68
649	32.250	36.00	36.00	57.47	83.88	84.13	84.13
650	32.300	36.00	36.00	57.15	83.34	83.58	83.58
651	32.350	36.00	36.00	56.84	82.81	83.05	83.05
652	32.400	36.00	36.00	56.53	82.28	82.52	82.52
653	32.450	36.00	36.00	56.23	81.76	82.00	82.00
654	32.500	36.00	36.00	55.93	81.25	81.48	81.48
655	32.550	36.00	36.00	55.63	80.75	80.97	80.97
656	32.600	36.00	36.00	55.34	80.25	80.47	80.47
657	32.650	36.00	36.00	55.06	79.75	79.98	79.98
658	32.700	36.00	36.00	54.77	79.27	79.49	79.49
659	32.750	36.00	36.00	54.50	78.79	79.01	79.01
660	32.800	36.00	36.00	54.22	78.32	78.53	78.53
661	32.850	36.00	36.00	53.96	77.85	78.06	78.06
662	32.900	36.00	36.00	53.69	77.39	77.60	77.60
663	32.950	36.00	36.00	53.43	76.94	77.14	77.14
664	33.000	36.00	36.00	53.17	76.49	76.69	76.69
665	33.050	36.00	36.00	52.92	76.05	76.25	76.25
666	33.100	36.00	36.00	52.68	75.62	75.81	75.81
667	33.150	36.00	36.00	52.43	75.19	75.38	75.38
668	33.200	36.00	36.00	52.19	74.77	74.96	74.96
669	33.250	36.00	36.00	51.96	74.35	74.54	74.54
670	33.300	36.00	36.00	51.72	73.94	74.12	74.12
671	33.350	36.00	36.00	51.49	73.53	73.72	73.72
672	33.400	36.00	36.00	51.27	73.13	73.31	73.31
673	33.450	36.00	36.00	51.05	72.74	72.92	72.92
674	33.500	36.00	36.00	50.83	72.35	72.53	72.53
675	33.550	36.00	36.00	50.62	71.97	72.14	72.14
676	33.600	36.00	36.00	50.41	71.59	71.76	71.76
677	33.650	36.00	36.00	50.20	71.22	71.38	71.38
678	33.700	36.00	36.00	50.00	70.85	71.01	71.01
679	33.750	36.00	36.00	49.80	70.49	70.65	70.65
680	33.800	36.00	36.00	49.60	70.13	70.29	70.29
681	33.850	36.00	36.00	49.41	69.78	69.93	69.93
682	33.900	36.00	36.00	49.22	69.43	69.59	69.59
683	33.950	36.00	36.00	49.03	69.09	69.24	69.24
684	34.000	36.00	36.00	48.85	68.75	68.90	68.90
685	34.050	36.00	36.00	48.67	68.42	68.57	68.57
686	34.100	36.00	36.00	48.49	68.09	68.23	68.23
687	34.150	36.00	36.00	48.32	67.76	67.91	67.91
688	34.200	36.00	36.00	48.15	67.44	67.59	67.59
689	34.250	36.00	36.00	47.98	67.13	67.27	67.27
690	34.300	36.00	36.00	47.82	66.82	66.96	66.96
691	34.350	36.00	36.00	47.65	66.51	66.65	66.65
692	34.400	36.00	36.00	47.50	66.21	66.35	66.35
693	34.450	36.00	36.00	47.34	65.92	66.05	66.05
694	34.500	36.00	36.00	47.18	65.62	65.75	65.75
695	34.550	36.00	36.00	47.03	65.33	65.46	65.46
696	34.600	36.00	36.00	46.89	65.05	65.18	65.18
697	34.650	36.00	36.00	46.74	64.77	64.89	64.89
698	34.700	36.00	36.00	46.60	64.49	64.61	64.61
699	34.750	36.00	36.00	46.46	64.22	64.34	64.34
700	34.800	36.00	36.00	46.32	63.95	64.07	64.07
701	34.850	36.00	36.00	46.18	63.68	63.80	63.80
702	34.900	36.00	36.00	46.05	63.42	63.54	63.54
703	34.950	36.00	36.00	45.92	63.16	63.28	63.28
704	35.000	36.00	36.00	45.79	62.91	63.02	63.02
705	35.050	36.00	36.00	45.67	62.66	62.77	62.77
706	35.100	36.00	36.00	45.54	62.41	62.52	62.52
707	35.150	36.00	36.00	45.42	62.16	62.27	62.27
708	35.200	36.00	36.00	45.30	61.92	62.03	62.03
709	35.250	36.00	36.00	45.19	61.69	61.79	61.79
710	35.300	36.00	36.00	45.07	61.45	61.56	61.56
711	35.350	36.00	36.00	44.96	61.22	61.32	61.32
712	35.400	36.00	36.00	44.85	60.99	61.10	61.10
713	35.450	36.00	36.00	44.74	60.77	60.87	60.87
714	35.500	36.00	36.00	44.63	60.55	60.65	60.65
715	35.550	36.00	36.00	44.53	60.33	60.43	60.43
716	35.600	36.00	36.00	44.43	60.12	60.21	60.21
717	35.650	36.00	36.00	44.33	59.90	60.00	60.00
718	35.700	36.00	36.00	44.23	59.69	59.79	59.79
719	35.750	36.00	36.00	44.13	59.49	59.58	59.58
720	35.800	36.00	36.00	44.04	59.28	59.37	59.37
721	35.850	36.00	36.00	43.94	59.08	59.17	59.17
722	35.900	36.00	36.00	43.85	58.88	58.97	58.97
723	35.950	36.00	36.00	43.76	58.69	58.78	58.78
724	36.000	36.00	36.00	43.67	58.50	58.58	58.58
725	36.050	36.00	36.00	43.58	58.31	58.39	58.39
726	36.100	36.00	36.00	43.50	58.12	58.20	58.20
727	36.150	36.00	36.00	43.42	57.93	58.02	58.02
728	36.200	36.00	36.00	43.33	57.75	57.83	57.83
729	36.250	36.00	36.00	43.25	57.57	57.65	57.65
730	36.300	36.00	36.00	43.17	57.39	57.47	57.47
731	36.350	36.00	36.00	43.10	57.22	57.30	57.30
732	36.400	36.00	36.00	43.02	57.05	57.12	57.12
733	36.450	36.00	36.00	42.95	56.87	56.95	56.95
734	36.500	36.00	36.00	42.87	56.71	56.78	56.78
735	36.550	36.00	36.00	42.80	56.54	56.61	56.61
736	36.600	36.00	36.00	42.73	56.38	56.45	56.45
737	36.650	36.00	36.00	42.66	56.21	56.29	56.29
738	36.700	36.00	36.00	42.59	56.05	56.13	56.13
739	36.750	36.00	36.00	42.53	55.90	55.97	55.97
740	36.800	36.00	36.00	42.46	55.74	55.81	55.81
741	36.850	36.00	36.00	42.40	55.59	55.66	55.66

742	36.900	36.00	36.00	42.33	55.44	55.50	55.50
743	36.950	36.00	36.00	42.27	55.29	55.35	55.35
744	37.000	36.00	36.00	42.21	55.14	55.20	55.20
745	37.050	36.00	36.00	42.15	54.99	55.06	55.06
746	37.100	36.00	36.00	42.09	54.85	54.91	54.91
747	37.150	36.00	36.00	42.03	54.71	54.77	54.77
748	37.200	36.00	36.00	41.98	54.57	54.63	54.63
749	37.250	36.00	36.00	41.92	54.43	54.49	54.49
750	37.300	36.00	36.00	41.87	54.29	54.35	54.35
751	37.350	36.00	36.00	41.81	54.16	54.22	54.22
752	37.400	36.00	36.00	41.76	54.02	54.08	54.08
753	37.450	36.00	36.00	41.71	53.89	53.95	53.95
754	37.500	36.00	36.00	41.66	53.76	53.82	53.82
755	37.550	36.00	36.00	41.61	53.63	53.69	53.69
756	37.600	36.00	36.00	41.56	53.51	53.56	53.56
757	37.650	36.00	36.00	41.51	53.38	53.44	53.44
758	37.700	36.00	36.00	41.47	53.26	53.31	53.31
759	37.750	36.00	36.00	41.42	53.14	53.19	53.19
760	37.800	36.00	36.00	41.38	53.01	53.07	53.07
761	37.850	36.00	36.00	41.33	52.90	52.95	52.95
762	37.900	36.00	36.00	41.29	52.78	52.83	52.83
763	37.950	36.00	36.00	41.25	52.66	52.71	52.71
764	38.000	36.00	36.00	41.20	52.55	52.60	52.60
765	38.050	36.00	36.00	41.16	52.43	52.48	52.48
766	38.100	36.00	36.00	41.12	52.32	52.37	52.37
767	38.150	36.00	36.00	41.08	52.21	52.26	52.26
768	38.200	36.00	36.00	41.04	52.10	52.15	52.15
769	38.250	36.00	36.00	41.00	51.99	52.04	52.04
770	38.300	36.00	36.00	40.97	51.89	51.93	51.93
771	38.350	36.00	36.00	40.93	51.78	51.83	51.83
772	38.400	36.00	36.00	40.89	51.67	51.72	51.72
773	38.450	36.00	36.00	40.86	51.57	51.62	51.62
774	38.500	36.00	36.00	40.82	51.47	51.51	51.51
775	38.550	36.00	36.00	40.79	51.37	51.41	51.41
776	38.600	36.00	36.00	40.75	51.27	51.31	51.31
777	38.650	36.00	36.00	40.72	51.17	51.21	51.21
778	38.700	36.00	36.00	40.69	51.07	51.12	51.12
779	38.750	36.00	36.00	40.65	50.97	51.02	51.02
780	38.800	36.00	36.00	40.62	50.88	50.92	50.92
781	38.850	36.00	36.00	40.59	50.79	50.83	50.83
782	38.900	36.00	36.00	40.56	50.69	50.73	50.73
783	38.950	36.00	36.00	40.53	50.60	50.64	50.64
784	39.000	36.00	36.00	40.50	50.51	50.55	50.55
785	39.050	36.00	36.00	40.47	50.42	50.46	50.46
786	39.100	36.00	36.00	40.44	50.33	50.37	50.37
787	39.150	36.00	36.00	40.41	50.24	50.28	50.28
788	39.200	36.00	36.00	40.39	50.15	50.19	50.19
789	39.250	36.00	36.00	40.36	50.07	50.11	50.11
790	39.300	36.00	36.00	40.33	49.98	50.02	50.02
791	39.350	36.00	36.00	40.31	49.90	49.94	49.94
792	39.400	36.00	36.00	40.28	49.81	49.85	49.85
793	39.450	36.00	36.00	40.25	49.73	49.76	49.76
794	39.500	36.00	36.00	40.23	49.65	49.68	49.68
795	39.550	36.00	36.00	40.20	49.56	49.60	49.60
796	39.600	36.00	36.00	40.18	49.48	49.52	49.52
797	39.650	36.00	36.00	40.15	49.41	49.44	49.44
798	39.700	36.00	36.00	40.13	49.33	49.36	49.36
799	39.750	36.00	36.00	40.11	49.25	49.28	49.28
800	39.800	36.00	36.00	40.08	49.17	49.21	49.21
801	39.850	36.00	36.00	40.06	49.10	49.13	49.13
802	39.900	36.00	36.00	40.04	49.02	49.05	49.05
803	39.950	36.00	36.00	40.02	48.95	48.98	48.98
804	40.000	36.00	36.00	40.00	48.87	48.91	48.91
805	40.050	36.00	36.00	39.98	48.80	48.83	48.83
806	40.100	36.00	36.00	39.96	48.73	48.76	48.76
807	40.150	36.00	36.00	39.93	48.66	48.69	48.69
808	40.200	36.00	36.00	39.91	48.59	48.62	48.62
809	40.250	36.00	36.00	39.89	48.51	48.55	48.55
810	40.300	36.00	36.00	39.88	48.45	48.48	48.48
811	40.350	36.00	36.00	39.86	48.38	48.41	48.41
812	40.400	36.00	36.00	39.84	48.31	48.34	48.34
813	40.450	36.00	36.00	39.82	48.24	48.27	48.27
814	40.500	36.00	36.00	39.80	48.17	48.20	48.20
815	40.550	36.00	36.00	39.78	48.11	48.14	48.14
816	40.600	36.00	36.00	39.77	48.04	48.07	48.07
817	40.650	36.00	36.00	39.75	47.98	48.01	48.01
818	40.700	36.00	36.00	39.73	47.91	47.94	47.94
819	40.750	36.00	36.00	39.71	47.85	47.88	47.88
820	40.800	36.00	36.00	39.70	47.79	47.82	47.82
821	40.850	36.00	36.00	39.68	47.73	47.75	47.75
822	40.900	36.00	36.00	39.66	47.66	47.69	47.69
823	40.950	36.00	36.00	39.65	47.60	47.63	47.63
824	41.000	36.00	36.00	39.63	47.54	47.57	47.57
825	41.050	36.00	36.00	39.62	47.48	47.51	47.51
826	41.100	36.00	36.00	39.60	47.42	47.45	47.45
827	41.150	36.00	36.00	39.59	47.36	47.39	47.39
828	41.200	36.00	36.00	39.57	47.30	47.33	47.33
829	41.250	36.00	36.00	39.56	47.25	47.27	47.27
830	41.300	36.00	36.00	39.54	47.19	47.22	47.22
831	41.350	36.00	36.00	39.53	47.13	47.16	47.16
832	41.400	36.00	36.00	39.52	47.08	47.10	47.10
833	41.450	36.00	36.00	39.50	47.02	47.05	47.05
834	41.500	36.00	36.00	39.49	46.97	46.99	46.99
835	41.550	36.00	36.00	39.47	46.91	46.94	46.94
836	41.600	36.00	36.00	39.46	46.86	46.88	46.88

837	41.650	36.00	36.00	39.45	46.80	46.83	46.83
838	41.700	36.00	36.00	39.44	46.75	46.77	46.77
839	41.750	36.00	36.00	39.42	46.70	46.72	46.72
840	41.800	36.00	36.00	39.41	46.64	46.67	46.67
841	41.850	36.00	36.00	39.40	46.59	46.62	46.62
842	41.900	36.00	36.00	39.39	46.54	46.56	46.56
843	41.950	36.00	36.00	39.37	46.49	46.51	46.51
844	42.000	36.00	36.00	39.36	46.44	46.46	46.46
845	42.050	36.00	36.00	39.35	46.39	46.41	46.41
846	42.100	36.00	36.00	39.34	46.34	46.36	46.36
847	42.150	36.00	36.00	39.33	46.29	46.31	46.31
848	42.200	36.00	36.00	39.32	46.24	46.26	46.26
849	42.250	36.00	36.00	39.31	46.19	46.22	46.22
850	42.300	36.00	36.00	39.29	46.15	46.17	46.17
851	42.350	36.00	36.00	39.28	46.10	46.12	46.12
852	42.400	36.00	36.00	39.27	46.05	46.07	46.07
853	42.450	36.00	36.00	39.26	46.01	46.03	46.03
854	42.500	36.00	36.00	39.25	45.96	45.98	45.98
855	42.550	36.00	36.00	39.24	45.91	45.93	45.93
856	42.600	36.00	36.00	39.23	45.87	45.89	45.89
857	42.650	36.00	36.00	39.22	45.82	45.84	45.84
858	42.700	36.00	36.00	39.21	45.78	45.80	45.80
859	42.750	36.00	36.00	39.20	45.73	45.75	45.75
860	42.800	36.00	36.00	39.19	45.69	45.71	45.71
861	42.850	36.00	36.00	39.19	45.65	45.67	45.67
862	42.900	36.00	36.00	39.18	45.60	45.62	45.62
863	42.950	36.00	36.00	39.16	45.55	45.57	45.57
864	43.000	36.00	36.00	39.15	45.51	45.53	45.53
865	43.050	36.00	36.00	39.14	45.47	45.48	45.48
866	43.100	36.00	36.00	39.13	45.42	45.44	45.44
867	43.150	36.00	36.00	39.12	45.38	45.40	45.40
868	43.200	36.00	36.00	39.11	45.34	45.36	45.36
869	43.250	36.00	36.00	39.10	45.30	45.32	45.32
870	43.300	36.00	36.00	39.10	45.26	45.28	45.28
871	43.350	36.00	36.00	39.09	45.22	45.24	45.24
872	43.400	36.00	36.00	39.08	45.18	45.20	45.20
873	43.450	36.00	36.00	39.07	45.14	45.16	45.16
874	43.500	36.00	36.00	39.06	45.10	45.12	45.12
875	43.550	36.00	36.00	39.06	45.06	45.08	45.08
876	43.600	36.00	36.00	39.05	45.02	45.04	45.04
877	43.650	36.00	36.00	39.04	44.98	45.00	45.00
878	43.700	36.00	36.00	39.03	44.95	44.96	44.96
879	43.750	36.00	36.00	39.02	44.91	44.92	44.92
880	43.800	36.00	36.00	39.02	44.87	44.89	44.89
881	43.850	36.00	36.00	39.01	44.83	44.85	44.85
882	43.900	36.00	36.00	39.00	44.80	44.81	44.81
883	43.950	36.00	36.00	38.99	44.76	44.78	44.78
884	44.000	36.00	36.00	38.99	44.72	44.74	44.74
885	44.050	36.00	36.00	38.98	44.69	44.70	44.70
886	44.100	36.00	36.00	38.97	44.65	44.67	44.67
887	44.150	36.00	36.00	38.97	44.62	44.63	44.63
888	44.200	36.00	36.00	38.96	44.58	44.60	44.60
889	44.250	36.00	36.00	38.95	44.54	44.56	44.56
890	44.300	36.00	36.00	38.95	44.51	44.53	44.53
891	44.350	36.00	36.00	38.94	44.46	44.49	44.49
892	44.400	36.00	36.00	38.93	44.44	44.46	44.46
893	44.450	36.00	36.00	38.93	44.41	44.42	44.42
894	44.500	36.00	36.00	38.92	44.37	44.39	44.39
895	44.550	36.00	36.00	38.91	44.34	44.36	44.36
896	44.600	36.00	36.00	38.91	44.31	44.32	44.32
897	44.650	36.00	36.00	38.90	44.27	44.29	44.29
898	44.700	36.00	36.00	38.90	44.24	44.26	44.26
899	44.750	36.00	36.00	38.89	44.21	44.22	44.22
900	44.800	36.00	36.00	38.88	44.18	44.19	44.19
901	44.850	36.00	36.00	38.88	44.15	44.16	44.16
902	44.900	36.00	36.00	38.87	44.11	44.13	44.13
903	44.950	36.00	36.00	38.87	44.08	44.10	44.10
904	45.000	36.00	36.00	38.86	44.05	44.07	44.07
905	45.050	36.00	36.00	38.85	44.02	44.03	44.03
906	45.100	36.00	36.00	38.85	43.99	44.00	44.00
907	45.150	36.00	36.00	38.84	43.96	43.97	43.97
908	45.200	36.00	36.00	38.84	43.93	43.94	43.94
909	45.250	36.00	36.00	38.83	43.90	43.91	43.91
910	45.300	36.00	36.00	38.83	43.87	43.88	43.88
911	45.350	36.00	36.00	38.82	43.84	43.85	43.85
912	45.400	36.00	36.00	38.82	43.81	43.82	43.82
913	45.450	36.00	36.00	38.81	43.78	43.79	43.79
914	45.500	36.00	36.00	38.81	43.75	43.76	43.76
915	45.550	36.00	36.00	38.80	43.72	43.73	43.73
916	45.600	36.00	36.00	38.80	43.69	43.71	43.71
917	45.650	36.00	36.00	38.79	43.66	43.68	43.68
918	45.700	36.00	36.00	38.79	43.64	43.65	43.65
919	45.750	36.00	36.00	38.78	43.61	43.62	43.62
920	45.800	36.00	36.00	38.78	43.58	43.59	43.59
921	45.850	36.00	36.00	38.77	43.55	43.57	43.57
922	45.900	36.00	36.00	38.77	43.52	43.54	43.54
923	45.950	36.00	36.00	38.76	43.50	43.51	43.51
924	46.000	36.00	36.00	38.76	43.47	43.48	43.48
925	46.050	36.00	36.00	38.75	43.44	43.46	43.46
926	46.100	36.00	36.00	38.75	43.42	43.43	43.43
927	46.150	36.00	36.00	38.74	43.39	43.40	43.40
928	46.200	36.00	36.00	38.74	43.36	43.38	43.38
929	46.250	36.00	36.00	38.74	43.34	43.35	43.35
930	46.300	36.00	36.00	38.73	43.31	43.32	43.32
931	46.350	36.00	36.00	38.73	43.29	43.30	43.30

932	46.400	36.00	36.00	38.72	43.26	43.27	43.27
933	46.450	36.00	36.00	38.72	43.24	43.25	43.25
934	46.500	36.00	36.00	38.71	43.21	43.22	43.22
935	46.550	36.00	36.00	38.71	43.18	43.20	43.20
936	46.600	36.00	36.00	38.71	43.16	43.17	43.17
937	46.650	36.00	36.00	38.70	43.14	43.15	43.15
938	46.700	36.00	36.00	38.70	43.11	43.12	43.12
939	46.750	36.00	36.00	38.69	43.09	43.10	43.10
940	46.800	36.00	36.00	38.69	43.06	43.07	43.07
941	46.850	36.00	36.00	38.69	43.04	43.05	43.05
942	46.900	36.00	36.00	38.68	43.01	43.03	43.03
943	46.950	36.00	36.00	38.68	42.99	43.00	43.00
944	47.000	36.00	36.00	38.67	42.97	42.98	42.98
945	47.050	36.00	36.00	38.67	42.94	42.95	42.95
946	47.100	36.00	36.00	38.67	42.92	42.93	42.93
947	47.150	36.00	36.00	38.66	42.90	42.91	42.91
948	47.200	36.00	36.00	38.66	42.87	42.88	42.88
949	47.250	36.00	36.00	38.66	42.85	42.86	42.86
950	47.300	36.00	36.00	38.65	42.83	42.84	42.84
951	47.350	36.00	36.00	38.65	42.81	42.82	42.82
952	47.400	36.00	36.00	38.64	42.77	42.77	42.77
953	47.450	36.00	36.00	38.62	42.74	42.75	42.75
954	47.500	36.00	36.00	38.62	42.72	42.73	42.73
955	47.550	36.00	36.00	38.62	42.70	42.71	42.71
956	47.600	36.00	36.00	38.61	42.68	42.69	42.69
957	47.650	36.00	36.00	38.61	42.65	42.66	42.66
958	47.700	36.00	36.00	38.61	42.63	42.64	42.64
959	47.750	36.00	36.00	38.60	42.61	42.62	42.62
960	47.800	36.00	36.00	38.60	42.59	42.60	42.60
961	47.850	36.00	36.00	38.60	42.57	42.58	42.58
962	47.900	36.00	36.00	38.59	42.55	42.56	42.56
963	47.950	36.00	36.00	38.59	42.53	42.54	42.54
964	48.000	36.00	36.00	38.59	42.51	42.52	42.52
965	48.050	36.00	36.00	38.59	42.49	42.50	42.50
966	48.100	36.00	36.00	38.58	42.47	42.48	42.48
967	48.150	36.00	36.00	38.58	42.45	42.46	42.46
968	48.200	36.00	36.00	38.58	42.43	42.44	42.44
969	48.250	36.00	36.00	38.58	42.41	42.42	42.42
970	48.300	36.00	36.00	38.57	42.39	42.40	42.40
971	48.350	36.00	36.00	38.57	42.37	42.38	42.38
972	48.400	36.00	36.00	38.57	42.35	42.36	42.36
973	48.450	36.00	36.00	38.56	42.33	42.34	42.34
974	48.500	36.00	36.00	38.56	42.31	42.32	42.32
975	48.550	36.00	36.00	38.56	42.29	42.30	42.30
976	48.600	36.00	36.00	38.56	42.27	42.28	42.28
977	48.650	36.00	36.00	38.55	42.25	42.26	42.26
978	48.700	36.00	36.00	38.55	42.23	42.24	42.24
979	48.750	36.00	36.00	38.55	42.22	42.22	42.22
980	48.800	36.00	36.00	38.54	42.20	42.21	42.21
981	48.850	36.00	36.00	38.54	42.18	42.19	42.19
982	48.900	36.00	36.00	38.54	42.16	42.17	42.17
983	48.950	36.00	36.00	38.54	42.14	42.15	42.15
984	49.000	36.00	36.00	38.53	42.12	42.13	42.13
985	49.050	36.00	36.00	38.53	42.10	42.11	42.11
986	49.100	36.00	36.00	38.53	42.09	42.10	42.10
987	49.150	36.00	36.00	38.53	42.07	42.08	42.08
988	49.200	36.00	36.00	38.52	42.05	42.06	42.06
989	49.250	36.00	36.00	38.52	42.03	42.04	42.04
990	49.300	36.00	36.00	38.52	42.02	42.02	42.02
991	49.350	36.00	36.00	38.52	42.00	42.01	42.01
992	49.400	36.00	36.00	38.51	41.98	41.99	41.99
993	49.450	36.00	36.00	38.51	41.96	41.97	41.97
994	49.500	36.00	36.00	38.51	41.95	41.95	41.95
995	49.550	36.00	36.00	38.51	41.93	41.94	41.94
996	49.600	36.00	36.00	38.51	41.91	41.92	41.92
997	49.650	36.00	36.00	38.50	41.90	41.90	41.90
998	49.700	36.00	36.00	38.50	41.88	41.89	41.89
999	49.750	36.00	36.00	38.50	41.86	41.87	41.87
1000	49.800	36.00	36.00	38.50	41.85	41.85	41.85
1001	49.850	36.00	36.00	38.49	41.83	41.84	41.84
1002	49.900	36.00	36.00	38.49	41.81	41.82	41.82
1003	49.950	36.00	36.00	38.49	41.80	41.80	41.80

1

DISCHARGE HYDROGRAPH FOR JOC/REQ FAILURE ... STATION NUMBER 1
BELOW JOCASSEE HYDRO-M1 AT MILE .10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1107.97 FEET
FLOOD STAGE = 363.00 FEET
MAX STAGE = 361.97 FEET AT TIME = .000 HOURS
MAX FLOW = 4538608 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	362.0	26600	*					
2	354.1	1171131	.					
4	278.1	4538608	.					
6	171.8	1385246	.					
8	111.0	398908	.					
10	79.4	107571	.					
12	67.7	41033	.					
14	66.1	35996	*					
16	66.4	35438	*					
18	66.5	35844	*					
20	66.6	35657	*					
22	66.6	35988	*					
24	66.6	35996	*					
26	66.6	35996	*					
28	66.6	35996	*					
30	66.6	35996	*					
32	66.6	35996	*					
34	66.6	35996	*					
36	66.6	35996	*					
38	66.6	35996	*					
40	66.6	35996	*					
42	66.6	35996	*					
44	66.6	35996	*					
46	66.6	35996	*					
48	66.6	35996	*					

DISCHARGE HYDROGRAPH FOR JOC/REQ FAILURE ... STATION NUMBER 13
BELOW JOCASSEE HYDRO-M1 AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 984.25 FEET
FLOOD STAGE = 69.00 FEET
MAX STAGE = 153.25 FEET AT TIME = 4.600 HOURS
MAX FLOW = 4266512 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	66.9	32076	*					
2	79.4	1072541	.					
4	146.3	4266512	.					
6	136.4	1532403	.					
8	90.9	481052	.					
10	74.6	133456	*					
12	62.8	61045	*					
14	51.6	50511	*					
16	37.7	50030	*					
18	27.6	43491	*					
20	19.4	37744	*					
22	16.6	36071	*					
24	16.4	36000	*					
26	16.4	35996	*					
28	16.4	35996	*					
30	16.4	35996	*					
32	16.4	35996	*					
34	16.4	35996	*					
36	16.4	35996	*					
38	16.4	35996	*					
40	16.4	35996	*					
42	16.4	35996	*					
44	16.4	35996	*					
46	16.4	35996	*					
48	16.4	35996	*					

DISCHARGE HYDROGRAPH FOR JOC/KED FAILURE ... STATION NUMBER 73
BELOW JOCASSEE HYDRO-M1 AT MILE 13.90
GAGE ZERO = 648.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 823.23 FEET
FLOOD STAGE = 152.00 FEET
MAX STAGE = 175.23 FEET AT TIME = 4.990 HOURS
MAX FLOW = 3327806 CFS AT TIME = 5.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0.0	149.6	175696	.	.	.	.	.	.
0.5	149.1	114089	.	.	.	.	.	.
1.0	148.9	100814	.	.	.	.	.	.
1.5	149.4	132658	.	.	.	.	.	.
2.0	151.6	308948	.	.	.	.	.	.
2.5	154.9	605382	.	.	.	.	.	.
3.0	159.3	937896	.	.	.	.	.	.
3.5	164.6	1261755	.	.	.	.	.	.
4.0	170.0	1590031	.	.	.	.	.	.
4.5	174.0	2060016	.	.	.	.	.	.
5.0	175.2	2517605	.	.	.	.	.	.
5.5	173.0	3079212	.	.	.	.	.	.
6.0	171.4	2956642	.	.	.	.	.	.
6.5	171.1	2329585	.	.	.	.	.	.
7.0	170.4	2020239	.	.	.	.	.	.
7.5	169.2	1647711	.	.	.	.	.	.
8.0	167.2	1328749	.	.	.	.	.	.
8.5	164.7	1060049	.	.	.	.	.	.
9.0	161.9	884366	.	.	.	.	.	.
9.5	159.1	784011	.	.	.	.	.	.
10.0	156.2	734063	.	.	.	.	.	.
10.5	153.3	670197	.	.	.	.	.	.
11.0	150.5	608890	.	.	.	.	.	.
11.5	147.7	546426	.	.	.	.	.	.
12.0	144.9	516447	.	.	.	.	.	.
12.5	142.1	512548	.	.	.	.	.	.
13.0	139.2	489346	.	.	.	.	.	.
13.5	136.4	458946	.	.	.	.	.	.
14.0	133.6	425576	.	.	.	.	.	.
14.5	130.9	397344	.	.	.	.	.	.
15.0	125.8	728014	.	.	.	.	.	.
15.5	122.5	382841	.	.	.	.	.	.
16.0	119.8	362359	.	.	.	.	.	.
16.5	116.8	305657	.	.	.	.	.	.
17.0	114.0	290246	.	.	.	.	.	.
17.5	111.3	272769	.	.	.	.	.	.
18.0	108.6	253608	.	.	.	.	.	.
18.5	106.1	236625	.	.	.	.	.	.
19.0	103.6	221769	.	.	.	.	.	.
19.5	101.2	207856	.	.	.	.	.	.
20.0	98.9	194805	.	.	.	.	.	.
20.5	96.6	182884	.	.	.	.	.	.
21.0	94.4	172121	.	.	.	.	.	.
21.5	92.3	162579	.	.	.	.	.	.
22.0	90.2	154051	.	.	.	.	.	.
22.5	88.1	147243	.	.	.	.	.	.
23.0	86.1	142690	.	.	.	.	.	.
23.5	84.0	141284	.	.	.	.	.	.
24.0	81.8	146730	.	.	.	.	.	.
24.5	79.5	148357	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 74
BELOW JOCASSEE HYDRO-M1 AT MILE 14.10

GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 823.57 FEET
FLOOD STAGE = 152.60 FEET
MAX STAGE = 176.17 FEET AT TIME = 4.900 HOURS
MAX FLOW = 3333486 CFS AT TIME = 5.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	150.2	112534	.	.	.	.	.	.
1	149.5	86704	.	.	.	.	.	.
2	152.2	98756	.	.	.	.	.	.
3	160.1	126282	.	.	.	.	.	.
4	171.0	294420	.	.	.	.	.	.
5	176.1	1748833	.	.	.	.	.	.
6	171.7	2935674	.	.	.	.	.	.
7	170.8	2066791	.	.	.	.	.	.
8	167.2	1817809	.	.	.	.	.	.
9	161.7	1635094	.	.	.	.	.	.
10	155.9	1493111	.	.	.	.	.	.
11	150.2	1357505	.	.	.	.	.	.
12	144.7	1192221	.	.	.	.	.	.
13	138.9	1106666	.	.	.	.	.	.
14	133.2	1014128	.	.	.	.	.	.
15	126.2	768259	.	.	.	.	.	.
16	119.7	690385	.	.	.	.	.	.
17	113.8	623424	.	.	.	.	.	.
18	108.4	565108	.	.	.	.	.	.
19	103.3	512324	.	.	.	.	.	.
20	98.5	464921	.	.	.	.	.	.
21	94.1	422021	.	.	.	.	.	.
22	89.8	383009	.	.	.	.	.	.
23	85.8	346880	.	.	.	.	.	.
24	81.5	310856	.	.	.	.	.	.
25	76.8	272083	.	.	.	.	.	.
26	71.7	233279	.	.	.	.	.	.
27	66.7	197322	.	.	.	.	.	.
28	62.0	165487	.	.	.	.	.	.
29	57.7	138610	.	.	.	.	.	.
30	54.1	117049	.	.	.	.	.	.
31	51.0	99976	.	.	.	.	.	.
32	48.5	86693	.	.	.	.	.	.
33	46.5	76493	.	.	.	.	.	.
34	44.9	68748	.	.	.	.	.	.
35	43.6	62906	.	.	.	.	.	.
36	42.6	58495	.	.	.	.	.	.
37	41.9	55138	.	.	.	.	.	.
38	41.3	52545	.	.	.	.	.	.
39	40.8	50508	.	.	.	.	.	.
40	40.4	48872	.	.	.	.	.	.
41	40.1	47541	.	.	.	.	.	.
42	39.8	46440	.	.	.	.	.	.
43	39.6	45505	.	.	.	.	.	.
44	39.4	44722
45	39.2	44051
46	39.1	43470
47	39.0	42967
48	38.9	42508
49	38.8	42123

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 75
BELOW JOCASSEE HYDRO-M1 AT MILE 14.20
GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 823.50 FEET
FLOOD STAGE = 153.00 FEET
MAX STAGE = 176.50 FEET AT TIME = 4.900 HOURS
MAX FLOW = 3336856 CFS AT TIME = 5.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	150.6	89299	.	.	.	.	.	.
1	149.9	87033	.	.	.	.	.	.
2	152.6	95375	.	.	.	.	.	.
3	160.5	120121	.	.	.	.	.	.
4	171.4	288256	.	.	.	.	.	.
5	176.4	1749615	.	.	.	.	.	.
6	172.0	2934289	.	.	.	.	.	.
7	171.1	2069022	.	.	.	.	.	.
8	167.6	1820681	.	.	.	.	.	.
9	162.0	1638500	.	.	.	.	.	.
10	156.3	1496485	.	.	.	.	.	.
11	150.5	1360817	.	.	.	.	.	.
12	145.0	1195176	.	.	.	.	.	.
13	139.2	1103673	.	.	.	.	.	.
14	133.6	1016928	.	.	.	.	.	.
15	126.6	769593	.	.	.	.	.	.
16	120.1	693047	.	.	.	.	.	.
17	114.1	625470	.	.	.	.	.	.
18	108.7	566893	.	.	.	.	.	.
19	103.6	513826	.	.	.	.	.	.
20	98.9	466175	.	.	.	.	.	.
21	94.4	423081	.	.	.	.	.	.
22	90.2	383951	.	.	.	.	.	.
23	86.1	347756	.	.	.	.	.	.
24	81.9	311765	.	.	.	.	.	.
25	77.1	273046	.	.	.	.	.	.
26	72.0	234187	.	.	.	.	.	.
27	67.0	198144	.	.	.	.	.	.
28	62.3	166173	.	.	.	.	.	.
29	58.0	139163	.	.	.	.	.	.
30	54.4	117487	.	.	.	.	.	.
31	51.4	100318	.	.	.	.	.	.
32	48.8	86956	.	.	.	.	.	.
33	46.8	76693	.	.	.	.	.	.
34	45.2	68699	.	.	.	.	.	.
35	43.9	63020	.	.	.	.	.	.
36	43.0	58581	.	.	.	.	.	.
37	42.2	55204	.	.	.	.	.	.
38	41.6	52597	.	.	.	.	.	.
39	41.1	50549	.	.	.	.	.	.
40	40.8	48905	.	.	.	.	.	.
41	40.4	47569	.	.	.	.	.	.
42	40.2	46463	.	.	.	.	.	.
43	39.9	45526	.	.	.	.	.	.
44	39.8	44739	.	.	.	.	.	.
45	39.6	44065	.	.	.	.	.	.
46	39.4	43493	.	.	.	.	.	.
47	39.3	42977	.	.	.	.	.	.
48	39.2	42517	.	.	.	.	.	.
49	39.1	42131	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/WED FAILURE STATION NUMBER 76
BELOW JOGASSEE HYDRO-M1 AT MILE 14.80

GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 807.18 FEET
FLOOD STAGE = 23.00 FEET
MAX STAGE = 161.18 FEET AT TIME = 6.950 HOURS
MAX FLOW = 3336856 CFS AT TIME = 5.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	37.3	89299	.	.	.	.	.	.
1	37.3	87033	.	.	.	.	.	.
2	37.6	95375	.	.	.	.	.	.
3	40.0	120121	.	.	.	.	.	.
4	49.3	288256	.	.	.	.	.	.
5	105.0	1749615	.	.	.	.	.	.
6	154.5	2934289	.	.	.	.	.	.
7	161.2	2068022	.	.	.	.	.	.
8	158.5	1820681	.	.	.	.	.	.
9	153.7	1638500	.	.	.	.	.	.
10	148.5	1496485	.	.	.	.	.	.
11	143.3	1360817	.	.	.	.	.	.
12	137.2	1195176	.	.	.	.	.	.
13	131.8	1103673	.	.	.	.	.	.
14	126.9	1016928	.	.	.	.	.	.
15	120.5	769593	.	.	.	.	.	.
16	112.7	693047	.	.	.	.	.	.
17	106.7	625470	.	.	.	.	.	.
18	101.7	566893	.	.	.	.	.	.
19	97.2	513826	.	.	.	.	.	.
20	93.1	466175	.	.	.	.	.	.
21	89.4	423081	.	.	.	.	.	.
22	85.7	383951	.	.	.	.	.	.
23	82.2	347756	.	.	.	.	.	.
24	78.7	311765	.	.	.	.	.	.
25	74.5	273046	.	.	.	.	.	.
26	69.8	234187	.	.	.	.	.	.
27	64.6	198144	.	.	.	.	.	.
28	58.8	166173	.	.	.	.	.	.
29	53.4	129163	.	.	.	.	.	.
30	49.0	117487	.	.	.	.	.	.
31	45.2	100318	.	.	.	.	.	.
32	41.9	86956	.	.	.	.	.	.
33	39.1	76693	.	.	.	.	.	.
34	37.3	68899	.	.	.	.	.	.
35	37.3	63020	.	.	.	.	.	.
36	37.3	58581	.	.	.	.	.	.
37	37.3	55204	.	.	.	.	.	.
38	37.3	52597	.	.	.	.	.	.
39	37.3	50549	.	.	.	.	.	.
40	37.3	48905	.	.	.	.	.	.
41	37.3	47569	.	.	.	.	.	.
42	37.3	46463	.	.	.	.	.	.
43	37.3	45524	.	.	.	.	.	.
44	37.3	44739	.	.	.	.	.	.
45	37.3	44065	.	.	.	.	.	.
46	37.3	43483	.	.	.	.	.	.
47	37.3	42977	.	.	.	.	.	.
48	37.3	42517	.	.	.	.	.	.
49	37.3	42101	.	.	.	.	.	.

ATTACHMENT 2
JOSD16 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

JOCASSEE HYDRO-M1

ON

JOC/KED FAILURE

ANALYSIS BY

SD FAILURE OPTION 12
JOSD16 09142008 SDfail JOC81085/K8797 W/
FPC # 1 RIVER CANAL COE QT CURVE 900 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATAMBA PROJECT

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*** SUMMARY OF INPUT DATA ***

INPUT CONTROL PARAMETERS FOR JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	NRN	1
TYPE OF RESERVOIR ROUTING	RUT	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEM	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9 NPRT		0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES) SA (K)	ELEVATION (FT) HSA (K)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1085.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	800.00
WIDTH OF BASE OF BREACH	FEET	BB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	940.00
ELEVATION OF TOP OF DAM	FEET	HD	1125.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	797.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	797.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19500.00

DAM NUMBER 3

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	658.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40875.	1.0
44081.	3.0
47314.	5.0
52201.	8.0
55476.	10.0
58759.	12.0
61222.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
47307.	.2
98699.	.5
102810.	2.0
111097.	4.0
119450.	6.0
136248.	10.0
144639.	12.0

OTT(L, K):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

QSPILL(K, 3) CFS *****	HEAD(K, 3) FEET *****
0.	.0
78750.	.5
157500.	1.0
315000.	2.0
353000.	6.0
400000.	8.0
480000.	12.0
565000.	16.0

DNF(INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.
TEN(TIME AT WHICH COMPUTATIONS TERMINATE)= 50.0000 HRS.
BREN(BREACH EXPONENT) = .000
MUD(MUD FLOW OPTION) = 0
INF(TYPE OF WAVE FRONT TRACKING) = 0
MPRES(WETTED PERIMETER OPTION) = 0
KSL(LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-M1

500.00 500.00 500.00 500.00 36000.00 36000.00 36000.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000 1.0000 7.0000 8.0000 14.0000 30.0000 140.0000

CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER *****	VARIABLE *****	VALUE *****
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)

1 3 9 10 11 12

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER *****	UNITS *****	VARIABLE *****
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LOCATION OF CROSS-SECTION	MILE	XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION	FEET	FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH	FEET	HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BS(K,I)
(ACTIVE FLOW PORTION)		
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BSS(K,I)
(OFF-CHANNEL PORTION)		
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		K

CROSS-SECTION NUMBER 1

XS(I) = .100 FSTG(I) = 1109.00

HS ...	746.0	760.0	840.0	940.0	1000.0	1100.0	1140.0
BS ...	.0	600.0	900.0	1400.0	1800.0	2600.0	2750.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2

XS(I) = .130 FSTG(I) = 800.00

HS ...	745.0	760.0	800.0	820.0	840.0	900.0	940.0
BS ...	.0	1000.0	1500.0	1600.0	1800.0	2000.0	2200.0
BSS ...	.0	.0	541.0	900.0	1184.0	2897.0	4000.0

CROSS-SECTION NUMBER 3

XS(I) = 1.320 FSTG(I) = 800.00

HS ...	731.0	740.0	760.0	800.0	820.0	840.0	900.0
BS ...	.0	250.0	1300.0	2000.0	2200.0	2400.0	2600.0
BSS ...	.0	.0	.0	541.0	900.0	1184.0	2897.0

CROSS-SECTION NUMBER 4

XS(I) = 2.910 FSTG(I) = 800.00

HS ...	715.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	700.0	1700.0	1850.0	2100.0	2800.0
BSS ...	.0	.0	.0	3359.0	5100.0	6807.0	12826.0

CROSS-SECTION NUMBER 5

XS(I) = 3.820 FSTG(I) = 800.00

HS ...	710.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	500.0	800.0	850.0	925.0	2300.0
BSS ...	.0	.0	.0	3771.0	5780.0	7764.0	14858.0

CROSS-SECTION NUMBER 6

XS(I) = 6.470 FSTG(I) = 800.00

HS ...	693.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	500.0	600.0	1000.0	1150.0	1300.0	1900.0
BSS ...	.0	.0	.0	412.0	680.0	957.0	2032.0

CROSS-SECTION NUMBER 7

XS(I) = 8.210 FSTG(I) = 800.00

HS	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS	.0	1600.0	1850.0	2000.0	2300.0	2425.0	2700.0
BSS	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8

XS(I) = 10.480 FSTG(I) = 800.00

HS	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS	.0	2400.0	3700.0	4000.0	4400.0	4660.0	4950.0
BSS	.0	.0	.0	.0	1426.0	2860.0	4300.0

CROSS-SECTION NUMBER 9

XS(I) = 12.900 FSTG(I) = 800.00

HS	645.0	680.0	740.0	780.0	800.0	820.0	840.0
BS	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10

XS(I) = 14.100 FSTG(I) = 800.00

HS	647.4	680.0	740.0	780.0	800.0	820.0	840.0
BS	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11

XS(I) = 14.200 FSTG(I) = 800.00

HS	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12

XS(I) = 14.800 FSTG(I) = 669.00

HS	646.0	660.0	680.0	700.0	720.0	760.0	815.0
BS	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS	.0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13

XS(I) = 16.400 FSTG(I) = 667.00

HS ...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS ...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14
.....

XS(I) = 17.800 FSTG(I) = 665.00

HS ...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS ...	.0	400.0	700.0	800.0	1800.0	2400.0	4000.0
BSS ...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15
.....

XS(I) = 20.300 FSTG(I) = 661.40

HS ...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS ...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS ...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16
.....

XS(I) = 21.900 FSTG(I) = 660.60

HS ...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS ...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS ...	.0	.0	.0	1217.0	2400.0	3000.0	6007.0

CROSS-SECTION NUMBER 17
.....

XS(I) = 25.100 FSTG(I) = 660.00

HS ...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS ...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS ...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18
.....

XS(I) = 26.700 FSTG(I) = 660.00

HS ...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS ...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19
.....

XS(I) = 29.200 FSTG(I) = 660.00

HS ...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	250.0	600.0	800.0	4700.0	6500.0	7000.0
BSS ...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20

XS(I) = 31.500 FSTG(I) = 660.00

HS ...	600.0	620.0	640.0	660.0	670.0	680.0	700.0
BS ...	.0	1400.0	2000.0	2400.0	2800.0	3000.0	4000.0
BSS ...	.0	.0	.0	2330.0	3150.0	4320.0	5764.0

CROSS-SECTION NUMBER 21

XS(I) = 36.800 FSTG(I) = 660.00

HS ...	589.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	600.0	1500.0	1700.0	2200.0	2900.0	3500.0
BSS ...	.0	.0	.0	50.0	3664.0	5720.0	8808.0

CROSS-SECTION NUMBER 22

XS(I) = 40.100 FSTG(I) = 660.00

HS ...	583.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	600.0	800.0	900.0	1100.0	1200.0
BSS ...	.0	.0	.0	50.0	384.0	1900.0	3444.0

CROSS-SECTION NUMBER 23

XS(I) = 41.100 FSTG(I) = 660.00

HS ...	540.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	1500.0	1900.0	2000.0	2150.0	2350.0	3100.0
BSS ...	.0	.0	.0	50.0	10358.0	15200.0	20109.0

CROSS-SECTION NUMBER 24

XS(I) = 42.800 FSTG(I) = 660.00

HS ...	520.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	2000.0	4300.0	5700.0	11000.0	13000.0	14000.0
BSS ...	.0	.0	3500.0	4000.0	34673.0	68200.0	101803.0

CROSS-SECTION NUMBER 25

XS(I) = 49.900 FSTG(I) = 660.00

HS ...	497.0	500.0	600.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	3500.0	4200.0	10000.0	10700.0	11200.0
BSS ...	.0	.0	1000.0	1800.0	18239.0	29500.0	40619.0

CROSS-SECTION NUMBER 26

XS(I) = 53.900 FSTG(I) = 660.00

HS ...	490.0	540.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	1500.0	12000.0	14000.0	14700.0	15000.0	16200.0
BSS ...	.0	.0	.0	50.0	100.0	1500.0	2400.0

CROSS-SECTION NUMBER 27
.....

XS(I) = 54.400 FSTG(I) = 496.80

HS ...	485.0	500.0	520.0	540.0	560.0	580.0	600.0
BS ...	.0	1000.0	1100.0	1200.0	1250.0	2100.0	2300.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28
.....

XS(I) = 55.700 FSTG(I) = 482.00

HS ...	474.0	480.0	500.0	520.0	540.0	580.0	600.0
BS ...	.0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS ...	.0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29
.....

XS(I) = 69.700 FSTG(I) = 477.00

HS ...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30
.....

XS(I) = 72.300 FSTG(I) = 477.00

HS ...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31
.....

XS(I) = 79.900 FSTG(I) = 477.00

HS ...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS ...	.0	1500.0	1800.0	2000.0	2200.0	3800.0	6000.0
BSS ...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHS
(CM(K,I), K=1,NCS) WHERE I = REACH NUMBER
.....

REACH 1 ...	.030	.030	.030	.030	.030	.030	.030
REACH 2 ...	.030	.030	.035	.040	.050	.070	.080
REACH 3 ...	.030	.030	.030	.035	.040	.050	.080
REACH 4 ...	.030	.030	.030	.035	.040	.050	.080
REACH 5 ...	.030	.030	.030	.035	.040	.050	.080
REACH 6 ...	.030	.030	.030	.030	.035	.050	.080
REACH 7 ...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.060	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.030	.060	.080
REACH 27 ...	.030	.030	.030	.035	.030	.060	.080
REACH 28 ...	.030	.030	.030	.035	.030	.060	.080
REACH 29 ...	.030	.030	.030	.035	.030	.060	.080
REACH 30 ...	.030	.030	.030	.035	.030	.060	.080

1

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FXC(I)

REACH NUMBER	DXM(I)	FXC(I)
1	-101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.500	.000
8	.200	.000
9	.500	.000
10	1.500	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET QLL		.000
INITIAL SIZE OF TIME STEP	HOUR	DTMH	.0500
DOWNSTREAM BOUNDARY PARAMETER	FEET	YDN	.000700
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPM	SOM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOUR	TFI	.00

NPLD= 1

III= 1 NXPI(K,III)= 9 NXPN(K,III)= 10 NQLP(K)= 0 PWELV(K,III)= 720.10 PCWR(K,III)= 3.20 PEC(K)= 794.61 QMINP(K)= .00

(PSA(I,K),I=1,8)
58854.00 353605.00 485177.00 535128.00 644168.00 703866.00 767766.00 808172.00

(PEL(I,K),I=1,8)
720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(OPU(I,K),I=1,ITEM)
.00 .00 .00 .00 .00 .00 .00 .00

(COFF(I,K),I=1,8)
.00 .00 .00 .00 .00 .00 .00 .00

(HCFF(I,K),I=1,8)
900.00 .00 .00 .00 .00 .00 .00 .00
NPM= 0

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) = 183 (MAXIMUM ALLOWABLE = 250)

*** SUMMARY OF OUTPUT DATA ***

CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESSAGE
1	.10	746.00				
2	.13	745.00				
3	1.32	731.00	1	.03	33.33	
4	2.91	715.00	2	1.19	11.76	
5	3.82	710.00	3	1.59	10.06	
6	6.47	693.00	4	.91	5.49	
7	8.21	680.00	5	2.65	6.42	
8	10.48	672.00	6	1.74	7.47	
9	13.90	648.00	7	2.27	3.52	
10	14.10	647.40	8	3.42	7.02	
11	14.20	647.00	9	.20	3.00	
12	14.80	646.00	10	.10	4.00	
13	16.40	645.00	11	.60	1.67	
14	17.80	644.00	12	1.60	.63	
15	20.30	633.00	13	1.40	.71	
16	21.90	628.00	14	2.50	4.40	
17	25.10	620.00	15	1.60	3.12	
18	26.70	614.00	16	3.20	2.50	
19	29.20	607.00	17	1.60	3.75	
20	31.50	600.00	18	2.50	2.80	
21	36.80	589.00	19	2.30	3.04	
22	40.10	583.00	20	5.30	2.08	
23	41.10	540.00	21	3.30	1.82	
24	42.80	520.00	22	1.00	43.00	
25	49.90	497.00	23	1.70	11.76	
26	53.90	490.00	24	7.10	3.24	
27	54.40	485.00	25	4.00	1.75	
28	55.70	474.00	26	.50	10.00	
29	69.70	405.00	27	1.30	8.46	
30	72.30	387.00	28	14.00	4.93	
31	79.90	330.00	29	2.60	6.92	
			30	7.60	7.50	

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1
IDAM(2) = 75
IDAM(3) = 140

SNC(K,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS

NN(NS) 183

NUMBER OF TIME STEPS

NNU 7

ROUTING COMPLETED.

KTIME= 1001 ALLOWABLE KTIME=9999 TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/KRO FAILURE
 BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
1.100	1084.98	4053787	.000	14.13	1109.00	.00
1.130	877.40	4053787	4.450	21.79	800.00	1.45
1.238	877.02	4032260	4.450	21.38	800.00	1.45
1.346	876.64	4010478	4.450	20.94	800.00	1.45
1.455	876.25	3988465	4.450	20.47	800.00	1.50
1.563	875.86	3966253	4.450	19.98	800.00	1.50
1.671	875.47	3943898	4.500	19.47	800.00	1.50
1.779	875.10	3921404	4.500	18.95	800.00	1.50
1.887	874.75	3898613	4.500	18.41	800.00	1.50
1.995	874.41	3875416	4.500	17.86	800.00	1.55
2.104	874.10	3851835	4.550	17.28	800.00	1.55
2.212	873.82	3827866	4.550	16.70	800.00	1.55
2.320	873.55	3803215	4.550	16.11	800.00	1.55
2.426	873.23	3788297	4.550	16.16	800.00	1.55
2.532	872.90	3765560	4.600	16.20	800.00	1.55
2.638	872.58	3740005	4.600	16.23	800.00	1.55
2.744	872.25	3711651	4.600	16.25	800.00	1.55
2.850	871.91	3680536	4.600	16.27	800.00	1.60
2.956	871.56	3646705	4.650	16.28	800.00	1.60
3.062	871.22	3610213	4.650	16.29	800.00	1.60
3.168	870.87	3571127	4.650	16.28	800.00	1.60
3.274	870.51	3529514	4.650	16.27	800.00	1.60
3.380	870.14	3485448	4.650	16.26	800.00	1.60
3.486	869.76	3439003	4.700	16.23	800.00	1.60
3.592	869.37	3390262	4.700	16.20	800.00	1.65
3.698	868.97	3341976	4.700	16.17	800.00	1.65
3.804	868.56	3294954	4.700	16.12	800.00	1.65
3.910	868.13	3245818	4.700	16.07	800.00	1.65
4.013	867.63	3192028	4.750	16.00	800.00	1.70
4.117	867.14	2975485	4.800	23.49	800.00	1.75
4.220	866.61	2873417	4.900	35.84	800.00	1.85
4.324	866.16	2813994	4.900	34.84	800.00	1.85
4.428	865.76	2763509	4.850	34.07	800.00	1.90
4.532	865.10	2722173	4.900	33.47	800.00	1.95
4.635	837.36	2689897	5.150	33.04	800.00	1.95
4.739	834.87	2666635	5.250	32.75	800.00	2.00
4.843	832.53	2650932	5.350	32.64	800.00	2.05
4.947	830.36	2642038	5.450	32.66	800.00	2.10
5.051	828.32	2638056	5.500	32.81	800.00	2.15
5.155	826.40	2630242	5.550	33.14	800.00	2.25
5.258	824.58	2623621	5.550	33.73	800.00	2.35
5.362	822.87	2616224	5.600	34.66	800.00	2.45
5.466	821.24	2607979	5.650	36.01	800.00	2.55
5.570	819.72	2598302	5.650	38.30	800.00	2.70
5.674	822.62	2586758	5.550	27.31	800.00	2.45
5.778	823.94	2572387	5.500	22.17	800.00	2.40
5.882	824.62	2553025	5.500	18.74	800.00	2.40
5.986	824.98	2528306	5.450	16.21	800.00	2.35

PROFILE OF CRESTS AND TIMES FOR JOC/KRO FAILURE
 BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
7.557	825.16	2488500	5.450	14.21	800.00	2.35
7.775	825.24	2462368	5.400	12.58	800.00	2.35
7.992	825.25	2420068	5.400	11.20	800.00	2.35
8.210	825.20	2374351	5.400	10.01	800.00	2.35
8.777	824.99	2495685	5.350	8.54	800.00	2.35
9.345	824.78	2631597	5.350	7.59	800.00	2.35
9.912	824.59	2729358	5.300	6.82	800.00	2.35
10.480	824.42	2894621	5.300	6.15	800.00	2.35
10.681	824.33	2826027	5.300	6.25	800.00	2.40
10.882	824.23	2845862	5.300	6.35	800.00	2.40
11.084	824.13	2864070	5.300	6.46	800.00	2.40
11.285	824.03	2880636	5.300	6.58	800.00	2.40
11.486	823.92	2895590	5.300	6.71	800.00	2.40
11.687	823.81	2908997	5.250	6.84	800.00	2.40
11.888	823.69	2925875	5.250	6.99	800.00	2.40
12.089	823.57	2941583	5.250	7.14	800.00	2.40
12.291	823.44	2955763	5.250	7.33	800.00	2.40
12.492	823.31	2968334	5.250	7.53	800.00	2.40
12.693	823.16	2979201	5.250	7.74	800.00	2.40
12.894	823.01	2988358	5.250	7.98	800.00	2.40

13.095	822.84	2995921	5.200	8.24	800.00	2.40
13.296	822.66	3005522	5.200	8.53	800.00	2.40
13.498	822.47	3016389	5.200	8.85	800.00	2.40
13.699	822.25	3024745	5.200	9.22	800.00	2.45
13.900	822.02	3029916	5.150	9.64	800.00	2.45
14.100	822.34	3221308	5.100	10.42	800.00	2.40
14.200	822.29	3224424	5.100	10.45	800.00	2.40
14.800	803.01	3224424	7.150	18.53	669.00	1.80
14.900	802.81	3172081	7.150	17.75	668.88	1.80
15.000	802.60	3120051	7.150	17.01	668.75	1.80
15.100	802.38	3068396	7.150	16.29	668.63	1.80
15.200	802.17	3017192	7.150	15.60	668.50	1.80
15.300	801.95	2965525	7.150	14.98	668.38	1.85
15.400	801.73	2916494	7.150	14.35	668.25	1.85
15.500	801.51	2867187	7.200	14.18	668.13	1.85
15.600	801.29	2823051	7.200	13.84	668.00	1.85
15.700	801.07	2782172	7.200	13.55	667.88	1.85
15.800	800.84	2741586	7.200	13.31	667.75	1.85
15.900	800.62	2701430	7.200	13.10	667.63	1.90
16.000	800.39	2661823	7.200	12.95	667.50	1.90
16.100	800.17	2622866	7.200	12.81	667.38	1.90
16.200	799.94	2584651	7.200	12.68	667.25	1.90
16.300	799.71	2547256	7.200	12.56	667.13	1.90
16.400	799.49	2510744	7.250	12.45	667.00	1.90
16.500	799.26	2477551	7.250	12.34	666.86	1.90
16.600	799.02	2446080	7.250	12.23	666.71	1.90
16.700	798.78	2414325	7.250	12.11	666.57	1.95
16.800	798.54	2382312	7.250	12.01	666.43	1.95

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
 BELOW JOCASSED HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	798.29	2350066	7.250	11.90	666.29	1.95
17.000	798.03	2317615	7.250	11.79	666.14	1.95
17.100	797.77	2284981	7.250	11.69	666.00	1.95
17.200	797.50	2253556	7.250	11.59	665.86	1.95
17.300	797.22	2224893	7.250	11.48	665.71	1.95
17.400	796.94	2196036	7.250	11.39	665.57	2.00
17.500	796.65	2167036	7.250	11.29	665.43	2.00
17.600	796.35	2138074	7.300	11.20	665.29	2.00
17.700	796.05	2112353	7.300	11.10	665.14	2.00
17.800	795.74	2089608	7.300	11.01	665.00	2.00
18.113	794.51	2036149	7.300	11.36	664.55	2.05
18.425	793.02	2003015	7.300	11.85	664.10	2.10
18.738	791.19	1981386	7.350	12.51	663.65	2.10
19.050	788.88	1963462	7.350	13.48	663.20	2.15
19.363	785.87	1947987	7.350	14.86	662.75	2.20
19.675	781.80	1930793	7.400	16.88	662.30	2.20
19.988	775.96	1935680	7.450	20.00	661.85	2.25
20.300	766.94	1933550	7.500	25.25	661.40	2.25
21.900	740.31	1894009	9.150	25.33	660.60	2.50
25.100	720.94	1601830	11.150	17.95	660.00	3.75
25.633	717.94	1530362	11.400	16.30	660.00	4.05
26.167	714.78	1473597	11.750	14.23	660.00	4.30
26.700	711.90	1438155	12.150	11.49	660.00	4.50
29.200	700.62	1356487	14.950	16.18	660.00	6.05
29.775	698.66	1339307	15.100	11.80	660.00	6.05
30.350	696.94	1318939	15.300	10.68	660.00	6.15
30.925	695.41	1296242	15.450	9.48	660.00	6.25
31.500	693.99	1272200	15.600	8.26	660.00	6.30
34.150	687.48	1192764	16.450	7.79	660.00	6.90
36.800	680.94	1143809	17.600	8.15	660.00	7.90
40.100	671.09	1114864	20.850	24.28	660.00	15.00
41.100	671.53	1102409	27.400	6.49	660.00	10.95
42.800	671.52	1009852	27.450	2.20	660.00	10.90
43.814	671.50	924683	27.500	1.95	660.00	10.95
44.829	671.48	844657	27.550	1.73	660.00	10.95
45.843	671.46	769003	27.600	1.54	660.00	11.00
46.857	671.44	700164	27.600	1.37	660.00	11.00
47.871	671.42	637384	27.650	1.23	660.00	11.00
48.886	671.41	586456	27.650	1.10	660.00	11.00
49.900	671.39	544051	27.650	.99	660.00	11.00
50.900	671.39	512331	27.650	.61	660.00	11.00
51.900	671.38	494164	27.650	.45	660.00	11.00
52.900	671.38	486767	27.650	.38	660.00	11.00
53.900	671.38	485022	27.650	.33	660.00	11.00
54.400	513.88	485022	26.550	22.22	496.80	.10
55.050	500.60	485003	28.450	20.89	489.40	.30
55.700	499.54	484873	28.550	11.09	482.00	.35
56.200	497.40	484723	28.700	11.08	481.82	.60

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
 BELOW JOCASSED HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
56.700	495.28	484556	28.900	11.07	481.64	.90
57.200	493.16	484372	29.100	11.05	481.46	1.25
57.700	491.05	484173	29.300	11.02	481.29	1.85
58.200	488.95	483958	29.500	11.00	481.11	13.15
58.700	486.84	483728	29.700	10.97	480.93	14.13
59.200	484.74	483487	29.900	10.94	480.75	17.55
59.700	482.64	483238	30.100	10.91	480.57	20.95
60.200	480.55	482981	30.300	10.87	480.39	27.75
60.700	478.46	482723	30.500	10.84	480.21	.00
61.200	476.37	482464	30.700	10.80	480.04	.00
61.700	474.28	482209	30.900	10.76	479.86	.00
62.200	472.19	481959	31.050	10.72	479.68	.00
62.700	470.10	481717	31.250	10.68	479.50	.00
63.200	468.01	481489	31.400	10.63	479.32	.00
63.700	465.92	481275	31.550	10.59	479.14	.00
64.200	463.82	481079	31.700	10.55	478.96	.00
64.700	461.72	480902	31.850	10.51	478.79	.00
65.200	459.61	480744	31.950	10.47	478.61	.00
65.700	457.49	480608	32.050	10.44	478.43	.00
66.200	455.35	480493	32.150	10.42	478.25	.00
66.700	453.20	480399	32.250	10.40	478.07	.00
67.200	451.01	480326	32.300	10.40	477.89	.00
67.700	448.78	480270	32.400	10.41	477.71	.00
68.200	446.50	480229	32.450	10.46	477.54	.00
68.700	444.14	480201	32.450	10.54	477.36	.00
69.200	441.65	480183	32.500	10.69	477.18	.00
69.700	438.98	480171	32.550	10.94	477.00	.00
70.220	435.70	480163	32.600	11.84	477.00	.00
70.740	432.11	480156	32.600	12.70	477.00	.00
71.260	428.41	480151	32.650	13.36	477.00	.00
71.780	424.58	480147	32.700	13.80	477.00	.00
72.300	420.55	480144	32.750	14.16	477.00	.00
73.386	412.14	480138	32.800	14.24	477.00	.00
74.471	403.75	480132	32.850	14.31	477.00	.00
75.557	395.42	480124	33.000	14.31	477.00	.00
76.643	387.87	480106	33.200	13.80	477.00	.00
77.729	382.92	480074	33.300	11.95	477.00	.00
78.814	380.55	480046	33.350	11.04	477.00	.00
79.900	379.49	480033	33.350	7.76	477.00	.00

K	TTF(K)	YC(K,1), I=1,NTT)
1	.000	1084.97
2	.050	1084.95
3	.100	1084.94
4	.150	1084.92
5	.200	1084.90
6	.250	1084.89
7	.300	1084.87
8	.350	1084.85
9	.400	1084.84
10	.450	1084.87
11	.500	1084.81
12	.550	1084.79
13	.600	1084.77
14	.650	1084.76
15	.700	1084.73
16	.750	1084.71
17	.800	1084.68
18	.850	1084.64
19	.900	1084.60
20	.950	1084.55
21	1.000	1084.49
22	1.050	1084.43
23	1.100	1084.35
24	1.150	1084.26
25	1.200	1084.16
26	1.250	1084.04
27	1.300	1083.90
28	1.350	1083.75
29	1.400	1083.58
30	1.450	1083.39
31	1.500	1083.18
32	1.550	1082.95
33	1.600	1082.69
34	1.650	1082.40
35	1.700	1082.09
36	1.750	1081.75
37	1.800	1081.38
38	1.850	1080.97
39	1.900	1080.53
40	1.950	1080.05

41	2.000	1079.54	805.90	797.87	797.87	797.88	479.24
42	2.050	1078.99	806.73	798.13	798.14	798.14	479.79
43	2.100	1078.40	807.61	798.39	798.41	798.41	480.22
44	2.150	1077.76	808.54	798.66	798.67	798.67	480.59
45	2.200	1077.08	809.52	798.91	798.93	798.93	480.93
46	2.250	1076.36	810.54	799.17	799.20	799.20	481.30
47	2.300	1075.59	811.61	799.43	799.46	799.46	481.69
48	2.350	1074.77	812.73	799.70	799.73	799.73	482.07
49	2.400	1073.90	813.89	799.97	800.01	800.01	482.45
50	2.450	1072.98	815.09	800.26	800.31	800.31	482.83
51	2.500	1072.01	816.34	800.58	800.62	800.62	483.19
52	2.550	1070.98	817.63	800.91	800.96	800.96	483.56
53	2.600	1069.90	818.96	801.25	801.31	801.31	483.92
54	2.650	1068.76	820.32	801.61	801.68	801.68	484.27
55	2.700	1067.56	821.72	801.99	802.06	802.06	484.62
56	2.750	1066.30	823.17	802.37	802.45	802.45	484.97
57	2.800	1064.98	824.66	802.75	802.85	802.85	485.31
58	2.850	1063.60	826.20	803.15	803.26	803.26	485.65
59	2.900	1062.16	827.79	803.56	803.68	803.68	485.99
60	2.950	1060.65	829.42	803.99	804.11	804.11	486.33
61	3.000	1059.08	831.08	804.42	804.55	804.55	486.66
62	3.050	1057.44	832.78	804.86	805.01	805.01	487.00
63	3.100	1055.72	834.50	805.31	805.47	805.47	487.33
64	3.150	1053.94	836.25	805.77	805.94	805.94	487.66
65	3.200	1052.08	838.03	806.23	806.41	806.41	487.99
66	3.250	1050.15	839.82	806.71	806.89	806.89	488.31
67	3.300	1048.15	841.62	807.16	807.36	807.36	488.63
68	3.350	1046.06	843.44	807.65	807.86	807.86	488.96
69	3.400	1043.90	845.26	808.14	808.36	808.36	489.28
70	3.450	1041.66	847.09	808.64	808.87	808.87	489.60
71	3.500	1039.33	848.92	809.15	809.39	809.39	489.92
72	3.550	1036.92	850.76	809.67	809.92	809.92	490.24
73	3.600	1034.43	852.58	810.19	810.46	810.46	490.56
74	3.650	1031.85	854.41	810.72	811.00	811.00	490.89
75	3.700	1029.18	856.23	811.27	811.55	811.55	491.21
76	3.750	1026.43	858.04	811.81	812.11	812.11	491.53
77	3.800	1023.58	859.85	812.36	812.67	812.67	491.85
78	3.850	1020.63	861.64	812.92	813.24	813.24	492.18
79	3.900	1017.59	863.42	813.48	813.80	813.80	492.50
80	3.950	1014.46	865.19	814.04	814.37	814.37	492.82
81	4.000	1011.22	866.94	814.61	814.95	814.95	493.15
82	4.050	1007.95	868.43	815.16	815.51	815.50	493.67
83	4.100	1004.73	869.48	815.70	816.05	816.05	494.42
84	4.150	1001.56	870.35	816.23	816.59	816.58	495.34
85	4.200	998.43	871.17	816.75	817.12	817.11	496.43
86	4.250	995.34	871.85	817.26	817.64	817.63	497.69
87	4.300	992.30	872.42	817.76	818.14	818.13	499.11
88	4.350	989.30	872.87	818.24	818.63	818.62	500.72
89	4.400	986.34	873.19	818.70	819.10	819.09	502.52
90	4.450	983.42	873.40	819.12	819.53	819.52	504.48
91	4.500	980.54	873.52	819.48	819.89	819.88	506.56
92	4.550	977.71	873.55	819.83	820.25	820.23	508.83
93	4.600	974.91	873.53	820.15	820.57	820.55	511.20
94	4.650	972.15	873.44	820.45	820.87	820.84	513.72
95	4.700	969.43	873.31	820.73	821.14	821.12	516.38
96	4.750	966.75	873.12	820.98	821.39	821.37	519.16
97	4.800	964.10	872.88	821.21	821.61	821.59	522.16
98	4.850	961.49	872.60	821.41	821.81	821.78	525.20
99	4.900	958.92	872.27	821.58	821.97	821.94	528.26
100	4.950	956.38	871.90	821.73	822.11	822.07	531.27
101	5.000	953.87	871.48	821.85	822.22	822.18	534.17
102	5.050	951.40	871.02	821.95	822.30	822.25	536.98
103	5.100	948.97	870.52	822.01	822.34	822.29	539.73
104	5.150	946.57	869.97	822.02	822.33	822.28	542.41
105	5.200	944.20	869.38	822.02	822.31	822.24	545.04
106	5.250	941.86	868.75	821.98	822.24	822.17	547.65
107	5.300	939.55	868.08	821.91	822.14	822.07	550.22
108	5.350	937.28	867.37	821.80	822.01	821.92	552.78
109	5.400	935.04	866.63	821.67	821.83	821.74	555.33
110	5.450	932.82	865.87	821.49	821.62	821.52	557.87
111	5.500	930.64	865.07	821.28	821.36	821.25	560.41
112	5.550	928.49	864.25	821.02	821.05	820.93	562.97
113	5.600	926.36	863.42	820.72	820.70	820.57	565.59
114	5.650	924.27	862.56	820.38	820.29	820.15	568.28
115	5.700	922.20	861.68	819.97	819.82	819.67	571.03
116	5.750	920.16	860.79	819.51	819.29	819.12	573.86
117	5.800	918.15	859.88	818.96	818.67	818.48	576.76
118	5.850	916.17	858.95	818.33	817.96	817.76	579.69
119	5.900	914.21	858.01	817.62	817.21	816.99	582.57
120	5.950	912.28	857.06	817.24	816.67	816.46	585.39
121	6.000	910.37	856.09	817.00	816.27	816.05	588.08
122	6.050	908.50	855.12	816.78	815.94	815.73	590.57
123	6.100	906.64	854.13	816.69	815.99	815.87	592.47
124	6.150	904.81	853.13	816.71	816.07	815.92	594.06
125	6.200	903.01	852.12	816.66	816.09	815.96	595.45
126	6.250	901.23	851.11	816.62	816.09	815.97	596.65
127	6.300	899.48	850.08	816.56	816.06	815.95	597.70
128	6.350	897.75	849.05	816.49	816.01	815.90	598.61
129	6.400	896.04	848.01	816.40	815.93	815.83	599.40
130	6.450	894.36	846.97	816.30	815.83	815.73	600.07
131	6.500	892.71	845.92	816.19	815.71	815.62	600.64
132	6.550	891.07	844.86	816.08	815.59	815.51	601.12
133	6.600	889.47	843.79	815.96	815.47	815.39	601.52
134	6.650	887.88	842.71	815.84	815.35	815.27	601.86
135	6.700	886.32	841.62	815.73	815.23	815.15	602.13

136	6.750	884.78	840.52	815.61	815.11	815.03	802.36
137	6.800	883.26	839.41	815.50	814.99	814.91	802.54
138	6.850	881.77	838.29	815.38	814.87	814.80	802.69
139	6.900	880.30	837.15	815.26	814.75	814.67	802.80
140	6.950	878.85	836.00	815.14	814.62	814.55	802.89
141	7.000	877.42	834.85	815.01	814.49	814.42	802.95
142	7.050	876.01	833.68	814.89	814.36	814.29	802.99
143	7.100	874.62	832.51	814.75	814.22	814.15	803.01
144	7.150	873.25	831.34	814.62	814.08	814.01	803.01
145	7.200	871.91	830.19	814.47	813.93	813.86	803.00
146	7.250	870.58	829.06	814.33	813.77	813.71	802.96
147	7.300	869.27	827.96	814.17	813.61	813.54	802.91
148	7.350	867.98	826.88	814.01	813.44	813.37	802.84
149	7.400	866.72	825.84	813.84	813.26	813.19	802.76
150	7.450	865.47	824.82	813.65	813.06	812.99	802.66
151	7.500	864.24	823.84	813.47	812.86	812.79	802.55
152	7.550	863.02	822.89	813.27	812.65	812.59	802.42
153	7.600	861.83	821.98	813.06	812.43	812.37	802.28
154	7.650	860.66	821.10	812.85	812.21	812.15	802.14
155	7.700	859.50	820.25	812.63	811.98	811.92	801.98
156	7.750	858.36	819.44	812.41	811.74	811.68	801.81
157	7.800	857.24	818.66	812.18	811.50	811.44	801.64
158	7.850	856.13	817.92	811.95	811.25	811.19	801.46
159	7.900	855.04	817.21	811.71	811.00	810.94	801.27
160	7.950	853.97	816.54	811.46	810.74	810.68	801.07
161	8.000	852.92	815.89	811.21	810.48	810.42	800.87
162	8.050	851.88	815.28	810.96	810.21	810.15	800.66
163	8.100	850.86	814.69	810.70	809.94	809.88	800.44
164	8.150	849.86	814.13	810.44	809.67	809.61	800.22
165	8.200	848.87	813.60	810.17	809.40	809.34	799.99
166	8.250	847.90	813.10	809.91	809.12	809.06	799.76
167	8.300	846.95	812.61	809.64	808.84	808.78	799.53
168	8.350	846.02	812.15	809.36	808.56	808.50	799.29
169	8.400	845.10	811.71	809.09	808.28	808.22	799.05
170	8.450	844.19	811.29	808.81	807.99	807.93	798.81
171	8.500	843.30	810.88	808.54	807.71	807.65	798.57
172	8.550	842.43	810.49	808.26	807.42	807.36	798.32
173	8.600	841.57	810.12	807.98	807.14	807.08	798.07
174	8.650	840.73	809.75	807.70	806.85	806.79	797.82
175	8.700	839.91	809.40	807.42	806.56	806.50	797.56
176	8.750	839.10	809.06	807.12	806.26	806.20	797.30
177	8.800	838.30	808.72	806.83	805.97	805.91	797.05
178	8.850	837.52	808.40	806.54	805.68	805.62	796.79
179	8.900	836.75	808.07	806.26	805.39	805.33	796.53
180	8.950	836.00	807.76	805.97	805.10	805.04	796.27
181	9.000	835.26	807.44	805.68	804.81	804.75	796.00
182	9.050	834.54	807.13	805.40	804.52	804.46	795.74
183	9.100	833.83	806.83	805.11	804.23	804.17	795.48
184	9.150	833.14	806.52	804.82	803.94	803.88	795.22
185	9.200	832.46	806.22	804.54	803.65	803.60	794.96
186	9.250	831.79	805.91	804.25	803.37	803.31	794.69
187	9.300	831.14	805.61	803.97	803.08	803.02	794.43
188	9.350	830.50	805.30	803.68	802.79	802.73	794.16
189	9.400	829.87	804.99	803.39	802.50	802.44	793.90
190	9.450	829.26	804.68	803.11	802.21	802.15	793.64
191	9.500	828.66	804.37	802.82	801.92	801.86	793.37
192	9.550	828.07	804.05	802.54	801.64	801.58	793.11
193	9.600	827.50	803.74	802.25	801.35	801.29	792.84
194	9.650	826.94	803.42	801.97	801.06	801.00	792.58
195	9.700	826.39	803.10	801.68	800.78	800.72	792.31
196	9.750	825.86	802.78	801.40	800.49	800.43	792.05
197	9.800	825.34	802.47	801.12	800.20	800.14	791.79
198	9.850	824.83	802.15	800.83	799.92	799.86	791.52
199	9.900	824.33	801.83	800.55	799.63	799.57	791.26
200	9.950	823.84	801.51	800.26	799.34	799.29	790.99
201	10.000	823.37	801.19	799.98	799.06	799.00	790.73
202	10.050	822.91	800.88	799.70	798.77	798.71	790.46
203	10.100	822.46	800.56	799.41	798.48	798.42	790.20
204	10.150	822.02	800.25	799.12	798.19	798.14	789.94
205	10.200	821.59	799.94	798.84	797.91	797.85	789.67
206	10.250	821.17	799.63	798.55	797.62	797.56	789.41
207	10.300	820.77	799.32	798.30	797.41	797.37	789.06
208	10.350	820.38	799.01	798.08	797.23	797.19	788.65
209	10.400	819.99	798.71	797.87	797.07	797.03	788.18
210	10.450	819.62	798.41	797.63	796.81	796.76	787.80
211	10.500	819.27	798.11	797.35	796.52	796.47	787.45
212	10.550	818.92	797.81	797.03	796.21	796.16	787.10
213	10.600	818.59	797.52	796.75	795.92	795.87	786.76
214	10.650	818.27	797.22	796.46	795.63	795.58	786.41
215	10.700	817.96	796.93	796.18	795.34	795.29	786.07
216	10.750	817.66	796.65	795.90	795.06	795.01	785.73
217	10.800	817.37	796.36	795.62	794.78	794.73	785.39
218	10.850	817.10	796.08	795.36	794.51	794.46	785.06
219	10.900	816.83	795.81	795.09	794.25	794.20	784.73
220	10.950	816.58	795.55	794.83	793.98	793.93	784.41
221	11.000	816.33	795.31	794.56	793.72	793.66	784.10
222	11.050	816.09	795.08	794.29	793.44	793.39	783.79
223	11.100	815.86	794.86	794.01	793.16	793.11	783.48
224	11.150	815.64	794.63	793.73	792.88	792.82	783.18
225	11.200	815.43	794.40	793.45	792.59	792.54	782.88
226	11.250	815.23	794.14	793.17	792.31	792.26	782.58
227	11.300	815.04	793.87	792.89	792.03	791.98	782.29
228	11.350	814.85	793.60	792.61	791.75	791.70	782.00
229	11.400	814.67	793.33	792.34	791.47	791.41	781.71
230	11.450	814.50	793.06	792.01	791.14	791.09	781.43

231	11.500	814.34	792.79	791.74	790.87	790.81	781.15
232	11.550	814.18	792.53	791.44	790.58	790.52	780.87
233	11.600	814.03	792.26	791.16	790.29	790.24	780.59
234	11.650	813.88	791.99	790.88	790.01	789.96	780.31
235	11.700	813.75	791.72	790.61	789.74	789.68	780.04
236	11.750	813.62	791.44	790.33	789.46	789.41	779.77
237	11.800	813.49	791.16	790.05	789.18	789.13	779.51
238	11.850	813.37	790.88	789.77	788.90	788.85	779.24
239	11.900	813.26	790.59	789.49	788.62	788.56	778.98
240	11.950	813.15	790.31	789.20	788.33	788.28	778.72
241	12.000	813.05	790.02	788.92	788.04	787.99	778.46
242	12.050	812.95	789.73	788.63	787.75	787.70	778.20
243	12.100	812.86	789.44	788.35	787.46	787.41	777.94
244	12.150	812.77	789.15	788.06	787.17	787.12	777.69
245	12.200	812.68	788.85	787.76	786.89	786.83	777.43
246	12.250	812.61	788.55	787.50	786.60	786.55	777.18
247	12.300	812.53	788.25	787.21	786.32	786.26	776.93
248	12.350	812.46	787.96	786.93	786.03	785.98	776.68
249	12.400	812.40	787.66	786.65	785.75	785.69	776.43
250	12.450	812.34	787.37	786.37	785.46	785.41	776.18
251	12.500	812.28	787.08	786.09	785.18	785.12	775.94
252	12.550	812.23	786.78	785.81	784.89	784.84	775.69
253	12.600	812.18	786.50	785.52	784.61	784.55	775.45
254	12.650	812.13	786.21	785.24	784.32	784.27	775.21
255	12.700	812.09	785.92	784.96	784.04	783.98	774.96
256	12.750	812.05	785.64	784.68	783.76	783.70	774.72
257	12.800	812.01	785.35	784.40	783.47	783.41	774.48
258	12.850	811.98	785.07	784.12	783.19	783.13	774.24
259	12.900	811.95	784.79	783.84	782.90	782.85	774.00
260	12.950	811.92	784.51	783.56	782.62	782.56	773.77
261	13.000	811.90	784.24	783.28	782.34	782.28	773.53
262	13.050	811.88	783.96	783.00	782.05	782.00	773.29
263	13.100	811.86	783.69	782.73	781.77	781.72	773.06
264	13.150	811.85	783.42	782.45	781.49	781.43	772.82
265	13.200	811.83	783.14	782.17	781.21	781.15	772.59
266	13.250	811.82	782.87	781.90	780.93	780.88	772.36
267	13.300	811.82	782.60	781.62	780.65	780.60	772.12
268	13.350	811.81	782.34	781.35	780.38	780.32	771.89
269	13.400	811.81	782.07	781.07	780.10	780.04	771.66
270	13.450	811.81	781.80	780.80	779.82	779.76	771.43
271	13.500	811.81	781.53	780.53	779.55	779.49	771.20
272	13.550	811.81	781.26	780.26	779.27	779.21	770.97
273	13.600	811.82	781.00	779.99	779.00	778.94	770.75
274	13.650	811.83	780.73	779.72	778.72	778.66	770.52
275	13.700	811.84	780.47	779.45	778.45	778.39	770.29
276	13.750	811.85	780.20	779.18	778.18	778.12	770.07
277	13.800	811.86	779.94	778.91	777.91	777.85	769.84
278	13.850	811.87	779.67	778.64	777.63	777.57	769.62
279	13.900	811.89	779.41	778.38	777.36	777.30	769.40
280	13.950	811.91	779.15	778.11	777.09	777.03	769.17
281	14.000	811.93	778.88	777.84	776.82	776.76	768.95
282	14.050	811.95	778.62	777.58	776.56	776.49	768.73
283	14.100	811.97	778.36	777.33	776.31	776.24	768.51
284	14.125	811.98	778.23	777.34	776.40	776.33	768.46
285	14.150	811.99	778.10	777.34	776.43	776.36	768.41
286	14.200	812.01	777.84	777.42	776.46	776.39	768.36
287	14.250	812.02	777.58	777.42	776.47	776.40	768.31
288	14.300	812.04	777.32	777.35	776.47	776.40	768.26
289	14.350	812.06	777.05	777.17	776.46	776.39	768.21
290	14.400	812.07	776.80	777.05	776.45	776.38	768.16
291	14.450	812.09	776.54	777.41	776.44	776.37	768.11
292	14.500	812.11	776.27	777.67	776.43	776.36	768.06
293	14.550	812.12	775.97	777.51	776.42	776.35	768.01
294	14.600	812.13	775.63	777.11	776.41	776.34	767.96
295	14.650	812.15	775.20	776.69	776.40	776.33	767.91
296	14.700	812.16	774.63	776.32	776.39	776.32	767.86
297	14.750	812.17	773.99	776.04	776.38	776.31	767.81
298	14.800	812.19	773.22	775.80	776.37	776.30	767.76
299	14.850	812.20	772.40	775.56	776.36	776.29	767.71
300	14.900	812.21	771.57	775.31	776.35	776.28	767.66
301	14.950	812.22	770.81	775.05	776.34	776.27	767.61
302	15.000	812.23	770.18	774.79	776.33	776.26	767.56
303	15.050	812.24	769.68	774.55	776.32	776.25	767.51
304	15.100	812.25	769.29	774.32	776.31	776.24	767.46
305	15.150	812.26	768.91	774.09	776.30	776.23	767.41
306	15.200	812.27	768.53	773.84	776.29	776.22	767.36
307	15.250	812.28	768.16	773.59	776.28	776.21	767.31
308	15.300	812.29	767.81	773.31	776.27	776.20	767.26
309	15.350	812.30	767.50	773.02	776.26	776.19	767.21
310	15.400	812.31	767.20	772.73	776.25	776.18	767.16
311	15.450	812.32	766.92	772.43	776.24	776.17	767.11
312	15.500	812.33	766.66	772.13	776.23	776.16	767.06
313	15.550	812.33	766.43	771.84	776.22	776.15	767.01
314	15.600	812.34	766.22	771.54	776.21	776.14	766.96
315	15.650	812.35	766.03	771.25	776.20	776.13	766.91
316	15.700	812.36	765.85	770.97	776.19	776.12	766.86
317	15.750	812.36	765.68	770.69	776.18	776.11	766.81
318	15.800	812.37	765.51	770.42	776.17	776.10	766.76
319	15.850	812.38	765.34	770.15	776.16	776.09	766.71
320	15.900	812.38	765.17	769.88	776.15	776.08	766.66
321	15.950	812.39	764.96	769.61	776.14	776.07	766.61
322	16.000	812.39	764.79	769.35	776.13	776.06	766.56
323	16.050	812.40	764.59	769.08	776.12	776.05	766.51
324	16.100	812.40	764.39	768.82	776.11	776.04	766.46
325	16.150	812.41	764.18	768.56	776.10	776.03	766.41

326	16.200	812.41	763.97	762.30	761.61	761.57	750.60
327	16.250	812.42	763.75	762.05	761.36	761.31	750.31
328	16.300	812.42	763.53	761.80	761.10	761.06	750.03
329	16.350	812.43	763.30	761.55	760.85	760.81	749.75
330	16.400	812.43	763.07	761.30	760.60	760.56	749.47
331	16.450	812.44	762.82	761.05	760.35	760.31	749.19
332	16.500	812.44	762.58	760.80	760.11	760.06	748.92
333	16.550	812.45	762.33	760.56	759.86	759.81	748.65
334	16.600	812.45	762.08	760.31	759.61	759.56	748.38
335	16.650	812.45	761.82	760.06	759.36	759.31	748.11
336	16.700	812.46	761.57	759.81	759.11	759.06	747.85
337	16.750	812.46	761.31	759.56	758.86	758.81	747.59
338	16.800	812.46	761.06	759.32	758.61	758.56	747.34
339	16.850	812.47	760.80	759.07	758.36	758.31	747.08
340	16.900	812.47	760.55	758.82	758.11	758.06	746.83
341	16.950	812.47	760.30	758.57	757.86	757.82	746.58
342	17.000	812.48	760.05	758.33	757.61	757.57	746.34
343	17.050	812.48	759.81	758.08	757.37	757.32	746.09
344	17.100	812.48	759.56	757.84	757.12	757.07	745.85
345	17.150	812.49	759.32	757.59	756.87	756.83	745.61
346	17.200	812.49	759.08	757.35	756.63	756.58	745.37
347	17.250	812.49	758.85	757.11	756.38	756.34	745.14
348	17.300	812.49	758.62	756.86	756.14	756.09	744.91
349	17.350	812.50	758.39	756.62	755.89	755.85	744.68
350	17.400	812.50	758.16	756.38	755.65	755.60	744.45
351	17.450	812.50	757.94	756.14	755.40	755.36	744.22
352	17.500	812.50	757.71	755.90	755.16	755.12	743.99
353	17.550	812.51	757.50	755.66	754.92	754.87	743.77
354	17.600	812.51	757.28	755.42	754.68	754.63	743.55
355	17.650	812.51	757.06	755.18	754.44	754.39	743.33
356	17.700	812.51	756.85	754.95	754.20	754.15	743.11
357	17.750	812.51	756.64	754.71	753.96	753.92	742.89
358	17.800	812.52	756.42	754.47	753.72	753.68	742.68
359	17.850	812.52	756.21	754.24	753.49	753.44	742.47
360	17.900	812.52	756.01	754.00	753.25	753.21	742.26
361	17.950	812.52	755.80	753.77	753.02	752.97	742.04
362	18.000	812.52	755.59	753.54	752.78	752.74	741.84
363	18.050	812.52	755.39	753.31	752.55	752.50	741.63
364	18.100	812.53	755.19	753.08	752.32	752.27	741.42
365	18.150	812.53	754.99	752.85	752.09	752.04	741.22
366	18.200	812.53	754.79	752.62	751.86	751.81	741.01
367	18.250	812.53	754.59	752.39	751.63	751.58	740.81
368	18.300	812.53	754.39	752.16	751.40	751.35	740.61
369	18.350	812.53	754.19	751.93	751.17	751.12	740.40
370	18.400	812.53	754.00	751.71	750.94	750.89	740.20
371	18.450	812.53	753.81	751.49	750.71	750.67	740.01
372	18.500	812.54	753.62	751.26	750.48	750.44	739.81
373	18.550	812.54	753.43	751.03	750.26	750.21	739.61
374	18.600	812.54	753.24	750.81	750.03	749.99	739.41
375	18.650	812.54	753.05	750.58	749.81	749.76	739.22
376	18.700	812.54	752.87	750.36	749.59	749.54	739.03
377	18.750	812.54	752.69	750.14	749.36	749.32	738.83
378	18.800	812.54	752.51	749.92	749.14	749.09	738.64
379	18.850	812.54	752.33	749.70	748.92	748.87	738.45
380	18.900	812.54	752.16	749.48	748.69	748.65	738.26
381	18.950	812.54	751.99	749.26	748.47	748.43	738.07
382	19.000	812.55	751.82	749.04	748.25	748.21	737.88
383	19.050	812.55	751.65	748.82	748.03	747.99	737.70
384	19.100	812.55	751.49	748.60	747.81	747.77	737.51
385	19.150	812.55	751.33	748.38	747.60	747.55	737.32
386	19.200	812.55	751.17	748.17	747.38	747.33	737.14
387	19.250	812.55	751.02	747.95	747.16	747.12	736.95
388	19.300	812.55	750.87	747.74	746.95	746.90	736.77
389	19.350	812.55	750.72	747.52	746.73	746.69	736.59
390	19.400	812.55	750.57	747.31	746.51	746.47	736.40
391	19.450	812.55	750.43	747.09	746.30	746.26	736.22
392	19.500	812.55	750.29	746.88	746.09	746.04	736.04
393	19.550	812.55	750.16	746.67	745.87	745.83	735.86
394	19.600	812.55	750.03	746.46	745.66	745.62	735.68
395	19.650	812.55	749.90	746.25	745.45	745.40	735.50
396	19.700	812.56	749.77	746.04	745.24	745.19	735.32
397	19.750	812.56	749.65	745.83	745.03	744.98	735.15
398	19.800	812.56	749.54	745.62	744.82	744.77	734.97
399	19.850	812.56	749.42	745.41	744.61	744.56	734.79
400	19.900	812.56	749.32	745.20	744.40	744.35	734.62
401	19.950	812.56	749.21	744.99	744.19	744.15	734.44
402	20.000	812.56	749.11	744.79	743.98	743.94	734.26
403	20.050	812.56	749.01	744.58	743.77	743.73	734.09
404	20.100	812.56	748.92	744.37	743.57	743.53	733.92
405	20.150	812.56	748.83	744.17	743.36	743.32	733.74
406	20.200	812.56	748.74	743.96	743.16	743.11	733.57
407	20.250	812.56	748.66	743.76	742.95	742.91	733.40
408	20.300	812.56	748.58	743.56	742.75	742.71	733.22
409	20.350	812.56	748.51	743.35	742.55	742.50	733.05
410	20.400	812.56	748.44	743.15	742.34	742.30	732.88
411	20.450	812.56	748.37	742.95	742.14	742.10	732.71
412	20.500	812.56	748.31	742.75	741.94	741.90	732.54
413	20.550	812.56	748.25	742.55	741.74	741.70	732.37
414	20.600	812.56	748.19	742.35	741.54	741.50	732.20
415	20.650	812.56	748.14	742.15	741.34	741.30	732.03
416	20.700	812.56	748.09	741.95	741.14	741.10	731.86
417	20.750	812.56	748.04	741.75	740.94	740.90	731.70
418	20.800	812.56	748.00	741.55	740.74	740.70	731.53
419	20.850	812.56	747.95	741.36	740.54	740.50	731.36
420	20.900	812.56	747.91	741.16	740.35	740.31	731.19

421	20.950	812.56	747.88	740.96	740.15	740.11	731.03
422	21.000	812.56	747.84	740.77	739.95	739.91	730.86
423	21.050	812.56	747.81	740.57	739.76	739.72	730.70
424	21.100	812.57	747.78	740.38	739.56	739.52	730.53
425	21.150	812.57	747.75	740.18	739.37	739.33	730.37
426	21.200	812.57	747.73	739.99	739.18	739.14	730.20
427	21.250	812.57	747.70	739.80	738.98	738.94	730.04
428	21.300	812.57	747.68	739.60	738.79	738.75	729.87
429	21.350	812.57	747.66	739.41	738.60	738.56	729.71
430	21.400	812.57	747.64	739.22	738.41	738.36	729.54
431	21.450	812.57	747.62	739.03	738.21	738.17	729.38
432	21.500	812.57	747.61	738.84	738.02	737.98	729.22
433	21.550	812.57	747.59	738.65	737.83	737.79	729.05
434	21.600	812.57	747.58	738.46	737.64	737.60	728.89
435	21.650	812.57	747.57	738.27	737.45	737.41	728.73
436	21.700	812.57	747.55	738.08	737.26	737.22	728.56
437	21.750	812.57	747.54	737.89	737.07	737.03	728.40
438	21.800	812.57	747.53	737.70	736.88	736.84	728.24
439	21.850	812.57	747.52	737.51	736.69	736.65	728.08
440	21.900	812.57	747.51	737.32	736.51	736.46	727.92
441	21.950	812.57	747.50	737.13	736.32	736.28	727.75
442	22.000	812.57	747.50	736.95	736.13	736.09	727.59
443	22.050	812.57	747.49	736.76	735.95	735.90	727.43
444	22.100	812.57	747.48	736.57	735.76	735.72	727.27
445	22.150	812.57	747.48	736.39	735.57	735.53	727.11
446	22.200	812.57	747.47	736.20	735.39	735.35	726.94
447	22.250	812.57	747.47	736.02	735.20	735.16	726.78
448	22.300	812.57	747.46	735.83	735.02	734.98	726.62
449	22.350	812.57	747.46	735.65	734.84	734.79	726.46
450	22.400	812.57	747.45	735.46	734.65	734.61	726.29
451	22.450	812.57	747.45	735.28	734.47	734.42	726.13
452	22.500	812.57	747.44	735.10	734.28	734.24	725.97
453	22.550	812.57	747.44	734.91	734.10	734.06	725.81
454	22.600	812.57	747.44	734.73	733.92	733.87	725.64
455	22.650	812.57	747.43	734.54	733.73	733.69	725.48
456	22.700	812.57	747.43	734.36	733.55	733.51	725.32
457	22.750	812.57	747.43	734.18	733.37	733.32	725.15
458	22.800	812.57	747.43	733.99	733.18	733.14	724.99
459	22.850	812.57	747.42	733.81	733.00	732.96	724.82
460	22.900	812.57	747.42	733.63	732.82	732.77	724.66
461	22.950	812.57	747.42	733.44	732.63	732.59	724.49
462	23.000	812.57	747.42	733.26	732.45	732.41	724.33
463	23.050	812.57	747.42	733.07	732.27	732.22	724.16
464	23.100	812.57	747.42	732.89	732.08	732.04	723.99
465	23.150	812.57	747.41	732.70	731.90	731.85	723.82
466	23.200	812.57	747.41	732.51	731.71	731.67	723.65
467	23.250	812.57	747.41	732.33	731.53	731.48	723.48
468	23.300	812.57	747.41	732.14	731.34	731.30	723.31
469	23.350	812.57	747.41	731.95	731.16	731.11	723.14
470	23.400	812.57	747.41	731.76	730.97	730.92	722.97
471	23.450	812.57	747.41	731.57	730.78	730.73	722.80
472	23.500	812.57	747.41	731.38	730.59	730.54	722.62
473	23.550	812.57	747.41	731.19	730.40	730.35	722.44
474	23.600	812.57	747.40	731.00	730.21	730.16	722.27
475	23.650	812.57	747.40	730.80	730.02	729.97	722.09
476	23.700	812.57	747.40	730.61	729.82	729.78	721.91
477	23.750	812.57	747.40	730.41	729.63	729.58	721.73
478	23.800	812.57	747.40	730.21	729.43	729.38	721.54
479	23.850	812.57	747.40	730.01	729.23	729.19	721.36
480	23.900	812.57	747.40	729.81	729.03	728.99	721.17
481	23.950	812.57	747.40	729.60	728.83	728.79	720.98
482	24.000	812.57	747.40	729.40	728.63	728.58	720.79
483	24.050	812.57	747.40	729.19	728.43	728.38	720.60
484	24.100	812.57	747.40	728.98	728.22	728.17	720.40
485	24.150	812.57	747.40	728.77	728.01	727.96	720.21
486	24.200	812.57	747.40	728.55	727.80	727.75	720.02
487	24.250	812.57	747.40	728.34	727.59	727.54	719.83
488	24.300	812.57	747.40	728.12	727.38	727.33	719.64
489	24.350	812.57	747.40	727.91	727.17	727.12	719.45
490	24.400	812.57	747.40	727.69	726.95	726.90	719.26
491	24.450	812.57	747.40	727.47	726.74	726.69	719.06
492	24.500	812.57	747.40	727.25	726.52	726.47	718.87
493	24.550	812.57	747.40	727.02	726.30	726.25	718.67
494	24.600	812.57	747.40	726.80	726.08	726.03	718.47
495	24.650	812.57	747.40	726.57	725.86	725.81	718.27
496	24.700	812.57	747.39	726.35	725.63	725.58	718.07
497	24.750	812.57	747.39	726.12	725.41	725.36	717.87
498	24.800	812.57	747.39	725.89	725.18	725.13	717.67
499	24.850	812.57	747.39	725.66	724.96	724.91	717.46
500	24.900	812.57	747.39	725.43	724.73	724.68	717.25
501	24.950	812.57	747.39	725.20	724.50	724.45	717.05
502	25.000	812.57	747.39	724.96	724.27	724.22	716.84
503	25.050	812.57	747.39	724.73	724.04	723.99	716.63
504	25.100	812.57	747.39	724.50	723.81	723.76	716.41
505	25.150	812.57	747.39	724.26	723.58	723.53	716.20
506	25.200	812.57	747.39	724.03	723.35	723.30	715.99
507	25.250	812.57	747.39	723.79	723.12	723.06	715.77
508	25.300	812.57	747.39	723.56	722.88	722.83	715.55
509	25.350	812.57	747.39	723.32	722.65	722.60	715.33
510	25.400	812.57	747.39	723.08	722.42	722.36	715.11
511	25.450	812.57	747.39	722.85	722.18	722.13	714.89
512	25.500	812.57	747.39	722.61	721.95	721.89	714.67
513	25.550	812.57	747.39	722.37	721.71	721.66	714.44
514	25.600	812.57	747.39	722.13	721.48	721.42	714.21
515	25.650	812.57	747.39	721.90	721.24	721.19	713.99

516	25.700	812.57	747.39	721.66	721.01	720.95	713.76
517	25.750	812.57	747.39	721.42	720.77	720.72	713.52
518	25.800	812.57	747.39	721.18	720.54	720.48	713.29
519	25.850	812.57	747.39	720.94	720.30	720.25	713.06
520	25.900	812.57	747.39	720.71	720.07	720.01	712.82
521	25.950	812.57	747.39	720.47	719.83	719.78	712.58
522	26.000	812.57	747.39	720.23	719.59	719.54	712.34
523	26.050	812.57	747.39	719.99	719.36	719.30	712.10
524	26.100	812.57	747.39	719.76	719.12	719.07	711.86
525	26.150	812.57	747.39	719.52	718.89	718.83	711.61
526	26.200	812.57	747.39	719.28	718.65	718.60	711.37
527	26.250	812.57	747.39	719.04	718.42	718.36	711.12
528	26.300	812.57	747.39	718.81	718.19	718.13	710.87
529	26.350	812.57	747.39	718.57	717.95	717.90	710.62
530	26.400	812.57	747.39	718.34	717.72	717.66	710.37
531	26.450	812.57	747.39	718.10	717.48	717.43	710.12
532	26.500	812.57	747.39	717.87	717.25	717.20	709.86
533	26.550	812.57	747.39	717.63	717.02	716.96	709.61
534	26.600	812.57	747.39	717.40	716.79	716.73	709.35
535	26.650	812.57	747.39	717.16	716.56	716.50	709.09
536	26.700	812.57	747.39	716.93	716.32	716.27	708.83
537	26.750	812.57	747.39	716.69	716.09	716.04	708.57
538	26.800	812.57	747.39	716.46	715.86	715.81	708.31
539	26.850	812.57	747.39	716.23	715.63	715.57	708.04
540	26.900	812.57	747.39	716.00	715.40	715.34	707.78
541	26.950	812.57	747.39	715.77	715.17	715.11	707.51
542	27.000	812.57	747.39	715.53	714.94	714.89	707.25
543	27.050	812.57	747.39	715.30	714.71	714.66	706.98
544	27.100	812.57	747.39	715.07	714.49	714.43	706.71
545	27.150	812.57	747.39	714.84	714.26	714.20	706.45
546	27.200	812.57	747.39	714.62	714.03	713.97	706.18
547	27.250	812.57	747.39	714.39	713.81	713.75	705.91
548	27.300	812.57	747.39	714.16	713.58	713.52	705.64
549	27.350	812.57	747.39	713.93	713.36	713.30	705.37
550	27.400	812.57	747.39	713.71	713.13	713.07	705.10
551	27.450	812.57	747.39	713.48	712.91	712.85	704.83
552	27.500	812.57	747.39	713.26	712.69	712.63	704.56
553	27.550	812.57	747.39	713.04	712.46	712.41	704.29
554	27.600	812.57	747.39	712.81	712.24	712.18	704.03
555	27.650	812.57	747.39	712.59	712.02	711.96	703.76
556	27.700	812.57	747.39	712.37	711.80	711.74	703.49
557	27.750	812.57	747.39	712.15	711.59	711.53	703.23
558	27.800	812.57	747.39	711.93	711.37	711.31	702.97
559	27.850	812.57	747.39	711.71	711.15	711.09	702.71
560	27.900	812.57	747.39	711.49	710.93	710.87	702.45
561	27.950	812.57	747.39	711.28	710.72	710.66	702.20
562	28.000	812.57	747.39	711.06	710.51	710.45	701.94
563	28.050	812.57	747.39	710.85	710.29	710.23	701.70
564	28.100	812.57	747.39	710.63	710.08	710.02	701.45
565	28.150	812.57	747.39	710.42	709.87	709.81	701.21
566	28.200	812.57	747.39	710.21	709.66	709.60	700.97
567	28.250	812.57	747.39	709.99	709.45	709.39	700.73
568	28.300	812.57	747.39	709.78	709.24	709.18	700.49
569	28.350	812.57	747.39	709.58	709.03	708.97	700.26
570	28.400	812.57	747.39	709.37	708.83	708.77	700.02
571	28.450	812.57	747.39	709.16	708.62	708.56	699.79
572	28.500	812.57	747.39	708.95	708.42	708.36	699.56
573	28.550	812.57	747.39	708.75	708.21	708.15	699.34
574	28.600	812.57	747.39	708.55	708.01	707.95	699.11
575	28.650	812.57	747.39	708.34	707.81	707.75	698.89
576	28.700	812.57	747.39	708.14	707.61	707.55	698.66
577	28.750	812.57	747.39	707.94	707.41	707.35	698.44
578	28.800	812.57	747.39	707.74	707.21	707.15	698.22
579	28.850	812.57	747.39	707.54	707.02	706.96	698.00
580	28.900	812.57	747.39	707.35	706.82	706.76	697.79
581	28.950	812.57	747.39	707.15	706.63	706.57	697.57
582	29.000	812.57	747.39	706.95	706.43	706.37	697.36
583	29.050	812.57	747.39	706.76	706.24	706.18	697.14
584	29.100	812.57	747.39	706.57	706.05	705.99	696.93
585	29.150	812.57	747.39	706.38	705.86	705.80	696.72
586	29.200	812.57	747.39	706.19	705.67	705.61	696.51
587	29.250	812.57	747.39	706.00	705.48	705.42	696.30
588	29.300	812.57	747.39	705.81	705.30	705.24	696.10
589	29.350	812.57	747.39	705.62	705.11	705.05	695.89
590	29.400	812.57	747.39	705.44	704.93	704.87	695.68
591	29.450	812.57	747.39	705.25	704.75	704.68	695.48
592	29.500	812.57	747.39	705.07	704.56	704.50	695.28
593	29.550	812.57	747.39	704.89	704.38	704.32	695.08
594	29.600	812.57	747.39	704.71	704.20	704.14	694.87
595	29.650	812.57	747.39	704.53	704.03	703.96	694.67
596	29.700	812.57	747.39	704.35	703.85	703.79	694.47
597	29.750	812.57	747.39	704.17	703.67	703.61	694.28
598	29.800	812.57	747.39	703.99	703.50	703.44	694.08
599	29.850	812.57	747.39	703.82	703.33	703.26	693.88
600	29.900	812.57	747.39	703.65	703.15	703.09	693.69
601	29.950	812.57	747.39	703.47	702.98	702.92	693.49
602	30.000	812.57	747.39	703.30	702.81	702.75	693.30
603	30.050	812.57	747.39	703.13	702.65	702.58	693.11
604	30.100	812.57	747.39	702.96	702.48	702.42	692.92
605	30.150	812.57	747.39	702.80	702.31	702.25	692.73
606	30.200	812.57	747.39	702.63	702.15	702.09	692.54
607	30.250	812.57	747.39	702.47	701.99	701.92	692.35
608	30.300	812.57	747.39	702.30	701.82	701.76	692.16
609	30.350	812.57	747.39	702.14	701.66	701.60	691.97
610	30.400	812.57	747.39	701.98	701.50	701.44	691.79

611	30.450	812.57	747.39	701.82	701.35	701.28	691.61
612	30.500	812.57	747.39	701.66	701.19	701.13	691.43
613	30.550	812.57	747.39	701.50	701.03	700.97	691.25
614	30.600	812.57	747.39	701.35	700.88	700.82	691.07
615	30.650	812.57	747.39	701.19	700.73	700.66	690.89
616	30.700	812.57	747.39	701.04	700.57	700.51	690.71
617	30.750	812.57	747.39	700.89	700.42	700.36	690.54
618	30.800	812.57	747.39	700.73	700.27	700.21	690.36
619	30.850	812.57	747.39	700.58	700.12	700.06	690.19
620	30.900	812.57	747.39	700.44	699.98	699.91	690.01
621	30.950	812.57	747.39	700.29	699.83	699.77	689.84
622	31.000	812.57	747.39	700.14	699.69	699.62	689.67
623	31.050	812.57	747.39	700.00	699.54	699.48	689.50
624	31.100	812.57	747.39	699.85	699.40	699.34	689.33
625	31.150	812.57	747.39	699.71	699.26	699.20	689.17
626	31.200	812.57	747.39	699.57	699.12	699.06	689.00
627	31.250	812.57	747.39	699.43	698.98	698.92	688.84
628	31.300	812.57	747.39	699.29	698.84	698.78	688.68
629	31.350	812.57	747.39	699.15	698.71	698.65	688.52
630	31.400	812.57	747.39	699.02	698.57	698.51	688.36
631	31.450	812.57	747.39	698.88	698.44	698.38	688.20
632	31.500	812.57	747.39	698.75	698.31	698.25	688.05
633	31.550	812.57	747.39	698.61	698.18	698.11	687.89
634	31.600	812.57	747.39	698.48	698.05	697.98	687.74
635	31.650	812.57	747.39	698.35	697.92	697.86	687.59
636	31.700	812.57	747.39	698.22	697.79	697.73	687.44
637	31.750	812.57	747.39	698.10	697.66	697.60	687.29
638	31.800	812.57	747.39	697.97	697.54	697.48	687.14
639	31.850	812.57	747.39	697.84	697.41	697.35	687.00
640	31.900	812.57	747.39	697.72	697.29	697.23	686.85
641	31.950	812.57	747.39	697.59	697.17	697.11	686.71
642	32.000	812.57	747.39	697.47	697.05	696.99	686.57
643	32.050	812.57	747.39	697.35	696.93	696.87	686.43
644	32.100	812.57	747.39	697.23	696.81	696.75	686.29
645	32.150	812.57	747.39	697.11	696.70	696.63	686.15
646	32.200	812.57	747.39	697.00	696.58	696.52	686.02
647	32.250	812.57	747.39	696.88	696.46	696.40	685.88
648	32.300	812.57	747.39	696.76	696.35	696.29	685.75
649	32.350	812.57	747.39	696.65	696.24	696.18	685.62
650	32.400	812.57	747.39	696.54	696.13	696.07	685.49
651	32.450	812.57	747.39	696.43	696.02	695.96	685.36
652	32.500	812.57	747.39	696.32	695.91	695.85	685.24
653	32.550	812.57	747.39	696.21	695.80	695.74	685.11
654	32.600	812.57	747.39	696.10	695.69	695.63	684.99
655	32.650	812.57	747.39	695.99	695.59	695.53	684.87
656	32.700	812.57	747.39	695.88	695.48	695.42	684.75
657	32.750	812.57	747.39	695.78	695.38	695.32	684.63
658	32.800	812.57	747.39	695.67	695.28	695.22	684.51
659	32.850	812.57	747.39	695.57	695.18	695.11	684.39
660	32.900	812.57	747.39	695.47	695.07	695.01	684.28
661	32.950	812.57	747.39	695.37	694.98	694.92	684.16
662	33.000	812.57	747.39	695.27	694.88	694.82	684.05
663	33.050	812.57	747.39	695.17	694.78	694.72	683.94
664	33.100	812.57	747.39	695.07	694.68	694.62	683.83
665	33.150	812.57	747.39	694.98	694.59	694.53	683.72
666	33.200	812.57	747.39	694.88	694.50	694.44	683.61
667	33.250	812.57	747.39	694.79	694.40	694.34	683.51
668	33.300	812.57	747.39	694.69	694.31	694.25	683.40
669	33.350	812.57	747.39	694.60	694.22	694.16	683.30
670	33.400	812.57	747.39	694.51	694.13	694.07	683.20
671	33.450	812.57	747.39	694.42	694.04	693.98	683.10
672	33.500	812.57	747.39	694.33	693.95	693.89	683.00
673	33.550	812.57	747.39	694.24	693.87	693.81	682.90
674	33.600	812.57	747.39	694.15	693.78	693.72	682.80
675	33.650	812.57	747.39	694.07	693.69	693.64	682.70
676	33.700	812.57	747.39	693.98	693.61	693.55	682.61
677	33.750	812.57	747.39	693.90	693.53	693.47	682.52
678	33.800	812.57	747.39	693.81	693.45	693.39	682.42
679	33.850	812.57	747.39	693.73	693.36	693.30	682.33
680	33.900	812.57	747.39	693.65	693.28	693.22	682.24
681	33.950	812.57	747.39	693.57	693.20	693.15	682.15
682	34.000	812.57	747.39	693.49	693.13	693.07	682.06
683	34.050	812.57	747.39	693.41	693.05	692.99	681.98
684	34.100	812.57	747.39	693.33	692.97	692.91	681.89
685	34.150	812.57	747.39	693.25	692.90	692.84	681.81
686	34.200	812.57	747.39	693.18	692.82	692.76	681.72
687	34.250	812.57	747.39	693.10	692.75	692.69	681.64
688	34.300	812.57	747.39	693.03	692.67	692.62	681.56
689	34.350	812.57	747.39	692.95	692.60	692.54	681.48
690	34.400	812.57	747.39	692.88	692.53	692.47	681.40
691	34.450	812.57	747.39	692.81	692.46	692.40	681.32
692	34.500	812.57	747.39	692.74	692.39	692.33	681.24
693	34.550	812.57	747.39	692.67	692.32	692.26	681.17
694	34.600	812.57	747.39	692.60	692.25	692.20	681.09
695	34.650	812.57	747.39	692.53	692.19	692.13	681.02
696	34.700	812.57	747.39	692.46	692.12	692.06	680.94
697	34.750	812.57	747.39	692.39	692.05	692.00	680.87
698	34.800	812.57	747.39	692.33	691.99	691.93	680.80
699	34.850	812.57	747.39	692.26	691.92	691.87	680.73
700	34.900	812.57	747.39	692.20	691.86	691.80	680.66
701	34.950	812.57	747.39	692.13	691.80	691.74	680.59
702	35.000	812.57	747.39	692.07	691.74	691.68	680.52
703	35.050	812.57	747.39	692.01	691.68	691.62	680.46
704	35.100	812.57	747.39	691.95	691.62	691.56	680.39
705	35.150	812.57	747.39	691.89	691.56	691.50	680.32

706	35.200	812.57	747.39	691.83	691.50	691.44	680.26
707	35.250	812.57	747.39	691.77	691.44	691.38	680.20
708	35.300	812.57	747.39	691.71	691.38	691.32	680.13
709	35.350	812.57	747.39	691.65	691.32	691.27	680.07
710	35.400	812.57	747.39	691.59	691.27	691.21	680.01
711	35.450	812.57	747.39	691.54	691.21	691.16	679.95
712	35.500	812.57	747.39	691.48	691.16	691.10	679.89
713	35.550	812.57	747.39	691.42	691.10	691.05	679.83
714	35.600	812.57	747.39	691.37	691.05	691.00	679.77
715	35.650	812.57	747.39	691.32	691.00	690.94	679.71
716	35.700	812.57	747.39	691.26	690.95	690.89	679.66
717	35.750	812.57	747.39	691.21	690.89	690.84	679.60
718	35.800	812.57	747.39	691.16	690.84	690.79	679.54
719	35.850	812.57	747.39	691.11	690.79	690.74	679.49
720	35.900	812.57	747.39	691.06	690.74	690.69	679.44
721	35.950	812.57	747.39	691.01	690.70	690.64	679.38
722	36.000	812.57	747.39	690.96	690.65	690.59	679.33
723	36.050	812.57	747.39	690.91	690.60	690.54	679.28
724	36.100	812.57	747.39	690.86	690.55	690.50	679.23
725	36.150	812.57	747.39	690.81	690.51	690.45	679.17
726	36.200	812.57	747.39	690.76	690.46	690.40	679.12
727	36.250	812.57	747.39	690.72	690.41	690.36	679.07
728	36.300	812.57	747.39	690.67	690.37	690.31	679.03
729	36.350	812.57	747.39	690.63	690.32	690.27	678.98
730	36.400	812.57	747.39	690.58	690.28	690.23	678.93
731	36.450	812.57	747.39	690.54	690.24	690.18	678.88
732	36.500	812.57	747.39	690.49	690.20	690.14	678.83
733	36.550	812.57	747.39	690.45	690.15	690.10	678.79
734	36.600	812.57	747.39	690.41	690.11	690.06	678.74
735	36.650	812.57	747.39	690.36	690.07	690.02	678.70
736	36.700	812.57	747.39	690.32	690.03	689.97	678.65
737	36.750	812.57	747.39	690.28	689.99	689.93	678.61
738	36.800	812.57	747.39	690.24	689.95	689.90	678.57
739	36.850	812.57	747.39	690.20	689.91	689.86	678.52
740	36.900	812.57	747.39	690.16	689.87	689.82	678.48
741	36.950	812.57	747.39	690.12	689.83	689.78	678.44
742	37.000	812.57	747.39	690.08	689.80	689.74	678.40
743	37.050	812.57	747.39	690.04	689.76	689.70	678.35
744	37.100	812.57	747.39	690.00	689.72	689.67	678.31
745	37.150	812.57	747.39	689.97	689.68	689.63	678.27
746	37.200	812.57	747.39	689.93	689.65	689.59	678.23
747	37.250	812.57	747.39	689.89	689.61	689.56	678.19
748	37.300	812.57	747.39	689.86	689.58	689.52	678.16
749	37.350	812.57	747.39	689.82	689.54	689.49	678.12
750	37.400	812.57	747.39	689.79	689.51	689.45	678.08
751	37.450	812.57	747.39	689.75	689.47	689.42	678.04
752	37.500	812.57	747.39	689.72	689.44	689.39	678.00
753	37.550	812.57	747.39	689.68	689.41	689.35	677.97
754	37.600	812.57	747.39	689.65	689.37	689.32	677.93
755	37.650	812.57	747.39	689.62	689.34	689.29	677.89
756	37.700	812.57	747.39	689.58	689.31	689.26	677.86
757	37.750	812.57	747.39	689.55	689.28	689.23	677.82
758	37.800	812.57	747.39	689.52	689.25	689.19	677.79
759	37.850	812.57	747.39	689.49	689.22	689.16	677.75
760	37.900	812.57	747.39	689.45	689.19	689.13	677.72
761	37.950	812.57	747.39	689.42	689.16	689.10	677.68
762	38.000	812.57	747.39	689.39	689.13	689.07	677.65
763	38.050	812.57	747.39	689.36	689.10	689.04	677.62
764	38.100	812.57	747.39	689.33	689.07	689.01	677.58
765	38.150	812.57	747.39	689.30	689.04	689.99	677.55
766	38.200	812.57	747.39	689.27	689.01	689.96	677.52
767	38.250	812.57	747.39	689.24	689.98	689.93	677.49
768	38.300	812.57	747.39	689.21	689.95	689.90	677.46
769	38.350	812.57	747.39	689.19	689.93	689.87	677.42
770	38.400	812.57	747.39	689.16	689.90	689.85	677.39
771	38.450	812.57	747.39	689.13	689.87	689.82	677.36
772	38.500	812.57	747.39	689.10	689.85	689.79	677.33
773	38.550	812.57	747.39	689.08	689.82	689.77	677.30
774	38.600	812.57	747.39	689.05	689.79	689.74	677.27
775	38.650	812.57	747.39	689.02	689.77	689.72	677.24
776	38.700	812.57	747.39	689.00	689.74	689.69	677.21
777	38.750	812.57	747.39	688.97	689.72	689.67	677.18
778	38.800	812.57	747.39	688.94	689.69	689.64	677.16
779	38.850	812.57	747.39	688.92	689.67	689.62	677.13
780	38.900	812.57	747.39	688.89	689.64	689.59	677.10
781	38.950	812.57	747.39	688.87	689.62	689.57	677.07
782	39.000	812.57	747.39	688.84	689.60	689.54	677.04
783	39.050	812.57	747.39	688.82	689.57	689.52	677.01
784	39.100	812.57	747.39	688.80	689.55	689.50	676.99
785	39.150	812.57	747.39	688.77	689.53	689.47	676.96
786	39.200	812.57	747.39	688.75	689.50	689.45	676.93
787	39.250	812.57	747.39	688.72	689.48	689.43	676.91
788	39.300	812.57	747.39	688.70	689.46	689.41	676.88
789	39.350	812.57	747.39	688.68	689.44	689.38	676.85
790	39.400	812.57	747.39	688.66	689.41	689.36	676.83
791	39.450	812.57	747.39	688.63	689.39	689.34	676.80
792	39.500	812.57	747.39	688.61	689.37	689.32	676.78
793	39.550	812.57	747.39	688.59	689.35	689.30	676.75
794	39.600	812.57	747.39	688.57	689.33	689.28	676.73
795	39.650	812.57	747.39	688.55	689.31	689.26	676.70
796	39.700	812.57	747.39	688.52	689.29	689.24	676.68
797	39.750	812.57	747.39	688.50	689.27	689.22	676.65
798	39.800	812.57	747.39	688.48	689.25	689.20	676.63
799	39.850	812.57	747.39	688.46	689.23	689.18	676.60
800	39.900	812.57	747.39	688.44	689.21	689.16	676.58

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801	39.950	812.57	747.39	688.42	688.19	688.14	676.56
802	40.000	812.57	747.39	688.40	688.17	688.12	676.53
803	40.050	812.57	747.39	688.38	688.15	688.10	676.51
804	40.100	812.57	747.39	688.36	688.13	688.08	676.49
805	40.150	812.57	747.39	688.34	688.11	688.06	676.46
806	40.200	812.57	747.39	688.32	688.09	688.04	676.44
807	40.250	812.57	747.39	688.30	688.07	688.02	676.42
808	40.300	812.57	747.39	688.29	688.06	688.01	676.39
809	40.350	812.57	747.39	688.27	688.04	687.99	676.37
810	40.400	812.57	747.39	688.25	688.02	687.97	676.35
811	40.450	812.57	747.39	688.23	688.00	687.95	676.33
812	40.500	812.57	747.39	688.21	687.99	687.94	676.31
813	40.550	812.57	747.39	688.19	687.97	687.92	676.28
814	40.600	812.57	747.39	688.18	687.95	687.90	676.26
815	40.650	812.57	747.39	688.16	687.93	687.88	676.24
816	40.700	812.57	747.39	688.14	687.92	687.87	676.22
817	40.750	812.57	747.39	688.12	687.90	687.85	676.20
818	40.800	812.57	747.39	688.11	687.88	687.83	676.18
819	40.850	812.57	747.39	688.09	687.87	687.82	676.16
820	40.900	812.57	747.39	688.07	687.85	687.80	676.14
821	40.950	812.57	747.39	688.06	687.84	687.79	676.12
822	41.000	812.57	747.39	688.04	687.82	687.77	676.10
823	41.050	812.57	747.39	688.02	687.80	687.75	676.08
824	41.100	812.57	747.39	688.01	687.79	687.74	676.06
825	41.150	812.57	747.39	687.99	687.77	687.72	676.04
826	41.200	812.57	747.39	687.97	687.76	687.71	676.02
827	41.250	812.57	747.39	687.96	687.74	687.69	676.00
828	41.300	812.57	747.39	687.94	687.73	687.68	675.98
829	41.350	812.57	747.39	687.93	687.71	687.66	675.96
830	41.400	812.57	747.39	687.91	687.70	687.65	675.94
831	41.450	812.57	747.39	687.90	687.68	687.63	675.92
832	41.500	812.57	747.39	687.88	687.67	687.62	675.90
833	41.550	812.57	747.39	687.87	687.65	687.60	675.88
834	41.600	812.57	747.39	687.85	687.64	687.59	675.86
835	41.650	812.57	747.39	687.84	687.63	687.58	675.84
836	41.700	812.57	747.39	687.82	687.61	687.56	675.83
837	41.750	812.57	747.39	687.81	687.60	687.55	675.81
838	41.800	812.57	747.39	687.79	687.58	687.53	675.79
839	41.850	812.57	747.39	687.78	687.57	687.52	675.77
840	41.900	812.57	747.39	687.77	687.56	687.51	675.75
841	41.950	812.57	747.39	687.75	687.54	687.49	675.74
842	42.000	812.57	747.39	687.74	687.53	687.48	675.72
843	42.050	812.57	747.39	687.72	687.52	687.47	675.70
844	42.100	812.57	747.39	687.71	687.50	687.46	675.68
845	42.150	812.57	747.39	687.70	687.49	687.44	675.67
846	42.200	812.57	747.39	687.68	687.48	687.43	675.65
847	42.250	812.57	747.39	687.67	687.47	687.42	675.63
848	42.300	812.57	747.39	687.66	687.45	687.40	675.61
849	42.350	812.57	747.39	687.64	687.44	687.39	675.60
850	42.400	812.57	747.39	687.63	687.43	687.38	675.58
851	42.450	812.57	747.39	687.62	687.42	687.37	675.56
852	42.500	812.57	747.39	687.61	687.40	687.35	675.55
853	42.550	812.57	747.39	687.59	687.39	687.34	675.53
854	42.600	812.57	747.39	687.58	687.38	687.33	675.51
855	42.650	812.57	747.39	687.57	687.37	687.32	675.50
856	42.700	812.57	747.39	687.56	687.36	687.31	675.48
857	42.750	812.57	747.39	687.54	687.34	687.30	675.47
858	42.800	812.57	747.39	687.53	687.33	687.28	675.45
859	42.850	812.57	747.39	687.52	687.32	687.27	675.43
860	42.900	812.57	747.39	687.51	687.31	687.26	675.42
861	42.950	812.57	747.39	687.50	687.30	687.25	675.40
862	43.000	812.57	747.39	687.48	687.29	687.24	675.39
863	43.050	812.57	747.39	687.47	687.28	687.23	675.37
864	43.100	812.57	747.39	687.46	687.27	687.22	675.36
865	43.150	812.57	747.39	687.45	687.25	687.21	675.34
866	43.200	812.57	747.39	687.44	687.24	687.20	675.32
867	43.250	812.57	747.39	687.43	687.23	687.18	675.31
868	43.300	812.57	747.39	687.42	687.22	687.17	675.29
869	43.350	812.57	747.39	687.41	687.21	687.16	675.28
870	43.400	812.57	747.39	687.39	687.20	687.15	675.26
871	43.450	812.57	747.39	687.38	687.19	687.14	675.25
872	43.500	812.57	747.39	687.37	687.18	687.13	675.23
873	43.550	812.57	747.39	687.36	687.17	687.12	675.22
874	43.600	812.57	747.39	687.35	687.16	687.11	675.21
875	43.650	812.57	747.39	687.34	687.15	687.10	675.19
876	43.700	812.57	747.39	687.33	687.14	687.09	675.18
877	43.750	812.57	747.39	687.32	687.13	687.08	675.16
878	43.800	812.57	747.39	687.31	687.12	687.07	675.15
879	43.850	812.57	747.39	687.30	687.11	687.06	675.13
880	43.900	812.57	747.39	687.29	687.10	687.05	675.12
881	43.950	812.57	747.39	687.28	687.09	687.04	675.11
882	44.000	812.57	747.39	687.27	687.08	687.03	675.09
883	44.050	812.57	747.39	687.26	687.07	687.02	675.08
884	44.100	812.57	747.39	687.25	687.06	687.01	675.06
885	44.150	812.57	747.39	687.24	687.05	687.00	675.05
886	44.200	812.57	747.39	687.23	687.04	687.00	675.04
887	44.250	812.57	747.39	687.22	687.03	686.99	675.02
888	44.300	812.57	747.39	687.21	687.03	686.98	675.01
889	44.350	812.57	747.39	687.20	687.02	686.97	675.00
890	44.400	812.57	747.39	687.19	687.01	686.96	674.98
891	44.450	812.57	747.39	687.18	687.00	686.95	674.97
892	44.500	812.57	747.39	687.17	686.99	686.94	674.96
893	44.550	812.57	747.39	687.16	686.98	686.93	674.94
894	44.600	812.57	747.39	687.15	686.97	686.92	674.93
895	44.650	812.57	747.39	687.15	686.96	686.91	674.92

896	44.700	812.57	747.39	687.14	686.95	686.91	674.90
897	44.750	812.57	747.39	687.13	686.95	686.90	674.89
898	44.800	812.57	747.39	687.12	686.94	686.89	674.88
899	44.850	812.57	747.39	687.11	686.93	686.88	674.87
900	44.900	812.57	747.39	687.10	686.92	686.87	674.85
901	44.950	812.57	747.39	687.09	686.91	686.86	674.84
902	45.000	812.57	747.39	687.08	686.90	686.86	674.83
903	45.050	812.57	747.39	687.07	686.90	686.85	674.82
904	45.100	812.57	747.39	687.07	686.89	686.84	674.80
905	45.150	812.57	747.39	687.06	686.88	686.83	674.79
906	45.200	812.57	747.39	687.05	686.87	686.82	674.78
907	45.250	812.57	747.39	687.04	686.86	686.82	674.77
908	45.300	812.57	747.39	687.03	686.86	686.81	674.76
909	45.350	812.57	747.39	687.02	686.85	686.80	674.74
910	45.400	812.57	747.39	687.02	686.84	686.79	674.73
911	45.450	812.57	747.39	687.01	686.83	686.78	674.72
912	45.500	812.57	747.39	687.00	686.82	686.78	674.71
913	45.550	812.57	747.39	686.99	686.82	686.77	674.70
914	45.600	812.57	747.39	686.98	686.81	686.76	674.68
915	45.650	812.57	747.39	686.98	686.80	686.75	674.67
916	45.700	812.57	747.39	686.97	686.79	686.75	674.66
917	45.750	812.57	747.39	686.96	686.79	686.74	674.65
918	45.800	812.57	747.39	686.95	686.78	686.73	674.64
919	45.850	812.57	747.39	686.95	686.77	686.72	674.63
920	45.900	812.57	747.39	686.94	686.76	686.72	674.61
921	45.950	812.57	747.39	686.93	686.76	686.71	674.60
922	46.000	812.57	747.39	686.92	686.75	686.70	674.59
923	46.050	812.57	747.39	686.91	686.74	686.70	674.58
924	46.100	812.57	747.39	686.91	686.74	686.69	674.57
925	46.150	812.57	747.39	686.90	686.73	686.68	674.56
926	46.200	812.57	747.39	686.89	686.72	686.67	674.55
927	46.250	812.57	747.39	686.89	686.72	686.67	674.54
928	46.300	812.57	747.39	686.88	686.71	686.66	674.53
929	46.350	812.57	747.39	686.87	686.70	686.65	674.52
930	46.400	812.57	747.39	686.86	686.69	686.65	674.50
931	46.450	812.57	747.39	686.86	686.69	686.64	674.49
932	46.500	812.57	747.39	686.85	686.68	686.63	674.48
933	46.550	812.57	747.39	686.84	686.67	686.63	674.47
934	46.600	812.57	747.39	686.84	686.67	686.62	674.46
935	46.650	812.57	747.39	686.83	686.66	686.61	674.45
936	46.700	812.57	747.39	686.82	686.65	686.61	674.44
937	46.750	812.57	747.39	686.82	686.65	686.60	674.43
938	46.800	812.57	747.39	686.81	686.64	686.59	674.42
939	46.850	812.57	747.39	686.80	686.64	686.59	674.41
940	46.900	812.57	747.39	686.79	686.63	686.58	674.40
941	46.950	812.57	747.39	686.79	686.62	686.58	674.39
942	47.000	812.57	747.39	686.78	686.62	686.57	674.38
943	47.050	812.57	747.39	686.78	686.61	686.56	674.37
944	47.100	812.57	747.39	686.77	686.60	686.56	674.36
945	47.150	812.57	747.39	686.76	686.60	686.55	674.35
946	47.200	812.57	747.39	686.76	686.59	686.54	674.34
947	47.250	812.57	747.39	686.75	686.59	686.54	674.33
948	47.300	812.57	747.39	686.74	686.58	686.53	674.32
949	47.350	812.57	747.39	686.74	686.57	686.53	674.31
950	47.400	812.57	747.39	686.73	686.57	686.52	674.30
951	47.450	812.57	747.39	686.72	686.56	686.51	674.29
952	47.500	812.57	747.39	686.72	686.56	686.51	674.28
953	47.550	812.57	747.39	686.71	686.55	686.50	674.27
954	47.600	812.57	747.39	686.71	686.54	686.50	674.26
955	47.650	812.57	747.39	686.70	686.54	686.49	674.25
956	47.700	812.57	747.39	686.69	686.53	686.49	674.24
957	47.750	812.57	747.39	686.69	686.53	686.48	674.23
958	47.800	812.57	747.39	686.68	686.52	686.47	674.22
959	47.850	812.57	747.39	686.68	686.52	686.47	674.21
960	47.900	812.57	747.39	686.67	686.51	686.46	674.20
961	47.950	812.57	747.39	686.66	686.50	686.46	674.19
962	48.000	812.57	747.39	686.66	686.50	686.45	674.18
963	48.050	812.57	747.39	686.65	686.49	686.45	674.17
964	48.100	812.57	747.39	686.65	686.49	686.44	674.16
965	48.150	812.57	747.39	686.64	686.48	686.44	674.15
966	48.200	812.57	747.39	686.64	686.48	686.43	674.15
967	48.250	812.57	747.39	686.63	686.47	686.43	674.14
968	48.300	812.57	747.39	686.62	686.47	686.42	674.13
969	48.350	812.57	747.39	686.62	686.46	686.41	674.12
970	48.400	812.57	747.39	686.61	686.46	686.41	674.11
971	48.450	812.57	747.39	686.61	686.45	686.40	674.10
972	48.500	812.57	747.39	686.60	686.45	686.40	674.09
973	48.550	812.57	747.39	686.60	686.44	686.39	674.08
974	48.600	812.57	747.39	686.59	686.44	686.39	674.07
975	48.650	812.57	747.39	686.59	686.43	686.38	674.06
976	48.700	812.57	747.39	686.58	686.43	686.38	674.06
977	48.750	812.57	747.39	686.58	686.42	686.37	674.05
978	48.800	812.57	747.39	686.57	686.42	686.37	674.04
979	48.850	812.57	747.39	686.56	686.41	686.36	674.03
980	48.900	812.57	747.39	686.56	686.41	686.36	674.02
981	48.950	812.57	747.39	686.55	686.40	686.35	674.01
982	49.000	812.57	747.39	686.55	686.40	686.35	674.00
983	49.050	812.57	747.39	686.54	686.39	686.34	673.99
984	49.100	812.57	747.39	686.54	686.39	686.34	673.99
985	49.150	812.57	747.39	686.53	686.38	686.33	673.98
986	49.200	812.57	747.39	686.53	686.38	686.33	673.97
987	49.250	812.57	747.39	686.52	686.37	686.32	673.96
988	49.300	812.57	747.39	686.52	686.37	686.32	673.95
989	49.350	812.57	747.39	686.51	686.36	686.32	673.94
990	49.400	812.57	747.39	686.51	686.36	686.31	673.94

991	49.450	812.57	747.39	686.50	686.33	686.31	673.93
992	49.500	812.57	747.39	686.50	686.35	686.30	673.92
993	49.550	812.57	747.39	686.49	686.34	686.30	673.91
994	49.600	812.57	747.39	686.49	686.34	686.29	673.90
995	49.650	812.57	747.39	686.49	686.33	686.29	673.89
996	49.700	812.57	747.39	686.48	686.33	686.28	673.89
997	49.750	812.57	747.39	686.48	686.33	686.28	673.88
998	49.800	812.57	747.39	686.47	686.32	686.27	673.87
999	49.850	812.57	747.39	686.47	686.32	686.27	673.86
1000	49.900	812.57	747.39	686.46	686.31	686.27	673.85
1001	49.950	812.57	747.39	686.46	686.31	686.26	673.85

K	TTP(K)	QC(K, T), T=1, NTT)					
1	.000	26.60	26.62	105.61	37.46	19.50	19.50
2	.050	26.60	26.60	114.47	6.50	19.50	19.50
3	.100	26.60	26.60	109.89	28.85	19.50	19.50
4	.150	26.60	26.60	110.00	14.14	19.50	19.50
5	.200	26.60	26.62	104.98	22.84	19.50	19.50
6	.250	26.60	26.68	103.59	17.77	19.50	19.50
7	.300	26.60	26.89	96.87	20.15	19.50	19.50
8	.350	26.60	27.49	91.94	18.67	19.50	19.50
9	.400	26.60	28.89	83.56	18.86	19.50	19.50
10	.450	26.60	31.50	76.20	18.66	19.50	19.50
11	.500	26.63	35.28	69.44	18.70	19.50	19.50
12	.550	27.71	39.40	66.46	19.22	19.50	19.50
13	.600	30.01	42.57	66.26	19.60	19.50	19.50
14	.650	33.58	43.57	67.76	19.97	19.50	19.50
15	.700	38.53	42.27	68.76	19.88	19.50	19.50
16	.750	44.98	40.88	68.42	19.71	19.50	19.50
17	.800	53.02	43.16	67.10	19.52	19.50	19.50
18	.850	62.75	51.42	65.54	19.47	19.50	19.50
19	.900	74.26	64.56	63.97	19.45	19.50	19.50
20	.950	87.64	79.42	62.15	19.40	19.50	19.50
21	1.000	102.95	93.96	59.85	19.31	19.50	19.50
22	1.050	118.95	108.31	57.22	19.23	19.50	19.50
23	1.100	137.03	123.26	54.55	19.19	19.50	19.50
24	1.150	157.24	139.54	52.05	19.19	19.50	19.50
25	1.200	179.63	157.80	49.98	19.23	19.50	19.50
26	1.250	204.26	178.25	48.58	19.34	19.50	19.50
27	1.300	231.16	201.19	48.17	19.51	19.50	19.50
28	1.350	260.34	227.09	46.98	19.75	19.50	19.50
29	1.400	291.90	256.12	51.18	20.02	19.50	19.50
30	1.450	325.79	288.13	54.77	20.30	19.50	19.50
31	1.500	362.05	322.88	59.42	20.51	19.50	19.50
32	1.550	400.70	359.95	64.78	20.63	19.50	19.50
33	1.600	441.73	398.97	70.63	20.70	19.50	19.50
34	1.650	485.14	439.72	77.20	20.79	19.50	19.50
35	1.700	530.93	482.21	85.08	20.97	19.50	19.50
36	1.750	579.08	526.61	102.59	34.65	19.50	19.50
37	1.800	629.57	573.06	130.07	56.54	34.06	34.06
38	1.850	682.39	621.66	161.09	79.63	55.23	55.23
39	1.900	737.49	672.52	195.42	104.21	78.26	78.26
40	1.950	794.84	725.91	227.74	121.07	102.42	102.42
41	2.000	854.40	780.62	251.66	122.63	118.49	118.49
42	2.050	917.45	838.03	273.42	122.78	119.23	119.23
43	2.100	982.59	898.07	296.74	123.92	119.95	119.95
44	2.150	1049.77	960.27	319.36	124.37	120.68	120.68
45	2.200	1118.93	1023.99	341.89	125.26	121.41	121.41
46	2.250	1189.98	1089.42	364.16	126.14	122.13	122.13
47	2.300	1262.87	1156.52	386.33	127.34	123.12	123.12
48	2.350	1337.50	1225.16	408.84	128.50	124.22	124.22
49	2.400	1413.81	1295.40	432.35	129.85	125.33	125.33
50	2.450	1491.69	1367.25	457.63	131.28	126.49	126.49
51	2.500	1571.06	1440.70	485.01	132.84	127.72	127.72
52	2.550	1651.81	1515.69	514.39	134.47	129.03	129.03
53	2.600	1733.87	1592.13	545.17	136.16	130.43	130.43
54	2.650	1817.11	1669.81	576.67	137.84	131.91	131.91
55	2.700	1901.43	1747.71	608.35	139.54	133.45	133.45
56	2.750	1986.73	1825.70	639.98	141.27	135.04	135.04
57	2.800	2072.89	1904.07	671.67	143.05	136.66	136.66
58	2.850	2159.80	1983.13	703.53	144.89	138.32	138.32
59	2.900	2247.34	2063.16	735.67	146.79	140.04	140.04
60	2.950	2335.38	2144.20	767.97	148.74	141.80	141.80
61	3.000	2423.81	2226.26	800.33	150.72	143.61	143.61
62	3.050	2512.47	2309.08	832.55	152.74	145.47	145.47
63	3.100	2601.22	2392.06	864.44	154.77	147.37	147.37
64	3.150	2689.93	2474.83	895.77	156.83	149.31	149.31
65	3.200	2778.45	2557.47	926.54	158.91	151.28	151.28
66	3.250	2866.66	2640.07	957.22	161.01	153.28	153.28
67	3.300	2954.41	2722.88	992.96	162.54	155.30	155.30
68	3.350	3041.56	2807.06	1024.82	165.66	157.25	157.25
69	3.400	3127.97	2891.58	1058.14	167.04	159.35	159.35
70	3.450	3213.49	2974.83	1090.84	169.94	161.45	161.45
71	3.500	3297.98	3058.08	1123.36	171.79	163.60	163.60
72	3.550	3381.29	3139.79	1155.41	174.39	165.78	165.78
73	3.600	3463.28	3219.93	1187.17	176.56	168.00	168.00
74	3.650	3543.80	3299.24	1218.47	179.03	170.25	170.25
75	3.700	3622.70	3376.65	1249.29	181.38	172.54	172.54

76	3.750	3699.83	3452.44	1279.24	183.79	177.19	177.19
77	3.800	3775.05	3527.00	1308.26	186.19	179.54	179.54
78	3.850	3848.21	3599.02	1336.18	188.59	181.91	181.91
79	3.900	3919.15	3669.50	1363.10	191.01	184.29	184.29
80	3.950	3987.72	3737.89	1389.06	193.44	186.68	186.68
81	4.000	4053.79	3803.51	1414.05	195.88	189.09	189.09
82	4.050	3935.56	3808.22	1440.56	204.20	197.73	197.73
83	4.100	3820.83	3716.78	1470.78	219.51	213.09	213.09
84	4.150	3709.48	3607.98	1502.52	239.79	233.51	233.51
85	4.200	3601.41	3517.09	1537.26	264.96	258.73	258.73
86	4.250	3496.53	3422.07	1574.32	294.75	288.66	288.66
87	4.300	3394.72	3333.46	1612.95	329.05	323.10	323.10
88	4.350	3295.91	3251.35	1651.88	367.47	361.77	361.77
89	4.400	3199.99	3171.70	1689.47	409.52	404.16	404.16
90	4.450	3106.87	3095.14	1724.26	454.68	449.74	449.74
91	4.500	3016.46	3018.02	1763.02	499.72	495.90	495.90
92	4.550	2928.69	2940.67	1794.54	551.02	546.57	546.57
93	4.600	2843.47	2863.76	1826.24	601.53	598.18	598.18
94	4.650	2760.72	2788.23	1857.62	657.02	653.35	653.35
95	4.700	2680.36	2714.80	1890.21	715.21	712.21	712.21
96	4.750	2602.32	2643.44	1922.66	777.28	774.35	774.35
97	4.800	2526.54	2574.20	1955.34	842.31	839.88	839.88
98	4.850	2452.94	2506.93	1988.22	910.81	908.61	908.61
99	4.900	2381.46	2441.52	2021.67	982.50	980.70	980.70
100	4.950	2312.03	2378.00	2055.72	1057.53	1056.04	1056.04
101	5.000	2244.59	2316.43	2090.49	1135.77	1134.65	1134.65
102	5.050	2179.08	2256.80	2125.98	1217.22	1216.46	1216.46
103	5.100	2115.44	2198.98	2162.83	1303.25	1302.98	1302.98
104	5.150	2053.62	2142.85	2204.21	1390.97	1391.33	1391.33
105	5.200	1993.57	2088.29	2243.74	1483.57	1483.90	1483.90
106	5.250	1935.22	2035.19	2285.22	1578.04	1579.18	1579.18
107	5.300	1878.54	1983.37	2327.36	1676.38	1677.64	1677.64
108	5.350	1823.47	1932.66	2370.87	1777.18	1779.11	1779.11
109	5.400	1769.97	1882.91	2415.39	1881.24	1883.50	1883.50
110	5.450	1717.99	1834.15	2461.28	1987.92	1990.78	1990.78
111	5.500	1667.48	1786.41	2508.66	2097.50	2100.82	2100.82
112	5.550	1618.41	1739.69	2557.99	2209.74	2213.66	2213.66
113	5.600	1570.73	1694.05	2609.59	2324.67	2329.17	2329.17
114	5.650	1524.40	1649.51	2664.02	2442.10	2447.27	2447.27
115	5.700	1479.37	1605.97	2721.98	2561.75	2567.66	2567.66
116	5.750	1435.63	1563.45	2784.27	2683.11	2689.93	2689.93
117	5.800	1393.11	1522.02	2852.96	2805.83	2813.69	2813.69
118	5.850	1351.80	1481.68	2929.28	2924.89	2933.69	2933.69
119	5.900	1311.65	1442.46	3010.36	3027.38	3036.51	3036.51
120	5.950	1272.64	1404.25	3029.92	3123.94	3128.41	3128.41
121	6.000	1234.72	1366.92	3018.87	3188.20	3193.21	3193.21
122	6.050	1197.87	1330.42	2995.48	3221.31	3224.42	3224.42
123	6.100	1162.06	1294.81	2944.96	3140.79	3136.73	3136.73
124	6.150	1127.26	1260.10	2868.48	3042.13	3043.62	3043.62
125	6.200	1093.44	1226.35	2793.47	2955.63	2954.03	2954.03
126	6.250	1060.56	1193.45	2710.56	2863.37	2864.30	2864.30
127	6.300	1028.62	1161.28	2623.39	2777.09	2777.00	2777.00
128	6.350	997.59	1129.85	2533.59	2690.91	2691.96	2691.96
129	6.400	967.47	1099.20	2441.85	2609.46	2610.29	2610.29
130	6.450	938.21	1069.56	2351.68	2531.58	2532.91	2532.91
131	6.500	909.80	1040.88	2264.81	2459.43	2460.73	2460.73
132	6.550	882.22	1013.15	2184.00	2393.08	2394.54	2394.54
133	6.600	855.43	986.36	2110.09	2333.22	2334.64	2334.64
134	6.650	829.42	960.33	2044.05	2279.64	2281.08	2281.08
135	6.700	804.17	935.11	1989.60	2232.12	2233.51	2233.51
136	6.750	779.64	910.49	1933.96	2190.08	2191.47	2191.47
137	6.800	755.83	886.54	1887.74	2152.95	2154.35	2154.35
138	6.850	732.70	863.32	1845.74	2119.67	2121.09	2121.09
139	6.900	710.25	840.90	1806.91	2089.58	2091.05	2091.05
140	6.950	688.44	819.21	1770.67	2062.04	2063.54	2063.54
141	7.000	667.27	797.99	1736.50	2036.64	2038.18	2038.18
142	7.050	646.71	776.99	1704.16	2013.12	2014.70	2014.70
143	7.100	626.75	755.94	1673.26	1991.36	1992.89	1992.89
144	7.150	607.38	734.59	1643.52	1971.24	1972.95	1972.95
145	7.200	588.56	712.82	1614.46	1952.52	1954.30	1954.30
146	7.250	570.29	690.77	1585.76	1934.90	1936.78	1936.78
147	7.300	552.55	668.77	1557.05	1918.25	1920.21	1920.21
148	7.350	535.33	647.20	1528.18	1902.39	1904.46	1904.46
149	7.400	518.62	626.29	1499.02	1887.20	1889.37	1889.37
150	7.450	502.39	605.99	1471.56	1871.61	1874.04	1874.04
151	7.500	486.63	586.11	1442.26	1857.59	1859.88	1859.88
152	7.550	471.34	566.58	1413.46	1843.28	1845.88	1845.88
153	7.600	456.49	547.41	1384.28	1829.80	1832.32	1832.32
154	7.650	442.08	528.78	1355.29	1816.41	1819.13	1819.13
155	7.700	428.09	510.73	1326.38	1803.49	1806.21	1806.21
156	7.750	414.52	493.14	1297.75	1790.80	1793.64	1793.64
157	7.800	401.34	475.92	1269.47	1778.44	1781.32	1781.32
158	7.850	388.56	459.22	1241.63	1766.36	1769.31	1769.31
159	7.900	376.15	443.15	1214.28	1754.55	1757.55	1757.55
160	7.950	364.11	427.69	1187.44	1742.99	1746.05	1746.05
161	8.000	352.42	412.68	1161.11	1731.68	1734.78	1734.78
162	8.050	341.09	398.11	1135.40	1720.58	1723.74	1723.74
163	8.100	330.10	384.02	1110.30	1709.73	1712.92	1712.92
164	8.150	319.45	370.48	1085.94	1699.10	1702.33	1702.33
165	8.200	309.13	357.49	1062.37	1688.72	1691.97	1691.97
166	8.250	299.13	345.02	1039.62	1678.58	1681.86	1681.86
167	8.300	289.44	333.04	1017.72	1668.67	1671.97	1671.97
168	8.350	280.05	321.52	996.69	1659.01	1662.33	1662.33
169	8.400	270.95	310.43	976.54	1649.58	1652.91	1652.91
170	8.450	262.14	299.76	957.27	1640.38	1643.72	1643.72

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171	8.500	253.60	289.51	938.89	1631.41	1634.75	1634.75
172	8.550	245.34	279.71	921.36	1622.65	1626.01	1626.01
173	8.600	237.33	270.36	904.68	1614.10	1617.46	1617.46
174	8.650	229.58	261.44	888.81	1605.76	1609.12	1609.12
175	8.700	222.08	252.90	874.84	1597.07	1600.52	1600.52
176	8.750	214.82	244.73	864.94	1587.17	1590.83	1590.83
177	8.800	207.79	236.91	852.43	1579.73	1582.92	1582.92
178	8.850	200.98	229.42	842.23	1570.97	1574.60	1574.60
179	8.900	194.40	222.24	831.90	1563.43	1566.70	1566.70
180	8.950	188.04	215.37	822.50	1555.49	1559.00	1559.00
181	9.000	181.88	208.80	813.41	1548.07	1551.40	1551.40
182	9.050	175.92	202.49	804.83	1540.60	1544.03	1544.03
183	9.100	170.16	196.44	796.51	1533.34	1536.70	1536.70
184	9.150	164.60	190.64	788.42	1526.12	1529.52	1529.52
185	9.200	159.22	185.08	780.43	1518.98	1522.37	1522.37
186	9.250	154.02	179.76	772.46	1511.89	1515.29	1515.29
187	9.300	148.99	174.68	764.55	1504.83	1508.23	1508.23
188	9.350	144.14	169.86	756.76	1497.83	1501.22	1501.22
189	9.400	139.45	165.29	749.19	1490.89	1494.29	1494.29
190	9.450	134.92	160.94	741.90	1484.03	1487.42	1487.42
191	9.500	130.55	156.73	734.84	1477.26	1480.64	1480.64
192	9.550	126.33	152.60	727.98	1470.55	1473.92	1473.92
193	9.600	122.26	148.48	721.21	1463.89	1467.26	1467.26
194	9.650	118.33	144.43	714.56	1457.27	1460.64	1460.64
195	9.700	114.54	140.50	708.02	1450.69	1454.05	1454.05
196	9.750	110.89	136.75	701.55	1444.13	1447.49	1447.49
197	9.800	107.37	133.17	695.14	1437.61	1440.97	1440.97
198	9.850	103.97	129.71	688.77	1431.09	1434.44	1434.44
199	9.900	100.70	126.34	682.40	1424.59	1427.93	1427.93
200	9.950	97.54	123.06	676.01	1418.08	1421.43	1421.43
201	10.000	94.50	119.87	669.56	1411.59	1414.93	1414.93
202	10.050	91.58	116.77	663.06	1405.25	1408.60	1408.60
203	10.100	88.76	113.76	656.51	1398.91	1402.25	1402.25
204	10.150	86.05	110.84	649.91	1392.54	1395.88	1395.88
205	10.200	83.45	108.02	643.37	1386.17	1389.50	1389.50
206	10.250	80.94	105.27	636.90	1379.82	1383.14	1383.14
207	10.300	78.53	102.60	625.29	1374.47	1376.14	1376.14
208	10.350	76.21	99.98	607.00	1369.27	1371.55	1371.55
209	10.400	73.98	97.44	586.85	1364.07	1367.17	1367.17
210	10.450	71.85	95.02	571.60	1358.87	1362.40	1362.40
211	10.500	69.81	92.72	564.06	1353.67	1357.64	1357.64
212	10.550	67.87	90.54	561.50	1348.47	1352.87	1352.87
213	10.600	66.02	88.45	555.35	1343.27	1348.10	1348.10
214	10.650	64.25	86.42	551.75	1338.07	1343.33	1343.33
215	10.700	62.57	84.47	548.10	1332.87	1338.56	1338.56
216	10.750	60.96	82.58	545.98	1327.67	1333.79	1333.79
217	10.800	59.42	80.72	544.70	1322.47	1329.02	1329.02
218	10.850	57.96	78.79	544.68	1317.27	1324.25	1324.25
219	10.900	56.56	76.66	544.95	1312.07	1319.48	1319.48
220	10.950	55.23	74.24	544.88	1306.87	1314.71	1314.71
221	11.000	53.95	71.64	543.38	1301.67	1309.94	1309.94
222	11.050	52.74	69.17	540.23	1296.47	1305.17	1305.17
223	11.100	51.59	67.39	535.79	1291.27	1300.40	1300.40
224	11.150	50.48	66.69	530.95	1286.07	1295.63	1295.63
225	11.200	49.43	66.98	526.37	1280.87	1290.86	1290.86
226	11.250	48.43	67.60	522.20	1275.67	1286.09	1286.09
227	11.300	47.48	67.70	518.30	1270.47	1281.32	1281.32
228	11.350	46.57	66.89	514.49	1265.27	1276.55	1276.55
229	11.400	45.70	65.43	511.34	1260.07	1271.78	1271.78
230	11.450	44.88	63.93	515.48	1254.87	1267.01	1267.01
231	11.500	44.10	62.82	513.98	1249.67	1262.24	1262.24
232	11.550	43.35	62.14	515.35	1244.47	1257.47	1257.47
233	11.600	42.64	61.88	516.01	1239.27	1252.70	1252.70
234	11.650	41.97	61.26	517.27	1234.07	1247.93	1247.93
235	11.700	41.33	60.80	518.09	1228.87	1243.16	1243.16
236	11.750	40.72	60.31	518.69	1223.67	1238.39	1238.39
237	11.800	40.14	59.82	518.47	1218.47	1233.62	1233.62
238	11.850	39.59	59.32	517.45	1213.27	1228.85	1228.85
239	11.900	39.07	58.81	515.33	1208.07	1224.08	1224.08
240	11.950	38.58	58.31	512.41	1202.87	1219.31	1219.31
241	12.000	38.12	57.84	509.03	1197.67	1214.54	1214.54
242	12.050	37.68	57.45	505.62	1192.47	1209.77	1209.77
243	12.100	37.26	57.16	502.44	1187.27	1205.00	1205.00
244	12.150	36.87	56.95	499.53	1182.07	1200.23	1200.23
245	12.200	36.50	56.70	496.70	1176.87	1195.46	1195.46
246	12.250	36.15	56.34	493.79	1171.67	1190.69	1190.69
247	12.300	35.83	55.85	490.70	1166.47	1185.92	1185.92
248	12.350	35.52	55.29	487.52	1161.27	1181.15	1181.15
249	12.400	35.23	54.77	484.29	1156.07	1176.38	1176.38
250	12.450	34.97	54.33	481.08	1150.87	1171.61	1171.61
251	12.500	34.72	53.93	477.81	1145.67	1166.84	1166.84
252	12.550	34.48	53.53	474.52	1140.47	1162.07	1162.07
253	12.600	34.27	53.12	471.15	1135.27	1157.30	1157.30
254	12.650	34.07	52.71	467.74	1130.07	1152.53	1152.53
255	12.700	33.88	52.34	464.25	1124.87	1147.76	1147.76
256	12.750	33.71	51.99	460.71	1119.67	1142.99	1142.99
257	12.800	33.56	51.66	457.13	1114.47	1138.22	1138.22
258	12.850	33.42	51.35	453.54	1109.27	1133.45	1133.45
259	12.900	33.29	51.05	449.96	1104.07	1128.68	1128.68
260	12.950	33.18	50.75	446.44	1098.87	1123.91	1123.91
261	13.000	33.08	50.46	442.99	1093.67	1119.14	1119.14
262	13.050	32.99	50.18	439.65	1088.47	1114.37	1114.37
263	13.100	32.92	49.94	436.37	1083.27	1109.60	1109.60
264	13.150	32.85	49.72	433.16	1078.07	1104.83	1104.83
265	13.200	32.80	49.54	429.99	1072.87	1100.06	1100.06

266	13.250	32.75	49.39	426.88	1015.58	1016.39	1018.39
267	13.300	32.72	49.73	423.82	1011.41	1014.20	1014.20
268	13.350	32.70	49.10	420.81	1007.25	1010.03	1010.03
269	13.400	32.69	48.97	417.85	1003.12	1005.89	1005.88
270	13.450	32.69	48.86	414.95	999.00	1001.75	1001.75
271	13.500	32.69	48.75	412.07	994.91	997.64	997.64
272	13.550	32.71	48.66	409.25	990.83	993.55	993.55
273	13.600	32.73	48.58	406.47	986.77	989.47	989.47
274	13.650	32.76	48.51	403.72	982.73	985.41	985.41
275	13.700	32.80	48.45	401.02	978.70	981.37	981.37
276	13.750	32.85	48.40	398.34	974.70	977.35	977.35
277	13.800	32.91	48.36	395.69	970.70	973.33	973.33
278	13.850	32.97	48.32	393.06	966.73	969.35	969.35
279	13.900	33.04	48.29	390.46	962.77	965.37	965.37
280	13.950	33.12	48.27	387.90	958.83	961.41	961.41
281	14.000	33.21	48.25	385.35	954.91	957.48	957.48
282	14.050	33.29	48.23	382.81	951.00	953.55	953.55
283	14.100	33.38	48.21	379.99	947.14	949.73	949.73
284	14.125	33.42	48.20	377.99	945.14	947.73	947.73
285	14.150	33.46	48.18	375.99	943.14	945.73	945.73
286	14.200	33.54	48.16	373.99	941.14	943.73	943.73
287	14.250	33.61	48.13	371.99	939.14	941.73	941.73
288	14.300	33.69	48.10	369.99	937.14	939.73	939.73
289	14.350	33.76	48.08	367.99	935.14	937.73	937.73
290	14.400	33.83	48.08	365.99	933.14	935.73	935.73
291	14.450	33.90	48.18	363.99	931.14	933.73	933.73
292	14.500	33.96	48.60	361.99	929.14	931.73	931.73
293	14.550	34.03	49.02	359.99	927.14	929.73	929.73
294	14.600	34.09	52.48	357.99	925.14	927.73	927.73
295	14.650	34.15	57.07	355.99	923.14	925.73	925.73
296	14.700	34.20	63.35	353.99	921.14	923.73	923.73
297	14.750	34.26	70.04	351.99	919.14	921.73	921.73
298	14.800	34.31	75.35	349.99	917.14	919.73	919.73
299	14.850	34.37	77.80	347.99	915.14	917.73	917.73
300	14.900	34.42	78.80	345.99	913.14	915.73	915.73
301	14.950	34.47	72.48	343.99	911.14	913.73	913.73
302	15.000	34.52	65.31	341.99	909.14	911.73	911.73
303	15.050	34.56	57.46	339.99	907.14	909.73	909.73
304	15.100	34.61	50.95	337.99	905.14	907.73	907.73
305	15.150	34.65	48.33	335.99	903.14	905.73	905.73
306	15.200	34.69	49.45	333.99	901.14	903.73	903.73
307	15.250	34.73	51.57	331.99	899.14	901.73	901.73
308	15.300	34.77	52.09	329.99	897.14	899.73	899.73
309	15.350	34.81	50.54	327.99	895.14	897.73	897.73
310	15.400	34.85	48.10	325.99	893.14	895.73	895.73
311	15.450	34.88	46.09	323.99	891.14	893.73	893.73
312	15.500	34.92	45.04	321.99	889.14	891.73	891.73
313	15.550	34.95	44.59	319.99	887.14	889.73	889.73
314	15.600	34.99	44.12	317.99	885.14	887.73	887.73
315	15.650	35.02	43.36	315.99	883.14	885.73	885.73
316	15.700	35.05	42.54	313.99	881.14	883.73	883.73
317	15.750	35.08	41.97	311.99	879.14	881.73	881.73
318	15.800	35.11	41.78	309.99	877.14	879.73	879.73
319	15.850	35.14	41.94	307.99	875.14	877.73	877.73
320	15.900	35.16	42.29	305.99	873.14	875.73	875.73
321	15.950	35.19	42.71	303.99	871.14	873.73	873.73
322	16.000	35.21	43.08	301.99	869.14	871.73	871.73
323	16.050	35.24	43.38	299.99	867.14	869.73	869.73
324	16.100	35.26	43.57	297.99	865.14	867.73	867.73
325	16.150	35.29	43.69	295.99	863.14	865.73	865.73
326	16.200	35.31	43.77	293.99	861.14	863.73	863.73
327	16.250	35.33	43.86	291.99	859.14	861.73	861.73
328	16.300	35.35	43.99	289.99	857.14	859.73	859.73
329	16.350	35.37	44.17	287.99	855.14	857.73	857.73
330	16.400	35.39	44.37	285.99	853.14	855.73	855.73
331	16.450	35.41	44.56	283.99	851.14	853.73	853.73
332	16.500	35.43	44.70	281.99	849.14	851.73	851.73
333	16.550	35.45	44.79	279.99	847.14	849.73	849.73
334	16.600	35.46	44.81	277.99	845.14	847.73	847.73
335	16.650	35.48	44.78	275.99	843.14	845.73	845.73
336	16.700	35.50	44.71	273.99	841.14	843.73	843.73
337	16.750	35.51	44.62	271.99	839.14	841.73	841.73
338	16.800	35.53	44.50	269.99	837.14	839.73	839.73
339	16.850	35.54	44.37	267.99	835.14	837.73	837.73
340	16.900	35.56	44.24	265.99	833.14	835.73	835.73
341	16.950	35.57	44.09	263.99	831.14	833.73	833.73
342	17.000	35.58	43.93	261.99	829.14	831.73	831.73
343	17.050	35.60	43.78	259.99	827.14	829.73	829.73
344	17.100	35.61	43.61	257.99	825.14	827.73	827.73
345	17.150	35.62	43.44	255.99	823.14	825.73	825.73
346	17.200	35.63	43.26	253.99	821.14	823.73	823.73
347	17.250	35.65	43.08	251.99	819.14	821.73	821.73
348	17.300	35.66	42.89	249.99	817.14	819.73	819.73
349	17.350	35.67	42.70	247.99	815.14	817.73	817.73
350	17.400	35.68	42.52	245.99	813.14	815.73	815.73
351	17.450	35.69	42.36	243.99	811.14	813.73	813.73
352	17.500	35.70	42.19	241.99	809.14	811.73	811.73
353	17.550	35.71	42.04	239.99	807.14	809.73	809.73
354	17.600	35.72	41.89	237.99	805.14	807.73	807.73
355	17.650	35.73	41.75	235.99	803.14	805.73	805.73
356	17.700	35.73	41.62	233.99	801.14	803.73	803.73
357	17.750	35.74	41.46	231.99	799.14	801.73	801.73
358	17.800	35.75	41.35	229.99	797.14	799.73	799.73
359	17.850	35.76	41.21	227.99	795.14	797.73	797.73
360	17.900	35.77	41.08	225.99	793.14	795.73	795.73

361	17.950	35.77	40.96	219.61	498.21	499.71	499.71
362	18.000	35.78	40.84	218.31	495.95	497.44	497.44
363	18.050	35.79	40.72	217.03	493.72	495.20	495.20
364	18.100	35.79	40.59	215.76	491.49	492.96	492.96
365	18.150	35.80	40.47	214.50	489.28	490.74	490.74
366	18.200	35.81	40.35	213.25	487.08	488.52	488.52
367	18.250	35.81	40.22	212.00	484.88	486.31	486.31
368	18.300	35.82	40.10	210.76	482.70	484.12	484.12
369	18.350	35.82	39.98	209.53	480.53	481.94	481.94
370	18.400	35.83	39.86	208.29	478.37	479.77	479.77
371	18.450	35.84	39.73	207.07	476.21	477.60	477.60
372	18.500	35.84	39.61	205.84	474.06	475.45	475.45
373	18.550	35.85	39.49	204.63	471.95	473.31	473.31
374	18.600	35.85	39.37	203.42	469.83	471.18	471.18
375	18.650	35.86	39.26	202.20	467.72	469.06	469.06
376	18.700	35.86	39.14	201.00	465.62	466.95	466.95
377	18.750	35.86	39.03	199.79	463.53	464.85	464.85
378	18.800	35.87	38.91	198.60	461.45	462.76	462.76
379	18.850	35.87	38.79	197.40	459.38	460.68	460.68
380	18.900	35.88	38.68	196.22	457.31	458.61	458.61
381	18.950	35.88	38.57	195.03	455.27	456.55	456.55
382	19.000	35.88	38.46	193.86	453.22	454.49	454.49
383	19.050	35.89	38.35	192.69	451.19	452.46	452.46
384	19.100	35.89	38.25	191.54	449.17	450.42	450.42
385	19.150	35.89	38.15	190.39	447.16	448.40	448.40
386	19.200	35.90	38.05	189.25	445.16	446.40	446.40
387	19.250	35.90	37.95	188.12	443.17	444.39	444.39
388	19.300	35.90	37.85	187.00	441.19	442.40	442.40
389	19.350	35.91	37.76	185.89	439.22	440.42	440.42
390	19.400	35.91	37.67	184.78	437.25	438.45	438.45
391	19.450	35.91	37.59	183.69	435.30	436.49	436.49
392	19.500	35.92	37.50	182.60	433.36	434.53	434.53
393	19.550	35.92	37.42	181.53	431.42	432.59	432.59
394	19.600	35.92	37.34	180.45	429.50	430.66	430.66
395	19.650	35.92	37.27	179.40	427.58	428.73	428.73
396	19.700	35.93	37.20	178.35	425.68	426.81	426.81
397	19.750	35.93	37.13	177.32	423.78	424.91	424.91
398	19.800	35.93	37.06	176.29	421.89	423.01	423.01
399	19.850	35.93	37.00	175.27	420.01	421.12	421.12
400	19.900	35.94	36.94	174.27	418.14	419.24	419.24
401	19.950	35.94	36.88	173.26	416.28	417.37	417.37
402	20.000	35.94	36.82	172.27	414.43	415.51	415.51
403	20.050	35.94	36.77	171.29	412.59	413.66	413.66
404	20.100	35.94	36.72	170.31	410.75	411.82	411.82
405	20.150	35.94	36.67	169.35	408.92	409.98	409.98
406	20.200	35.95	36.63	168.40	407.11	408.16	408.16
407	20.250	35.95	36.58	167.45	405.30	406.34	406.34
408	20.300	35.95	36.54	166.52	403.50	404.53	404.53
409	20.350	35.95	36.50	165.59	401.71	402.73	402.73
410	20.400	35.95	36.47	164.67	399.92	400.94	400.94
411	20.450	35.95	36.43	163.77	398.15	399.16	399.16
412	20.500	35.96	36.40	162.87	396.38	397.38	397.38
413	20.550	35.96	36.37	161.97	394.63	395.62	395.62
414	20.600	35.96	36.34	161.10	392.88	393.86	393.86
415	20.650	35.96	36.32	160.23	391.14	392.11	392.11
416	20.700	35.96	36.29	159.36	389.41	390.37	390.37
417	20.750	35.96	36.27	158.51	387.68	388.64	388.64
418	20.800	35.96	36.25	157.66	385.96	386.91	386.91
419	20.850	35.96	36.23	156.83	384.25	385.19	385.19
420	20.900	35.97	36.21	156.00	382.55	383.48	383.48
421	20.950	35.97	36.19	155.19	380.86	381.78	381.78
422	21.000	35.97	36.17	154.38	379.17	380.09	380.09
423	21.050	35.97	36.16	153.57	377.48	378.40	378.40
424	21.100	35.97	36.14	152.78	375.81	376.72	376.72
425	21.150	35.97	36.13	151.99	374.14	375.05	375.05
426	21.200	35.97	36.12	151.21	372.48	373.38	373.38
427	21.250	35.97	36.11	150.44	370.82	371.72	371.72
428	21.300	35.97	36.10	149.68	369.18	370.07	370.07
429	21.350	35.97	36.09	148.93	367.54	368.42	368.42
430	21.400	35.98	36.08	148.18	365.90	366.79	366.79
431	21.450	35.98	36.07	147.43	364.27	365.15	365.15
432	21.500	35.98	36.07	146.68	362.65	363.52	363.52
433	21.550	35.98	36.06	145.93	361.03	361.90	361.90
434	21.600	35.98	36.05	145.20	359.42	360.29	360.29
435	21.650	35.98	36.05	144.48	357.82	358.68	358.68
436	21.700	35.98	36.04	143.78	356.22	357.08	357.08
437	21.750	35.98	36.04	143.10	354.63	355.49	355.49
438	21.800	35.98	36.04	142.43	353.05	353.91	353.91
439	21.850	35.98	36.03	141.79	351.48	352.32	352.32
440	21.900	35.98	36.03	141.16	349.91	350.76	350.76
441	21.950	35.98	36.03	140.55	348.35	349.19	349.19
442	22.000	35.98	36.02	139.93	346.80	347.63	347.63
443	22.050	35.98	36.02	139.36	345.25	346.08	346.08
444	22.100	35.98	36.02	138.80	343.71	344.54	344.54
445	22.150	35.98	36.02	138.25	342.17	343.00	343.00
446	22.200	35.99	36.01	137.71	340.64	341.46	341.46
447	22.250	35.99	36.01	137.19	339.12	339.94	339.94
448	22.300	35.99	36.01	136.68	337.60	338.41	338.41
449	22.350	35.99	36.01	136.18	336.08	336.90	336.90
450	22.400	35.99	36.01	135.70	334.57	335.38	335.38
451	22.450	35.99	36.01	135.23	333.06	333.87	333.87
452	22.500	35.99	36.01	134.78	331.56	332.37	332.37
453	22.550	35.99	36.00	134.35	330.07	330.87	330.87
454	22.600	35.99	36.00	133.93	328.58	329.38	329.38
455	22.650	35.99	36.00	133.53	327.09	327.89	327.89

456	22.700	35.99	36.00	133.15	325.60	326.40	326.40
457	22.750	35.99	36.00	132.79	324.12	324.91	324.91
458	22.800	35.99	36.00	132.44	322.64	323.43	323.43
459	22.850	35.99	36.00	132.12	321.16	321.95	321.95
460	22.900	35.99	36.00	131.81	319.68	320.47	320.47
461	22.950	35.99	36.00	131.53	318.20	318.99	318.99
462	23.000	35.99	36.00	131.28	316.73	317.52	317.52
463	23.050	35.99	36.00	131.05	315.26	316.05	316.05
464	23.100	35.99	36.00	130.85	313.79	314.57	314.57
465	23.150	35.99	36.00	130.67	312.31	313.10	313.10
466	23.200	35.99	36.00	130.52	310.83	311.62	311.62
467	23.250	35.99	36.00	130.40	309.36	310.14	310.14
468	23.300	35.99	36.00	130.32	307.88	308.67	308.67
469	23.350	35.99	36.00	130.27	306.40	307.19	307.19
470	23.400	35.99	36.00	130.27	304.92	305.71	305.71
471	23.450	35.99	36.00	130.30	303.43	304.22	304.22
472	23.500	35.99	36.00	130.37	301.94	302.73	302.73
473	23.550	35.99	36.00	130.49	300.44	301.24	301.24
474	23.600	35.99	36.00	130.65	298.94	299.74	299.74
475	23.650	35.99	36.00	130.86	297.43	298.23	298.23
476	23.700	35.99	36.00	131.11	295.91	296.71	296.71
477	23.750	35.99	36.00	131.42	294.38	295.19	295.19
478	23.800	35.99	36.00	131.77	292.85	293.66	293.66
479	23.850	36.00	36.00	132.17	291.31	292.12	292.12
480	23.900	36.00	36.00	132.62	289.75	290.57	290.57
481	23.950	36.00	36.00	133.10	288.19	289.01	289.01
482	24.000	36.00	36.00	133.62	286.61	287.45	287.45
483	24.050	36.00	36.00	134.16	285.03	285.87	285.87
484	24.100	36.00	36.00	134.71	283.44	284.27	284.27
485	24.150	36.00	36.00	135.24	281.82	282.67	282.67
486	24.200	36.00	36.00	135.72	280.18	281.03	281.03
487	24.250	36.00	36.00	136.15	278.54	279.39	279.39
488	24.300	36.00	36.00	136.56	276.92	277.78	277.78
489	24.350	36.00	36.00	136.95	275.31	276.16	276.16
490	24.400	36.00	36.00	137.27	273.67	274.53	274.53
491	24.450	36.00	36.00	137.55	272.03	272.89	272.89
492	24.500	36.00	36.00	137.78	270.38	271.24	271.24
493	24.550	36.00	36.00	137.97	268.72	269.59	269.59
494	24.600	36.00	36.00	138.12	267.05	267.93	267.93
495	24.650	36.00	36.00	138.24	265.38	266.26	266.26
496	24.700	36.00	36.00	138.31	263.71	264.59	264.59
497	24.750	36.00	36.00	138.35	262.03	262.91	262.91
498	24.800	36.00	36.00	138.36	260.35	261.23	261.23
499	24.850	36.00	36.00	138.34	258.67	259.55	259.55
500	24.900	36.00	36.00	138.28	256.99	257.87	257.87
501	24.950	36.00	36.00	138.19	255.31	256.19	256.19
502	25.000	36.00	36.00	138.08	253.62	254.50	254.50
503	25.050	36.00	36.00	137.93	251.93	252.82	252.82
504	25.100	36.00	36.00	137.76	250.25	251.13	251.13
505	25.150	36.00	36.00	137.56	248.56	249.44	249.44
506	25.200	36.00	36.00	137.34	246.87	247.76	247.76
507	25.250	36.00	36.00	137.09	245.19	246.07	246.07
508	25.300	36.00	36.00	136.81	243.51	244.39	244.39
509	25.350	36.00	36.00	136.52	241.82	242.70	242.70
510	25.400	36.00	36.00	136.20	240.14	241.02	241.02
511	25.450	36.00	36.00	135.86	238.46	239.34	239.34
512	25.500	36.00	36.00	135.50	236.79	237.66	237.66
513	25.550	36.00	36.00	135.13	235.12	235.99	235.99
514	25.600	36.00	36.00	134.69	233.40	234.26	234.26
515	25.650	36.00	36.00	134.26	231.74	232.62	232.62
516	25.700	36.00	36.00	133.83	230.06	230.92	230.92
517	25.750	36.00	36.00	133.38	228.42	229.30	229.30
518	25.800	36.00	36.00	132.92	226.75	227.59	227.59
519	25.850	36.00	36.00	132.40	225.06	225.92	225.92
520	25.900	36.00	36.00	131.90	223.42	224.27	224.27
521	25.950	36.00	36.00	131.39	221.77	222.62	222.62
522	26.000	36.00	36.00	130.87	220.14	220.99	220.99
523	26.050	36.00	36.00	130.34	218.51	219.35	219.35
524	26.100	36.00	36.00	129.78	216.88	217.72	217.72
525	26.150	36.00	36.00	129.23	215.26	216.10	216.10
526	26.200	36.00	36.00	128.65	213.65	214.48	214.48
527	26.250	36.00	36.00	128.08	212.04	212.87	212.87
528	26.300	36.00	36.00	127.49	210.44	211.26	211.26
529	26.350	36.00	36.00	126.89	208.85	209.67	209.67
530	26.400	36.00	36.00	126.28	207.26	208.07	208.07
531	26.450	36.00	36.00	125.66	205.68	206.49	206.49
532	26.500	36.00	36.00	125.03	204.10	204.91	204.91
533	26.550	36.00	36.00	124.39	202.53	203.34	203.34
534	26.600	36.00	36.00	123.72	200.92	201.72	201.72
535	26.650	36.00	36.00	123.06	199.39	200.20	200.20
536	26.700	36.00	36.00	122.41	197.82	198.60	198.60
537	26.750	36.00	36.00	121.74	196.30	197.10	197.10
538	26.800	36.00	36.00	121.06	194.74	195.51	195.51
539	26.850	36.00	36.00	120.38	193.23	194.02	194.02
540	26.900	36.00	36.00	119.70	191.69	192.45	192.45
541	26.950	36.00	36.00	119.01	190.19	190.98	190.98
542	27.000	36.00	36.00	118.32	188.68	189.43	189.43
543	27.050	36.00	36.00	117.62	187.19	187.97	187.97
544	27.100	36.00	36.00	116.92	185.69	186.43	186.43
545	27.150	36.00	36.00	116.22	184.22	184.99	184.99
546	27.200	36.00	36.00	115.51	182.74	183.47	183.47
547	27.250	36.00	36.00	114.80	181.29	182.05	182.05
548	27.300	36.00	36.00	114.09	179.82	180.54	180.54
549	27.350	36.00	36.00	113.37	178.39	179.13	179.13
550	27.400	36.00	36.00	112.66	176.94	177.65	177.65

551	27.450	36.00	36.00	111.94	175.52	176.26	176.26
552	27.500	36.00	36.00	111.22	174.09	174.79	174.79
553	27.550	36.00	36.00	110.50	172.69	173.42	173.42
554	27.600	36.00	36.00	109.80	171.32	172.02	172.02
555	27.650	36.00	36.00	109.08	169.91	170.62	170.62
556	27.700	36.00	36.00	108.35	168.53	169.23	169.23
557	27.750	36.00	36.00	107.64	167.16	167.85	167.85
558	27.800	36.00	36.00	106.91	165.79	166.48	166.48
559	27.850	36.00	36.00	106.19	164.44	165.12	165.12
560	27.900	36.00	36.00	105.47	163.09	163.77	163.77
561	27.950	36.00	36.00	104.75	161.76	162.43	162.43
562	28.000	36.00	36.00	104.03	160.43	161.09	161.09
563	28.050	36.00	36.00	103.31	159.12	159.77	159.77
564	28.100	36.00	36.00	102.60	157.81	158.46	158.46
565	28.150	36.00	36.00	101.89	156.52	157.16	157.16
566	28.200	36.00	36.00	101.18	155.23	155.88	155.88
567	28.250	36.00	36.00	100.47	153.96	154.60	154.60
568	28.300	36.00	36.00	99.76	152.69	153.33	153.33
569	28.350	36.00	36.00	99.06	151.44	152.07	152.07
570	28.400	36.00	36.00	98.36	150.20	150.82	150.82
571	28.450	36.00	36.00	97.66	148.96	149.58	149.58
572	28.500	36.00	36.00	96.97	147.74	148.35	148.35
573	28.550	36.00	36.00	96.28	146.53	147.13	147.13
574	28.600	36.00	36.00	95.59	145.33	145.93	145.93
575	28.650	36.00	36.00	94.90	144.13	144.73	144.73
576	28.700	36.00	36.00	94.22	142.95	143.54	143.54
577	28.750	36.00	36.00	93.54	141.78	142.36	142.36
578	28.800	36.00	36.00	92.87	140.62	141.20	141.20
579	28.850	36.00	36.00	92.20	139.47	140.04	140.04
580	28.900	36.00	36.00	91.55	138.33	138.92	138.92
581	28.950	36.00	36.00	90.89	137.20	137.76	137.76
582	29.000	36.00	36.00	90.22	136.09	136.65	136.65
583	29.050	36.00	36.00	89.58	134.99	135.54	135.54
584	29.100	36.00	36.00	88.93	133.88	134.43	134.43
585	29.150	36.00	36.00	88.28	132.79	133.33	133.33
586	29.200	36.00	36.00	87.64	131.71	132.24	132.24
587	29.250	36.00	36.00	87.00	130.63	131.16	131.16
588	29.300	36.00	36.00	86.36	129.57	130.10	130.10
589	29.350	36.00	36.00	85.73	128.52	129.04	129.04
590	29.400	36.00	36.00	85.11	127.48	127.99	127.99
591	29.450	36.00	36.00	84.49	126.44	126.95	126.95
592	29.500	36.00	36.00	83.87	125.42	125.93	125.93
593	29.550	36.00	36.00	83.26	124.41	124.91	124.91
594	29.600	36.00	36.00	82.65	123.41	123.90	123.90
595	29.650	36.00	36.00	82.05	122.41	122.90	122.90
596	29.700	36.00	36.00	81.46	121.43	121.91	121.91
597	29.750	36.00	36.00	80.86	120.46	120.94	120.94
598	29.800	36.00	36.00	80.28	119.49	119.97	119.97
599	29.850	36.00	36.00	79.69	118.54	119.01	119.01
600	29.900	36.00	36.00	79.12	117.60	118.06	118.06
601	29.950	36.00	36.00	78.55	116.66	117.12	117.12
602	30.000	36.00	36.00	77.98	115.74	116.19	116.19
603	30.050	36.00	36.00	77.42	114.82	115.27	115.27
604	30.100	36.00	36.00	76.86	113.92	114.36	114.36
605	30.150	36.00	36.00	76.31	113.02	113.46	113.46
606	30.200	36.00	36.00	75.77	112.13	112.57	112.57
607	30.250	36.00	36.00	75.23	111.25	111.68	111.68
608	30.300	36.00	36.00	74.69	110.39	110.81	110.81
609	30.350	36.00	36.00	74.16	109.53	109.95	109.95
610	30.400	36.00	36.00	73.64	108.68	109.09	109.09
611	30.450	36.00	36.00	73.12	107.83	108.25	108.25
612	30.500	36.00	36.00	72.60	107.00	107.41	107.41
613	30.550	36.00	36.00	72.09	106.18	106.58	106.58
614	30.600	36.00	36.00	71.59	105.36	105.76	105.76
615	30.650	36.00	36.00	71.09	104.56	104.95	104.95
616	30.700	36.00	36.00	70.59	103.76	104.15	104.15
617	30.750	36.00	36.00	70.10	102.98	103.36	103.36
618	30.800	36.00	36.00	69.62	102.20	102.58	102.58
619	30.850	36.00	36.00	69.14	101.43	101.80	101.80
620	30.900	36.00	36.00	68.67	100.66	101.04	101.04
621	30.950	36.00	36.00	68.20	99.91	100.28	100.28
622	31.000	36.00	36.00	67.74	99.17	99.53	99.53
623	31.050	36.00	36.00	67.28	98.43	98.79	98.79
624	31.100	36.00	36.00	66.83	97.70	98.06	98.06
625	31.150	36.00	36.00	66.38	96.98	97.33	97.33
626	31.200	36.00	36.00	65.94	96.27	96.61	96.61
627	31.250	36.00	36.00	65.50	95.56	95.91	95.91
628	31.300	36.00	36.00	65.07	94.87	95.21	95.21
629	31.350	36.00	36.00	64.64	94.18	94.52	94.52
630	31.400	36.00	36.00	64.22	93.50	93.83	93.83
631	31.450	36.00	36.00	63.80	92.83	93.16	93.16
632	31.500	36.00	36.00	63.38	92.17	92.49	92.49
633	31.550	36.00	36.00	62.98	91.51	91.83	91.83
634	31.600	36.00	36.00	62.57	90.86	91.18	91.18
635	31.650	36.00	36.00	62.18	90.22	90.53	90.53
636	31.700	36.00	36.00	61.78	89.59	89.89	89.89
637	31.750	36.00	36.00	61.40	88.96	89.26	89.26
638	31.800	36.00	36.00	61.01	88.34	88.64	88.64
639	31.850	36.00	36.00	60.63	87.73	88.03	88.03
640	31.900	36.00	36.00	60.26	87.13	87.42	87.42
641	31.950	36.00	36.00	59.89	86.53	86.82	86.82
642	32.000	36.00	36.00	59.53	85.94	86.23	86.23
643	32.050	36.00	36.00	59.17	85.36	85.64	85.64
644	32.100	36.00	36.00	58.81	84.79	85.07	85.07
645	32.150	36.00	36.00	58.46	84.22	84.49	84.49

646	32.200	36.00	36.00	58.11	83.66	83.93	83.93
647	32.250	36.00	36.00	57.77	83.10	83.37	83.37
648	32.300	36.00	36.00	57.43	82.56	82.82	82.82
649	32.350	36.00	36.00	57.10	82.02	82.28	82.28
650	32.400	36.00	36.00	56.77	81.48	81.74	81.74
651	32.450	36.00	36.00	56.45	80.96	81.21	81.21
652	32.500	36.00	36.00	56.13	80.44	80.69	80.69
653	32.550	36.00	36.00	55.82	79.92	80.17	80.17
654	32.600	36.00	36.00	55.51	79.41	79.66	79.66
655	32.650	36.00	36.00	55.20	78.91	79.16	79.16
656	32.700	36.00	36.00	54.90	78.42	78.66	78.66
657	32.750	36.00	36.00	54.60	77.93	78.17	78.17
658	32.800	36.00	36.00	54.31	77.45	77.68	77.68
659	32.850	36.00	36.00	54.02	76.97	77.20	77.20
660	32.900	36.00	36.00	53.73	76.50	76.73	76.73
661	32.950	36.00	36.00	53.45	76.04	76.26	76.26
662	33.000	36.00	36.00	53.17	75.58	75.80	75.80
663	33.050	36.00	36.00	52.90	75.13	75.35	75.35
664	33.100	36.00	36.00	52.63	74.68	74.90	74.90
665	33.150	36.00	36.00	52.37	74.24	74.46	74.46
666	33.200	36.00	36.00	52.11	73.81	74.02	74.02
667	33.250	36.00	36.00	51.85	73.38	73.59	73.59
668	33.300	36.00	36.00	51.60	72.96	73.16	73.16
669	33.350	36.00	36.00	51.35	72.54	72.74	72.74
670	33.400	36.00	36.00	51.10	72.12	72.32	72.32
671	33.450	36.00	36.00	50.86	71.72	71.91	71.91
672	33.500	36.00	36.00	50.62	71.32	71.51	71.51
673	33.550	36.00	36.00	50.38	70.92	71.11	71.11
674	33.600	36.00	36.00	50.15	70.53	70.72	70.72
675	33.650	36.00	36.00	49.92	70.14	70.33	70.33
676	33.700	36.00	36.00	49.70	69.76	69.95	69.95
677	33.750	36.00	36.00	49.48	69.39	69.57	69.57
678	33.800	36.00	36.00	49.26	69.02	69.19	69.19
679	33.850	36.00	36.00	49.04	68.65	68.83	68.83
680	33.900	36.00	36.00	48.83	68.29	68.46	68.46
681	33.950	36.00	36.00	48.63	67.93	68.10	68.10
682	34.000	36.00	36.00	48.42	67.58	67.75	67.75
683	34.050	36.00	36.00	48.22	67.23	67.40	67.40
684	34.100	36.00	36.00	48.02	66.89	67.06	67.06
685	34.150	36.00	36.00	47.83	66.56	66.72	66.72
686	34.200	36.00	36.00	47.64	66.22	66.38	66.38
687	34.250	36.00	36.00	47.45	65.89	66.05	66.05
688	34.300	36.00	36.00	47.26	65.57	65.73	65.73
689	34.350	36.00	36.00	47.08	65.25	65.41	65.41
690	34.400	36.00	36.00	46.90	64.94	65.09	65.09
691	34.450	36.00	36.00	46.72	64.63	64.77	64.77
692	34.500	36.00	36.00	46.55	64.32	64.47	64.47
693	34.550	36.00	36.00	46.38	64.02	64.16	64.16
694	34.600	36.00	36.00	46.21	63.72	63.86	63.86
695	34.650	36.00	36.00	46.05	63.42	63.56	63.56
696	34.700	36.00	36.00	45.88	63.13	63.27	63.27
697	34.750	36.00	36.00	45.72	62.85	62.98	62.98
698	34.800	36.00	36.00	45.57	62.56	62.70	62.70
699	34.850	36.00	36.00	45.41	62.29	62.42	62.42
700	34.900	36.00	36.00	45.26	62.01	62.14	62.14
701	34.950	36.00	36.00	45.11	61.74	61.87	61.87
702	35.000	36.00	36.00	44.96	61.47	61.60	61.60
703	35.050	36.00	36.00	44.82	61.21	61.33	61.33
704	35.100	36.00	36.00	44.68	60.95	61.07	61.07
705	35.150	36.00	36.00	44.54	60.69	60.81	60.81
706	35.200	36.00	36.00	44.40	60.44	60.56	60.56
707	35.250	36.00	36.00	44.27	60.19	60.31	60.31
708	35.300	36.00	36.00	44.13	59.94	60.06	60.06
709	35.350	36.00	36.00	44.01	59.70	59.82	59.82
710	35.400	36.00	36.00	43.88	59.46	59.57	59.57
711	35.450	36.00	36.00	43.75	59.22	59.34	59.34
712	35.500	36.00	36.00	43.63	58.99	59.10	59.10
713	35.550	36.00	36.00	43.51	58.76	58.87	58.87
714	35.600	36.00	36.00	43.39	58.53	58.64	58.64
715	35.650	36.00	36.00	43.27	58.31	58.42	58.42
716	35.700	36.00	36.00	43.15	58.09	58.19	58.19
717	35.750	36.00	36.00	43.04	57.87	57.98	57.98
718	35.800	36.00	36.00	42.93	57.66	57.76	57.76
719	35.850	36.00	36.00	42.82	57.44	57.55	57.55
720	35.900	36.00	36.00	42.71	57.23	57.34	57.34
721	35.950	36.00	36.00	42.61	57.03	57.13	57.13
722	36.000	36.00	36.00	42.50	56.83	56.92	56.92
723	36.050	36.00	36.00	42.40	56.62	56.72	56.72
724	36.100	36.00	36.00	42.30	56.43	56.52	56.52
725	36.150	36.00	36.00	42.21	56.23	56.33	56.33
726	36.200	36.00	36.00	42.11	56.04	56.13	56.13
727	36.250	36.00	36.00	42.01	55.85	55.94	55.94
728	36.300	36.00	36.00	41.92	55.66	55.75	55.75
729	36.350	36.00	36.00	41.83	55.48	55.57	55.57
730	36.400	36.00	36.00	41.74	55.29	55.38	55.38
731	36.450	36.00	36.00	41.65	55.11	55.20	55.20
732	36.500	36.00	36.00	41.56	54.94	55.02	55.02
733	36.550	36.00	36.00	41.48	54.76	54.85	54.85
734	36.600	36.00	36.00	41.40	54.59	54.67	54.67
735	36.650	36.00	36.00	41.31	54.42	54.50	54.50
736	36.700	36.00	36.00	41.23	54.25	54.33	54.33
737	36.750	36.00	36.00	41.15	54.08	54.16	54.16
738	36.800	36.00	36.00	41.08	53.92	54.00	54.00
739	36.850	36.00	36.00	41.00	53.76	53.83	53.83
740	36.900	36.00	36.00	40.93	53.60	53.67	53.67

741	36.950	36.00	36.00	40.85	53.44	53.52	53.52
742	37.000	36.00	36.00	40.78	53.28	53.36	53.36
743	37.050	36.00	36.00	40.71	53.13	53.20	53.20
744	37.100	36.00	36.00	40.64	52.98	53.05	53.05
745	37.150	36.00	36.00	40.57	52.83	52.90	52.90
746	37.200	36.00	36.00	40.50	52.68	52.75	52.75
747	37.250	36.00	36.00	40.44	52.54	52.61	52.61
748	37.300	36.00	36.00	40.37	52.39	52.46	52.46
749	37.350	36.00	36.00	40.31	52.25	52.32	52.32
750	37.400	36.00	36.00	40.25	52.11	52.18	52.18
751	37.450	36.00	36.00	40.18	51.97	52.04	52.04
752	37.500	36.00	36.00	40.12	51.83	51.90	51.90
753	37.550	36.00	36.00	40.06	51.70	51.76	51.76
754	37.600	36.00	36.00	40.01	51.57	51.63	51.63
755	37.650	36.00	36.00	39.95	51.43	51.50	51.50
756	37.700	36.00	36.00	39.89	51.30	51.37	51.37
757	37.750	36.00	36.00	39.84	51.18	51.24	51.24
758	37.800	36.00	36.00	39.78	51.05	51.11	51.11
759	37.850	36.00	36.00	39.73	50.92	50.99	50.99
760	37.900	36.00	36.00	39.68	50.80	50.86	50.86
761	37.950	36.00	36.00	39.63	50.68	50.74	50.74
762	38.000	36.00	36.00	39.58	50.56	50.62	50.62
763	38.050	36.00	36.00	39.53	50.44	50.50	50.50
764	38.100	36.00	36.00	39.48	50.32	50.38	50.38
765	38.150	36.00	36.00	39.43	50.21	50.26	50.26
766	38.200	36.00	36.00	39.38	50.09	50.15	50.15
767	38.250	36.00	36.00	39.34	49.98	50.03	50.03
768	38.300	36.00	36.00	39.29	49.87	49.92	49.92
769	38.350	36.00	36.00	39.25	49.76	49.81	49.81
770	38.400	36.00	36.00	39.20	49.65	49.70	49.70
771	38.450	36.00	36.00	39.16	49.54	49.59	49.59
772	38.500	36.00	36.00	39.12	49.43	49.48	49.48
773	38.550	36.00	36.00	39.08	49.33	49.38	49.38
774	38.600	36.00	36.00	39.04	49.22	49.27	49.27
775	38.650	36.00	36.00	38.99	49.12	49.17	49.17
776	38.700	36.00	36.00	38.96	49.02	49.07	49.07
777	38.750	36.00	36.00	38.92	48.92	48.97	48.97
778	38.800	36.00	36.00	38.88	48.82	48.87	48.87
779	38.850	36.00	36.00	38.84	48.72	48.77	48.77
780	38.900	36.00	36.00	38.80	48.62	48.67	48.67
781	38.950	36.00	36.00	38.77	48.53	48.57	48.57
782	39.000	36.00	36.00	38.73	48.43	48.48	48.48
783	39.050	36.00	36.00	38.70	48.34	48.38	48.38
784	39.100	36.00	36.00	38.66	48.25	48.29	48.29
785	39.150	36.00	36.00	38.63	48.16	48.20	48.20
786	39.200	36.00	36.00	38.60	48.06	48.11	48.11
787	39.250	36.00	36.00	38.56	47.98	48.02	48.02
788	39.300	36.00	36.00	38.53	47.89	47.93	47.93
789	39.350	36.00	36.00	38.50	47.80	47.84	47.84
790	39.400	36.00	36.00	38.47	47.71	47.75	47.75
791	39.450	36.00	36.00	38.44	47.63	47.67	47.67
792	39.500	36.00	36.00	38.41	47.54	47.58	47.58
793	39.550	36.00	36.00	38.38	47.46	47.50	47.50
794	39.600	36.00	36.00	38.35	47.38	47.42	47.42
795	39.650	36.00	36.00	38.32	47.29	47.33	47.33
796	39.700	36.00	36.00	38.29	47.21	47.25	47.25
797	39.750	36.00	36.00	38.27	47.13	47.17	47.17
798	39.800	36.00	36.00	38.24	47.05	47.09	47.09
799	39.850	36.00	36.00	38.21	46.98	47.01	47.01
800	39.900	36.00	36.00	38.19	46.90	46.94	46.94
801	39.950	36.00	36.00	38.16	46.82	46.86	46.86
802	40.000	36.00	36.00	38.13	46.75	46.78	46.78
803	40.050	36.00	36.00	38.11	46.67	46.71	46.71
804	40.100	36.00	36.00	38.08	46.60	46.63	46.63
805	40.150	36.00	36.00	38.06	46.52	46.56	46.56
806	40.200	36.00	36.00	38.04	46.45	46.49	46.49
807	40.250	36.00	36.00	38.01	46.38	46.41	46.41
808	40.300	36.00	36.00	37.99	46.31	46.34	46.34
809	40.350	36.00	36.00	37.97	46.24	46.27	46.27
810	40.400	36.00	36.00	37.94	46.17	46.20	46.20
811	40.450	36.00	36.00	37.92	46.10	46.13	46.13
812	40.500	36.00	36.00	37.90	46.03	46.06	46.06
813	40.550	36.00	36.00	37.88	45.96	46.00	46.00
814	40.600	36.00	36.00	37.86	45.90	45.93	45.93
815	40.650	36.00	36.00	37.84	45.83	45.86	45.86
816	40.700	36.00	36.00	37.82	45.76	45.80	45.80
817	40.750	36.00	36.00	37.80	45.70	45.73	45.73
818	40.800	36.00	36.00	37.78	45.64	45.67	45.67
819	40.850	36.00	36.00	37.76	45.57	45.60	45.60
820	40.900	36.00	36.00	37.74	45.51	45.54	45.54
821	40.950	36.00	36.00	37.72	45.45	45.48	45.48
822	41.000	36.00	36.00	37.70	45.38	45.41	45.41
823	41.050	36.00	36.00	37.68	45.32	45.35	45.35
824	41.100	36.00	36.00	37.67	45.26	45.29	45.29
825	41.150	36.00	36.00	37.65	45.20	45.23	45.23
826	41.200	36.00	36.00	37.63	45.14	45.17	45.17
827	41.250	36.00	36.00	37.61	45.08	45.11	45.11
828	41.300	36.00	36.00	37.60	45.03	45.05	45.05
829	41.350	36.00	36.00	37.58	44.97	45.00	45.00
830	41.400	36.00	36.00	37.56	44.91	44.94	44.94
831	41.450	36.00	36.00	37.55	44.85	44.88	44.88
832	41.500	36.00	36.00	37.53	44.80	44.83	44.83
833	41.550	36.00	36.00	37.52	44.74	44.77	44.77
834	41.600	36.00	36.00	37.50	44.69	44.71	44.71
835	41.650	36.00	36.00	37.49	44.63	44.66	44.66

836	41.700	36.00	36.00	37.47	44.58	44.61	44.61
837	41.750	36.00	36.00	37.46	44.53	44.55	44.55
838	41.800	36.00	36.00	37.44	44.47	44.50	44.50
839	41.850	36.00	36.00	37.43	44.42	44.45	44.45
840	41.900	36.00	36.00	37.41	44.37	44.39	44.39
841	41.950	36.00	36.00	37.40	44.32	44.34	44.34
842	42.000	36.00	36.00	37.38	44.27	44.29	44.29
843	42.050	36.00	36.00	37.37	44.21	44.24	44.24
844	42.100	36.00	36.00	37.36	44.16	44.19	44.19
845	42.150	36.00	36.00	37.34	44.11	44.14	44.14
846	42.200	36.00	36.00	37.33	44.07	44.09	44.09
847	42.250	36.00	36.00	37.32	44.02	44.04	44.04
848	42.300	36.00	36.00	37.31	43.97	43.99	43.99
849	42.350	36.00	36.00	37.29	43.92	43.94	43.94
850	42.400	36.00	36.00	37.28	43.87	43.90	43.90
851	42.450	36.00	36.00	37.27	43.83	43.85	43.85
852	42.500	36.00	36.00	37.26	43.78	43.80	43.80
853	42.550	36.00	36.00	37.24	43.73	43.75	43.75
854	42.600	36.00	36.00	37.23	43.69	43.71	43.71
855	42.650	36.00	36.00	37.22	43.64	43.66	43.66
856	42.700	36.00	36.00	37.21	43.60	43.62	43.62
857	42.750	36.00	36.00	37.20	43.55	43.57	43.57
858	42.800	36.00	36.00	37.19	43.51	43.53	43.53
859	42.850	36.00	36.00	37.18	43.46	43.48	43.48
860	42.900	36.00	36.00	37.17	43.42	43.44	43.44
861	42.950	36.00	36.00	37.16	43.38	43.40	43.40
862	43.000	36.00	36.00	37.14	43.33	43.35	43.35
863	43.050	36.00	36.00	37.13	43.29	43.31	43.31
864	43.100	36.00	36.00	37.12	43.25	43.27	43.27
865	43.150	36.00	36.00	37.11	43.21	43.23	43.23
866	43.200	36.00	36.00	37.10	43.16	43.18	43.18
867	43.250	36.00	36.00	37.09	43.12	43.14	43.14
868	43.300	36.00	36.00	37.08	43.08	43.10	43.10
869	43.350	36.00	36.00	37.07	43.04	43.06	43.06
870	43.400	36.00	36.00	37.07	43.00	43.02	43.02
871	43.450	36.00	36.00	37.06	42.96	42.98	42.98
872	43.500	36.00	36.00	37.05	42.92	42.94	42.94
873	43.550	36.00	36.00	37.04	42.88	42.90	42.90
874	43.600	36.00	36.00	37.03	42.84	42.86	42.86
875	43.650	36.00	36.00	37.02	42.81	42.82	42.82
876	43.700	36.00	36.00	37.01	42.77	42.79	42.79
877	43.750	36.00	36.00	37.00	42.73	42.75	42.75
878	43.800	36.00	36.00	36.99	42.69	42.71	42.71
879	43.850	36.00	36.00	36.98	42.66	42.67	42.67
880	43.900	36.00	36.00	36.98	42.62	42.64	42.64
881	43.950	36.00	36.00	36.97	42.58	42.60	42.60
882	44.000	36.00	36.00	36.96	42.54	42.56	42.56
883	44.050	36.00	36.00	36.95	42.51	42.53	42.53
884	44.100	36.00	36.00	36.94	42.47	42.49	42.49
885	44.150	36.00	36.00	36.94	42.44	42.45	42.45
886	44.200	36.00	36.00	36.93	42.40	42.42	42.42
887	44.250	36.00	36.00	36.92	42.37	42.38	42.38
888	44.300	36.00	36.00	36.91	42.33	42.35	42.35
889	44.350	36.00	36.00	36.90	42.30	42.31	42.31
890	44.400	36.00	36.00	36.90	42.26	42.28	42.28
891	44.450	36.00	36.00	36.89	42.23	42.25	42.25
892	44.500	36.00	36.00	36.88	42.20	42.21	42.21
893	44.550	36.00	36.00	36.88	42.16	42.18	42.18
894	44.600	36.00	36.00	36.87	42.13	42.15	42.15
895	44.650	36.00	36.00	36.86	42.10	42.11	42.11
896	44.700	36.00	36.00	36.85	42.06	42.08	42.08
897	44.750	36.00	36.00	36.85	42.03	42.05	42.05
898	44.800	36.00	36.00	36.84	42.00	42.01	42.01
899	44.850	36.00	36.00	36.83	41.97	41.98	41.98
900	44.900	36.00	36.00	36.83	41.94	41.95	41.95
901	44.950	36.00	36.00	36.82	41.90	41.92	41.92
902	45.000	36.00	36.00	36.81	41.87	41.89	41.89
903	45.050	36.00	36.00	36.81	41.84	41.86	41.86
904	45.100	36.00	36.00	36.80	41.81	41.83	41.83
905	45.150	36.00	36.00	36.79	41.78	41.79	41.79
906	45.200	36.00	36.00	36.79	41.75	41.76	41.76
907	45.250	36.00	36.00	36.78	41.72	41.73	41.73
908	45.300	36.00	36.00	36.78	41.69	41.70	41.70
909	45.350	36.00	36.00	36.77	41.66	41.67	41.67
910	45.400	36.00	36.00	36.76	41.63	41.64	41.64
911	45.450	36.00	36.00	36.76	41.60	41.62	41.62
912	45.500	36.00	36.00	36.75	41.57	41.59	41.59
913	45.550	36.00	36.00	36.75	41.54	41.56	41.56
914	45.600	36.00	36.00	36.74	41.51	41.53	41.53
915	45.650	36.00	36.00	36.73	41.49	41.50	41.50
916	45.700	36.00	36.00	36.73	41.46	41.47	41.47
917	45.750	36.00	36.00	36.72	41.43	41.44	41.44
918	45.800	36.00	36.00	36.72	41.40	41.42	41.42
919	45.850	36.00	36.00	36.71	41.38	41.39	41.39
920	45.900	36.00	36.00	36.71	41.35	41.36	41.36
921	45.950	36.00	36.00	36.70	41.32	41.33	41.33
922	46.000	36.00	36.00	36.70	41.29	41.31	41.31
923	46.050	36.00	36.00	36.69	41.27	41.28	41.28
924	46.100	36.00	36.00	36.69	41.24	41.25	41.25
925	46.150	36.00	36.00	36.68	41.21	41.23	41.23
926	46.200	36.00	36.00	36.68	41.19	41.20	41.20
927	46.250	36.00	36.00	36.67	41.16	41.17	41.17
928	46.300	36.00	36.00	36.67	41.13	41.15	41.15
929	46.350	36.00	36.00	36.66	41.11	41.12	41.12
930	46.400	36.00	36.00	36.66	41.08	41.10	41.10

931	46.450	36.00	36.00	36.65	41.06	41.07	41.07
932	46.500	36.00	36.00	36.65	41.03	41.05	41.05
933	46.550	36.00	36.00	36.64	41.01	41.02	41.02
934	46.600	36.00	36.00	36.64	40.98	41.00	41.00
935	46.650	36.00	36.00	36.63	40.96	40.97	40.97
936	46.700	36.00	36.00	36.63	40.93	40.95	40.95
937	46.750	36.00	36.00	36.62	40.91	40.92	40.92
938	46.800	36.00	36.00	36.62	40.89	40.90	40.90
939	46.850	36.00	36.00	36.61	40.86	40.87	40.87
940	46.900	36.00	36.00	36.61	40.84	40.85	40.85
941	46.950	36.00	36.00	36.61	40.81	40.83	40.83
942	47.000	36.00	36.00	36.60	40.79	40.80	40.80
943	47.050	36.00	36.00	36.60	40.77	40.78	40.78
944	47.100	36.00	36.00	36.59	40.74	40.75	40.75
945	47.150	36.00	36.00	36.59	40.72	40.73	40.73
946	47.200	36.00	36.00	36.59	40.70	40.71	40.71
947	47.250	36.00	36.00	36.58	40.67	40.69	40.69
948	47.300	36.00	36.00	36.58	40.65	40.66	40.66
949	47.350	36.00	36.00	36.57	40.63	40.64	40.64
950	47.400	36.00	36.00	36.57	40.61	40.62	40.62
951	47.450	36.00	36.00	36.56	40.59	40.60	40.60
952	47.500	36.00	36.00	36.56	40.56	40.57	40.57
953	47.550	36.00	36.00	36.56	40.54	40.55	40.55
954	47.600	36.00	36.00	36.55	40.52	40.53	40.53
955	47.650	36.00	36.00	36.55	40.50	40.51	40.51
956	47.700	36.00	36.00	36.55	40.48	40.49	40.49
957	47.750	36.00	36.00	36.54	40.46	40.47	40.47
958	47.800	36.00	36.00	36.54	40.43	40.44	40.44
959	47.850	36.00	36.00	36.53	40.41	40.42	40.42
960	47.900	36.00	36.00	36.53	40.39	40.40	40.40
961	47.950	36.00	36.00	36.53	40.37	40.38	40.38
962	48.000	36.00	36.00	36.52	40.35	40.36	40.36
963	48.050	36.00	36.00	36.52	40.33	40.34	40.34
964	48.100	36.00	36.00	36.52	40.31	40.32	40.32
965	48.150	36.00	36.00	36.51	40.29	40.30	40.30
966	48.200	36.00	36.00	36.51	40.27	40.28	40.28
967	48.250	36.00	36.00	36.51	40.25	40.26	40.26
968	48.300	36.00	36.00	36.50	40.23	40.24	40.24
969	48.350	36.00	36.00	36.50	40.21	40.22	40.22
970	48.400	36.00	36.00	36.50	40.19	40.20	40.20
971	48.450	36.00	36.00	36.49	40.17	40.18	40.18
972	48.500	36.00	36.00	36.49	40.15	40.16	40.16
973	48.550	36.00	36.00	36.49	40.13	40.14	40.14
974	48.600	36.00	36.00	36.48	40.11	40.12	40.12
975	48.650	36.00	36.00	36.48	40.09	40.10	40.10
976	48.700	36.00	36.00	36.48	40.08	40.08	40.08
977	48.750	36.00	36.00	36.47	40.06	40.07	40.07
978	48.800	36.00	36.00	36.47	40.04	40.05	40.05
979	48.850	36.00	36.00	36.47	40.02	40.03	40.03
980	48.900	36.00	36.00	36.46	40.00	40.01	40.01
981	48.950	36.00	36.00	36.46	39.98	39.99	39.99
982	49.000	36.00	36.00	36.46	39.96	39.97	39.97
983	49.050	36.00	36.00	36.45	39.95	39.96	39.96
984	49.100	36.00	36.00	36.45	39.93	39.94	39.94
985	49.150	36.00	36.00	36.45	39.91	39.92	39.92
986	49.200	36.00	36.00	36.45	39.89	39.90	39.90
987	49.250	36.00	36.00	36.44	39.88	39.88	39.88
988	49.300	36.00	36.00	36.44	39.86	39.87	39.87
989	49.350	36.00	36.00	36.44	39.84	39.85	39.85
990	49.400	36.00	36.00	36.43	39.82	39.83	39.83
991	49.450	36.00	36.00	36.43	39.81	39.81	39.81
992	49.500	36.00	36.00	36.43	39.79	39.80	39.80
993	49.550	36.00	36.00	36.43	39.77	39.78	39.78
994	49.600	36.00	36.00	36.42	39.76	39.76	39.76
995	49.650	36.00	36.00	36.42	39.74	39.75	39.75
996	49.700	36.00	36.00	36.42	39.72	39.73	39.73
997	49.750	36.00	36.00	36.41	39.71	39.71	39.71
998	49.800	36.00	36.00	36.41	39.69	39.70	39.70
999	49.850	36.00	36.00	36.41	39.67	39.68	39.68
1000	49.900	36.00	36.00	36.41	39.66	39.66	39.66
1001	49.950	36.00	36.00	36.40	39.64	39.65	39.65

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 1
BELOW JOCASSEE HYDRO-M1 AT MILE .10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1084.97 FEET
FLOOD STAGE = 363.00 FEET
MAX STAGE = 338.97 FEET AT TIME = .000 HOURS
MAX FLOW = 4053787 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	339.0	26600	*					
2	333.5	854400	*					
4	265.2	4053787	*					
6	164.4	1234722	*					
8	106.9	352422	*					
10	77.4	94505	*					
12	67.0	38117	*					
14	65.9	33206	*					
16	66.4	35214	*					
18	66.5	35781	*					
20	66.6	35939	*					
22	66.6	35983	*					
24	66.6	35996	*					
26	66.6	35996	*					
28	66.6	35996	*					
30	66.6	35996	*					
32	66.6	35996	*					
34	66.6	35996	*					
36	66.6	35996	*					
38	66.6	35996	*					
40	66.6	35996	*					
42	66.6	35996	*					
44	66.6	35996	*					
46	66.6	35996	*					
48	66.6	35996	*					

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 13
BELOW JOCASSEE HYDRO-M1 AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 873.55 FEET
FLOOD STAGE = 69.00 FEET
MAX STAGE = 142.55 FEET AT TIME = 4.550 HOURS
MAX FLOW = 3808215 CFS AT TIME = 4.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	66.0	26615	*					
2	74.9	780619	*					
4	135.9	3803513	*					
6	125.1	1366918	*					
8	84.9	412678	*					
10	70.2	119871	*					
12	53.0	57841	*					
14	47.9	48249	*					
16	33.8	43084	*					
18	24.6	40839	*					
20	18.1	36824	*					
22	16.5	36023	*					
24	16.4	35997	*					
26	16.4	35997	*					
28	16.4	35996	*					
30	16.4	35996	*					
32	16.4	35996	*					
34	16.4	35996	*					
36	16.4	35996	*					
38	16.4	35996	*					
40	16.4	35996	*					
42	16.4	35996	*					
44	16.4	35996	*					
46	16.4	35996	*					
48	16.4	35996	*					

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 73
BELOW JOCASSEE HYDRO-M1 AT MILE 13.90

GAGE ZERO = 648.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.02 FEET
FLOOD STAGE = 152.00 FEET
MAX STAGE = 174.02 FEET AT TIME = 5.150 HOURS
MAX FLOW = 3029917 CFS AT TIME = 5.950 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.6	105611	.	.	.	.	.	.
1	148.5	59851	.	.	.	.	.	.
2	149.9	251663	.	.	.	.	.	.
3	156.4	800327	.	.	.	.	.	.
4	166.6	1414046	.	.	.	.	.	.
5	173.9	2090489	.	.	.	.	.	.
6	169.0	3018870	.	.	.	.	.	.
7	167.0	1736505	.	.	.	.	.	.
8	163.2	1161114	.	.	.	.	.	.
9	157.7	813410	.	.	.	.	.	.
10	152.0	669553	.	.	.	.	.	.
11	146.6	543377	.	.	.	.	.	.
12	140.9	509025	.	.	.	.	.	.
13	135.3	442990	.	.	.	.	.	.
14	129.8	385348	.	.	.	.	.	.
15	120.8	368934	.	.	.	.	.	.
16	115.3	271692	.	.	.	.	.	.
17	110.3	249350	.	.	.	.	.	.
18	105.5	218307	.	.	.	.	.	.
19	101.0	193861	.	.	.	.	.	.
20	96.8	172269	.	.	.	.	.	.
21	92.8	154378	.	.	.	.	.	.
22	88.9	139947	.	.	.	.	.	.
23	85.3	131280	.	.	.	.	.	.
24	81.4	133622	.	.	.	.	.	.
25	77.0	138078	.	.	.	.	.	.
26	72.2	130866	.	.	.	.	.	.
27	67.5	118316	.	.	.	.	.	.
28	63.1	104027	.	.	.	.	.	.
29	59.0	90220	.	.	.	.	.	.
30	55.3	77979	.	.	.	.	.	.
31	52.1	67737	.	.	.	.	.	.
32	49.5	59524	.	.	.	.	.	.
33	47.3	53173	.	.	.	.	.	.
34	45.5	48421	.	.	.	.	.	.
35	44.1	44964	.	.	.	.	.	.
36	43.0	42504	.	.	.	.	.	.
37	42.1	40778	.	.	.	.	.	.
38	41.4	39576	.	.	.	.	.	.
39	40.8	38732	.	.	.	.	.	.
40	40.4	38133	.	.	.	.	.	.
41	40.0	37703	.	.	.	.	.	.
42	39.7	37385	.	.	.	.	.	.
43	39.5	37145	.	.	.	.	.	.
44	39.3	36960	.	.	.	.	.	.
45	39.1	36814	.	.	.	.	.	.
46	38.9	36697	.	.	.	.	.	.
47	38.8	36602	.	.	.	.	.	.
48	38.7	36523	.	.	.	.	.	.
49	38.5	36457	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 74
 BELOW JOCASSEE HYDRO-M1 AT MILE 14.10

GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.34 FEET
 FLOOD STAGE = 152.60 FEET
 MAX STAGE = 174.94 FEET AT TIME = 5.100 HOURS
 MAX FLOW = 3221308 CFS AT TIME = 6.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	149.3	37455	.	.	.	.	.	.
2	150.5	122633	.	.	.	.	.	.
4	167.5	195877	.	.	.	.	.	.
6	168.9	3188202	.	.	.	.	.	.
8	163.1	1731679	.	.	.	.	.	.
10	151.7	1411587	.	.	.	.	.	.
12	140.6	1124548	.	.	.	.	.	.
14	129.4	954808	.	.	.	.	.	.
16	115.3	594428	.	.	.	.	.	.
18	105.4	495953	.	.	.	.	.	.
20	96.6	414430	.	.	.	.	.	.
22	88.7	346796	.	.	.	.	.	.
24	81.2	286614	.	.	.	.	.	.
26	72.2	220136	.	.	.	.	.	.
28	63.1	160427	.	.	.	.	.	.
30	55.4	115733	.	.	.	.	.	.
32	49.6	85941	.	.	.	.	.	.
34	45.7	67580	.	.	.	.	.	.
36	43.2	56824	.	.	.	.	.	.
38	41.7	50558	.	.	.	.	.	.
40	40.8	46746	.	.	.	.	.	.
42	40.1	44265	.	.	.	.	.	.
44	39.7	42545	.	.	.	.	.	.
46	39.4	41293	.	.	.	.	.	.
48	39.1	40351	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 75
 BELOW JOCASSEE HYDRO-M1 AT MILE 14.20

GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.29 FEET
 FLOOD STAGE = 153.00 FEET
 MAX STAGE = 175.29 FEET AT TIME = 5.100 HOURS
 MAX FLOW = 3224424 CFS AT TIME = 6.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	149.7	19500	.	.	.	.	.	.
2	150.9	119232	.	.	.	.	.	.
4	167.9	189089	.	.	.	.	.	.
6	169.1	3193206	.	.	.	.	.	.
8	163.4	1734784	.	.	.	.	.	.
10	152.0	1414926	.	.	.	.	.	.
12	141.0	1127657	.	.	.	.	.	.
14	129.8	957477	.	.	.	.	.	.
16	115.6	596509	.	.	.	.	.	.
18	105.7	497445	.	.	.	.	.	.
20	96.9	415513	.	.	.	.	.	.
22	89.1	347633	.	.	.	.	.	.
24	81.6	287446	.	.	.	.	.	.
26	72.5	220982	.	.	.	.	.	.
28	63.4	161091	.	.	.	.	.	.
30	55.8	116188	.	.	.	.	.	.
32	50.0	86227	.	.	.	.	.	.
34	46.1	67749	.	.	.	.	.	.
36	43.6	56922	.	.	.	.	.	.
38	42.1	50616	.	.	.	.	.	.
40	41.1	46782	.	.	.	.	.	.
42	40.5	44290	.	.	.	.	.	.
44	40.0	42562	.	.	.	.	.	.
46	39.7	41306	.	.	.	.	.	.
48	39.5	40361	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 76
BELOW JOCASSRE HYDRO-M1 AT MILE 14.80
GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 803.01 FEET
FLOOD STAGE = 23.00 FEET
MAX STAGE = 157.01 FEET AT TIME = 7.150 HOURS
MAX FLOW = 3224424 CFS AT TIME = 6.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	21.2	19500	.	.	.	.	.	.
2	33.2	119232	.	.	.	.	.	.
4	47.1	189089	.	.	.	.	.	.
6	142.1	3193206	.	.	.	.	.	.
8	154.9	1734784	.	.	.	.	.	.
10	144.7	1414926	.	.	.	.	.	.
12	132.5	1127657	.	.	.	.	.	.
14	123.0	957477	.	.	.	.	.	.
16	105.8	596505	.	.	.	.	.	.
18	95.8	497445	.	.	.	.	.	.
20	88.1	415513	.	.	.	.	.	.
22	81.6	347633	.	.	.	.	.	.
24	74.8	287446	.	.	.	.	.	.
26	66.3	220982	.	.	.	.	.	.
28	55.9	161091	.	.	.	.	.	.
30	47.3	116188	.	.	.	.	.	.
32	40.6	86227	.	.	.	.	.	.
34	36.1	67749	.	.	.	.	.	.
36	33.3	56922	.	.	.	.	.	.
38	31.7	50616	.	.	.	.	.	.
40	30.5	46782	.	.	.	.	.	.
42	29.7	44290	.	.	.	.	.	.
44	29.1	42562	.	.	.	.	.	.
46	28.6	41306	.	.	.	.	.	.
48	28.2	40361	.	.	.	.	.	.

ATTACHMENT 3
JOSD21 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

JOCASSEE HYDRO-M1

ON

JOC/KEO FAILURE

ANALYSIS BY

SD FAILURE OPTION 12
JOSD21 09142008 50Fall JOC81090/K9797 W/
FPC @ L RIVER CANAL COE QT CURVE 900 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATAMBA PROJECT

.....
.....
... SUMMARY OF INPUT DATA ...
.....
.....

INPUT CONTROL PARAMETERS FOR JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KKN	1
TYPE OF RESERVOIR ROUTING	KU1	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEH	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9	NPRT	0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES) SA (K)	ELEVATION (FT) HSA (K)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1090.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	800.00
WIDTH OF BASE OF BREACH	FEET	BB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	940.00
ELEVATION OF TOP OF DAM	FEET	HD	1125.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	797.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YDMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	797.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19500.00

DAM NUMBER 3

JOCASSEE HYDRO-N1 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	658.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YDMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40875.	1.0
44081.	3.0
47314.	5.0
52201.	8.0
55476.	10.0
58759.	12.0
61222.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
47307.	.2
98699.	.5
102810.	2.0
111097.	4.0
119450.	6.0
136248.	10.0
144639.	12.0

QTT(L, K):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

OSPILL(K, 3) CFS	HEAD(K, 3) FEET
0.	.0
78750.	.5
157500.	1.0
315000.	2.0
353000.	6.0
400000.	8.0
480000.	12.0
565000.	16.0

DHF(INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.

TER(TIME AT WHICH COMPUTATIONS TERMINATE) = 50.0000 HRS.

BREX(BREACH EXPONENT) = .000

MUD(MUD FLOW OPTION) = 0

INF(TYPE OF WAVE FRONT TRACKING) = 0

KPRES(WETTED PERIMETER OPTION) = 0

KSL(LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-M1
.....

500.00	500.00	500.00	500.00	36000.00	36000.00	36000.00
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TIME OF INFLOW HYDROGRAPH ORDINATES

.0000	1.0000	7.0000	8.0000	14.0000	30.0000	140.0000
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1

CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTY	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	NSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)
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1	3	9	10	11	12
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CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
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LOCATION OF CROSS-SECTION	MILE	XS(I)
ELEVATION (MSL) OF FLOODING AT CROSS-SECTION	FEET	FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH	FEET	HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BS(K,I)
(ACTIVE FLOW PORTION)		
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BSS(K,I)
(OFF-CHANNEL PORTION)		
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		K

CROSS-SECTION NUMBER 1
.....

XS(I) = .100 FSTG(I) = 1109.00

HS ...	746.0	780.0	840.0	940.0	1000.0	1100.0	1140.0
BS ...	.0	600.0	900.0	1400.0	1800.0	2600.0	2750.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2
.....

XS(I) = .130 FSTG(I) = 800.00

HS ...	745.0	760.0	800.0	820.0	840.0	900.0	940.0
BS ...	.0	1000.0	1500.0	1600.0	1800.0	2000.0	2200.0
BSS ...	.0	.0	541.0	900.0	1184.0	2897.0	4000.0

CROSS-SECTION NUMBER 3
.....

XS(I) = 1.320 FSTG(I) = 800.00

HS ...	731.0	740.0	760.0	800.0	820.0	840.0	900.0
BS ...	.0	250.0	1300.0	2000.0	2200.0	2400.0	2600.0
BSS ...	.0	.0	.0	541.0	900.0	1184.0	2897.0

CROSS-SECTION NUMBER 4
.....

XS(I) = 2.910 FSTG(I) = 800.00

HS ...	715.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	700.0	1700.0	1850.0	2100.0	2800.0
BSS ...	.0	.0	.0	3359.0	5100.0	6807.0	12826.0

CROSS-SECTION NUMBER 5
.....

XS(I) = 3.820 FSTG(I) = 800.00

HS ...	710.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	500.0	800.0	850.0	925.0	2300.0
BSS ...	.0	.0	.0	3771.0	5780.0	7764.0	14858.0

CROSS-SECTION NUMBER 6
.....

XS(I) = 6.470 FSTG(I) = 800.00

HS ...	693.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	500.0	600.0	1000.0	1150.0	1300.0	1900.0
BSS ...	.0	.0	.0	412.0	680.0	957.0	2032.0

CROSS-SECTION NUMBER 7

XS(I) = 8.210 FSTG(I) = 800.00

HS ...	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	1600.0	1850.0	2000.0	2300.0	2425.0	2700.0
BSS ...	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8

XS(I) = 10.480 FSTG(I) = 800.00

HS ...	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	2400.0	3700.0	4000.0	4400.0	4660.0	4950.0
BSS ...	.0	.0	.0	.0	1428.0	2860.0	4300.0

CROSS-SECTION NUMBER 9

XS(I) = 13.900 FSTG(I) = 800.00

HS ...	648.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10

XS(I) = 14.100 FSTG(I) = 800.00

HS ...	647.4	680.0	740.0	780.0	800.0	820.0	840.0
BS0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11

XS(I) = 14.200 FSTG(I) = 800.00

HS ...	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12

XS(I) = 14.800 FSTG(I) = 669.00

HS ...	646.0	660.0	680.0	700.0	720.0	740.0	815.0
BS ...	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS ...	.0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13

XS(I) = 16.400 FSTG(I) = 667.00

HS ...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS ...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14

XS(I) = 17.800 FSTG(I) = 665.00

HS ...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS ...	.0	400.0	700.0	800.0	1800.0	2400.0	4000.0
BSS ...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15

XS(I) = 20.300 FSTG(I) = 661.40

HS ...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS ...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS ...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16

XS(I) = 21.900 FSTG(I) = 660.60

HS ...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS ...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS ...	.0	.0	.0	1217.0	2400.0	5000.0	6007.0

CROSS-SECTION NUMBER 17

XS(I) = 25.100 FSTG(I) = 660.00

HS ...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS ...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS ...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18

XS(I) = 26.700 FSTG(I) = 660.00

HS ...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS ...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19

XS(I) = 29.200 FSTG(I) = 660.00

HS ...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	250.0	600.0	800.0	4700.0	6000.0	7000.0
BSS ...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20

XS(1) = 31.500 FSTG(1) = 660.00

HS ...	600.0	620.0	640.0	660.0	670.0	680.0	700.0
BS ...	.0	1400.0	2000.0	2400.0	2800.0	3000.0	4000.0
BSS ...	.0	.0	.0	2330.0	3150.0	4320.0	5764.0

CROSS-SECTION NUMBER 21

XS(1) = 36.800 FSTG(1) = 660.00

HS ...	589.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	600.0	1500.0	1700.0	2200.0	2900.0	3500.0
BSS ...	.0	.0	.0	50.0	3664.0	5720.0	8808.0

CROSS-SECTION NUMBER 22

XS(1) = 40.100 FSTG(1) = 660.00

HS ...	583.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	600.0	800.0	900.0	1100.0	1200.0
BSS ...	.0	.0	.0	50.0	384.0	1900.0	3444.0

CROSS-SECTION NUMBER 23

XS(1) = 41.100 FSTG(1) = 660.00

HS ...	540.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	1500.0	1900.0	2000.0	2150.0	2350.0	3100.0
BSS ...	.0	.0	.0	50.0	10358.0	15200.0	20109.0

CROSS-SECTION NUMBER 24

XS(1) = 42.800 FSTG(1) = 660.00

HS ...	520.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	2000.0	4300.0	5700.0	11000.0	13000.0	14000.0
BSS ...	.0	.0	3500.0	4000.0	34673.0	68200.0	101803.0

CROSS-SECTION NUMBER 25

XS(1) = 49.900 FSTG(1) = 660.00

HS ...	497.0	500.0	600.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	3500.0	4200.0	10000.0	10700.0	11200.0
BSS ...	.0	.0	1000.0	1800.0	10239.0	29500.0	40619.0

CROSS-SECTION NUMBER 26

XS(1) = 51.900 FSTG(1) = 660.00

HS ...	490.0	540.0	600.0	620.0	640.0	660.0	680.0
BS0	1500.0	12000.0	14000.0	14700.0	15000.0	16200.0
BSS0	.0	.0	50.0	100.0	1500.0	2400.0

CROSS-SECTION NUMBER 27
.....

XS(I) = 54.400 FSTG(I) = 496.80

HS	...	495.0	500.0	520.0	540.0	560.0	580.0	600.0
BS	...	.0	1000.0	1100.0	1200.0	1250.0	2100.0	2300.0
BSS	...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28
.....

XS(I) = 55.700 FSTG(I) = 482.00

HS	...	474.0	480.0	500.0	520.0	540.0	560.0	600.0
BS	...	.0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS	...	.0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29
.....

XS(I) = 69.700 FSTG(I) = 477.00

HS	...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS	...	.0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS	...	.0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30
.....

XS(I) = 72.300 FSTG(I) = 477.00

HS	...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS	...	.0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS	...	.0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31
.....

XS(I) = 79.900 FSTG(I) = 477.00

HS	...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS	...	.0	1500.0	1800.0	2000.0	2200.0	2800.0	6000.0
BSS	...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(CM(X,I), X=1, NCS) WHERE I = REACH NUMBER
.....

REACH 1	...	.030	.030	.030	.030	.030	.030	.030
REACH 2	...	.030	.030	.035	.040	.050	.070	.080
REACH 3	...	.030	.030	.030	.035	.040	.050	.080
REACH 4	...	.030	.030	.030	.035	.040	.050	.060
REACH 5	...	.030	.030	.030	.035	.040	.050	.060
REACH 6	...	.030	.030	.030	.030	.035	.050	.080
REACH 7	...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.060	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.050	.060	.080
REACH 27 ...	.030	.030	.030	.035	.050	.060	.080
REACH 28030	.030	.030	.035	.050	.060	.080
REACH 29030	.030	.030	.035	.050	.060	.080
REACH 30030	.030	.030	.035	.050	.060	.080

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CROSS-SECTIONAL VARIABLES FOR JOC/KED FAILURE
BELOW JOCASSET HYDRO-M1

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FKC(I)

REACH NUMBER	DXM(I)	FKC(I)
1	-101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.500	.000
8	.200	.000
9	.500	.000
10	1.500	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS / FEET	QLL	.000
INITIAL SIZE OF TIME STEP	HOURL	DTIM	.0500
DOWNSTREAM BOUNDARY PARAMETER	FEET	YDN	.000200
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPH	SCM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOURL	TFI	.00

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NPLO= 1
III= 1 NXPI(K,III)= 9 NXPN(K,III)= 10 NOLP(K)= 0 PNELV(K,III)= 720.10 PCWR(K,III)= 3.20 PEO(K)= 794.61 QMINP(K)=
.00

(PSA(I,K),I=1,8)
58854.00 353605.00 485177.00 535128.00 644168.00 703866.00 767766.00 908172.00

(PEL(I,K),I=1,8)
720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(OPU(I,K),I=1,ITEH)
.00 .00 .00 .00 .00 .00 .00 .00

(COFF(I,K),I=1,8)
.00 .00 .00 .00 .00 .00 .00 .00

(HCFF(I,K),I=1,8)
900.00 .00 .00 .00 .00 .00 .00 .00
NPH= 0
  
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TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (NI) = 183 (MAXIMUM ALLOWABLE = 250)

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*** SUMMARY OF OUTPUT DATA ***
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CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESSAGE
1	.10	746.00	1	.03	33.33	
2	.13	745.00	2	1.19	11.76	
3	1.32	731.00	3	1.59	10.06	
4	2.91	715.00	4	.91	5.49	
5	3.82	710.00	5	2.65	6.42	
6	6.47	693.00	6	1.74	7.47	
7	8.21	680.00	7	2.27	3.52	
8	10.48	672.00	8	3.42	7.02	
9	13.90	648.00	9	.20	3.00	
10	14.10	647.46	10	.10	4.00	
11	14.70	647.00	11	.60	1.67	
12	14.80	646.00	12	1.60	.63	
13	16.40	645.00	13	1.40	.71	
14	17.80	644.00	14	2.50	4.40	
15	20.30	633.00	15	1.60	3.12	
16	21.90	628.00	16	3.20	2.50	
17	25.10	620.00	17	1.60	3.75	
18	26.70	614.00	18	2.50	2.80	
19	29.20	607.00	19	2.30	3.04	
20	31.50	600.00	20	5.30	2.08	
21	36.60	589.00	21	3.30	1.82	
22	40.10	583.00	22	1.00	43.00	
23	41.10	540.00	23	1.70	11.76	
24	42.80	520.00	24	7.10	3.24	
25	49.90	497.00	25	4.00	1.75	
26	53.90	490.00	26	.50	10.00	
27	54.40	485.00	27	1.35	8.46	
28	55.70	474.00	28	14.00	4.93	
29	69.70	405.00	29	2.60	6.92	
30	72.30	387.00	30	7.60	7.50	
31	79.90	330.00				

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1

IDAM(2) = 75

IDAM(3) = 140

SNC(N,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS NN(NS) 183

NUMBER OF TIME STEPS NNU 7

ROUTING COMPLETED.

KTIME= 1001 ALLOWABLE KTIME=9999 TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.100	1089.98	4158788	.000	14.23	1109.00	.00
.130	879.62	4158788	4.450	21.08	800.00	1.40
.238	879.24	4136881	4.450	21.47	800.00	1.40
.346	878.86	4114740	4.450	21.02	800.00	1.45
.455	878.47	4092400	4.450	20.55	800.00	1.45
.563	878.07	4069895	4.500	20.06	800.00	1.45
.671	877.69	4047255	4.500	19.55	800.00	1.45
.779	877.33	4024337	4.500	19.02	800.00	1.45
.887	876.98	4001012	4.500	18.48	800.00	1.45
.995	876.65	3977300	4.550	17.92	800.00	1.50
1.104	876.36	3953192	4.550	17.35	800.00	1.50
1.212	876.08	3928693	4.550	16.77	800.00	1.50
1.320	875.82	3904938	4.550	16.18	800.00	1.50
1.426	875.49	3881642	4.550	16.22	800.00	1.50
1.532	875.17	3858449	4.600	16.26	800.00	1.50
1.638	874.84	3835353	4.600	16.29	800.00	1.50
1.744	874.51	3812377	4.600	16.31	800.00	1.50
1.850	874.17	3789554	4.600	16.33	800.00	1.55
1.956	873.83	3766827	4.650	16.34	800.00	1.55
2.062	873.49	3744186	4.650	16.35	800.00	1.55
2.168	873.13	3664499	4.650	16.34	800.00	1.55
2.274	872.77	3621836	4.650	16.33	800.00	1.55
2.380	872.40	3576647	4.700	16.31	800.00	1.55
2.486	872.03	3529006	4.700	16.29	800.00	1.55
2.592	871.64	3479002	4.700	16.25	800.00	1.60
2.698	871.24	3428488	4.700	16.21	800.00	1.60
2.804	870.82	3380215	4.700	16.17	800.00	1.60
2.910	870.39	3329738	4.700	16.11	800.00	1.60
3.013	869.91	3181794	4.750	16.04	800.00	1.65
3.117	869.44	3050317	4.800	23.94	800.00	1.65
3.220	868.97	2939253	4.900	36.04	800.00	1.75
4.024	848.87	2875186	4.900	35.04	800.00	1.80
4.228	845.10	2822853	4.900	34.27	800.00	1.85
4.432	841.71	2778472	4.950	33.68	800.00	1.85
4.635	838.82	2742912	5.150	33.25	800.00	1.90
4.839	836.22	2717891	5.250	32.98	800.00	1.95
5.043	833.75	2700650	5.350	32.85	800.00	2.00
5.247	831.45	2692427	5.400	32.89	800.00	2.05
5.451	829.27	2686397	5.450	33.07	800.00	2.10
5.655	827.20	2680562	5.500	33.40	800.00	2.20
5.858	825.24	2673872	5.550	33.99	800.00	2.30
6.062	823.36	2665948	5.600	34.94	800.00	2.35
6.266	821.50	2657415	5.600	36.48	800.00	2.50
6.470	819.89	2647371	5.650	39.20	800.00	2.65
6.687	823.01	2635494	5.550	27.68	800.00	2.40
6.905	824.39	2621014	5.500	22.45	800.00	2.35
7.122	825.10	2601599	5.450	18.98	800.00	2.35
7.340	825.46	2577200	5.450	16.41	800.00	2.30

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
7.557	825.65	2546878	5.400	14.39	800.00	2.30
7.775	825.73	2510146	5.400	12.73	800.00	2.30
7.992	825.73	2467339	5.400	11.34	800.00	2.30
8.210	825.66	2430222	5.350	10.13	800.00	2.30
8.777	825.42	2578600	5.350	8.76	800.00	2.30
9.345	825.19	2708785	5.100	7.78	800.00	2.30
9.912	824.98	2808978	5.300	6.97	800.00	2.30
10.480	824.80	2876738	5.300	6.30	800.00	2.30
10.681	824.70	2896828	5.300	6.39	800.00	2.30
10.882	824.60	2917584	5.250	6.48	800.00	2.35
11.084	824.49	2936965	5.250	6.59	800.00	2.35
11.285	824.38	2954906	5.250	6.71	800.00	2.35
11.486	824.27	2971359	5.250	6.84	800.00	2.35
11.687	824.15	2986276	5.250	6.98	800.00	2.35
11.888	824.03	2999632	5.250	7.13	800.00	2.35
12.089	823.90	3011456	5.250	7.30	800.00	2.35
12.291	823.76	3022268	5.250	7.48	800.00	2.35
12.492	823.62	3036634	5.200	7.67	800.00	2.35
12.693	823.47	3049645	5.200	7.88	800.00	2.35
12.894	823.30	3061200	5.200	8.13	800.00	2.35

13.095	823.13	3071148	5.200	8.40	800.00	2.35
13.296	822.94	3079380	5.200	8.70	800.00	2.35
13.498	822.73	3085829	5.150	9.04	800.00	2.35
13.699	822.51	3090524	5.150	9.41	800.00	2.35
13.900	822.26	3102021	5.150	9.83	800.00	2.40
14.100	822.58	3240379	5.100	10.41	800.00	2.35
14.200	822.53	3243921	5.100	10.45	800.00	2.35
14.800	801.82	3243921	7.100	18.57	669.00	1.70
14.900	803.61	3192057	7.100	17.79	668.88	1.75
15.000	803.40	3140281	7.100	17.04	668.75	1.75
15.100	803.18	3088737	7.100	16.32	668.63	1.75
15.200	802.97	3037561	7.150	15.63	668.50	1.75
15.300	802.75	2986885	7.150	15.00	668.38	1.75
15.400	802.53	2936826	7.150	14.58	668.25	1.75
15.500	802.31	2887496	7.150	14.20	668.13	1.80
15.600	802.09	2843236	7.150	13.84	668.00	1.80
15.700	801.87	2802375	7.150	13.57	667.88	1.80
15.800	801.64	2761777	7.150	13.33	667.75	1.80
15.900	801.41	2721581	7.150	13.12	667.63	1.80
16.000	801.18	2681913	7.150	12.97	667.50	1.85
16.100	800.96	2642882	7.200	12.83	667.38	1.85
16.200	800.73	2604581	7.200	12.71	667.25	1.85
16.300	800.50	2567090	7.200	12.58	667.13	1.85
16.400	800.27	2530477	7.200	12.48	667.00	1.85
16.500	800.04	2497344	7.200	12.36	666.86	1.85
16.600	799.81	2465801	7.200	12.25	666.71	1.85
16.700	799.57	2433976	7.200	12.14	666.57	1.85
16.800	799.32	2401896	7.200	12.03	666.43	1.90

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	799.07	2369587	7.200	11.92	666.29	1.90
17.000	798.81	2337077	7.200	11.81	666.14	1.90
17.100	798.55	2304390	7.200	11.71	666.00	1.90
17.200	798.28	2272324	7.250	11.60	665.86	1.90
17.300	798.01	2244487	7.250	11.50	665.71	1.90
17.400	797.72	2215985	7.250	11.40	665.57	1.90
17.500	797.44	2186541	7.250	11.30	665.43	1.95
17.600	797.14	2157784	7.250	11.21	665.29	1.95
17.700	796.84	2130201	7.250	11.11	665.14	1.95
17.800	796.53	2110299	7.250	11.02	665.00	1.95
18.113	795.30	2057859	7.250	11.38	664.55	2.00
18.425	793.82	2024919	7.300	11.86	664.10	2.05
18.738	791.99	2002365	7.300	12.52	663.65	2.05
19.050	789.68	1983727	7.300	13.49	663.20	2.10
19.363	786.68	1967395	7.350	14.87	662.75	2.10
19.675	782.60	1959926	7.350	16.90	662.30	2.15
19.988	776.76	1956964	7.450	20.04	661.85	2.15
20.300	767.71	1954935	7.550	25.32	661.40	2.20
21.900	741.00	1914442	9.200	23.37	660.60	2.40
25.100	721.55	1622604	11.150	18.01	660.00	3.70
25.633	718.46	1549833	11.400	16.35	660.00	4.00
26.167	715.25	1492522	11.750	14.27	660.00	4.20
26.700	712.35	1457886	12.150	11.50	660.00	4.40
29.200	701.23	1374605	14.900	16.14	660.00	6.00
29.775	699.32	1357046	15.100	11.80	660.00	6.00
30.350	697.62	1336566	15.300	10.72	660.00	6.10
30.925	696.10	1313326	15.500	9.52	660.00	6.15
31.500	694.67	1288769	15.650	8.30	660.00	6.25
34.150	688.07	1208958	16.450	7.83	660.00	6.85
36.800	681.42	1158576	17.650	8.20	660.00	7.80
40.100	671.36	1129020	28.950	24.60	660.00	15.00
41.100	671.80	1116266	27.550	6.57	660.00	10.90
42.800	671.79	1021866	27.550	7.22	660.00	10.85
43.814	671.76	934949	27.650	1.96	660.00	10.85
44.829	671.74	853282	27.650	1.74	660.00	10.90
45.843	671.72	776937	27.700	1.55	660.00	10.90
46.857	671.70	706038	27.750	1.38	660.00	10.90
47.871	671.69	645229	27.750	1.24	660.00	10.90
48.886	671.67	592926	27.750	1.11	660.00	10.95
49.900	671.66	549855	27.750	1.00	660.00	10.95
50.900	671.65	517713	27.800	.61	660.00	10.90
51.900	671.65	499621	27.750	.46	660.00	10.90
52.900	671.64	492032	27.800	.38	660.00	10.90
53.900	671.64	490320	27.800	.33	660.00	10.90
54.400	513.97	490320	26.600	22.36	496.80	.10
55.050	500.72	490301	28.650	20.97	489.40	.30
55.700	499.70	490164	28.700	11.13	482.00	.35
56.200	497.57	490004	28.900	11.12	481.82	.60

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE *****	MAX ELEV FEET *****	MAX FLOW CFS *****	TIME MAX ELEV-HRS *****	MAX VEL FPS *****	FLOOD ELEV FEET *****	TIME FLOOD ELEV-HRS *****
56.700	495.45	489829	29.050	11.10	481.64	.90
57.200	493.34	489634	29.250	11.08	481.46	1.25
57.700	491.23	489423	29.450	11.05	481.29	1.85
58.200	489.12	489196	29.700	11.03	481.11	13.05
58.700	487.02	488956	29.900	11.00	480.93	14.00
59.200	484.92	488706	30.100	10.97	480.75	17.40
59.700	482.82	488444	30.300	10.94	480.57	20.70
60.200	480.73	488179	30.500	10.90	480.39	26.70
60.700	478.64	487911	30.700	10.86	480.21	.00
61.200	476.55	487643	30.900	10.83	480.04	.00
61.700	474.46	487380	31.100	10.79	479.86	.00
62.200	472.37	487121	31.250	10.78	479.68	.00
62.700	470.28	486875	31.450	10.70	479.50	.00
63.200	468.19	486640	31.600	10.66	479.32	.00
63.700	466.10	486420	31.750	10.62	479.14	.00
64.200	464.01	486218	31.900	10.57	478.96	.00
64.700	461.90	486038	32.050	10.54	478.79	.00
65.200	459.79	485877	32.150	10.50	478.61	.00
65.700	457.67	485739	32.250	10.47	478.43	.00
66.200	455.53	485624	32.350	10.44	478.25	.00
66.700	453.38	485529	32.450	10.43	478.07	.00
67.200	451.19	485453	32.500	10.42	477.89	.00
67.700	449.06	485396	32.600	10.44	477.71	.00
68.200	446.67	485356	32.650	10.48	477.54	.00
68.700	444.31	485328	32.650	10.57	477.36	.00
69.200	441.82	485310	32.700	10.71	477.18	.00
69.700	439.15	485298	32.750	10.96	477.00	.00
70.200	435.86	485289	32.800	11.87	477.00	.00
70.700	432.27	485283	32.800	12.73	477.00	.00
71.200	428.57	485278	32.850	13.40	477.00	.00
71.700	424.73	485275	32.900	13.85	477.00	.00
72.200	420.70	485272	32.900	14.21	477.00	.00
72.700	417.28	485266	33.000	14.30	477.00	.00
73.200	413.89	485259	33.050	14.36	477.00	.00
73.700	410.89	485251	33.200	14.36	477.00	.00
74.200	408.05	485233	33.350	13.83	477.00	.00
74.700	405.14	485202	33.500	11.96	477.00	.00
75.200	402.80	485173	33.500	11.04	477.00	.00
75.700	400.74	485161	33.500	7.79	477.00	.00

K	TTP(K)	YC(K,11,I=1,NTT)					
1	.000	1089.97	797.01	796.63	796.68	796.66	667.17
2	.050	1089.95	797.01	796.61	796.60	796.63	667.17
3	.100	1089.94	797.01	796.66	796.66	796.64	667.17
4	.150	1089.92	797.01	796.67	796.69	796.71	667.17
5	.200	1089.91	797.01	796.70	796.69	796.68	667.17
6	.250	1089.89	797.01	796.69	796.70	796.72	667.17
7	.300	1089.87	797.01	796.69	796.69	796.68	667.17
8	.350	1089.86	797.00	796.65	796.66	796.67	667.17
9	.400	1089.84	796.97	796.60	796.60	796.60	667.17
10	.450	1089.83	796.91	796.52	796.53	796.53	667.17
11	.500	1089.81	796.81	796.46	796.46	796.46	667.17
12	.550	1089.79	796.69	796.42	796.42	796.42	667.17
13	.600	1089.77	796.54	796.41	796.41	796.41	667.17
14	.650	1089.75	796.42	796.44	796.44	796.44	667.17
15	.700	1089.73	796.36	796.48	796.48	796.48	667.17
16	.750	1089.70	796.38	796.50	796.50	796.50	667.17
17	.800	1089.66	796.47	796.51	796.51	796.51	667.17
18	.850	1089.62	796.59	796.51	796.51	796.51	667.17
19	.900	1089.57	796.72	796.51	796.51	796.51	667.17
20	.950	1089.51	796.85	796.50	796.50	796.50	667.17
21	1.000	1089.45	796.99	796.49	796.49	796.49	667.17
22	1.050	1089.37	797.14	796.47	796.47	796.47	667.17
23	1.100	1089.28	797.32	796.45	796.45	796.45	667.17
24	1.150	1089.18	797.54	796.43	796.43	796.43	667.17
25	1.200	1089.06	797.81	796.41	796.41	796.41	667.17
26	1.250	1088.93	798.13	796.40	796.41	796.41	667.17
27	1.300	1088.78	798.50	796.41	796.41	796.41	667.17
28	1.350	1088.61	798.90	796.44	796.44	796.44	667.17
29	1.400	1088.42	799.34	796.49	796.49	796.49	667.17
30	1.450	1088.21	799.80	796.57	796.57	796.57	667.17
31	1.500	1087.98	800.28	796.67	796.66	796.66	667.17
32	1.550	1087.72	800.78	796.78	796.78	796.78	667.17
33	1.600	1087.44	801.30	796.90	796.90	796.90	667.17
34	1.650	1087.13	801.84	797.02	797.01	797.01	667.51
35	1.700	1086.79	802.42	797.11	797.09	797.08	669.49
36	1.750	1086.42	803.04	797.19	797.18	797.17	671.95
37	1.800	1086.02	803.70	797.30	797.29	797.28	674.39
38	1.850	1085.58	804.40	797.44	797.43	797.42	676.80
39	1.900	1085.11	805.15	797.62	797.62	797.62	678.55
40	1.950	1084.61	805.94	797.87	797.88	797.88	679.31

41	2.000	1084.06	806.77	798.14	798.15	798.15	679.85
42	2.050	1083.48	807.65	798.40	798.41	798.41	680.26
43	2.100	1082.85	808.59	798.67	798.68	798.68	680.63
44	2.150	1082.18	809.57	798.93	798.95	798.95	680.98
45	2.200	1081.47	810.59	799.19	799.21	799.21	681.35
46	2.250	1080.71	811.66	799.44	799.47	799.47	681.73
47	2.300	1079.90	812.78	799.71	799.74	799.74	682.12
48	2.350	1079.04	813.95	799.98	800.02	800.02	682.50
49	2.400	1078.13	815.15	800.28	800.32	800.32	682.87
50	2.450	1077.17	816.41	800.59	800.63	800.63	683.24
51	2.500	1076.16	817.70	800.92	800.97	800.97	683.60
52	2.550	1075.09	819.03	801.27	801.33	801.33	683.95
53	2.600	1073.96	820.39	801.63	801.70	801.70	684.31
54	2.650	1072.78	821.80	802.00	802.08	802.08	684.66
55	2.700	1071.54	823.25	802.38	802.47	802.47	685.01
56	2.750	1070.24	824.75	802.77	802.87	802.87	685.35
57	2.800	1068.88	826.30	803.17	803.28	803.28	685.69
58	2.850	1067.45	827.89	803.58	803.70	803.70	686.03
59	2.900	1065.96	829.53	804.00	804.13	804.13	686.36
60	2.950	1064.41	831.20	804.44	804.57	804.57	686.70
61	3.000	1062.79	832.91	804.88	805.03	805.03	687.03
62	3.050	1061.11	834.64	805.33	805.49	805.49	687.36
63	3.100	1059.35	836.40	805.79	805.96	805.96	687.69
64	3.150	1057.52	838.19	806.26	806.44	806.44	688.01
65	3.200	1055.62	839.99	806.73	806.92	806.92	688.34
66	3.250	1053.65	841.81	807.19	807.38	807.38	688.66
67	3.300	1051.60	843.64	807.67	807.89	807.89	688.98
68	3.350	1049.47	845.48	808.17	808.39	808.39	689.31
69	3.400	1047.27	847.32	808.67	808.90	808.90	689.63
70	3.450	1044.98	849.17	809.18	809.43	809.43	689.95
71	3.500	1042.61	851.02	809.70	809.96	809.96	690.27
72	3.550	1040.16	852.86	810.23	810.50	810.50	690.59
73	3.600	1037.63	854.71	810.76	811.04	811.04	690.91
74	3.650	1035.00	856.54	811.31	811.60	811.60	691.24
75	3.700	1032.29	858.38	811.85	812.16	812.15	691.56
76	3.750	1029.49	860.20	812.41	812.72	812.72	691.88
77	3.800	1026.60	862.02	812.97	813.29	813.28	692.21
78	3.850	1023.62	863.82	813.53	813.86	813.85	692.53
79	3.900	1020.54	865.61	814.09	814.43	814.43	692.85
80	3.950	1017.36	867.39	814.66	815.00	815.00	693.18
81	4.000	1014.06	869.15	815.22	815.56	815.56	693.73
82	4.050	1010.77	870.65	815.76	816.11	816.10	694.50
83	4.100	1007.51	871.70	816.29	816.65	816.64	695.44
84	4.150	1004.29	872.58	816.81	817.18	817.17	696.54
85	4.200	1001.13	873.40	817.32	817.70	817.69	697.81
86	4.250	998.00	874.08	817.83	818.22	818.20	699.27
87	4.300	994.92	874.66	818.32	818.72	818.70	700.90
88	4.350	991.88	875.11	818.79	819.20	819.18	702.73
89	4.400	988.89	875.44	819.24	819.65	819.63	704.75
90	4.450	985.94	875.65	819.60	820.02	820.01	706.88
91	4.500	983.02	875.77	819.97	820.40	820.38	709.19
92	4.550	980.15	875.82	820.29	820.72	820.70	711.60
93	4.600	977.32	875.80	820.60	821.03	821.00	714.15
94	4.650	974.53	875.73	820.88	821.31	821.28	716.84
95	4.700	971.78	875.60	821.15	821.57	821.54	719.65
96	4.750	969.06	875.43	821.38	821.80	821.77	722.71
97	4.800	966.38	875.20	821.59	822.01	821.97	725.79
98	4.850	963.74	874.93	821.78	822.18	822.14	728.86
99	4.900	961.14	874.61	821.94	822.33	822.29	731.86
100	4.950	958.57	874.25	822.07	822.45	822.40	734.76
101	5.000	956.03	873.84	822.17	822.53	822.48	737.56
102	5.050	953.53	873.38	822.23	822.58	822.52	740.30
103	5.100	951.07	872.89	822.26	822.58	822.53	742.98
104	5.150	948.64	872.35	822.26	822.57	822.50	745.62
105	5.200	946.24	871.76	822.23	822.51	822.44	748.22
106	5.250	943.88	871.14	822.17	822.42	822.34	750.80
107	5.300	941.54	870.47	822.08	822.30	822.21	753.37
108	5.350	939.24	869.77	821.95	822.13	822.04	755.92
109	5.400	936.97	869.04	821.79	821.93	821.82	758.47
110	5.450	934.73	868.28	821.59	821.68	821.57	761.01
111	5.500	932.52	867.49	821.35	821.39	821.26	763.60
112	5.550	930.34	866.67	821.06	821.05	820.91	766.23
113	5.600	928.20	865.84	820.73	820.65	820.51	768.94
114	5.650	926.08	864.98	820.34	820.20	820.05	771.72
115	5.700	923.98	864.10	819.89	819.69	819.51	774.58
116	5.750	921.92	863.20	819.38	819.09	818.90	777.50
117	5.800	919.89	862.29	818.79	818.43	818.23	780.45
118	5.850	917.88	861.36	818.14	817.73	817.52	783.34
119	5.900	915.90	860.41	817.40	817.13	816.92	786.12
120	5.950	913.94	859.45	817.38	816.75	816.54	788.79
121	6.000	912.02	858.48	817.19	816.46	816.25	791.26
122	6.050	910.12	857.49	817.12	816.53	816.41	793.15
123	6.100	908.24	856.49	817.15	816.63	816.48	794.75
124	6.150	906.39	855.47	817.13	816.66	816.54	796.14
125	6.200	904.57	854.45	817.12	816.70	816.57	797.35
126	6.250	902.77	853.41	817.08	816.68	816.57	798.41
127	6.300	900.99	852.36	817.03	816.66	816.55	799.32
128	6.350	899.24	851.30	816.97	816.60	816.50	800.12
129	6.400	897.51	850.23	816.90	816.52	816.42	800.80
130	6.450	895.81	849.15	816.81	816.42	816.33	801.38
131	6.500	894.13	848.07	816.71	816.32	816.23	801.87
132	6.550	892.48	846.98	816.62	816.21	816.13	802.27
133	6.600	890.85	845.88	816.52	816.10	816.02	802.61
134	6.650	889.25	844.77	816.42	815.99	815.91	802.90
135	6.700	887.67	843.65	816.32	815.89	815.81	803.13

136	6.750	886.11	842.51	816.22	815.78	815.71	803.31
137	6.800	884.57	841.37	816.12	815.68	815.60	803.46
138	6.850	883.06	840.21	816.07	815.57	815.50	803.58
139	6.900	881.57	839.04	815.91	815.46	815.39	803.67
140	6.950	880.10	837.86	815.80	815.34	815.27	803.74
141	7.000	878.65	836.67	815.69	815.22	815.15	803.78
142	7.050	877.22	835.47	815.57	815.10	815.03	803.81
143	7.100	875.82	834.27	815.44	814.96	814.90	803.82
144	7.150	874.43	833.07	815.32	814.83	814.76	803.81
145	7.200	873.07	831.89	815.18	814.68	814.61	803.78
146	7.250	871.72	830.73	815.04	814.53	814.46	803.73
147	7.300	870.40	829.60	814.89	814.37	814.30	803.67
148	7.350	869.10	828.49	814.73	814.20	814.13	803.60
149	7.400	867.81	827.41	814.57	814.02	813.96	803.51
150	7.450	866.54	826.36	814.40	813.84	813.77	803.41
151	7.500	865.30	825.34	814.22	813.64	813.58	803.29
152	7.550	864.07	824.36	814.03	813.44	813.38	803.17
153	7.600	862.86	823.40	813.84	813.23	813.17	803.03
154	7.650	861.67	822.48	813.64	813.02	812.95	802.89
155	7.700	860.50	821.60	813.42	812.78	812.72	802.73
156	7.750	859.34	820.75	813.20	812.55	812.49	802.57
157	7.800	858.21	819.93	812.97	812.31	812.25	802.39
158	7.850	857.09	819.15	812.74	812.07	812.00	802.21
159	7.900	855.98	818.41	812.51	811.82	811.76	802.03
160	7.950	854.90	817.70	812.27	811.56	811.50	801.83
161	8.000	853.83	817.02	812.02	811.30	811.24	801.63
162	8.050	852.78	816.38	811.77	811.04	810.98	801.42
163	8.100	851.74	815.77	811.51	810.77	810.71	801.21
164	8.150	850.73	815.18	811.26	810.50	810.44	800.99
165	8.200	849.73	814.63	811.00	810.23	810.17	800.77
166	8.250	848.74	814.10	810.73	809.95	809.89	800.54
167	8.300	847.78	813.59	810.46	809.68	809.62	800.31
168	8.350	846.83	813.11	810.19	809.39	809.33	800.07
169	8.400	845.89	812.66	809.91	809.11	809.05	799.83
170	8.450	844.98	812.22	809.64	808.83	808.77	799.59
171	8.500	844.08	811.80	809.36	808.54	808.48	799.35
172	8.550	843.19	811.40	809.08	808.26	808.20	799.10
173	8.600	842.32	811.01	808.81	807.97	807.91	798.85
174	8.650	841.47	810.64	808.53	807.68	807.63	798.60
175	8.700	840.63	810.28	808.25	807.40	807.34	798.35
176	8.750	839.81	809.93	807.97	807.11	807.05	798.09
177	8.800	839.00	809.59	807.69	806.83	806.77	797.84
178	8.850	838.20	809.25	807.40	806.54	806.48	797.58
179	8.900	837.43	808.93	807.10	806.23	806.17	797.32
180	8.950	836.66	808.61	806.82	805.95	805.89	797.06
181	9.000	835.91	808.29	806.52	805.65	805.59	796.80
182	9.050	835.18	807.98	806.24	805.36	805.30	796.54
183	9.100	834.46	807.67	805.95	805.07	805.01	796.27
184	9.150	833.75	807.36	805.66	804.78	804.72	796.01
185	9.200	833.06	807.05	805.37	804.50	804.44	795.75
186	9.250	832.38	806.75	805.09	804.21	804.15	795.49
187	9.300	831.72	806.44	804.80	803.92	803.86	795.22
188	9.350	831.07	806.14	804.52	803.63	803.57	794.96
189	9.400	830.43	805.84	804.23	803.34	803.29	794.70
190	9.450	829.81	805.53	803.95	803.06	803.00	794.43
191	9.500	829.20	805.23	803.66	802.77	802.71	794.17
192	9.550	828.60	804.92	803.37	802.48	802.42	793.90
193	9.600	828.02	804.61	803.09	802.19	802.13	793.64
194	9.650	827.45	804.29	802.80	801.90	801.84	793.37
195	9.700	826.89	803.98	802.52	801.61	801.56	793.11
196	9.750	826.35	803.66	802.23	801.33	801.27	792.84
197	9.800	825.81	803.34	801.95	801.04	800.98	792.58
198	9.850	825.29	803.02	801.66	800.75	800.70	792.31
199	9.900	824.79	802.70	801.38	800.47	800.41	792.05
200	9.950	824.29	802.39	801.09	800.18	800.12	791.79
201	10.000	823.81	802.07	800.81	799.89	799.84	791.52
202	10.050	823.34	801.75	800.52	799.61	799.55	791.26
203	10.100	822.88	801.43	800.24	799.32	799.26	790.99
204	10.150	822.43	801.12	799.95	799.03	798.97	790.73
205	10.200	821.99	800.80	799.67	798.74	798.69	790.46
206	10.250	821.57	800.49	799.38	798.45	798.40	790.20
207	10.300	821.15	800.18	799.10	798.17	798.11	789.93
208	10.350	820.73	799.86	798.81	797.88	797.82	789.67
209	10.400	820.36	799.56	798.52	797.59	797.53	789.40
210	10.450	819.98	799.25	798.27	797.39	797.35	789.04
211	10.500	819.61	798.95	798.06	797.21	797.17	788.62
212	10.550	819.26	798.64	797.85	797.05	797.02	788.16
213	10.600	818.91	798.35	797.60	796.78	796.73	787.78
214	10.650	818.58	798.05	797.31	796.49	796.44	787.43
215	10.700	818.27	797.75	797.00	796.18	796.12	787.09
216	10.750	817.96	797.46	796.72	795.89	795.84	786.74
217	10.800	817.66	797.17	796.43	795.60	795.55	786.40
218	10.850	817.38	796.88	796.15	795.31	795.26	786.05
219	10.900	817.10	796.60	795.87	795.03	794.98	785.71
220	10.950	816.84	796.32	795.59	794.75	794.70	785.38
221	11.000	816.58	796.04	795.33	794.49	794.43	785.05
222	11.050	816.34	795.77	795.06	794.22	794.17	784.72
223	11.100	816.10	795.52	794.80	793.96	793.91	784.41
224	11.150	815.88	795.28	794.53	793.69	793.64	784.09
225	11.200	815.66	795.05	794.26	793.41	793.36	783.78
226	11.250	815.45	794.83	793.98	793.13	793.08	783.48
227	11.300	815.25	794.61	793.70	792.85	792.80	783.18
228	11.350	815.06	794.37	793.42	792.56	792.51	782.88
229	11.400	814.87	794.11	793.14	792.28	792.23	782.58
230	11.450	814.69	793.84	792.86	792.00	791.95	782.29

231	11.500	814.52	793.57	792.59	791.72	791.67	782.00
232	11.550	814.36	793.30	792.30	791.44	791.38	781.71
233	11.600	814.21	793.03	791.99	791.12	791.07	781.43
234	11.650	814.06	792.76	791.71	790.84	790.79	781.15
235	11.700	813.91	792.50	791.42	790.55	790.50	780.87
236	11.750	813.78	792.23	791.14	790.27	790.22	780.59
237	11.800	813.65	791.96	790.86	789.99	789.94	780.32
238	11.850	813.52	791.69	790.58	789.72	789.66	780.05
239	11.900	813.40	791.41	790.31	789.44	789.39	779.78
240	11.950	813.29	791.13	790.03	789.16	789.11	779.51
241	12.000	813.18	790.85	789.75	788.88	788.83	779.25
242	12.050	813.08	790.56	789.47	788.60	788.55	778.96
243	12.100	812.99	790.28	789.18	788.31	788.26	778.72
244	12.150	812.89	789.99	788.90	788.02	787.97	778.46
245	12.200	812.81	789.70	788.61	787.73	787.68	778.20
246	12.250	812.73	789.41	788.33	787.44	787.39	777.95
247	12.300	812.65	789.12	788.04	787.16	787.10	777.69
248	12.350	812.57	788.82	787.76	786.87	786.82	777.44
249	12.400	812.51	788.53	787.48	786.59	786.53	777.16
250	12.450	812.44	788.23	787.20	786.30	786.25	776.93
251	12.500	812.38	787.93	786.91	786.02	785.96	776.68
252	12.550	812.32	787.64	786.63	785.73	785.68	776.43
253	12.600	812.27	787.35	786.35	785.45	785.39	776.19
254	12.650	812.22	787.05	786.07	785.17	785.11	775.94
255	12.700	812.18	786.76	785.79	784.88	784.83	775.69
256	12.750	812.14	786.48	785.51	784.60	784.54	775.45
257	12.800	812.10	786.19	785.23	784.31	784.26	775.20
258	12.850	812.06	785.91	784.95	784.03	783.97	774.96
259	12.900	812.03	785.62	784.67	783.75	783.69	774.72
260	12.950	812.00	785.34	784.39	783.46	783.41	774.48
261	13.000	811.97	785.06	784.11	783.18	783.12	774.24
262	13.050	811.95	784.78	783.83	782.90	782.84	774.00
263	13.100	811.93	784.50	783.55	782.61	782.56	773.76
264	13.150	811.91	784.23	783.27	782.33	782.27	773.53
265	13.200	811.90	783.95	782.99	782.05	781.99	773.29
266	13.250	811.89	783.69	782.72	781.77	781.71	773.05
267	13.300	811.88	783.41	782.44	781.49	781.43	772.82
268	13.350	811.87	783.14	782.17	781.21	781.15	772.58
269	13.400	811.87	782.87	781.89	780.93	780.87	772.35
270	13.450	811.86	782.60	781.62	780.65	780.59	772.12
271	13.500	811.86	782.33	781.34	780.38	780.32	771.89
272	13.550	811.87	782.06	781.07	780.10	780.04	771.65
273	13.600	811.87	781.80	780.80	779.82	779.76	771.42
274	13.650	811.88	781.53	780.53	779.55	779.49	771.19
275	13.700	811.88	781.26	780.26	779.27	779.21	770.96
276	13.750	811.89	781.00	779.99	779.00	778.94	770.74
277	13.800	811.91	780.73	779.72	778.73	778.67	770.51
278	13.850	811.92	780.47	779.45	778.45	778.39	770.28
279	13.900	811.93	780.21	779.18	778.18	778.12	770.06
280	13.950	811.95	779.94	778.91	777.91	777.85	769.83
281	14.000	811.97	779.68	778.64	777.64	777.58	769.61
282	14.050	811.99	779.42	778.38	777.37	777.31	769.38
283	14.100	812.01	779.15	778.11	777.10	777.04	769.16
284	14.150	812.02	778.89	777.85	776.83	776.77	768.94
285	14.200	812.04	778.63	777.58	776.57	776.50	768.72
286	14.250	812.06	778.37	777.32	776.30	776.24	768.50
287	14.275	812.07	778.24	777.14	776.13	776.07	768.38
288	14.300	812.07	778.11	777.05	776.03	775.97	768.26
289	14.350	812.09	777.85	776.73	775.71	775.65	768.14
290	14.400	812.11	777.59	776.43	775.41	775.35	768.02
291	14.450	812.12	777.33	776.16	775.14	775.08	767.90
292	14.500	812.13	777.07	775.90	774.87	774.81	767.78
293	14.550	812.15	776.81	775.66	774.61	774.55	767.66
294	14.600	812.16	776.55	775.42	774.36	774.30	767.54
295	14.650	812.17	776.28	775.18	774.11	774.05	767.42
296	14.700	812.19	775.99	774.82	773.74	773.68	767.30
297	14.750	812.20	775.64	774.52	773.43	773.37	767.18
298	14.800	812.21	775.21	774.20	773.10	773.04	767.06
299	14.850	812.22	774.67	773.70	772.59	772.53	766.94
300	14.900	812.23	774.00	773.05	771.93	771.87	766.82
301	14.950	812.24	773.24	772.21	771.08	771.02	766.70
302	15.000	812.25	772.41	771.39	770.25	770.19	766.58
303	15.050	812.26	771.59	770.58	769.43	769.37	766.46
304	15.100	812.27	770.83	769.83	768.67	768.61	766.34
305	15.150	812.28	770.20	769.21	768.04	767.98	766.22
306	15.200	812.29	769.70	768.71	767.54	767.48	766.10
307	15.250	812.30	769.30	768.33	767.15	767.09	765.98
308	15.300	812.31	768.93	768.10	766.92	766.86	765.86
309	15.350	812.32	768.55	767.86	766.67	766.61	765.74
310	15.400	812.33	768.18	767.60	766.40	766.34	765.62
311	15.450	812.33	767.83	767.33	766.13	766.07	765.50
312	15.500	812.34	767.57	767.04	765.84	765.78	765.38
313	15.550	812.35	767.22	766.75	765.54	765.48	765.08
314	15.600	812.36	766.94	766.45	765.24	765.18	764.78
315	15.650	812.36	766.68	766.15	764.94	764.88	764.48
316	15.700	812.37	766.45	765.85	764.64	764.58	764.18
317	15.750	812.38	766.24	765.56	764.35	764.29	763.89
318	15.800	812.38	766.05	765.27	764.06	764.00	763.60
319	15.850	812.39	765.87	764.98	763.77	763.71	763.31
320	15.900	812.39	765.70	764.71	763.50	763.44	763.04
321	15.950	812.40	765.53	764.44	763.23	763.17	762.77
322	16.000	812.40	765.36	764.17	763.06	763.00	762.60
323	16.050	812.41	765.19	763.90	762.85	762.79	762.39
324	16.100	812.41	765.00	763.63	762.64	762.58	762.18
325	16.150	812.42	764.81	763.37	762.42	762.36	761.96

326	16.200	812.42	764.61	763.10	762.41	762.37	751.53
327	16.250	812.43	764.41	762.84	762.15	762.11	751.23
328	16.300	812.43	764.20	762.58	761.89	761.85	750.93
329	16.350	812.44	763.99	762.32	761.63	761.59	750.64
330	16.400	812.44	763.77	762.07	761.38	761.34	750.35
331	16.450	812.45	763.55	761.82	761.13	761.08	750.06
332	16.500	812.45	763.32	761.57	760.88	760.83	749.78
333	16.550	812.45	763.09	761.32	760.63	760.58	749.50
334	16.600	812.46	762.85	761.07	760.38	760.33	749.23
335	16.650	812.46	762.60	760.83	760.13	760.09	748.95
336	16.700	812.46	762.35	760.58	759.88	759.84	748.68
337	16.750	812.47	762.10	760.33	759.63	759.59	748.42
338	16.800	812.47	761.84	760.08	759.38	759.34	748.15
339	16.850	812.47	761.59	759.83	759.13	759.09	747.89
340	16.900	812.48	761.33	759.59	758.88	758.84	747.63
341	16.950	812.48	761.08	759.34	758.63	758.59	747.38
342	17.000	812.48	760.83	759.09	758.38	758.34	747.12
343	17.050	812.49	760.57	758.84	758.13	758.09	746.87
344	17.100	812.49	760.32	758.60	757.88	757.84	746.62
345	17.150	812.49	760.08	758.35	757.64	757.59	746.38
346	17.200	812.49	759.83	758.11	757.39	757.35	746.13
347	17.250	812.50	759.59	757.86	757.14	757.10	745.89
348	17.300	812.50	759.35	757.62	756.90	756.85	745.65
349	17.350	812.50	759.11	757.37	756.65	756.61	745.41
350	17.400	812.50	758.87	757.13	756.41	756.36	745.18
351	17.450	812.51	758.64	756.89	756.16	756.12	744.95
352	17.500	812.51	758.41	756.65	755.92	755.87	744.72
353	17.550	812.51	758.18	756.40	755.67	755.63	744.49
354	17.600	812.51	757.96	756.16	755.43	755.38	744.26
355	17.650	812.51	757.74	755.92	755.19	755.14	744.04
356	17.700	812.52	757.52	755.68	754.95	754.90	743.81
357	17.750	812.52	757.30	755.45	754.71	754.66	743.59
358	17.800	812.52	757.09	755.21	754.47	754.42	743.37
359	17.850	812.52	756.87	754.97	754.23	754.18	743.15
360	17.900	812.52	756.64	754.73	753.99	753.94	742.94
361	17.950	812.52	756.45	754.50	753.75	753.71	742.72
362	18.000	812.53	756.24	754.26	753.51	753.47	742.51
363	18.050	812.53	756.03	754.03	753.28	753.23	742.30
364	18.100	812.53	755.82	753.80	753.04	753.00	742.09
365	18.150	812.53	755.62	753.57	752.81	752.77	741.88
366	18.200	812.53	755.41	753.33	752.58	752.53	741.67
367	18.250	812.53	755.21	753.10	752.35	752.30	741.46
368	18.300	812.53	755.01	752.87	752.11	752.07	741.26
369	18.350	812.53	754.81	752.64	751.88	751.84	741.05
370	18.400	812.54	754.61	752.42	751.65	751.61	740.85
371	18.450	812.54	754.41	752.19	751.42	751.38	740.65
372	18.500	812.54	754.22	751.96	751.20	751.15	740.45
373	18.550	812.54	754.02	751.73	750.97	750.92	740.25
374	18.600	812.54	753.83	751.51	750.74	750.70	740.05
375	18.650	812.54	753.64	751.28	750.51	750.47	739.85
376	18.700	812.54	753.45	751.06	750.29	750.24	739.65
377	18.750	812.54	753.26	750.83	750.06	750.02	739.46
378	18.800	812.54	753.08	750.61	749.84	749.79	739.26
379	18.850	812.54	752.89	750.39	749.61	749.57	739.07
380	18.900	812.55	752.71	750.17	749.39	749.35	738.88
381	18.950	812.55	752.53	749.95	749.17	749.12	738.69
382	19.000	812.55	752.36	749.72	748.95	748.90	738.49
383	19.050	812.55	752.18	749.50	748.72	748.68	738.30
384	19.100	812.55	752.01	749.28	748.50	748.46	738.12
385	19.150	812.55	751.84	749.07	748.28	748.24	737.93
386	19.200	812.55	751.67	748.85	748.06	748.02	737.74
387	19.250	812.55	751.51	748.63	747.84	747.80	737.55
388	19.300	812.55	751.35	748.41	747.63	747.58	737.37
389	19.350	812.55	751.19	748.20	747.41	747.36	737.18
390	19.400	812.55	751.04	747.98	747.19	747.15	737.00
391	19.450	812.55	750.89	747.77	746.98	746.93	736.82
392	19.500	812.55	750.74	747.55	746.76	746.72	736.63
393	19.550	812.55	750.59	747.34	746.54	746.50	736.45
394	19.600	812.56	750.45	747.12	746.33	746.29	736.27
395	19.650	812.56	750.31	746.91	746.12	746.07	736.09
396	19.700	812.56	750.18	746.70	745.90	745.86	735.91
397	19.750	812.56	750.04	746.49	745.69	745.65	735.73
398	19.800	812.56	749.92	746.28	745.48	745.43	735.55
399	19.850	812.56	749.79	746.07	745.27	745.22	735.37
400	19.900	812.56	749.67	745.86	745.06	745.01	735.19
401	19.950	812.56	749.55	745.65	744.85	744.80	735.02
402	20.000	812.56	749.44	745.44	744.64	744.59	734.84
403	20.050	812.56	749.33	745.23	744.43	744.39	734.66
404	20.100	812.56	749.23	745.02	744.22	744.18	734.49
405	20.150	812.56	749.12	744.82	744.01	743.97	734.31
406	20.200	812.56	749.03	744.61	743.81	743.76	734.14
407	20.250	812.56	748.93	744.40	743.60	743.56	733.96
408	20.300	812.56	748.84	744.20	743.39	743.35	733.79
409	20.350	812.56	748.76	744.00	743.19	743.15	733.62
410	20.400	812.56	748.67	743.79	742.98	742.94	733.45
411	20.450	812.56	748.60	743.59	742.78	742.74	733.27
412	20.500	812.56	748.52	743.39	742.58	742.54	733.10
413	20.550	812.56	748.45	743.18	742.37	742.33	732.93
414	20.600	812.56	748.38	742.98	742.17	742.13	732.76
415	20.650	812.56	748.32	742.78	741.97	741.93	732.59
416	20.700	812.56	748.26	742.58	741.77	741.73	732.42
417	20.750	812.56	748.20	742.38	741.57	741.53	732.25
418	20.800	812.56	748.15	742.18	741.37	741.33	732.08
419	20.850	812.56	748.10	741.98	741.17	741.13	731.91
420	20.900	812.56	748.05	741.78	740.97	740.93	731.75

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421	20.950	812.56	748.00	741.59	740.77	740.73	731.58
422	21.000	812.57	747.96	741.39	740.59	740.54	731.41
423	21.050	812.57	747.92	741.19	740.36	740.34	731.25
424	21.100	812.57	747.88	740.99	740.18	740.14	731.08
425	21.150	812.57	747.85	740.80	739.99	739.95	730.91
426	21.200	812.57	747.82	740.60	739.79	739.75	730.75
427	21.250	812.57	747.79	740.41	739.60	739.56	730.58
428	21.300	812.57	747.76	740.22	739.40	739.36	730.42
429	21.350	812.57	747.73	740.02	739.21	739.17	730.25
430	21.400	812.57	747.71	739.83	739.02	738.97	730.09
431	21.450	812.57	747.69	739.64	738.82	738.78	729.92
432	21.500	812.57	747.67	739.44	738.63	738.59	729.76
433	21.550	812.57	747.65	739.25	738.44	738.40	729.60
434	21.600	812.57	747.63	739.06	738.25	738.21	729.43
435	21.650	812.57	747.61	738.87	738.06	738.01	729.27
436	21.700	812.57	747.60	738.68	737.87	737.82	729.11
437	21.750	812.57	747.58	738.49	737.67	737.63	728.94
438	21.800	812.57	747.57	738.30	737.48	737.44	728.78
439	21.850	812.57	747.56	738.11	737.29	737.25	728.62
440	21.900	812.57	747.54	737.92	737.11	737.06	728.45
441	21.950	812.57	747.53	737.73	736.92	736.87	728.29
442	22.000	812.57	747.52	737.54	736.73	736.69	728.13
443	22.050	812.57	747.51	737.35	736.54	736.50	727.97
444	22.100	812.57	747.51	737.17	736.35	736.31	727.81
445	22.150	812.57	747.50	736.98	736.17	736.12	727.64
446	22.200	812.57	747.49	736.79	735.98	735.94	727.48
447	22.250	812.57	747.48	736.61	735.79	735.75	727.32
448	22.300	812.57	747.48	736.42	735.61	735.57	727.16
449	22.350	812.57	747.47	736.24	735.42	735.38	727.00
450	22.400	812.57	747.47	736.05	735.24	735.20	726.84
451	22.450	812.57	747.46	735.87	735.05	735.01	726.67
452	22.500	812.57	747.46	735.68	734.87	734.83	726.51
453	22.550	812.57	747.45	735.50	734.69	734.64	726.35
454	22.600	812.57	747.45	735.31	734.50	734.46	726.19
455	22.650	812.57	747.45	735.13	734.32	734.28	726.02
456	22.700	812.57	747.44	734.95	734.14	734.09	725.86
457	22.750	812.57	747.44	734.76	733.95	733.91	725.70
458	22.800	812.57	747.44	734.58	733.77	733.73	725.54
459	22.850	812.57	747.43	734.40	733.59	733.54	725.37
460	22.900	812.57	747.43	734.21	733.40	733.36	725.21
461	22.950	812.57	747.43	734.03	733.22	733.18	725.04
462	23.000	812.57	747.43	733.84	733.04	732.99	724.88
463	23.050	812.57	747.42	733.66	732.85	732.81	724.72
464	23.100	812.57	747.42	733.48	732.67	732.63	724.55
465	23.150	812.57	747.42	733.29	732.49	732.44	724.38
466	23.200	812.57	747.42	733.11	732.30	732.26	724.22
467	23.250	812.57	747.42	732.92	732.12	732.07	724.05
468	23.300	812.57	747.41	732.74	731.94	731.89	723.88
469	23.350	812.57	747.41	732.55	731.75	731.71	723.71
470	23.400	812.57	747.41	732.37	731.57	731.52	723.55
471	23.450	812.57	747.41	732.18	731.38	731.34	723.38
472	23.500	812.57	747.41	731.99	731.19	731.15	723.20
473	23.550	812.57	747.41	731.80	731.01	730.96	723.03
474	23.600	812.57	747.41	731.61	730.82	730.77	722.86
475	23.650	812.57	747.41	731.42	730.63	730.59	722.69
476	23.700	812.57	747.41	731.23	730.44	730.40	722.51
477	23.750	812.57	747.40	731.04	730.25	730.20	722.33
478	23.800	812.57	747.40	730.85	730.06	730.01	722.15
479	23.850	812.57	747.40	730.65	729.87	729.82	721.97
480	23.900	812.57	747.40	730.45	729.67	729.62	721.79
481	23.950	812.57	747.40	730.25	729.48	729.43	721.61
482	24.000	812.57	747.40	730.05	729.28	729.23	721.43
483	24.050	812.57	747.40	729.85	729.08	729.03	721.24
484	24.100	812.57	747.40	729.65	728.88	728.83	721.05
485	24.150	812.57	747.40	729.44	728.68	728.63	720.86
486	24.200	812.57	747.40	729.23	728.47	728.42	720.67
487	24.250	812.57	747.40	729.02	728.27	728.22	720.48
488	24.300	812.57	747.40	728.81	728.06	728.01	720.28
489	24.350	812.57	747.40	728.60	727.85	727.80	720.09
490	24.400	812.57	747.40	728.39	727.64	727.59	719.90
491	24.450	812.57	747.40	728.17	727.43	727.38	719.71
492	24.500	812.57	747.40	727.96	727.22	727.17	719.52
493	24.550	812.57	747.40	727.74	727.00	726.95	719.33
494	24.600	812.57	747.40	727.52	726.79	726.74	719.14
495	24.650	812.57	747.40	727.30	726.57	726.52	718.94
496	24.700	812.57	747.40	727.08	726.35	726.30	718.75
497	24.750	812.57	747.40	726.85	726.13	726.08	718.55
498	24.800	812.57	747.40	726.63	725.91	725.86	718.35
499	24.850	812.57	747.39	726.40	725.69	725.64	718.15
500	24.900	812.57	747.39	726.17	725.46	725.41	717.95
501	24.950	812.57	747.39	725.94	725.24	725.19	717.75
502	25.000	812.57	747.39	725.71	725.01	724.96	717.54
503	25.050	812.57	747.39	725.48	724.79	724.73	717.34
504	25.100	812.57	747.39	725.25	724.56	724.51	717.13
505	25.150	812.57	747.39	725.02	724.33	724.28	716.92
506	25.200	812.57	747.39	724.79	724.10	724.05	716.71
507	25.250	812.57	747.39	724.55	723.87	723.82	716.50
508	25.300	812.57	747.39	724.32	723.64	723.59	716.29
509	25.350	812.57	747.39	724.09	723.41	723.35	716.07
510	25.400	812.57	747.39	723.85	723.17	723.12	715.86
511	25.450	812.57	747.39	723.62	722.94	722.89	715.64
512	25.500	812.57	747.39	723.38	722.71	722.66	715.42
513	25.550	812.57	747.39	723.14	722.47	722.42	715.20
514	25.600	812.57	747.39	722.91	722.24	722.19	714.98
515	25.650	812.57	747.39	722.67	722.01	721.95	714.76

516	25.700	812.57	747.39	722.43	721.77	721.72	714.54
517	25.750	812.57	747.39	722.19	721.54	721.48	714.31
518	25.800	812.57	747.39	721.96	721.30	721.25	714.08
519	25.850	812.57	747.39	721.72	721.07	721.01	713.85
520	25.900	812.57	747.39	721.48	720.83	720.78	713.62
521	25.950	812.57	747.39	721.24	720.60	720.54	713.39
522	26.000	812.57	747.39	721.01	720.36	720.31	713.16
523	26.050	812.57	747.39	720.77	720.13	720.07	712.92
524	26.100	812.57	747.39	720.53	719.89	719.84	712.68
525	26.150	812.57	747.39	720.29	719.66	719.60	712.44
526	26.200	812.57	747.39	720.05	719.42	719.37	712.21
527	26.250	812.57	747.39	719.82	719.19	719.13	711.96
528	26.300	812.57	747.39	719.58	718.95	718.90	711.72
529	26.350	812.57	747.39	719.34	718.72	718.66	711.48
530	26.400	812.57	747.39	719.11	718.48	718.43	711.23
531	26.450	812.57	747.39	718.87	718.25	718.19	710.98
532	26.500	812.57	747.39	718.63	718.01	717.96	710.73
533	26.550	812.57	747.39	718.40	717.78	717.73	710.48
534	26.600	812.57	747.39	718.16	717.55	717.49	710.23
535	26.650	812.57	747.39	717.93	717.32	717.26	709.98
536	26.700	812.57	747.39	717.69	717.08	717.03	709.72
537	26.750	812.57	747.39	717.46	716.85	716.79	709.47
538	26.800	812.57	747.39	717.23	716.62	716.56	709.21
539	26.850	812.57	747.39	716.99	716.39	716.33	708.95
540	26.900	812.57	747.39	716.76	716.16	716.10	708.69
541	26.950	812.57	747.39	716.52	715.92	715.87	708.43
542	27.000	812.57	747.39	716.29	715.69	715.64	708.17
543	27.050	812.57	747.39	716.06	715.46	715.41	707.90
544	27.100	812.57	747.39	715.83	715.23	715.18	707.64
545	27.150	812.57	747.39	715.60	715.01	714.95	707.37
546	27.200	812.57	747.39	715.37	714.78	714.72	707.11
547	27.250	812.57	747.39	715.14	714.55	714.49	706.84
548	27.300	812.57	747.39	714.91	714.32	714.27	706.57
549	27.350	812.57	747.39	714.68	714.10	714.04	706.30
550	27.400	812.57	747.39	714.45	713.87	713.81	706.03
551	27.450	812.57	747.39	714.22	713.65	713.59	705.77
552	27.500	812.57	747.39	714.00	713.42	713.36	705.50
553	27.550	812.57	747.39	713.77	713.20	713.14	705.23
554	27.600	812.57	747.39	713.55	712.97	712.91	704.96
555	27.650	812.57	747.39	713.32	712.75	712.69	704.69
556	27.700	812.57	747.39	713.10	712.53	712.47	704.42
557	27.750	812.57	747.39	712.88	712.31	712.25	704.16
558	27.800	812.57	747.39	712.65	712.09	712.03	703.89
559	27.850	812.57	747.39	712.43	711.87	711.81	703.62
560	27.900	812.57	747.39	712.21	711.65	711.59	703.36
561	27.950	812.57	747.39	711.99	711.43	711.37	703.10
562	28.000	812.57	747.39	711.77	711.21	711.15	702.84
563	28.050	812.57	747.39	711.56	711.00	710.94	702.58
564	28.100	812.57	747.39	711.34	710.78	710.72	702.32
565	28.150	812.57	747.39	711.12	710.57	710.51	702.07
566	28.200	812.57	747.39	710.91	710.36	710.30	701.82
567	28.250	812.57	747.39	710.69	710.14	710.08	701.57
568	28.300	812.57	747.39	710.48	709.93	709.87	701.33
569	28.350	812.57	747.39	710.27	709.72	709.66	701.09
570	28.400	812.57	747.39	710.06	709.51	709.45	700.85
571	28.450	812.57	747.39	709.85	709.30	709.24	700.61
572	28.500	812.57	747.39	709.64	709.10	709.03	700.38
573	28.550	812.57	747.39	709.43	708.89	708.83	700.14
574	28.600	812.57	747.39	709.22	708.68	708.62	699.91
575	28.650	812.57	747.39	709.02	708.48	708.42	699.68
576	28.700	812.57	747.39	708.81	708.28	708.21	699.45
577	28.750	812.57	747.39	708.61	708.07	708.01	699.23
578	28.800	812.57	747.39	708.40	707.87	707.81	699.00
579	28.850	812.57	747.39	708.20	707.67	707.61	698.78
580	28.900	812.57	747.39	708.00	707.47	707.41	698.56
581	28.950	812.57	747.39	707.80	707.27	707.21	698.34
582	29.000	812.57	747.39	707.60	707.08	707.02	698.12
583	29.050	812.57	747.39	707.40	706.88	706.82	697.91
584	29.100	812.57	747.39	707.21	706.69	706.63	697.69
585	29.150	812.57	747.39	707.01	706.49	706.43	697.48
586	29.200	812.57	747.39	706.82	706.30	706.24	697.26
587	29.250	812.57	747.39	706.63	706.11	706.05	697.05
588	29.300	812.57	747.39	706.43	705.92	705.86	696.84
589	29.350	812.57	747.39	706.24	705.73	705.67	696.63
590	29.400	812.57	747.39	706.05	705.54	705.48	696.42
591	29.450	812.57	747.39	705.87	705.36	705.29	696.22
592	29.500	812.57	747.39	705.68	705.17	705.11	696.01
593	29.550	812.57	747.39	705.49	704.99	704.92	695.81
594	29.600	812.57	747.39	705.31	704.80	704.74	695.60
595	29.650	812.57	747.39	705.13	704.62	704.56	695.40
596	29.700	812.57	747.39	704.94	704.44	704.38	695.20
597	29.750	812.57	747.39	704.76	704.26	704.20	695.00
598	29.800	812.57	747.39	704.58	704.08	704.02	694.80
599	29.850	812.57	747.39	704.40	703.91	703.84	694.60
600	29.900	812.57	747.39	704.23	703.73	703.67	694.40
601	29.950	812.57	747.39	704.05	703.56	703.49	694.20
602	30.000	812.57	747.39	703.87	703.38	703.32	694.01
603	30.050	812.57	747.39	703.70	703.21	703.15	693.81
604	30.100	812.57	747.39	703.53	703.04	702.98	693.62
605	30.150	812.57	747.39	703.36	702.87	702.81	693.43
606	30.200	812.57	747.39	703.19	702.70	702.64	693.23
607	30.250	812.57	747.39	703.02	702.53	702.47	693.04
608	30.300	812.57	747.39	702.85	702.37	702.31	692.85
609	30.350	812.57	747.39	702.68	702.20	702.14	692.66
610	30.400	812.57	747.39	702.52	702.04	701.98	692.48

611	30.450	812.57	747.39	702.36	701.88	701.81	692.29
612	30.500	812.57	747.39	702.19	701.72	701.65	692.10
613	30.550	812.57	747.39	702.03	701.56	701.49	691.92
614	30.600	812.57	747.39	701.87	701.40	701.34	691.73
615	30.650	812.57	747.39	701.71	701.24	701.18	691.55
616	30.700	812.57	747.39	701.55	701.08	701.02	691.37
617	30.750	812.57	747.39	701.40	700.93	700.87	691.19
618	30.800	812.57	747.39	701.24	700.78	700.71	691.01
619	30.850	812.57	747.39	701.09	700.62	700.56	690.84
620	30.900	812.57	747.39	700.94	700.47	700.41	690.66
621	30.950	812.57	747.39	700.78	700.32	700.26	690.49
622	31.000	812.57	747.39	700.63	700.17	700.11	690.31
623	31.050	812.57	747.39	700.49	700.03	699.96	690.14
624	31.100	812.57	747.39	700.34	699.88	699.82	689.97
625	31.150	812.57	747.39	700.19	699.74	699.67	689.80
626	31.200	812.57	747.39	700.05	699.59	699.53	689.63
627	31.250	812.57	747.39	699.90	699.45	699.39	689.46
628	31.300	812.57	747.39	699.76	699.31	699.25	689.29
629	31.350	812.57	747.39	699.62	699.17	699.11	689.13
630	31.400	812.57	747.39	699.48	699.03	698.97	688.97
631	31.450	812.57	747.39	699.34	698.89	698.83	688.80
632	31.500	812.57	747.39	699.20	698.76	698.69	688.64
633	31.550	812.57	747.39	699.06	698.62	698.56	688.48
634	31.600	812.57	747.39	698.93	698.49	698.42	688.32
635	31.650	812.57	747.39	698.79	698.35	698.29	688.17
636	31.700	812.57	747.39	698.66	698.22	698.16	688.01
637	31.750	812.57	747.39	698.53	698.09	698.03	687.86
638	31.800	812.57	747.39	698.40	697.96	697.90	687.71
639	31.850	812.57	747.39	698.27	697.84	697.77	687.56
640	31.900	812.57	747.39	698.14	697.71	697.65	687.41
641	31.950	812.57	747.39	698.01	697.58	697.52	687.26
642	32.000	812.57	747.39	697.89	697.46	697.40	687.11
643	32.050	812.57	747.39	697.76	697.34	697.27	686.97
644	32.100	812.57	747.39	697.64	697.21	697.15	686.83
645	32.150	812.57	747.39	697.52	697.09	697.03	686.69
646	32.200	812.57	747.39	697.39	696.97	696.91	686.55
647	32.250	812.57	747.39	697.27	696.85	696.79	686.41
648	32.300	812.57	747.39	697.16	696.74	696.68	686.27
649	32.350	812.57	747.39	697.04	696.62	696.56	686.13
650	32.400	812.57	747.39	696.92	696.51	696.44	686.00
651	32.450	812.57	747.39	696.81	696.39	696.33	685.87
652	32.500	812.57	747.39	696.69	696.28	696.22	685.74
653	32.550	812.57	747.39	696.58	696.17	696.11	685.61
654	32.600	812.57	747.39	696.47	696.06	696.00	685.48
655	32.650	812.57	747.39	696.35	695.95	695.89	685.35
656	32.700	812.57	747.39	696.25	695.84	695.78	685.22
657	32.750	812.57	747.39	696.14	695.73	695.67	685.10
658	32.800	812.57	747.39	696.03	695.63	695.57	684.98
659	32.850	812.57	747.39	695.92	695.52	695.46	684.86
660	32.900	812.57	747.39	695.82	695.42	695.36	684.74
661	32.950	812.57	747.39	695.71	695.31	695.25	684.62
662	33.000	812.57	747.39	695.61	695.21	695.15	684.50
663	33.050	812.57	747.39	695.51	695.11	695.05	684.39
664	33.100	812.57	747.39	695.41	695.01	694.95	684.27
665	33.150	812.57	747.39	695.31	694.91	694.85	684.16
666	33.200	812.57	747.39	695.21	694.82	694.76	684.05
667	33.250	812.57	747.39	695.11	694.72	694.66	683.94
668	33.300	812.57	747.39	695.01	694.63	694.57	683.83
669	33.350	812.57	747.39	694.92	694.53	694.47	683.72
670	33.400	812.57	747.39	694.82	694.44	694.38	683.61
671	33.450	812.57	747.39	694.73	694.35	694.29	683.51
672	33.500	812.57	747.39	694.64	694.25	694.19	683.40
673	33.550	812.57	747.39	694.54	694.16	694.10	683.30
674	33.600	812.57	747.39	694.45	694.07	694.02	683.20
675	33.650	812.57	747.39	694.36	693.99	693.93	683.10
676	33.700	812.57	747.39	694.27	693.90	693.84	683.00
677	33.750	812.57	747.39	694.19	693.81	693.75	682.90
678	33.800	812.57	747.39	694.10	693.73	693.67	682.81
679	33.850	812.57	747.39	694.01	693.64	693.58	682.71
680	33.900	812.57	747.39	693.93	693.56	693.50	682.62
681	33.950	812.57	747.39	693.84	693.48	693.42	682.52
682	34.000	812.57	747.39	693.76	693.40	693.34	682.43
683	34.050	812.57	747.39	693.68	693.32	693.26	682.34
684	34.100	812.57	747.39	693.60	693.24	693.18	682.25
685	34.150	812.57	747.39	693.52	693.16	693.10	682.16
686	34.200	812.57	747.39	693.44	693.08	693.02	682.08
687	34.250	812.57	747.39	693.36	693.00	692.94	681.99
688	34.300	812.57	747.39	693.28	692.93	692.87	681.90
689	34.350	812.57	747.39	693.21	692.85	692.79	681.82
690	34.400	812.57	747.39	693.13	692.78	692.72	681.74
691	34.450	812.57	747.39	693.06	692.70	692.65	681.65
692	34.500	812.57	747.39	692.98	692.63	692.57	681.57
693	34.550	812.57	747.39	692.91	692.56	692.50	681.49
694	34.600	812.57	747.39	692.84	692.49	692.43	681.42
695	34.650	812.57	747.39	692.77	692.42	692.36	681.34
696	34.700	812.57	747.39	692.70	692.35	692.29	681.26
697	34.750	812.57	747.39	692.63	692.28	692.22	681.19
698	34.800	812.57	747.39	692.56	692.21	692.16	681.11
699	34.850	812.57	747.39	692.49	692.15	692.09	681.04
700	34.900	812.57	747.39	692.42	692.08	692.02	680.96
701	34.950	812.57	747.39	692.35	692.02	691.96	680.89
702	35.000	812.57	747.39	692.29	691.95	691.89	680.82
703	35.050	812.57	747.39	692.22	691.89	691.83	680.75
704	35.100	812.57	747.39	692.16	691.83	691.77	680.68
705	35.150	812.57	747.39	692.10	691.76	691.71	680.61

706	35.200	812.57	747.39	692.03	691.70	691.64	680.55
707	35.250	812.57	747.39	691.97	691.64	691.58	680.48
708	35.300	812.57	747.39	691.91	691.58	691.52	680.41
709	35.350	812.57	747.39	691.85	691.52	691.47	680.35
710	35.400	812.57	747.39	691.79	691.46	691.41	680.29
711	35.450	812.57	747.39	691.73	691.41	691.35	680.22
712	35.500	812.57	747.39	691.67	691.35	691.29	680.16
713	35.550	812.57	747.39	691.62	691.29	691.24	680.10
714	35.600	812.57	747.39	691.56	691.24	691.18	680.04
715	35.650	812.57	747.39	691.50	691.18	691.13	679.98
716	35.700	812.57	747.39	691.45	691.13	691.07	679.92
717	35.750	812.57	747.39	691.39	691.07	691.02	679.86
718	35.800	812.57	747.39	691.34	691.02	690.97	679.80
719	35.850	812.57	747.39	691.29	690.97	690.91	679.75
720	35.900	812.57	747.39	691.23	690.92	690.86	679.69
721	35.950	812.57	747.39	691.18	690.87	690.81	679.63
722	36.000	812.57	747.39	691.13	690.82	690.76	679.58
723	36.050	812.57	747.39	691.08	690.77	690.71	679.52
724	36.100	812.57	747.39	691.03	690.72	690.66	679.47
725	36.150	812.57	747.39	690.98	690.67	690.61	679.42
726	36.200	812.57	747.39	690.93	690.62	690.57	679.36
727	36.250	812.57	747.39	690.88	690.57	690.52	679.31
728	36.300	812.57	747.39	690.83	690.53	690.47	679.26
729	36.350	812.57	747.39	690.78	690.48	690.43	679.21
730	36.400	812.57	747.39	690.74	690.44	690.38	679.16
731	36.450	812.57	747.39	690.69	690.39	690.34	679.11
732	36.500	812.57	747.39	690.65	690.35	690.29	679.06
733	36.550	812.57	747.39	690.60	690.30	690.25	679.02
734	36.600	812.57	747.39	690.56	690.26	690.20	678.97
735	36.650	812.57	747.39	690.51	690.22	690.16	678.92
736	36.700	812.57	747.39	690.47	690.17	690.12	678.87
737	36.750	812.57	747.39	690.43	690.13	690.08	678.83
738	36.800	812.57	747.39	690.38	690.09	690.04	678.78
739	36.850	812.57	747.39	690.34	690.05	689.99	678.74
740	36.900	812.57	747.39	690.30	690.01	689.95	678.69
741	36.950	812.57	747.39	690.26	689.97	689.91	678.65
742	37.000	812.57	747.39	690.22	689.93	689.88	678.61
743	37.050	812.57	747.39	690.18	689.89	689.84	678.56
744	37.100	812.57	747.39	690.14	689.85	689.80	678.52
745	37.150	812.57	747.39	690.10	689.81	689.76	678.48
746	37.200	812.57	747.39	690.06	689.78	689.72	678.44
747	37.250	812.57	747.39	690.02	689.74	689.69	678.40
748	37.300	812.57	747.39	689.99	689.70	689.65	678.36
749	37.350	812.57	747.39	689.95	689.67	689.61	678.32
750	37.400	812.57	747.39	689.91	689.63	689.58	678.28
751	37.450	812.57	747.39	689.88	689.60	689.54	678.24
752	37.500	812.57	747.39	689.84	689.56	689.51	678.20
753	37.550	812.57	747.39	689.80	689.53	689.47	678.16
754	37.600	812.57	747.39	689.77	689.49	689.44	678.13
755	37.650	812.57	747.39	689.73	689.46	689.41	678.09
756	37.700	812.57	747.39	689.70	689.43	689.37	678.05
757	37.750	812.57	747.39	689.67	689.39	689.34	678.01
758	37.800	812.57	747.39	689.63	689.36	689.31	677.98
759	37.850	812.57	747.39	689.60	689.33	689.27	677.94
760	37.900	812.57	747.39	689.57	689.30	689.24	677.91
761	37.950	812.57	747.39	689.53	689.26	689.21	677.87
762	38.000	812.57	747.39	689.50	689.23	689.18	677.84
763	38.050	812.57	747.39	689.47	689.20	689.15	677.80
764	38.100	812.57	747.39	689.44	689.17	689.12	677.77
765	38.150	812.57	747.39	689.41	689.14	689.09	677.73
766	38.200	812.57	747.39	689.38	689.11	689.06	677.70
767	38.250	812.57	747.39	689.35	689.08	689.03	677.67
768	38.300	812.57	747.39	689.32	689.05	689.00	677.63
769	38.350	812.57	747.39	689.29	689.03	688.97	677.60
770	38.400	812.57	747.39	689.26	689.00	688.95	677.57
771	38.450	812.57	747.39	689.23	688.97	688.92	677.54
772	38.500	812.57	747.39	689.20	688.94	688.89	677.51
773	38.550	812.57	747.39	689.17	688.91	688.86	677.48
774	38.600	812.57	747.39	689.15	688.89	688.84	677.44
775	38.650	812.57	747.39	689.12	688.86	688.81	677.41
776	38.700	812.57	747.39	689.09	688.83	688.78	677.38
777	38.750	812.57	747.39	689.06	688.81	688.76	677.35
778	38.800	812.57	747.39	689.04	688.78	688.73	677.32
779	38.850	812.57	747.39	689.01	688.76	688.71	677.29
780	38.900	812.57	747.39	688.99	688.73	688.68	677.26
781	38.950	812.57	747.39	688.96	688.71	688.66	677.24
782	39.000	812.57	747.39	688.93	688.68	688.63	677.21
783	39.050	812.57	747.39	688.91	688.66	688.61	677.18
784	39.100	812.57	747.39	688.88	688.63	688.58	677.15
785	39.150	812.57	747.39	688.86	688.61	688.56	677.12
786	39.200	812.57	747.39	688.83	688.59	688.53	677.09
787	39.250	812.57	747.39	688.81	688.56	688.51	677.07
788	39.300	812.57	747.39	688.79	688.54	688.49	677.04
789	39.350	812.57	747.39	688.76	688.52	688.47	677.01
790	39.400	812.57	747.39	688.74	688.49	688.44	676.99
791	39.450	812.57	747.39	688.72	688.47	688.42	676.96
792	39.500	812.57	747.39	688.69	688.45	688.40	676.93
793	39.550	812.57	747.39	688.67	688.43	688.38	676.91
794	39.600	812.57	747.39	688.65	688.41	688.35	676.88
795	39.650	812.57	747.39	688.63	688.38	688.33	676.86
796	39.700	812.57	747.39	688.60	688.36	688.31	676.83
797	39.750	812.57	747.39	688.58	688.34	688.29	676.80
798	39.800	812.57	747.39	688.56	688.32	688.27	676.78
799	39.850	812.57	747.39	688.54	688.30	688.25	676.75
800	39.900	812.57	747.39	688.52	688.28	688.23	676.73

801	39.950	812.57	747.39	688.50	688.26	688.21	676.71
802	40.000	812.57	747.39	688.48	688.24	688.19	676.68
803	40.050	812.57	747.39	688.46	688.22	688.17	676.66
804	40.100	812.57	747.39	688.44	688.20	688.15	676.63
805	40.150	812.57	747.39	688.41	688.18	688.13	676.61
806	40.200	812.57	747.39	688.40	688.16	688.11	676.59
807	40.250	812.57	747.39	688.38	688.14	688.09	676.56
808	40.300	812.57	747.39	688.36	688.12	688.07	676.54
809	40.350	812.57	747.39	688.34	688.11	688.06	676.52
810	40.400	812.57	747.39	688.32	688.09	688.04	676.49
811	40.450	812.57	747.39	688.30	688.07	688.02	676.47
812	40.500	812.57	747.39	688.28	688.05	688.00	676.45
813	40.550	812.57	747.39	688.26	688.03	687.98	676.43
814	40.600	812.57	747.39	688.24	688.02	687.97	676.40
815	40.650	812.57	747.39	688.22	688.00	687.95	676.38
816	40.700	812.57	747.39	688.21	687.98	687.93	676.36
817	40.750	812.57	747.39	688.19	687.96	687.91	676.34
818	40.800	812.57	747.39	688.17	687.95	687.90	676.32
819	40.850	812.57	747.39	688.15	687.93	687.88	676.30
820	40.900	812.57	747.39	688.14	687.91	687.86	676.27
821	40.950	812.57	747.39	688.12	687.90	687.85	676.25
822	41.000	812.57	747.39	688.10	687.88	687.83	676.23
823	41.050	812.57	747.39	688.09	687.86	687.81	676.21
824	41.100	812.57	747.39	688.07	687.85	687.80	676.19
825	41.150	812.57	747.39	688.05	687.83	687.78	676.17
826	41.200	812.57	747.39	688.04	687.82	687.77	676.15
827	41.250	812.57	747.39	688.02	687.80	687.75	676.13
828	41.300	812.57	747.39	688.00	687.79	687.74	676.11
829	41.350	812.57	747.39	687.99	687.77	687.72	676.09
830	41.400	812.57	747.39	687.97	687.75	687.70	676.07
831	41.450	812.57	747.39	687.96	687.74	687.69	676.05
832	41.500	812.57	747.39	687.94	687.72	687.67	676.03
833	41.550	812.57	747.39	687.92	687.71	687.66	676.01
834	41.600	812.57	747.39	687.91	687.70	687.65	675.99
835	41.650	812.57	747.39	687.89	687.68	687.63	675.97
836	41.700	812.57	747.39	687.88	687.67	687.62	675.95
837	41.750	812.57	747.39	687.86	687.65	687.60	675.94
838	41.800	812.57	747.39	687.85	687.64	687.59	675.92
839	41.850	812.57	747.39	687.83	687.62	687.57	675.90
840	41.900	812.57	747.39	687.82	687.61	687.56	675.88
841	41.950	812.57	747.39	687.81	687.60	687.55	675.86
842	42.000	812.57	747.39	687.79	687.58	687.53	675.84
843	42.050	812.57	747.39	687.78	687.57	687.52	675.82
844	42.100	812.57	747.39	687.76	687.56	687.51	675.81
845	42.150	812.57	747.39	687.75	687.54	687.49	675.79
846	42.200	812.57	747.39	687.74	687.53	687.48	675.77
847	42.250	812.57	747.39	687.72	687.52	687.47	675.75
848	42.300	812.57	747.39	687.71	687.50	687.45	675.74
849	42.350	812.57	747.39	687.70	687.49	687.44	675.72
850	42.400	812.57	747.39	687.68	687.48	687.43	675.70
851	42.450	812.57	747.39	687.67	687.46	687.42	675.68
852	42.500	812.57	747.39	687.66	687.45	687.40	675.67
853	42.550	812.57	747.39	687.64	687.44	687.39	675.65
854	42.600	812.57	747.39	687.63	687.43	687.38	675.63
855	42.650	812.57	747.39	687.62	687.42	687.37	675.62
856	42.700	812.57	747.39	687.60	687.40	687.35	675.60
857	42.750	812.57	747.39	687.59	687.39	687.34	675.58
858	42.800	812.57	747.39	687.58	687.38	687.33	675.57
859	42.850	812.57	747.39	687.57	687.37	687.32	675.55
860	42.900	812.57	747.39	687.56	687.36	687.31	675.53
861	42.950	812.57	747.39	687.54	687.34	687.30	675.52
862	43.000	812.57	747.39	687.53	687.33	687.28	675.50
863	43.050	812.57	747.39	687.52	687.32	687.27	675.49
864	43.100	812.57	747.39	687.51	687.31	687.26	675.47
865	43.150	812.57	747.39	687.50	687.30	687.25	675.45
866	43.200	812.57	747.39	687.48	687.29	687.24	675.44
867	43.250	812.57	747.39	687.47	687.28	687.23	675.42
868	43.300	812.57	747.39	687.46	687.27	687.22	675.41
869	43.350	812.57	747.39	687.45	687.25	687.21	675.39
870	43.400	812.57	747.39	687.44	687.24	687.20	675.38
871	43.450	812.57	747.39	687.43	687.23	687.18	675.36
872	43.500	812.57	747.39	687.42	687.22	687.17	675.34
873	43.550	812.57	747.39	687.41	687.21	687.16	675.33
874	43.600	812.57	747.39	687.39	687.20	687.15	675.31
875	43.650	812.57	747.39	687.38	687.19	687.14	675.30
876	43.700	812.57	747.39	687.37	687.18	687.13	675.29
877	43.750	812.57	747.39	687.36	687.17	687.12	675.27
878	43.800	812.57	747.39	687.35	687.16	687.11	675.26
879	43.850	812.57	747.39	687.34	687.15	687.10	675.24
880	43.900	812.57	747.39	687.33	687.14	687.09	675.23
881	43.950	812.57	747.39	687.32	687.13	687.08	675.21
882	44.000	812.57	747.39	687.31	687.12	687.07	675.20
883	44.050	812.57	747.39	687.30	687.11	687.06	675.18
884	44.100	812.57	747.39	687.29	687.10	687.05	675.17
885	44.150	812.57	747.39	687.28	687.09	687.04	675.16
886	44.200	812.57	747.39	687.27	687.08	687.03	675.14
887	44.250	812.57	747.39	687.26	687.07	687.02	675.13
888	44.300	812.57	747.39	687.25	687.06	687.02	675.11
889	44.350	812.57	747.39	687.24	687.05	687.01	675.10
890	44.400	812.57	747.39	687.23	687.04	687.00	675.09
891	44.450	812.57	747.39	687.22	687.04	686.99	675.07
892	44.500	812.57	747.39	687.21	687.03	686.98	675.06
893	44.550	812.57	747.39	687.20	687.02	686.97	675.04
894	44.600	812.57	747.39	687.19	687.01	686.96	675.03
895	44.650	812.57	747.39	687.18	687.00	686.95	675.02

896	44.700	812.57	747.39	687.17	686.99	686.94	675.00
897	44.750	812.57	747.39	687.16	686.98	686.93	674.99
898	44.800	812.57	747.39	687.16	686.97	686.93	674.98
899	44.850	812.57	747.39	687.15	686.96	686.92	674.97
900	44.900	812.57	747.39	687.14	686.96	686.91	674.95
901	44.950	812.57	747.39	687.13	686.95	686.90	674.94
902	45.000	812.57	747.39	687.12	686.94	686.89	674.93
903	45.050	812.57	747.39	687.11	686.93	686.88	674.91
904	45.100	812.57	747.39	687.10	686.92	686.87	674.90
905	45.150	812.57	747.39	687.09	686.91	686.87	674.89
906	45.200	812.57	747.39	687.08	686.91	686.86	674.88
907	45.250	812.57	747.39	687.08	686.90	686.85	674.86
908	45.300	812.57	747.39	687.07	686.89	686.84	674.85
909	45.350	812.57	747.39	687.06	686.88	686.83	674.84
910	45.400	812.57	747.39	687.05	686.87	686.83	674.83
911	45.450	812.57	747.39	687.04	686.87	686.82	674.81
912	45.500	812.57	747.39	687.03	686.86	686.81	674.80
913	45.550	812.57	747.39	687.03	686.85	686.80	674.79
914	45.600	812.57	747.39	687.02	686.84	686.79	674.78
915	45.650	812.57	747.39	687.01	686.83	686.79	674.77
916	45.700	812.57	747.39	687.00	686.83	686.78	674.75
917	45.750	812.57	747.39	686.99	686.82	686.77	674.74
918	45.800	812.57	747.39	686.99	686.81	686.76	674.73
919	45.850	812.57	747.39	686.98	686.80	686.76	674.72
920	45.900	812.57	747.39	686.97	686.80	686.75	674.71
921	45.950	812.57	747.39	686.96	686.79	686.74	674.69
922	46.000	812.57	747.39	686.95	686.78	686.73	674.68
923	46.050	812.57	747.39	686.95	686.77	686.73	674.67
924	46.100	812.57	747.39	686.94	686.77	686.72	674.66
925	46.150	812.57	747.39	686.93	686.76	686.71	674.65
926	46.200	812.57	747.39	686.92	686.75	686.71	674.64
927	46.250	812.57	747.39	686.92	686.75	686.70	674.63
928	46.300	812.57	747.39	686.91	686.74	686.69	674.61
929	46.350	812.57	747.39	686.90	686.73	686.68	674.60
930	46.400	812.57	747.39	686.89	686.72	686.68	674.59
931	46.450	812.57	747.39	686.89	686.72	686.67	674.58
932	46.500	812.57	747.39	686.88	686.71	686.66	674.57
933	46.550	812.57	747.39	686.87	686.70	686.66	674.56
934	46.600	812.57	747.39	686.87	686.70	686.65	674.55
935	46.650	812.57	747.39	686.86	686.69	686.64	674.54
936	46.700	812.57	747.39	686.85	686.68	686.64	674.53
937	46.750	812.57	747.39	686.85	686.68	686.63	674.52
938	46.800	812.57	747.39	686.84	686.67	686.62	674.50
939	46.850	812.57	747.39	686.83	686.66	686.62	674.49
940	46.900	812.57	747.39	686.82	686.66	686.61	674.48
941	46.950	812.57	747.39	686.82	686.65	686.60	674.47
942	47.000	812.57	747.39	686.81	686.64	686.60	674.46
943	47.050	812.57	747.39	686.80	686.64	686.59	674.45
944	47.100	812.57	747.39	686.80	686.63	686.59	674.44
945	47.150	812.57	747.39	686.79	686.63	686.58	674.43
946	47.200	812.57	747.39	686.78	686.62	686.57	674.42
947	47.250	812.57	747.39	686.78	686.61	686.57	674.41
948	47.300	812.57	747.39	686.77	686.61	686.56	674.40
949	47.350	812.57	747.39	686.77	686.60	686.55	674.39
950	47.400	812.57	747.39	686.76	686.60	686.55	674.38
951	47.450	812.57	747.39	686.75	686.59	686.54	674.37
952	47.500	812.57	747.39	686.75	686.58	686.54	674.36
953	47.550	812.57	747.39	686.74	686.58	686.53	674.35
954	47.600	812.57	747.39	686.73	686.57	686.52	674.34
955	47.650	812.57	747.39	686.73	686.57	686.52	674.33
956	47.700	812.57	747.39	686.72	686.56	686.51	674.32
957	47.750	812.57	747.39	686.71	686.55	686.51	674.31
958	47.800	812.57	747.39	686.71	686.55	686.50	674.30
959	47.850	812.57	747.39	686.70	686.54	686.50	674.29
960	47.900	812.57	747.39	686.70	686.54	686.49	674.28
961	47.950	812.57	747.39	686.69	686.53	686.48	674.27
962	48.000	812.57	747.39	686.68	686.52	686.48	674.26
963	48.050	812.57	747.39	686.68	686.52	686.47	674.25
964	48.100	812.57	747.39	686.67	686.51	686.47	674.24
965	48.150	812.57	747.39	686.67	686.51	686.46	674.23
966	48.200	812.57	747.39	686.66	686.50	686.46	674.22
967	48.250	812.57	747.39	686.66	686.50	686.45	674.21
968	48.300	812.57	747.39	686.65	686.49	686.45	674.20
969	48.350	812.57	747.39	686.64	686.49	686.44	674.20
970	48.400	812.57	747.39	686.64	686.48	686.43	674.19
971	48.450	812.57	747.39	686.63	686.48	686.43	674.18
972	48.500	812.57	747.39	686.63	686.47	686.42	674.17
973	48.550	812.57	747.39	686.62	686.47	686.42	674.16
974	48.600	812.57	747.39	686.62	686.46	686.41	674.15
975	48.650	812.57	747.39	686.61	686.45	686.41	674.14
976	48.700	812.57	747.39	686.61	686.45	686.40	674.13
977	48.750	812.57	747.39	686.60	686.44	686.40	674.12
978	48.800	812.57	747.39	686.59	686.44	686.39	674.11
979	48.850	812.57	747.39	686.59	686.43	686.39	674.10
980	48.900	812.57	747.39	686.58	686.43	686.38	674.09
981	48.950	812.57	747.39	686.58	686.42	686.38	674.09
982	49.000	812.57	747.39	686.57	686.42	686.37	674.08
983	49.050	812.57	747.39	686.57	686.41	686.37	674.07
984	49.100	812.57	747.39	686.56	686.41	686.36	674.06
985	49.150	812.57	747.39	686.56	686.40	686.36	674.05
986	49.200	812.57	747.39	686.55	686.40	686.35	674.04
987	49.250	812.57	747.39	686.55	686.39	686.35	674.03
988	49.300	812.57	747.39	686.54	686.39	686.34	674.02
989	49.350	812.57	747.39	686.54	686.39	686.34	674.02
990	49.400	812.57	747.39	686.53	686.38	686.33	674.01

991	49.450	812.57	747.39	686.53	686.38	686.33	674.00
992	49.500	812.57	747.39	686.52	686.37	686.32	673.99
993	49.550	812.57	747.39	686.52	686.37	686.32	673.98
994	49.600	812.57	747.39	686.51	686.36	686.32	673.97
995	49.650	812.57	747.39	686.51	686.36	686.31	673.97
996	49.700	812.57	747.39	686.50	686.35	686.31	673.96
997	49.750	812.57	747.39	686.50	686.35	686.30	673.95
998	49.800	812.57	747.39	686.49	686.34	686.30	673.94
999	49.850	812.57	747.39	686.49	686.34	686.29	673.93
1000	49.900	812.57	747.39	686.48	686.33	686.29	673.92
1001	49.950	812.57	747.39	686.48	686.33	686.28	673.92

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K	TTP(K)	QC(K,1), 1-1,NTT)					
*****	*****	*****	*****	*****	*****	*****	*****
1	.000	26.60	26.62	105.61	37.46	19.50	19.50
2	.050	26.60	26.60	114.47	6.50	19.50	19.50
3	.100	26.60	26.60	109.89	28.85	19.50	19.50
4	.150	26.60	26.60	119.00	14.14	19.50	19.50
5	.200	26.60	26.62	104.98	22.84	19.50	19.50
6	.250	26.60	26.68	103.59	17.77	19.50	19.50
7	.300	26.60	26.89	96.87	20.15	19.50	19.50
8	.350	26.60	27.49	91.94	18.67	19.50	19.50
9	.400	26.60	28.89	83.56	18.86	19.50	19.50
10	.450	26.75	31.53	76.20	18.66	19.50	19.50
11	.500	28.00	35.59	69.44	18.70	19.50	19.50
12	.550	30.39	40.67	66.46	19.22	19.50	19.50
13	.600	34.03	45.36	66.26	19.60	19.50	19.50
14	.650	39.04	47.89	67.76	19.97	19.50	19.50
15	.700	45.53	48.03	68.76	19.88	19.50	19.50
16	.750	53.61	48.20	68.42	19.71	19.50	19.50
17	.800	63.30	52.07	67.10	19.52	19.50	19.50
18	.850	74.93	61.95	65.55	19.47	19.50	19.50
19	.900	88.34	76.77	63.99	19.46	19.50	19.50
20	.950	103.68	93.41	62.22	19.40	19.50	19.50
21	1.000	121.04	109.86	60.00	19.33	19.50	19.50
22	1.050	139.14	126.21	57.56	19.26	19.50	19.50
23	1.100	159.37	143.24	55.20	19.25	19.50	19.50
24	1.150	181.78	161.70	53.18	19.28	19.50	19.50
25	1.200	206.43	182.24	51.69	19.36	19.50	19.50
26	1.250	233.35	205.06	50.98	19.48	19.50	19.50
27	1.300	262.58	230.39	51.27	19.67	19.50	19.50
28	1.350	294.14	258.64	52.86	19.91	19.50	19.50
29	1.400	328.06	289.92	55.94	20.20	19.50	19.50
30	1.450	364.35	324.10	60.54	20.47	19.50	19.50
31	1.500	403.03	360.96	66.37	20.70	19.50	19.50
32	1.550	444.10	400.15	73.05	20.82	19.50	19.50
33	1.600	487.56	441.31	80.35	20.90	19.50	19.50
34	1.650	533.41	484.28	89.89	23.47	22.18	22.18
35	1.700	581.62	529.05	108.82	39.29	38.73	38.73
36	1.750	632.19	575.68	135.47	60.54	59.27	59.27
37	1.800	685.08	624.33	164.61	82.02	80.69	80.69
38	1.850	740.27	675.12	197.55	105.65	103.93	103.93
39	1.900	797.73	728.05	228.67	121.15	118.52	118.52
40	1.950	857.41	783.14	252.17	122.56	119.25	119.25
41	2.000	919.27	840.27	274.25	122.67	119.97	119.97
42	2.050	984.58	899.71	297.84	123.94	120.71	120.71
43	2.100	1051.94	961.79	320.74	124.45	121.44	121.44
44	2.150	1121.30	1025.92	343.38	125.29	122.16	122.16
45	2.200	1192.58	1091.62	365.55	126.19	123.18	123.18
46	2.250	1265.71	1158.98	387.54	127.37	124.27	124.27
47	2.300	1340.62	1227.95	409.90	128.54	125.38	125.38
48	2.350	1417.22	1298.47	431.42	129.89	126.54	126.54
49	2.400	1495.42	1370.63	458.79	131.34	127.77	127.77
50	2.450	1575.14	1444.38	486.29	132.91	129.08	129.08
51	2.500	1656.28	1519.71	515.70	134.54	130.48	130.48
52	2.550	1738.75	1596.50	546.48	136.21	131.96	131.96
53	2.600	1822.43	1674.57	577.99	137.91	133.51	133.51
54	2.650	1907.23	1752.82	609.74	139.61	135.10	135.10
55	2.700	1993.04	1831.19	641.48	141.35	136.73	136.73
56	2.750	2079.75	1910.00	673.25	143.13	138.39	138.39
57	2.800	2167.24	1989.53	705.16	144.98	140.11	140.11
58	2.850	2255.40	2070.09	737.33	146.88	141.88	141.88
59	2.900	2344.11	2151.73	769.70	148.83	143.69	143.69
60	2.950	2433.25	2234.42	802.11	150.82	145.56	145.56
61	3.000	2522.69	2317.90	834.40	152.84	147.46	147.46
62	3.050	2612.32	2401.60	866.34	154.88	149.40	149.40
63	3.100	2702.01	2485.16	897.75	156.94	151.37	151.37
64	3.150	2791.59	2568.69	928.61	159.03	153.38	153.38
65	3.200	2880.91	2652.25	959.63	161.10	155.40	155.40
66	3.250	2969.82	2736.14	995.35	162.71	157.36	157.36
67	3.300	3058.21	2821.67	1027.39	165.76	159.47	159.47
68	3.350	3145.92	2907.32	1060.88	167.21	161.57	161.57
69	3.400	3232.81	2991.85	1093.73	170.09	163.73	163.73
70	3.450	3318.74	3076.30	1126.42	171.95	165.92	165.92
71	3.500	3403.56	3159.23	1158.64	174.55	168.15	168.15
72	3.550	3487.13	3240.91	1190.60	176.75	170.41	170.41
73	3.600	3569.30	3321.67	1222.09	179.23	172.70	172.70
74	3.650	3649.93	3400.48	1253.10	181.58	175.03	175.03
75	3.700	3728.87	3478.18	1283.27	184.01	177.37	177.37

76	3.750	3805.97	3554.23	1312.43	186.41	179.74	179.74
77	3.800	3881.09	3628.03	1340.54	188.82	182.12	182.12
78	3.850	3954.08	3700.30	1367.65	191.25	184.51	184.51
79	3.900	4024.79	3770.43	1393.77	193.69	186.91	186.91
80	3.950	4093.08	3838.15	1418.95	196.14	189.33	189.33
81	4.000	4159.79	3903.81	1446.06	205.48	199.05	199.05
82	4.050	4037.45	3906.94	1476.47	221.40	214.93	214.93
83	4.100	3919.70	3811.85	1509.17	242.08	235.79	235.79
84	4.150	3805.44	3700.85	1544.54	267.72	261.45	261.45
85	4.200	3694.54	3607.89	1592.36	297.95	291.82	291.82
86	4.250	3586.91	3510.56	1622.29	332.85	326.83	326.83
87	4.300	3482.46	3419.67	1663.65	372.15	366.31	366.31
88	4.350	3381.07	3335.28	1705.11	415.53	409.95	409.95
89	4.400	3282.65	3253.28	1744.77	462.36	457.16	457.16
90	4.450	3187.12	3174.28	1788.71	508.66	504.70	504.70
91	4.500	3094.37	3094.69	1821.70	561.59	556.90	556.90
92	4.550	3004.33	3014.94	1854.40	612.46	609.19	609.19
93	4.600	2916.91	2935.73	1886.07	668.89	665.06	665.06
94	4.650	2832.03	2858.09	1919.87	727.77	724.75	724.75
95	4.700	2749.61	2782.78	1954.09	791.04	787.94	787.94
96	4.750	2669.58	2709.62	1988.64	857.15	854.62	854.62
97	4.800	2591.85	2638.55	2023.08	926.77	924.44	924.44
98	4.850	2516.37	2569.49	2058.05	999.50	997.60	997.60
99	4.900	2443.06	2502.56	2093.55	1075.62	1074.01	1074.01
100	4.950	2371.87	2437.67	2129.76	1154.93	1153.72	1153.72
101	5.000	2302.71	2374.70	2166.65	1237.47	1236.60	1236.60
102	5.050	2235.54	2313.53	2205.94	1324.01	1323.73	1323.73
103	5.100	2170.29	2254.12	2248.11	1413.19	1413.32	1413.32
104	5.150	2106.90	2196.49	2288.84	1506.62	1506.92	1506.92
105	5.200	2045.33	2140.56	2331.51	1602.23	1603.20	1603.20
106	5.250	1985.51	2086.18	2374.79	1701.53	1702.71	1702.71
107	5.300	1927.40	2033.12	2419.34	1803.39	1805.18	1805.18
108	5.350	1870.94	1981.19	2464.84	1908.41	1910.56	1910.56
109	5.400	1816.08	1930.28	2511.61	2016.08	2018.80	2018.80
110	5.450	1762.79	1880.42	2559.83	2126.62	2129.81	2129.81
111	5.500	1711.01	1831.61	2609.91	2239.84	2243.61	2243.61
112	5.550	1660.71	1783.83	2662.10	2355.74	2360.08	2360.08
113	5.600	1611.82	1737.15	2716.91	2474.10	2479.10	2479.10
114	5.650	1564.33	1691.58	2775.01	2594.85	2600.54	2600.54
115	5.700	1518.18	1647.11	2837.34	2717.46	2723.99	2723.99
116	5.750	1473.33	1603.81	2905.13	2841.33	2848.85	2848.85
117	5.800	1429.76	1561.68	2978.55	2960.88	2969.12	2969.12
118	5.850	1387.41	1520.60	3053.17	3063.42	3071.72	3071.72
119	5.900	1346.26	1480.55	3102.02	3145.48	3151.82	3151.82
120	5.950	1306.27	1441.49	3093.14	3210.78	3214.07	3214.07
121	6.000	1267.40	1403.37	3070.00	3240.38	3243.92	3243.92
122	6.050	1229.64	1366.25	3020.75	3161.25	3156.60	3156.60
123	6.100	1192.93	1330.05	2946.50	3063.23	3064.69	3064.69
124	6.150	1157.26	1294.75	2873.46	2977.86	2975.90	2975.90
125	6.200	1122.59	1260.42	2793.02	2886.73	2887.45	2887.45
126	6.250	1088.90	1227.01	2708.34	2801.62	2801.22	2801.22
127	6.300	1056.16	1194.54	2621.13	2716.67	2717.46	2717.46
128	6.350	1024.34	1162.86	2531.58	2636.31	2636.86	2636.86
129	6.400	993.44	1131.83	2442.66	2559.20	2560.30	2560.30
130	6.450	963.43	1101.50	2355.71	2487.38	2488.48	2488.48
131	6.500	934.29	1071.88	2273.84	2421.02	2422.31	2422.31
132	6.550	906.00	1043.17	2198.43	2360.94	2362.20	2362.20
133	6.600	878.52	1015.38	2130.68	2307.05	2308.34	2308.34
134	6.650	851.85	988.58	2070.39	2259.15	2260.38	2260.38
135	6.700	825.94	962.76	2017.08	2216.64	2217.88	2217.88
136	6.750	800.78	937.75	1969.48	2176.89	2180.11	2180.11
137	6.800	776.36	913.49	1926.29	2145.11	2146.36	2146.36
138	6.850	752.64	889.73	1886.32	2114.50	2115.78	2115.78
139	6.900	729.60	866.51	1848.85	2086.48	2087.82	2087.82
140	6.950	707.24	843.88	1813.46	2060.70	2062.08	2062.08
141	7.000	685.52	821.86	1779.69	2037.04	2038.48	2038.48
142	7.050	664.44	800.20	1747.94	2015.42	2016.92	2016.92
143	7.100	643.96	778.52	1717.33	1995.84	1997.43	1997.43
144	7.150	624.08	756.51	1687.67	1977.73	1979.38	1979.38
145	7.200	604.78	734.11	1658.48	1960.73	1962.48	1962.48
146	7.250	586.04	711.49	1629.49	1944.71	1946.54	1946.54
147	7.300	567.85	689.01	1600.44	1929.47	1931.40	1931.40
148	7.350	550.18	667.06	1571.21	1914.87	1916.90	1916.90
149	7.400	533.03	645.44	1541.68	1900.77	1902.90	1902.90
150	7.450	516.38	625.24	1511.87	1887.09	1889.32	1889.32
151	7.500	500.21	605.02	1481.80	1873.75	1876.08	1876.08
152	7.550	484.52	585.09	1451.52	1860.71	1863.12	1863.12
153	7.600	469.29	565.45	1421.13	1847.93	1850.44	1850.44
154	7.650	454.50	546.26	1390.72	1835.39	1837.98	1837.98
155	7.700	440.15	527.63	1362.67	1821.99	1824.84	1824.84
156	7.750	426.22	509.59	1333.02	1810.08	1812.73	1812.73
157	7.800	412.70	492.04	1304.54	1797.60	1800.56	1800.56
158	7.850	399.58	474.81	1276.11	1785.88	1788.71	1788.71
159	7.900	386.85	457.95	1248.38	1774.11	1777.13	1777.13
160	7.950	374.49	441.69	1221.07	1762.74	1765.73	1765.73
161	8.000	362.49	426.15	1194.37	1751.50	1754.59	1754.59
162	8.050	350.86	411.22	1169.21	1740.51	1743.62	1743.62
163	8.100	339.59	396.78	1142.67	1729.69	1732.85	1732.85
164	8.150	328.66	382.80	1117.73	1719.05	1722.26	1722.26
165	8.200	318.06	369.28	1093.44	1708.61	1711.85	1711.85
166	8.250	307.79	356.24	1069.80	1698.34	1701.61	1701.61
167	8.300	297.84	343.69	1046.91	1688.26	1691.56	1691.56
168	8.350	288.20	331.63	1024.82	1678.39	1681.71	1681.71
169	8.400	278.85	320.07	1003.60	1668.74	1672.08	1672.08
170	8.450	269.80	309.03	983.31	1659.37	1662.67	1662.67

171	8.500	261.03	298.47	963.92	1650.14	1653.50	1653.50
172	8.550	252.54	288.37	945.44	1641.16	1644.53	1644.53
173	8.600	244.31	278.69	927.81	1632.41	1635.78	1635.78
174	8.650	236.35	269.40	911.03	1623.84	1627.21	1627.21
175	8.700	228.64	260.50	895.08	1615.46	1618.83	1618.83
176	8.750	221.18	251.98	879.94	1607.28	1610.65	1610.65
177	8.800	213.95	243.85	865.62	1599.27	1602.64	1602.64
178	8.850	206.96	236.09	852.16	1591.42	1594.78	1594.78
179	8.900	200.19	228.66	844.74	1581.15	1584.95	1584.95
180	8.950	193.64	221.54	833.18	1574.20	1577.24	1577.24
181	9.000	187.31	214.73	824.63	1565.62	1569.39	1569.39
182	9.050	181.19	208.20	815.63	1558.57	1561.73	1561.73
183	9.100	175.26	201.94	807.53	1550.71	1554.27	1554.27
184	9.150	169.54	195.94	799.62	1543.62	1546.91	1546.91
185	9.200	164.00	190.19	792.19	1536.37	1539.82	1539.82
186	9.250	158.65	184.67	784.90	1529.41	1532.75	1532.75
187	9.300	153.47	179.35	777.80	1522.41	1525.81	1525.81
188	9.350	148.48	174.24	770.63	1515.47	1518.83	1518.83
189	9.400	143.65	169.33	763.42	1508.48	1511.88	1511.88
190	9.450	138.99	164.65	756.12	1501.51	1504.90	1504.90
191	9.500	134.49	160.19	748.86	1494.57	1497.96	1497.96
192	9.550	130.14	155.98	741.71	1487.68	1491.07	1491.07
193	9.600	125.95	151.98	734.78	1480.83	1484.22	1484.22
194	9.650	121.90	148.12	728.01	1474.06	1477.43	1477.43
195	9.700	117.99	144.31	721.37	1467.33	1470.70	1470.70
196	9.750	114.22	140.50	714.80	1460.63	1464.01	1464.01
197	9.800	110.59	136.73	708.27	1453.99	1457.36	1457.36
198	9.850	107.09	133.05	701.82	1447.39	1450.78	1450.78
199	9.900	103.71	129.55	695.45	1440.82	1444.19	1444.19
200	9.950	100.45	126.22	689.12	1434.29	1437.65	1437.65
201	10.000	97.32	123.01	682.83	1427.76	1431.13	1431.13
202	10.050	94.30	119.89	676.54	1421.26	1424.61	1424.61
203	10.100	91.39	116.83	670.19	1414.75	1418.10	1418.10
204	10.150	88.59	113.85	663.81	1408.25	1411.59	1411.59
205	10.200	85.90	110.96	657.37	1401.89	1405.25	1405.25
206	10.250	83.31	108.16	650.87	1395.54	1398.89	1398.89
207	10.300	80.82	105.45	644.34	1389.17	1392.52	1392.52
208	10.350	78.42	102.83	637.87	1382.82	1386.16	1386.16
209	10.400	76.12	100.27	631.48	1376.49	1379.81	1379.81
210	10.450	73.90	97.78	619.27	1348.73	1350.19	1350.19
211	10.500	71.78	95.35	600.23	1312.36	1314.73	1314.73
212	10.550	69.76	93.01	580.11	1273.97	1275.42	1275.42
213	10.600	67.83	90.79	565.75	1261.78	1266.15	1266.15
214	10.650	65.99	88.70	559.34	1258.98	1261.59	1261.59
215	10.700	64.24	86.71	556.54	1252.11	1256.34	1256.34
216	10.750	62.56	84.80	550.68	1249.06	1251.68	1251.68
217	10.800	60.96	82.95	547.27	1242.99	1246.80	1246.80
218	10.850	59.44	81.17	543.82	1239.22	1242.10	1242.10
219	10.900	57.98	79.44	541.97	1234.14	1237.51	1237.51
220	10.950	56.59	77.72	540.93	1230.04	1232.99	1232.99
221	11.000	55.27	75.91	541.18	1225.56	1228.62	1228.62
222	11.050	54.01	73.88	541.62	1221.39	1224.30	1224.30
223	11.100	52.80	71.56	541.62	1217.02	1220.00	1220.00
224	11.150	51.65	69.05	540.08	1212.65	1215.67	1215.67
225	11.200	50.56	66.73	536.91	1208.08	1211.18	1211.18
226	11.250	49.52	65.17	532.47	1203.44	1206.60	1206.60
227	11.300	48.52	64.74	527.75	1198.83	1201.99	1201.99
228	11.350	47.58	63.26	523.30	1194.28	1197.41	1197.41
229	11.400	46.67	61.99	519.30	1189.77	1192.87	1192.87
230	11.450	45.81	60.10	515.51	1185.28	1188.36	1188.36
231	11.500	45.00	58.26	511.81	1180.84	1183.91	1183.91
232	11.550	44.22	56.82	509.58	1176.12	1179.31	1179.31
233	11.600	43.48	55.41	513.20	1170.45	1174.10	1174.10
234	11.650	42.77	54.13	512.10	1167.14	1169.78	1169.78
235	11.700	42.10	52.88	513.51	1161.59	1165.10	1165.10
236	11.750	41.47	51.61	514.33	1157.91	1160.67	1160.67
237	11.800	40.86	50.15	515.64	1153.05	1156.25	1156.25
238	11.850	40.29	49.76	516.53	1148.98	1151.86	1151.86
239	11.900	39.75	49.33	517.15	1144.43	1147.47	1147.47
240	11.950	39.23	48.90	516.89	1140.08	1143.05	1143.05
241	12.000	38.74	48.45	515.80	1135.60	1138.65	1138.65
242	12.050	38.28	47.99	513.62	1131.01	1134.06	1134.06
243	12.100	37.85	47.55	510.66	1126.38	1129.47	1129.47
244	12.150	37.43	47.13	507.29	1121.86	1124.96	1124.96
245	12.200	37.05	46.75	503.94	1117.36	1120.44	1120.44
246	12.250	36.68	46.55	500.84	1112.88	1115.94	1115.94
247	12.300	36.34	46.38	497.98	1108.39	1111.41	1111.41
248	12.350	36.01	46.17	495.17	1104.00	1107.01	1107.01
249	12.400	35.71	45.84	492.27	1099.59	1102.59	1102.59
250	12.450	35.43	45.37	489.20	1095.14	1098.14	1098.14
251	12.500	35.16	44.86	486.02	1090.73	1093.72	1093.72
252	12.550	34.91	44.38	482.84	1086.37	1089.36	1089.36
253	12.600	34.68	43.98	479.63	1081.95	1084.92	1084.92
254	12.650	34.47	43.62	476.39	1077.60	1080.57	1080.57
255	12.700	34.27	43.24	473.12	1073.25	1076.20	1076.20
256	12.750	34.09	42.86	469.77	1068.89	1071.84	1071.84
257	12.800	33.93	42.49	466.38	1064.54	1067.48	1067.48
258	12.850	33.77	42.15	462.91	1060.20	1063.13	1063.13
259	12.900	33.64	41.84	459.41	1055.86	1058.79	1058.79
260	12.950	33.51	41.54	455.86	1051.54	1054.45	1054.45
261	13.000	33.40	41.26	452.31	1047.22	1050.13	1050.13
262	13.050	33.30	40.98	448.77	1042.93	1045.83	1045.83
263	13.100	33.22	40.71	445.28	1038.65	1041.53	1041.53
264	13.150	33.14	40.44	441.88	1034.39	1037.26	1037.26
265	13.200	33.08	40.20	438.56	1030.15	1033.01	1033.01

266	13.250	33.01	49.98	435.33	1025.93	1028.77	1028.77
267	13.300	32.99	49.80	432.16	1021.73	1024.56	1024.56
268	13.350	32.96	49.64	429.03	1017.54	1020.35	1020.35
269	13.400	32.94	49.50	425.95	1013.37	1016.17	1016.17
270	13.450	32.93	49.38	422.93	1009.22	1012.01	1012.01
271	13.500	32.93	49.27	419.95	1005.09	1007.86	1007.86
272	13.550	32.93	49.16	417.03	1000.98	1003.73	1003.73
273	13.600	32.95	49.07	414.15	996.88	999.62	999.62
274	13.650	32.98	48.99	411.31	992.81	995.53	995.53
275	13.700	33.01	48.91	408.52	988.75	991.46	991.46
276	13.750	33.05	48.85	405.76	984.71	987.40	987.40
277	13.800	33.10	48.80	403.06	980.68	983.36	983.36
278	13.850	33.16	48.75	400.37	976.68	979.34	979.34
279	13.900	33.23	48.72	397.73	972.68	975.33	975.33
280	13.950	33.30	48.70	395.11	968.72	971.34	971.34
281	14.000	33.38	48.68	392.51	964.76	967.37	967.37
282	14.050	33.46	48.66	389.93	960.82	963.42	963.42
283	14.100	33.54	48.65	387.38	956.90	959.48	959.48
284	14.150	33.61	48.63	384.86	953.00	955.56	955.56
285	14.200	33.69	48.60	382.34	949.11	951.65	951.65
286	14.250	33.76	48.57	379.77	945.24	947.73	947.73
287	14.275	33.79	48.55	376.24	940.89	943.64	943.64
288	14.300	33.83	48.53	372.81	936.54	939.59	939.59
289	14.350	33.90	48.49	369.33	932.20	935.26	935.26
290	14.400	33.96	48.46	365.91	927.87	930.93	930.93
291	14.450	34.03	48.42	362.54	923.54	926.60	926.60
292	14.500	34.09	48.39	359.21	919.22	922.28	922.28
293	14.550	34.15	48.38	355.93	914.90	917.96	917.96
294	14.600	34.20	48.47	352.68	910.59	913.65	913.65
295	14.650	34.26	48.49	349.46	906.28	909.34	909.34
296	14.700	34.32	50.09	346.18	901.97	905.03	905.03
297	14.750	34.37	52.73	342.85	897.66	900.72	900.72
298	14.800	34.42	57.31	339.47	893.35	896.41	896.41
299	14.850	34.47	63.57	336.04	889.04	892.10	892.10
300	14.900	34.52	70.25	332.57	884.73	887.79	887.79
301	14.950	34.56	75.55	329.06	880.42	883.48	883.48
302	15.000	34.61	78.01	325.51	876.11	879.17	879.17
303	15.050	34.69	77.02	322.00	871.80	874.86	874.86
304	15.100	34.69	72.69	318.44	867.49	870.55	870.55
305	15.150	34.73	65.73	314.84	863.18	866.24	866.24
306	15.200	34.77	57.67	311.20	858.87	861.93	861.93
307	15.250	34.81	51.16	307.53	854.56	857.62	857.62
308	15.300	34.85	48.53	303.83	850.25	853.31	853.31
309	15.350	34.88	49.64	300.08	845.94	849.00	849.00
310	15.400	34.92	51.76	296.29	841.63	844.69	844.69
311	15.450	34.95	52.28	292.46	837.32	840.38	840.38
312	15.500	34.99	50.72	288.59	833.01	836.07	836.07
313	15.550	35.02	48.27	284.68	828.70	831.76	831.76
314	15.600	35.05	46.26	280.73	824.39	827.45	827.45
315	15.650	35.08	45.20	276.74	820.08	823.14	823.14
316	15.700	35.11	44.75	272.71	815.77	818.83	818.83
317	15.750	35.14	44.27	268.64	811.46	814.52	814.52
318	15.800	35.16	43.51	264.53	807.15	810.21	810.21
319	15.850	35.19	42.69	260.38	802.84	805.90	805.90
320	15.900	35.21	42.11	256.19	798.53	801.59	801.59
321	15.950	35.24	41.92	251.96	794.22	797.28	797.28
322	16.000	35.26	42.07	247.69	789.91	792.97	792.97
323	16.050	35.29	42.42	243.38	785.60	788.66	788.66
324	16.100	35.31	42.83	239.03	781.29	784.35	784.35
325	16.150	35.33	43.20	234.64	776.98	779.04	779.04
326	16.200	35.35	43.49	230.21	772.67	774.73	774.73
327	16.250	35.37	43.68	225.74	768.36	770.42	770.42
328	16.300	35.39	43.80	221.23	764.05	766.11	766.11
329	16.350	35.41	43.87	216.68	759.74	761.80	761.80
330	16.400	35.43	43.96	212.09	755.43	757.49	757.49
331	16.450	35.45	44.09	207.46	751.12	753.18	753.18
332	16.500	35.46	44.26	202.79	746.81	748.87	748.87
333	16.550	35.48	44.46	198.08	742.50	744.56	744.56
334	16.600	35.50	44.65	193.33	738.19	740.25	740.25
335	16.650	35.51	44.79	188.54	733.88	735.94	735.94
336	16.700	35.53	44.87	183.71	729.57	731.63	731.63
337	16.750	35.54	44.89	178.84	725.26	727.32	727.32
338	16.800	35.56	44.86	173.93	720.95	723.01	723.01
339	16.850	35.57	44.79	168.98	716.64	718.70	718.70
340	16.900	35.59	44.69	163.99	712.33	714.39	714.39
341	16.950	35.60	44.57	158.96	708.02	710.08	710.08
342	17.000	35.61	44.44	153.89	703.71	705.77	705.77
343	17.050	35.62	44.31	148.78	699.40	701.46	701.46
344	17.100	35.64	44.16	143.63	695.09	697.15	697.15
345	17.150	35.65	44.00	138.44	690.78	692.84	692.84
346	17.200	35.66	43.84	133.21	686.47	688.53	688.53
347	17.250	35.67	43.68	127.94	682.16	684.22	684.22
348	17.300	35.68	43.51	122.63	677.85	679.91	679.91
349	17.350	35.69	43.33	117.28	673.54	675.60	675.60
350	17.400	35.70	43.14	111.89	669.23	671.29	671.29
351	17.450	35.71	42.95	106.46	664.92	666.98	666.98
352	17.500	35.72	42.76	100.99	660.61	662.67	662.67
353	17.550	35.73	42.58	95.48	656.30	658.36	658.36
354	17.600	35.73	42.41	89.93	651.99	654.05	654.05
355	17.650	35.74	42.25	84.34	647.68	649.74	649.74
356	17.700	35.75	42.09	78.71	643.37	645.43	645.43
357	17.750	35.76	41.94	73.04	639.06	641.12	641.12
358	17.800	35.77	41.80	67.33	634.75	636.81	636.81
359	17.850	35.77	41.66	61.58	630.44	632.50	632.50
360	17.900	35.78	41.53	55.79	626.13	628.19	628.19

361	17.950	35.79	41.39	223.66	504.91	506.46	506.46
362	18.000	35.79	41.26	222.30	502.64	504.17	504.17
363	18.050	35.80	41.13	220.96	500.36	501.88	501.88
364	18.100	35.81	41.00	219.64	498.11	499.61	499.61
365	18.150	35.81	40.88	218.34	495.85	497.35	497.35
366	18.200	35.82	40.76	217.06	493.62	495.10	495.10
367	18.250	35.82	40.63	215.79	491.40	492.86	492.86
368	18.300	35.83	40.51	214.53	489.19	490.64	490.64
369	18.350	35.84	40.39	213.27	486.99	488.43	488.43
370	18.400	35.84	40.26	212.03	484.79	486.23	486.23
371	18.450	35.85	40.14	210.79	482.61	484.03	484.03
372	18.500	35.85	40.02	209.55	480.44	481.85	481.85
373	18.550	35.86	39.89	208.33	478.28	479.68	479.68
374	18.600	35.86	39.77	207.10	476.14	477.53	477.53
375	18.650	35.86	39.65	205.89	474.00	475.37	475.37
376	18.700	35.87	39.53	204.66	471.87	473.24	473.24
377	18.750	35.87	39.41	203.45	469.75	471.11	471.11
378	18.800	35.88	39.29	202.24	467.65	468.99	468.99
379	18.850	35.88	39.18	201.04	465.55	466.88	466.88
380	18.900	35.88	39.06	199.83	463.46	464.78	464.78
381	18.950	35.89	38.94	198.63	461.38	462.69	462.69
382	19.000	35.89	38.83	197.44	459.31	460.62	460.62
383	19.050	35.89	38.71	196.25	457.26	458.55	458.55
384	19.100	35.90	38.60	195.08	455.20	456.49	456.49
385	19.150	35.90	38.49	193.90	453.17	454.44	454.44
386	19.200	35.90	38.38	192.73	451.14	452.40	452.40
387	19.250	35.91	38.28	191.58	449.12	450.37	450.37
388	19.300	35.91	38.17	190.43	447.11	448.35	448.35
389	19.350	35.91	38.07	189.29	445.11	446.34	446.34
390	19.400	35.92	37.97	188.16	443.12	444.35	444.35
391	19.450	35.92	37.88	187.04	441.14	442.35	442.35
392	19.500	35.92	37.79	185.93	439.17	440.37	440.37
393	19.550	35.92	37.70	184.82	437.21	438.41	438.41
394	19.600	35.93	37.61	183.73	435.26	436.44	436.44
395	19.650	35.93	37.53	182.64	433.32	434.49	434.49
396	19.700	35.93	37.44	181.57	431.38	432.55	432.55
397	19.750	35.93	37.37	180.50	429.47	430.62	430.62
398	19.800	35.94	37.29	179.44	427.55	428.69	428.69
399	19.850	35.94	37.22	178.40	425.65	426.78	426.78
400	19.900	35.94	37.15	177.36	423.75	424.88	424.88
401	19.950	35.94	37.08	176.33	421.86	422.98	422.98
402	20.000	35.94	37.02	175.31	419.99	421.09	421.09
403	20.050	35.94	36.95	174.30	418.12	419.22	419.22
404	20.100	35.95	36.90	173.30	416.26	417.35	417.35
405	20.150	35.95	36.84	172.31	414.40	415.49	415.49
406	20.200	35.95	36.79	171.33	412.56	413.64	413.64
407	20.250	35.95	36.74	170.36	410.73	411.80	411.80
408	20.300	35.95	36.69	169.39	408.91	409.96	409.96
409	20.350	35.95	36.64	168.44	407.09	408.14	408.14
410	20.400	35.96	36.60	167.49	405.28	406.32	406.32
411	20.450	35.96	36.56	166.56	403.48	404.52	404.52
412	20.500	35.96	36.52	165.63	401.70	402.72	402.72
413	20.550	35.96	36.48	164.72	399.91	400.93	400.93
414	20.600	35.96	36.45	163.81	398.14	399.15	399.15
415	20.650	35.96	36.41	162.90	396.38	397.37	397.37
416	20.700	35.96	36.38	162.02	394.62	395.61	395.61
417	20.750	35.96	36.35	161.14	392.87	393.85	393.85
418	20.800	35.97	36.33	160.26	391.13	392.11	392.11
419	20.850	35.97	36.30	159.40	389.40	390.37	390.37
420	20.900	35.97	36.28	158.55	387.68	388.63	388.63
421	20.950	35.97	36.26	157.70	385.96	386.91	386.91
422	21.000	35.97	36.23	156.87	384.25	385.20	385.20
423	21.050	35.97	36.22	156.04	382.56	383.49	383.49
424	21.100	35.97	36.20	155.22	380.86	381.79	381.79
425	21.150	35.97	36.18	154.41	379.17	380.09	380.09
426	21.200	35.97	36.17	153.61	377.49	378.40	378.40
427	21.250	35.97	36.15	152.82	375.82	376.72	376.72
428	21.300	35.98	36.14	152.03	374.15	375.05	375.05
429	21.350	35.98	36.13	151.25	372.49	373.39	373.39
430	21.400	35.98	36.12	150.48	370.84	371.73	371.73
431	21.450	35.98	36.11	149.72	369.19	370.08	370.08
432	21.500	35.98	36.10	148.97	367.55	368.44	368.44
433	21.550	35.98	36.09	148.22	365.91	366.80	366.80
434	21.600	35.98	36.08	147.47	364.29	365.17	365.17
435	21.650	35.98	36.07	146.72	362.66	363.54	363.54
436	21.700	35.98	36.07	145.97	361.05	361.92	361.92
437	21.750	35.98	36.06	145.23	359.44	360.31	360.31
438	21.800	35.98	36.05	144.51	357.84	358.70	358.70
439	21.850	35.98	36.05	143.81	356.24	357.11	357.11
440	21.900	35.98	36.04	143.13	354.66	355.52	355.52
441	21.950	35.98	36.04	142.46	353.08	353.93	353.93
442	22.000	35.98	36.04	141.81	351.51	352.35	352.35
443	22.050	35.98	36.03	141.18	349.94	350.78	350.78
444	22.100	35.99	36.03	140.56	348.38	349.22	349.22
445	22.150	35.99	36.03	139.97	346.83	347.67	347.67
446	22.200	35.99	36.02	139.38	345.29	346.12	346.12
447	22.250	35.99	36.02	138.81	343.74	344.57	344.57
448	22.300	35.99	36.02	138.26	342.21	343.03	343.03
449	22.350	35.99	36.02	137.72	340.68	341.50	341.50
450	22.400	35.99	36.01	137.19	339.16	339.98	339.98
451	22.450	35.99	36.01	136.68	337.64	338.46	338.46
452	22.500	35.99	36.01	136.18	336.12	336.94	336.94
453	22.550	35.99	36.01	135.69	334.62	335.43	335.43
454	22.600	35.99	36.01	135.23	333.11	333.92	333.92
455	22.650	35.99	36.01	134.78	331.61	332.42	332.42

456	22.700	35.99	36.01	134.34	330.12	330.92	330.92
457	22.750	35.99	36.01	133.92	328.63	329.43	329.43
458	22.800	35.99	36.00	133.52	327.14	327.94	327.94
459	22.850	35.99	36.00	133.13	325.66	326.45	326.45
460	22.900	35.99	36.00	132.77	324.18	324.97	324.97
461	22.950	35.99	36.00	132.42	322.69	323.49	323.49
462	23.000	35.99	36.00	132.09	321.22	322.01	322.01
463	23.050	35.99	36.00	131.78	319.74	320.53	320.53
464	23.100	35.99	36.00	131.49	318.27	319.05	319.05
465	23.150	35.99	36.00	131.23	316.80	317.58	317.58
466	23.200	35.99	36.00	130.99	315.33	316.12	316.12
467	23.250	35.99	36.00	130.78	313.86	314.65	314.65
468	23.300	35.99	36.00	130.60	312.39	313.17	313.17
469	23.350	35.99	36.00	130.44	310.91	311.70	311.70
470	23.400	35.99	36.00	130.32	309.44	310.22	310.22
471	23.450	35.99	36.00	130.23	307.96	308.75	308.75
472	23.500	35.99	36.00	130.17	306.49	307.27	307.27
473	23.550	35.99	36.00	130.16	305.01	305.80	305.80
474	23.600	35.99	36.00	130.18	303.53	304.32	304.32
475	23.650	35.99	36.00	130.25	302.04	302.83	302.83
476	23.700	35.99	36.00	130.35	300.55	301.34	301.34
477	23.750	36.00	36.00	130.50	299.05	299.84	299.84
478	23.800	36.00	36.00	130.69	297.54	298.34	298.34
479	23.850	36.00	36.00	130.94	296.03	296.83	296.83
480	23.900	36.00	36.00	131.23	294.51	295.31	295.31
481	23.950	36.00	36.00	131.57	292.98	293.79	293.79
482	24.000	36.00	36.00	131.96	291.43	292.25	292.25
483	24.050	36.00	36.00	132.40	289.89	290.71	290.71
484	24.100	36.00	36.00	132.87	288.33	289.15	289.15
485	24.150	36.00	36.00	133.39	286.76	287.59	287.59
486	24.200	36.00	36.00	133.92	285.18	286.02	286.02
487	24.250	36.00	36.00	134.47	283.59	284.43	284.43
488	24.300	36.00	36.00	135.01	281.99	282.83	282.83
489	24.350	36.00	36.00	135.51	280.37	281.21	281.21
490	24.400	36.00	36.00	135.95	278.72	279.56	279.56
491	24.450	36.00	36.00	136.36	277.09	277.94	277.94
492	24.500	36.00	36.00	136.75	275.48	276.34	276.34
493	24.550	36.00	36.00	137.10	273.85	274.71	274.71
494	24.600	36.00	36.00	137.38	272.22	273.08	273.08
495	24.650	36.00	36.00	137.63	270.57	271.43	271.43
496	24.700	36.00	36.00	137.83	268.91	269.78	269.78
497	24.750	36.00	36.00	137.99	267.25	268.12	268.12
498	24.800	36.00	36.00	138.11	265.59	266.46	266.46
499	24.850	36.00	36.00	138.20	263.92	264.79	264.79
500	24.900	36.00	36.00	138.25	262.24	263.12	263.12
501	24.950	36.00	36.00	138.26	260.57	261.45	261.45
502	25.000	36.00	36.00	138.25	258.89	259.77	259.77
503	25.050	36.00	36.00	138.20	257.21	258.09	258.09
504	25.100	36.00	36.00	138.12	255.53	256.41	256.41
505	25.150	36.00	36.00	138.01	253.85	254.73	254.73
506	25.200	36.00	36.00	137.88	252.16	253.05	253.05
507	25.250	36.00	36.00	137.71	250.48	251.36	251.36
508	25.300	36.00	36.00	137.52	248.80	249.68	249.68
509	25.350	36.00	36.00	137.30	247.11	247.99	247.99
510	25.400	36.00	36.00	137.06	245.43	246.31	246.31
511	25.450	36.00	36.00	136.80	243.75	244.63	244.63
512	25.500	36.00	36.00	136.51	242.07	242.95	242.95
513	25.550	36.00	36.00	136.19	240.39	241.27	241.27
514	25.600	36.00	36.00	135.86	238.71	239.59	239.59
515	25.650	36.00	36.00	135.51	237.04	237.91	237.91
516	25.700	36.00	36.00	135.14	235.37	236.24	236.24
517	25.750	36.00	36.00	134.75	233.70	234.57	234.57
518	25.800	36.00	36.00	134.30	231.99	232.85	232.85
519	25.850	36.00	36.00	133.86	230.34	231.21	231.21
520	25.900	36.00	36.00	133.42	228.66	229.51	229.51
521	25.950	36.00	36.00	132.96	227.03	227.90	227.90
522	26.000	36.00	36.00	132.48	225.36	226.20	226.20
523	26.050	36.00	36.00	131.96	223.68	224.54	224.54
524	26.100	36.00	36.00	131.44	222.04	222.89	222.89
525	26.150	36.00	36.00	130.93	220.40	221.25	221.25
526	26.200	36.00	36.00	130.39	218.78	219.62	219.62
527	26.250	36.00	36.00	129.85	217.15	217.99	217.99
528	26.300	36.00	36.00	129.29	215.53	216.37	216.37
529	26.350	36.00	36.00	128.73	213.92	214.75	214.75
530	26.400	36.00	36.00	128.15	212.31	213.14	213.14
531	26.450	36.00	36.00	127.57	210.71	211.54	211.54
532	26.500	36.00	36.00	126.97	209.12	209.94	209.94
533	26.550	36.00	36.00	126.37	207.53	208.35	208.35
534	26.600	36.00	36.00	125.75	205.95	206.76	206.76
535	26.650	36.00	36.00	125.13	204.38	205.19	205.19
536	26.700	36.00	36.00	124.50	202.81	203.61	203.61
537	26.750	36.00	36.00	123.86	201.25	202.05	202.05
538	26.800	36.00	36.00	123.17	199.65	200.43	200.43
539	26.850	36.00	36.00	122.51	198.12	198.92	198.92
540	26.900	36.00	36.00	121.85	196.56	197.33	197.33
541	26.950	36.00	36.00	121.18	195.04	195.84	195.84
542	27.000	36.00	36.00	120.51	193.49	194.26	194.26
543	27.050	36.00	36.00	119.82	191.99	192.78	192.78
544	27.100	36.00	36.00	119.14	190.46	191.22	191.22
545	27.150	36.00	36.00	118.45	188.97	189.75	189.75
546	27.200	36.00	36.00	117.75	187.46	188.21	188.21
547	27.250	36.00	36.00	117.03	185.94	186.71	186.71
548	27.300	36.00	36.00	116.32	184.47	185.22	185.22
549	27.350	36.00	36.00	115.62	182.99	183.74	183.74
550	27.400	36.00	36.00	114.91	181.53	182.28	182.28

551	27.450	36.00	36.00	114.20	180.08	180.82	180.82
552	27.500	36.00	36.00	113.49	178.63	179.37	179.37
553	27.550	36.00	36.00	112.81	177.24	177.97	177.97
554	27.600	36.00	36.00	112.09	175.79	176.50	176.50
555	27.650	36.00	36.00	111.37	174.38	175.11	175.11
556	27.700	36.00	36.00	110.65	172.96	173.66	173.66
557	27.750	36.00	36.00	109.93	171.57	172.29	172.29
558	27.800	36.00	36.00	109.23	170.20	170.90	170.90
559	27.850	36.00	36.00	108.51	168.81	169.51	169.51
560	27.900	36.00	36.00	107.79	167.44	168.13	168.13
561	27.950	36.00	36.00	107.07	166.07	166.75	166.75
562	28.000	36.00	36.00	106.35	164.71	165.39	165.39
563	28.050	36.00	36.00	105.63	163.37	164.04	164.04
564	28.100	36.00	36.00	104.91	162.03	162.70	162.70
565	28.150	36.00	36.00	104.19	160.70	161.37	161.37
566	28.200	36.00	36.00	103.47	159.39	160.05	160.05
567	28.250	36.00	36.00	102.76	158.08	158.74	158.74
568	28.300	36.00	36.00	102.05	156.79	157.43	157.43
569	28.350	36.00	36.00	101.34	155.50	156.14	156.14
570	28.400	36.00	36.00	100.63	154.22	154.86	154.86
571	28.450	36.00	36.00	99.92	152.96	153.59	153.59
572	28.500	36.00	36.00	99.22	151.70	152.33	152.33
573	28.550	36.00	36.00	98.52	150.46	151.08	151.08
574	28.600	36.00	36.00	97.82	149.22	149.84	149.84
575	28.650	36.00	36.00	97.13	148.00	148.61	148.61
576	28.700	36.00	36.00	96.44	146.78	147.39	147.39
577	28.750	36.00	36.00	95.75	145.58	146.18	146.18
578	28.800	36.00	36.00	95.06	144.39	144.98	144.98
579	28.850	36.00	36.00	94.38	143.20	143.79	143.79
580	28.900	36.00	36.00	93.70	142.03	142.62	142.62
581	28.950	36.00	36.00	93.03	140.87	141.45	141.45
582	29.000	36.00	36.00	92.36	139.71	140.29	140.29
583	29.050	36.00	36.00	91.71	138.59	139.17	139.17
584	29.100	36.00	36.00	91.05	137.45	138.00	138.00
585	29.150	36.00	36.00	90.39	136.33	136.90	136.90
586	29.200	36.00	36.00	89.74	135.23	135.78	135.78
587	29.250	36.00	36.00	89.09	134.12	134.67	134.67
588	29.300	36.00	36.00	88.44	133.03	133.57	133.57
589	29.350	36.00	36.00	87.80	131.95	132.48	132.48
590	29.400	36.00	36.00	87.16	130.87	131.40	131.40
591	29.450	36.00	36.00	86.52	129.81	130.33	130.33
592	29.500	36.00	36.00	85.89	128.75	129.28	129.28
593	29.550	36.00	36.00	85.26	127.71	128.23	128.23
594	29.600	36.00	36.00	84.64	126.68	127.19	127.19
595	29.650	36.00	36.00	84.03	125.65	126.16	126.16
596	29.700	36.00	36.00	83.41	124.64	125.14	125.14
597	29.750	36.00	36.00	82.81	123.63	124.13	124.13
598	29.800	36.00	36.00	82.21	122.64	123.13	123.13
599	29.850	36.00	36.00	81.61	121.65	122.14	122.14
600	29.900	36.00	36.00	81.02	120.68	121.16	121.16
601	29.950	36.00	36.00	80.43	119.71	120.19	120.19
602	30.000	36.00	36.00	79.84	118.76	119.23	119.23
603	30.050	36.00	36.00	79.27	117.81	118.28	118.28
604	30.100	36.00	36.00	78.69	116.88	117.34	117.34
605	30.150	36.00	36.00	78.13	115.95	116.41	116.41
606	30.200	36.00	36.00	77.57	115.03	115.48	115.48
607	30.250	36.00	36.00	77.01	114.12	114.57	114.57
608	30.300	36.00	36.00	76.46	113.23	113.67	113.67
609	30.350	36.00	36.00	75.91	112.34	112.77	112.77
610	30.400	36.00	36.00	75.37	111.46	111.89	111.89
611	30.450	36.00	36.00	74.83	110.59	111.02	111.02
612	30.500	36.00	36.00	74.30	109.73	110.15	110.15
613	30.550	36.00	36.00	73.77	108.88	109.29	109.29
614	30.600	36.00	36.00	73.25	108.03	108.45	108.45
615	30.650	36.00	36.00	72.74	107.20	107.61	107.61
616	30.700	36.00	36.00	72.23	106.37	106.78	106.78
617	30.750	36.00	36.00	71.72	105.54	105.96	105.96
618	30.800	36.00	36.00	71.22	104.75	105.15	105.15
619	30.850	36.00	36.00	70.73	103.95	104.34	104.34
620	30.900	36.00	36.00	70.24	103.16	103.55	103.55
621	30.950	36.00	36.00	69.75	102.38	102.76	102.76
622	31.000	36.00	36.00	69.27	101.61	101.99	101.99
623	31.050	36.00	36.00	68.80	100.85	101.22	101.22
624	31.100	36.00	36.00	68.33	100.09	100.46	100.46
625	31.150	36.00	36.00	67.86	99.34	99.71	99.71
626	31.200	36.00	36.00	67.41	98.61	98.97	98.97
627	31.250	36.00	36.00	66.95	97.89	98.23	98.23
628	31.300	36.00	36.00	66.50	97.15	97.51	97.51
629	31.350	36.00	36.00	66.06	96.44	96.79	96.79
630	31.400	36.00	36.00	65.62	95.74	96.08	96.08
631	31.450	36.00	36.00	65.19	95.04	95.38	95.38
632	31.500	36.00	36.00	64.76	94.35	94.68	94.68
633	31.550	36.00	36.00	64.33	93.67	94.00	94.00
634	31.600	36.00	36.00	63.91	92.99	93.32	93.32
635	31.650	36.00	36.00	63.50	92.33	92.65	92.65
636	31.700	36.00	36.00	63.09	91.67	91.99	91.99
637	31.750	36.00	36.00	62.69	91.02	91.34	91.34
638	31.800	36.00	36.00	62.29	90.38	90.69	90.69
639	31.850	36.00	36.00	61.89	89.74	90.05	90.05
640	31.900	36.00	36.00	61.51	89.12	89.42	89.42
641	31.950	36.00	36.00	61.12	88.50	88.80	88.80
642	32.000	36.00	36.00	60.74	87.88	88.18	88.18
643	32.050	36.00	36.00	60.37	87.28	87.57	87.57
644	32.100	36.00	36.00	60.00	86.68	86.97	86.97
645	32.150	36.00	36.00	59.63	86.09	86.38	86.38

646	32.200	36.00	36.00	59.27	85.51	85.79	85.79
647	32.250	36.00	36.00	58.91	84.93	85.21	85.21
648	32.300	36.00	36.00	58.56	84.36	84.64	84.64
649	32.350	36.00	36.00	58.22	83.80	84.07	84.07
650	32.400	36.00	36.00	57.87	83.24	83.51	83.51
651	32.450	36.00	36.00	57.53	82.69	82.96	82.96
652	32.500	36.00	36.00	57.20	82.15	82.42	82.42
653	32.550	36.00	36.00	56.87	81.62	81.88	81.88
654	32.600	36.00	36.00	56.55	81.09	81.34	81.34
655	32.650	36.00	36.00	56.23	80.57	80.82	80.82
656	32.700	36.00	36.00	55.91	80.05	80.30	80.30
657	32.750	36.00	36.00	55.60	79.54	79.79	79.79
658	32.800	36.00	36.00	55.29	79.04	79.28	79.28
659	32.850	36.00	36.00	54.99	78.54	78.78	78.78
660	32.900	36.00	36.00	54.69	78.05	78.29	78.29
661	32.950	36.00	36.00	54.40	77.57	77.80	77.80
662	33.000	36.00	36.00	54.11	77.09	77.32	77.32
663	33.050	36.00	36.00	53.82	76.62	76.85	76.85
664	33.100	36.00	36.00	53.54	76.16	76.38	76.38
665	33.150	36.00	36.00	53.26	75.70	75.92	75.92
666	33.200	36.00	36.00	52.98	75.24	75.46	75.46
667	33.250	36.00	36.00	52.71	74.80	75.01	75.01
668	33.300	36.00	36.00	52.45	74.36	74.57	74.57
669	33.350	36.00	36.00	52.19	73.92	74.13	74.13
670	33.400	36.00	36.00	51.93	73.49	73.70	73.70
671	33.450	36.00	36.00	51.67	73.06	73.27	73.27
672	33.500	36.00	36.00	51.42	72.64	72.85	72.85
673	33.550	36.00	36.00	51.17	72.23	72.43	72.43
674	33.600	36.00	36.00	50.93	71.82	72.02	72.02
675	33.650	36.00	36.00	50.69	71.42	71.61	71.61
676	33.700	36.00	36.00	50.45	71.02	71.21	71.21
677	33.750	36.00	36.00	50.22	70.63	70.82	70.82
678	33.800	36.00	36.00	49.99	70.24	70.43	70.43
679	33.850	36.00	36.00	49.77	69.86	70.04	70.04
680	33.900	36.00	36.00	49.55	69.48	69.67	69.67
681	33.950	36.00	36.00	49.33	69.11	69.29	69.29
682	34.000	36.00	36.00	49.11	68.74	68.92	68.92
683	34.050	36.00	36.00	48.90	68.38	68.56	68.56
684	34.100	36.00	36.00	48.69	68.02	68.20	68.20
685	34.150	36.00	36.00	48.49	67.67	67.84	67.84
686	34.200	36.00	36.00	48.29	67.32	67.49	67.49
687	34.250	36.00	36.00	48.09	66.98	67.15	67.15
688	34.300	36.00	36.00	47.89	66.64	66.81	66.81
689	34.350	36.00	36.00	47.70	66.31	66.47	66.47
690	34.400	36.00	36.00	47.51	65.98	66.14	66.14
691	34.450	36.00	36.00	47.32	65.65	65.81	65.81
692	34.500	36.00	36.00	47.14	65.33	65.49	65.49
693	34.550	36.00	36.00	46.96	65.02	65.17	65.17
694	34.600	36.00	36.00	46.78	64.70	64.86	64.86
695	34.650	36.00	36.00	46.61	64.40	64.55	64.55
696	34.700	36.00	36.00	46.44	64.09	64.24	64.24
697	34.750	36.00	36.00	46.27	63.79	63.94	63.94
698	34.800	36.00	36.00	46.10	63.50	63.64	63.64
699	34.850	36.00	36.00	45.94	63.21	63.35	63.35
700	34.900	36.00	36.00	45.78	62.92	63.06	63.06
701	34.950	36.00	36.00	45.62	62.64	62.77	62.77
702	35.000	36.00	36.00	45.46	62.36	62.49	62.49
703	35.050	36.00	36.00	45.31	62.08	62.21	62.21
704	35.100	36.00	36.00	45.16	61.81	61.94	61.94
705	35.150	36.00	36.00	45.01	61.54	61.67	61.67
706	35.200	36.00	36.00	44.87	61.28	61.40	61.40
707	35.250	36.00	36.00	44.73	61.01	61.14	61.14
708	35.300	36.00	36.00	44.59	60.76	60.88	60.88
709	35.350	36.00	36.00	44.45	60.50	60.62	60.62
710	35.400	36.00	36.00	44.31	60.25	60.37	60.37
711	35.450	36.00	36.00	44.18	60.00	60.12	60.12
712	35.500	36.00	36.00	44.05	59.76	59.88	59.88
713	35.550	36.00	36.00	43.92	59.52	59.64	59.64
714	35.600	36.00	36.00	43.79	59.28	59.40	59.40
715	35.650	36.00	36.00	43.67	59.05	59.16	59.16
716	35.700	36.00	36.00	43.55	58.82	58.93	58.93
717	35.750	36.00	36.00	43.43	58.59	58.70	58.70
718	35.800	36.00	36.00	43.31	58.37	58.47	58.47
719	35.850	36.00	36.00	43.19	58.14	58.25	58.25
720	35.900	36.00	36.00	43.08	57.93	58.03	58.03
721	35.950	36.00	36.00	42.97	57.71	57.81	57.81
722	36.000	36.00	36.00	42.86	57.50	57.60	57.60
723	36.050	36.00	36.00	42.75	57.29	57.39	57.39
724	36.100	36.00	36.00	42.64	57.08	57.18	57.18
725	36.150	36.00	36.00	42.54	56.88	56.98	56.98
726	36.200	36.00	36.00	42.44	56.68	56.77	56.77
727	36.250	36.00	36.00	42.34	56.48	56.57	56.57
728	36.300	36.00	36.00	42.24	56.28	56.38	56.38
729	36.350	36.00	36.00	42.14	56.09	56.18	56.18
730	36.400	36.00	36.00	42.05	55.90	55.99	55.99
731	36.450	36.00	36.00	41.95	55.71	55.80	55.80
732	36.500	36.00	36.00	41.86	55.52	55.61	55.61
733	36.550	36.00	36.00	41.77	55.34	55.43	55.43
734	36.600	36.00	36.00	41.68	55.16	55.25	55.25
735	36.650	36.00	36.00	41.59	54.98	55.07	55.07
736	36.700	36.00	36.00	41.51	54.80	54.89	54.89
737	36.750	36.00	36.00	41.42	54.63	54.72	54.72
738	36.800	36.00	36.00	41.34	54.46	54.54	54.54
739	36.850	36.00	36.00	41.26	54.29	54.37	54.37
740	36.900	36.00	36.00	41.18	54.12	54.20	54.20

741	36.950	36.00	36.00	41.10	53.96	54.04	54.04
742	37.000	36.00	36.00	41.03	53.80	53.88	53.88
743	37.050	36.00	36.00	40.95	53.64	53.71	53.71
744	37.100	36.00	36.00	40.88	53.48	53.55	53.55
745	37.150	36.00	36.00	40.80	53.32	53.40	53.40
746	37.200	36.00	36.00	40.73	53.17	53.24	53.24
747	37.250	36.00	36.00	40.66	53.02	53.09	53.09
748	37.300	36.00	36.00	40.59	52.87	52.94	52.94
749	37.350	36.00	36.00	40.53	52.72	52.79	52.79
750	37.400	36.00	36.00	40.46	52.57	52.64	52.64
751	37.450	36.00	36.00	40.39	52.43	52.50	52.50
752	37.500	36.00	36.00	40.33	52.29	52.35	52.35
753	37.550	36.00	36.00	40.27	52.14	52.21	52.21
754	37.600	36.00	36.00	40.21	52.01	52.07	52.07
755	37.650	36.00	36.00	40.14	51.87	51.93	51.93
756	37.700	36.00	36.00	40.08	51.73	51.80	51.80
757	37.750	36.00	36.00	40.03	51.60	51.66	51.66
758	37.800	36.00	36.00	39.97	51.47	51.53	51.53
759	37.850	36.00	36.00	39.91	51.34	51.40	51.40
760	37.900	36.00	36.00	39.86	51.21	51.27	51.27
761	37.950	36.00	36.00	39.80	51.08	51.14	51.14
762	38.000	36.00	36.00	39.75	50.96	51.02	51.02
763	38.050	36.00	36.00	39.70	50.83	50.89	50.89
764	38.100	36.00	36.00	39.64	50.71	50.77	50.77
765	38.150	36.00	36.00	39.59	50.59	50.65	50.65
766	38.200	36.00	36.00	39.54	50.47	50.53	50.53
767	38.250	36.00	36.00	39.49	50.35	50.41	50.41
768	38.300	36.00	36.00	39.45	50.23	50.29	50.29
769	38.350	36.00	36.00	39.40	50.12	50.18	50.18
770	38.400	36.00	36.00	39.35	50.01	50.06	50.06
771	38.450	36.00	36.00	39.31	49.89	49.95	49.95
772	38.500	36.00	36.00	39.26	49.78	49.84	49.84
773	38.550	36.00	36.00	39.22	49.67	49.73	49.73
774	38.600	36.00	36.00	39.17	49.57	49.62	49.62
775	38.650	36.00	36.00	39.13	49.46	49.51	49.51
776	38.700	36.00	36.00	39.09	49.35	49.40	49.40
777	38.750	36.00	36.00	39.05	49.25	49.30	49.30
778	38.800	36.00	36.00	39.01	49.15	49.20	49.20
779	38.850	36.00	36.00	38.97	49.04	49.09	49.09
780	38.900	36.00	36.00	38.93	48.94	48.99	48.99
781	38.950	36.00	36.00	38.89	48.84	48.89	48.89
782	39.000	36.00	36.00	38.85	48.74	48.79	48.79
783	39.050	36.00	36.00	38.82	48.65	48.69	48.69
784	39.100	36.00	36.00	38.78	48.55	48.60	48.60
785	39.150	36.00	36.00	38.74	48.46	48.50	48.50
786	39.200	36.00	36.00	38.71	48.36	48.41	48.41
787	39.250	36.00	36.00	38.68	48.27	48.31	48.31
788	39.300	36.00	36.00	38.64	48.18	48.22	48.22
789	39.350	36.00	36.00	38.61	48.09	48.13	48.13
790	39.400	36.00	36.00	38.57	48.00	48.04	48.04
791	39.450	36.00	36.00	38.54	47.91	47.95	47.95
792	39.500	36.00	36.00	38.51	47.82	47.86	47.86
793	39.550	36.00	36.00	38.48	47.73	47.78	47.78
794	39.600	36.00	36.00	38.45	47.65	47.69	47.69
795	39.650	36.00	36.00	38.42	47.56	47.60	47.60
796	39.700	36.00	36.00	38.39	47.48	47.52	47.52
797	39.750	36.00	36.00	38.36	47.40	47.44	47.44
798	39.800	36.00	36.00	38.33	47.32	47.35	47.35
799	39.850	36.00	36.00	38.30	47.23	47.27	47.27
800	39.900	36.00	36.00	38.28	47.15	47.19	47.19
801	39.950	36.00	36.00	38.25	47.07	47.11	47.11
802	40.000	36.00	36.00	38.22	47.00	47.03	47.03
803	40.050	36.00	36.00	38.20	46.92	46.96	46.96
804	40.100	36.00	36.00	38.17	46.84	46.88	46.88
805	40.150	36.00	36.00	38.14	46.76	46.80	46.80
806	40.200	36.00	36.00	38.12	46.69	46.73	46.73
807	40.250	36.00	36.00	38.09	46.62	46.65	46.65
808	40.300	36.00	36.00	38.07	46.54	46.58	46.58
809	40.350	36.00	36.00	38.04	46.47	46.50	46.50
810	40.400	36.00	36.00	38.02	46.40	46.43	46.43
811	40.450	36.00	36.00	38.00	46.33	46.36	46.36
812	40.500	36.00	36.00	37.98	46.25	46.29	46.29
813	40.550	36.00	36.00	37.95	46.18	46.22	46.22
814	40.600	36.00	36.00	37.93	46.12	46.15	46.15
815	40.650	36.00	36.00	37.91	46.05	46.08	46.08
816	40.700	36.00	36.00	37.89	45.98	46.01	46.01
817	40.750	36.00	36.00	37.87	45.91	45.94	45.94
818	40.800	36.00	36.00	37.85	45.85	45.88	45.88
819	40.850	36.00	36.00	37.83	45.78	45.81	45.81
820	40.900	36.00	36.00	37.81	45.71	45.75	45.75
821	40.950	36.00	36.00	37.79	45.65	45.68	45.68
822	41.000	36.00	36.00	37.77	45.59	45.62	45.62
823	41.050	36.00	36.00	37.75	45.52	45.55	45.55
824	41.100	36.00	36.00	37.73	45.46	45.49	45.49
825	41.150	36.00	36.00	37.71	45.40	45.43	45.43
826	41.200	36.00	36.00	37.69	45.34	45.37	45.37
827	41.250	36.00	36.00	37.67	45.28	45.31	45.31
828	41.300	36.00	36.00	37.66	45.22	45.25	45.25
829	41.350	36.00	36.00	37.64	45.16	45.19	45.19
830	41.400	36.00	36.00	37.62	45.10	45.13	45.13
831	41.450	36.00	36.00	37.60	45.04	45.07	45.07
832	41.500	36.00	36.00	37.59	44.98	45.01	45.01
833	41.550	36.00	36.00	37.57	44.93	44.95	44.95
834	41.600	36.00	36.00	37.55	44.87	44.90	44.90
835	41.650	36.00	36.00	37.54	44.81	44.84	44.84

836	41.700	36.00	36.00	37.52	44.76	44.78	44.78
837	41.750	36.00	36.00	37.51	44.70	44.73	44.73
838	41.800	36.00	36.00	37.49	44.65	44.67	44.67
839	41.850	36.00	36.00	37.48	44.59	44.62	44.62
840	41.900	36.00	36.00	37.46	44.54	44.56	44.56
841	41.950	36.00	36.00	37.45	44.49	44.51	44.51
842	42.000	36.00	36.00	37.43	44.43	44.46	44.46
843	42.050	36.00	36.00	37.42	44.38	44.41	44.41
844	42.100	36.00	36.00	37.40	44.33	44.35	44.35
845	42.150	36.00	36.00	37.39	44.28	44.30	44.30
846	42.200	36.00	36.00	37.38	44.23	44.25	44.25
847	42.250	36.00	36.00	37.36	44.18	44.20	44.20
848	42.300	36.00	36.00	37.35	44.13	44.15	44.15
849	42.350	36.00	36.00	37.34	44.08	44.10	44.10
850	42.400	36.00	36.00	37.32	44.03	44.05	44.05
851	42.450	36.00	36.00	37.31	43.98	44.00	44.00
852	42.500	36.00	36.00	37.30	43.93	43.95	43.95
853	42.550	36.00	36.00	37.29	43.88	43.91	43.91
854	42.600	36.00	36.00	37.27	43.84	43.86	43.86
855	42.650	36.00	36.00	37.26	43.79	43.81	43.81
856	42.700	36.00	36.00	37.25	43.74	43.77	43.77
857	42.750	36.00	36.00	37.24	43.70	43.72	43.72
858	42.800	36.00	36.00	37.23	43.65	43.67	43.67
859	42.850	36.00	36.00	37.21	43.61	43.63	43.63
860	42.900	36.00	36.00	37.20	43.56	43.58	43.58
861	42.950	36.00	36.00	37.19	43.52	43.54	43.54
862	43.000	36.00	36.00	37.18	43.47	43.49	43.49
863	43.050	36.00	36.00	37.17	43.43	43.45	43.45
864	43.100	36.00	36.00	37.16	43.39	43.41	43.41
865	43.150	36.00	36.00	37.15	43.34	43.36	43.36
866	43.200	36.00	36.00	37.14	43.30	43.32	43.32
867	43.250	36.00	36.00	37.13	43.26	43.28	43.28
868	43.300	36.00	36.00	37.12	43.22	43.24	43.24
869	43.350	36.00	36.00	37.11	43.17	43.19	43.19
870	43.400	36.00	36.00	37.10	43.13	43.15	43.15
871	43.450	36.00	36.00	37.09	43.09	43.11	43.11
872	43.500	36.00	36.00	37.08	43.05	43.07	43.07
873	43.550	36.00	36.00	37.07	43.01	43.03	43.03
874	43.600	36.00	36.00	37.06	42.97	42.99	42.99
875	43.650	36.00	36.00	37.05	42.93	42.95	42.95
876	43.700	36.00	36.00	37.04	42.89	42.91	42.91
877	43.750	36.00	36.00	37.03	42.85	42.87	42.87
878	43.800	36.00	36.00	37.02	42.82	42.83	42.83
879	43.850	36.00	36.00	37.01	42.78	42.80	42.80
880	43.900	36.00	36.00	37.00	42.74	42.76	42.76
881	43.950	36.00	36.00	37.00	42.70	42.72	42.72
882	44.000	36.00	36.00	36.99	42.66	42.68	42.68
883	44.050	36.00	36.00	36.98	42.63	42.64	42.64
884	44.100	36.00	36.00	36.97	42.59	42.61	42.61
885	44.150	36.00	36.00	36.96	42.55	42.57	42.57
886	44.200	36.00	36.00	36.95	42.52	42.53	42.53
887	44.250	36.00	36.00	36.95	42.48	42.50	42.50
888	44.300	36.00	36.00	36.94	42.45	42.46	42.46
889	44.350	36.00	36.00	36.93	42.41	42.43	42.43
890	44.400	36.00	36.00	36.92	42.38	42.39	42.39
891	44.450	36.00	36.00	36.92	42.34	42.36	42.36
892	44.500	36.00	36.00	36.91	42.31	42.32	42.32
893	44.550	36.00	36.00	36.90	42.27	42.29	42.29
894	44.600	36.00	36.00	36.89	42.24	42.25	42.25
895	44.650	36.00	36.00	36.89	42.20	42.22	42.22
896	44.700	36.00	36.00	36.88	42.17	42.19	42.19
897	44.750	36.00	36.00	36.87	42.14	42.15	42.15
898	44.800	36.00	36.00	36.86	42.10	42.12	42.12
899	44.850	36.00	36.00	36.86	42.07	42.09	42.09
900	44.900	36.00	36.00	36.85	42.04	42.05	42.05
901	44.950	36.00	36.00	36.84	42.01	42.02	42.02
902	45.000	36.00	36.00	36.84	41.97	41.99	41.99
903	45.050	36.00	36.00	36.83	41.94	41.96	41.96
904	45.100	36.00	36.00	36.82	41.91	41.93	41.93
905	45.150	36.00	36.00	36.82	41.88	41.89	41.89
906	45.200	36.00	36.00	36.81	41.85	41.86	41.86
907	45.250	36.00	36.00	36.80	41.82	41.83	41.83
908	45.300	36.00	36.00	36.80	41.79	41.80	41.80
909	45.350	36.00	36.00	36.79	41.76	41.77	41.77
910	45.400	36.00	36.00	36.78	41.73	41.74	41.74
911	45.450	36.00	36.00	36.78	41.70	41.71	41.71
912	45.500	36.00	36.00	36.77	41.67	41.68	41.68
913	45.550	36.00	36.00	36.77	41.64	41.65	41.65
914	45.600	36.00	36.00	36.76	41.61	41.62	41.62
915	45.650	36.00	36.00	36.75	41.58	41.59	41.59
916	45.700	36.00	36.00	36.75	41.55	41.56	41.56
917	45.750	36.00	36.00	36.74	41.52	41.54	41.54
918	45.800	36.00	36.00	36.74	41.49	41.51	41.51
919	45.850	36.00	36.00	36.73	41.46	41.48	41.48
920	45.900	36.00	36.00	36.73	41.44	41.45	41.45
921	45.950	36.00	36.00	36.72	41.41	41.42	41.42
922	46.000	36.00	36.00	36.71	41.38	41.39	41.39
923	46.050	36.00	36.00	36.71	41.35	41.37	41.37
924	46.100	36.00	36.00	36.70	41.33	41.34	41.34
925	46.150	36.00	36.00	36.70	41.30	41.31	41.31
926	46.200	36.00	36.00	36.69	41.27	41.29	41.29
927	46.250	36.00	36.00	36.69	41.25	41.26	41.26
928	46.300	36.00	36.00	36.68	41.22	41.23	41.23
929	46.350	36.00	36.00	36.68	41.19	41.21	41.21
930	46.400	36.00	36.00	36.67	41.17	41.18	41.18

931	46.450	36.00	36.00	36.67	41.14	41.15	41.15
932	46.500	36.00	36.00	36.66	41.12	41.13	41.13
933	46.550	36.00	36.00	36.66	41.09	41.10	41.10
934	46.600	36.00	36.00	36.65	41.06	41.08	41.08
935	46.650	36.00	36.00	36.65	41.04	41.05	41.05
936	46.700	36.00	36.00	36.64	41.01	41.03	41.03
937	46.750	36.00	36.00	36.64	40.99	41.00	41.00
938	46.800	36.00	36.00	36.63	40.96	40.98	40.98
939	46.850	36.00	36.00	36.63	40.94	40.95	40.95
940	46.900	36.00	36.00	36.62	40.92	40.93	40.93
941	46.950	36.00	36.00	36.62	40.89	40.90	40.90
942	47.000	36.00	36.00	36.62	40.87	40.88	40.88
943	47.050	36.00	36.00	36.61	40.84	40.85	40.85
944	47.100	36.00	36.00	36.61	40.82	40.83	40.83
945	47.150	36.00	36.00	36.60	40.80	40.81	40.81
946	47.200	36.00	36.00	36.60	40.77	40.78	40.78
947	47.250	36.00	36.00	36.60	40.75	40.76	40.76
948	47.300	36.00	36.00	36.59	40.73	40.74	40.74
949	47.350	36.00	36.00	36.59	40.70	40.71	40.71
950	47.400	36.00	36.00	36.58	40.68	40.69	40.69
951	47.450	36.00	36.00	36.58	40.66	40.67	40.67
952	47.500	36.00	36.00	36.57	40.64	40.65	40.65
953	47.550	36.00	36.00	36.57	40.61	40.62	40.62
954	47.600	36.00	36.00	36.57	40.59	40.60	40.60
955	47.650	36.00	36.00	36.56	40.57	40.58	40.58
956	47.700	36.00	36.00	36.56	40.55	40.56	40.56
957	47.750	36.00	36.00	36.55	40.52	40.54	40.54
958	47.800	36.00	36.00	36.55	40.50	40.51	40.51
959	47.850	36.00	36.00	36.55	40.48	40.49	40.49
960	47.900	36.00	36.00	36.54	40.46	40.47	40.47
961	47.950	36.00	36.00	36.54	40.44	40.45	40.45
962	48.000	36.00	36.00	36.54	40.42	40.43	40.43
963	48.050	36.00	36.00	36.53	40.40	40.41	40.41
964	48.100	36.00	36.00	36.53	40.38	40.39	40.39
965	48.150	36.00	36.00	36.52	40.36	40.37	40.37
966	48.200	36.00	36.00	36.52	40.34	40.35	40.35
967	48.250	36.00	36.00	36.52	40.32	40.32	40.32
968	48.300	36.00	36.00	36.51	40.29	40.30	40.30
969	48.350	36.00	36.00	36.51	40.27	40.28	40.28
970	48.400	36.00	36.00	36.51	40.25	40.26	40.26
971	48.450	36.00	36.00	36.50	40.23	40.24	40.24
972	48.500	36.00	36.00	36.50	40.21	40.22	40.22
973	48.550	36.00	36.00	36.50	40.20	40.20	40.20
974	48.600	36.00	36.00	36.49	40.18	40.19	40.19
975	48.650	36.00	36.00	36.49	40.16	40.17	40.17
976	48.700	36.00	36.00	36.49	40.14	40.15	40.15
977	48.750	36.00	36.00	36.48	40.12	40.13	40.13
978	48.800	36.00	36.00	36.48	40.10	40.11	40.11
979	48.850	36.00	36.00	36.48	40.08	40.09	40.09
980	48.900	36.00	36.00	36.47	40.06	40.07	40.07
981	48.950	36.00	36.00	36.47	40.04	40.05	40.05
982	49.000	36.00	36.00	36.47	40.02	40.03	40.03
983	49.050	36.00	36.00	36.46	40.01	40.01	40.01
984	49.100	36.00	36.00	36.46	39.99	40.00	40.00
985	49.150	36.00	36.00	36.46	39.97	39.98	39.98
986	49.200	36.00	36.00	36.46	39.95	39.96	39.96
987	49.250	36.00	36.00	36.45	39.93	39.94	39.94
988	49.300	36.00	36.00	36.45	39.92	39.92	39.92
989	49.350	36.00	36.00	36.45	39.90	39.91	39.91
990	49.400	36.00	36.00	36.44	39.88	39.89	39.89
991	49.450	36.00	36.00	36.44	39.86	39.87	39.87
992	49.500	36.00	36.00	36.44	39.84	39.85	39.85
993	49.550	36.00	36.00	36.44	39.83	39.84	39.84
994	49.600	36.00	36.00	36.43	39.81	39.82	39.82
995	49.650	36.00	36.00	36.43	39.79	39.80	39.80
996	49.700	36.00	36.00	36.43	39.78	39.78	39.78
997	49.750	36.00	36.00	36.42	39.76	39.77	39.77
998	49.800	36.00	36.00	36.42	39.74	39.75	39.75
999	49.850	36.00	36.00	36.42	39.73	39.73	39.73
1000	49.900	36.00	36.00	36.42	39.71	39.72	39.72
1001	49.950	36.00	36.00	36.41	39.69	39.70	39.70

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 1
 BELOW JOCASSEE HYDRO-M1 AT MILE .10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1089.97 FEET
 FLOOD STAGE = 363.00 FEET
 MAX STAGE = 343.97 FEET AT TIME = .000 HOURS
 MAX FLOW = 4158789 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	344.0	26600	.	.	.	.	.	.
2	338.1	919270	.	.	.	.	.	.
4	268.1	4158789	.	.	.	.	.	.
6	166.0	1267405	.	.	.	.	.	.
8	107.8	362495	.	.	.	.	.	.
10	77.8	97320	.	.	.	.	.	.
12	67.2	38744	.	.	.	.	.	.
14	66.0	33377	.	.	.	.	.	.
16	66.4	35263	.	.	.	.	.	.
18	66.5	35794	.	.	.	.	.	.
20	66.6	35943	.	.	.	.	.	.
22	66.6	35984	.	.	.	.	.	.
24	66.6	35996	.	.	.	.	.	.
26	66.6	35996	.	.	.	.	.	.
28	66.6	35996	.	.	.	.	.	.
30	66.6	35996	.	.	.	.	.	.
32	66.6	35996	.	.	.	.	.	.
34	66.6	35996	.	.	.	.	.	.
36	66.6	35996	.	.	.	.	.	.
38	66.6	35996
40	66.6	35996
42	66.6	35996
44	66.6	35996
46	66.6	35996
48	66.6	35996

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 13
 BELOW JOCASSEE HYDRO-M1 AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 875.82 FEET
 FLOOD STAGE = 69.00 FEET
 MAX STAGE = 144.82 FEET AT TIME = 4.550 HOURS
 MAX FLOW = 3906939 CFS AT TIME = 4.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	66.0	26615	.	.	.	.	.	.
2	75.8	840275	.	.	.	.	.	.
4	138.1	3903811	.	.	.	.	.	.
6	127.5	1403372	.	.	.	.	.	.
8	86.0	426147	.	.	.	.	.	.
10	71.1	123014	.	.	.	.	.	.
12	59.8	58448	.	.	.	.	.	.
14	48.7	48679	.	.	.	.	.	.
16	34.4	42067	.	.	.	.	.	.
18	25.2	41261	.	.	.	.	.	.
20	18.4	37016	.	.	.	.	.	.
22	16.5	36036	.	.	.	.	.	.
24	16.4	35999	.	.	.	.	.	.
26	16.4	35997	.	.	.	.	.	.
28	16.4	35996	.	.	.	.	.	.
30	16.4	35996	.	.	.	.	.	.
32	16.4	35996	.	.	.	.	.	.
34	16.4	35996	.	.	.	.	.	.
36	16.4	35996	.	.	.	.	.	.
38	16.4	35996
40	16.4	35996
42	16.4	35996
44	16.4	35996
46	16.4	35996
48	16.4	35996

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 73
BELOW JOCASSEE HYDRO-M1 AT MILE 13.90
GAGE ZERO = 648.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.26 FEET
FLOOD STAGE = 152.00 FEET
MAX STAGE = 174.26 FEET AT TIME = 5.150 HOURS
MAX FLOW = 3102022 CFS AT TIME = 5.900 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.6	105611	.	.	.	.	.	.
1	148.5	60004	.	.	.	.	.	.
2	150.1	274253	.	.	.	.	.	.
3	156.9	834399	.	.	.	.	.	.
4	167.2	1446057	.	.	.	.	.	.
5	174.2	2166654	.	.	.	.	.	.
6	169.2	3070003	.	.	.	.	.	.
7	167.7	1779890	.	.	.	.	.	.
8	164.0	1194374	.	.	.	.	.	.
9	158.5	824635	.	.	.	.	.	.
10	152.8	682826	.	.	.	.	.	.
11	147.3	541178	.	.	.	.	.	.
12	141.7	515803	.	.	.	.	.	.
13	136.1	452310	.	.	.	.	.	.
14	130.6	392512	.	.	.	.	.	.
15	121.6	392163	.	.	.	.	.	.
16	116.2	276640	.	.	.	.	.	.
17	111.1	254490	.	.	.	.	.	.
18	106.3	222299	.	.	.	.	.	.
19	101.7	197444	.	.	.	.	.	.
20	97.4	175311	.	.	.	.	.	.
21	93.4	156868	.	.	.	.	.	.
22	89.5	141809	.	.	.	.	.	.
23	85.8	132085	.	.	.	.	.	.
24	82.1	131965	.	.	.	.	.	.
25	77.7	138248	.	.	.	.	.	.
26	73.0	132483	.	.	.	.	.	.
27	68.3	120504	.	.	.	.	.	.
28	63.8	106345	.	.	.	.	.	.
29	59.6	92357	.	.	.	.	.	.
30	55.9	79843	.	.	.	.	.	.
31	52.6	69271	.	.	.	.	.	.
32	49.9	60740	.	.	.	.	.	.
33	47.6	54104	.	.	.	.	.	.
34	45.8	49112	.	.	.	.	.	.
35	44.3	45463	.	.	.	.	.	.
36	43.1	42857	.	.	.	.	.	.
37	42.2	41026	.	.	.	.	.	.
38	41.5	39748	.	.	.	.	.	.
39	40.9	38853	.	.	.	.	.	.
40	40.5	38221	.	.	.	.	.	.
41	40.1	37766	.	.	.	.	.	.
42	39.8	37432	.	.	.	.	.	.
43	39.5	37181	.	.	.	.	.	.
44	39.3	36987	.	.	.	.	.	.
45	39.1	36836	.	.	.	.	.	.
46	39.0	36715	.	.	.	.	.	.
47	38.8	36617	.	.	.	.	.	.
48	38.7	36535	.	.	.	.	.	.
49	38.6	36468	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE STATION NUMBER 74
BELOW JOCASSEE HYDRO-M1 AT MILE 14.10

GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.58 FEET
FLOOD STAGE = 152.60 FEET
MAX STAGE = 175.18 FEET AT TIME = 5.100 HOURS
MAX FLOW = 3240379 CFS AT TIME = 6.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	149.3	37455	.	.	.	.	.	.
2	150.7	122866	.	.	.	.	.	.
4	168.2	205483	.	.	.	.	.	.
6	169.1	3240379	.	.	.	.	.	.
8	163.9	1751500	.	.	.	.	.	.
10	152.5	1427763	.	.	.	.	.	.
12	141.5	1135602	.	.	.	.	.	.
14	130.2	964758	.	.	.	.	.	.
16	116.1	602658	.	.	.	.	.	.
18	106.1	502642	.	.	.	.	.	.
20	97.2	419985	.	.	.	.	.	.
22	89.3	351505	.	.	.	.	.	.
24	81.9	291435	.	.	.	.	.	.
26	73.0	225358	.	.	.	.	.	.
28	63.8	164709	.	.	.	.	.	.
30	56.0	118755	.	.	.	.	.	.
32	50.1	87881	.	.	.	.	.	.
34	46.0	68742	.	.	.	.	.	.
36	43.4	57496	.	.	.	.	.	.
38	41.8	50955	.	.	.	.	.	.
40	40.8	46995	.	.	.	.	.	.
42	40.2	44432	.	.	.	.	.	.
44	39.7	42664	.	.	.	.	.	.
46	39.4	41382	.	.	.	.	.	.
48	39.1	40418	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE STATION NUMBER 75
BELOW JOCASSEE HYDRO-M1 AT MILE 14.20

GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.53 FEET
FLOOD STAGE = 153.00 FEET
MAX STAGE = 175.53 FEET AT TIME = 5.100 HOURS
MAX FLOW = 3243922 CFS AT TIME = 6.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	149.7	19500	.	.	.	.	.	.
2	151.1	119970	.	.	.	.	.	.
4	168.6	199046	.	.	.	.	.	.
6	169.3	3243922	.	.	.	.	.	.
8	164.2	1754593	.	.	.	.	.	.
10	152.8	1431126	.	.	.	.	.	.
12	141.8	1138645	.	.	.	.	.	.
14	130.6	967370	.	.	.	.	.	.
16	116.4	604749	.	.	.	.	.	.
18	106.5	504169	.	.	.	.	.	.
20	97.6	421094	.	.	.	.	.	.
22	89.7	352355	.	.	.	.	.	.
24	82.2	292251	.	.	.	.	.	.
26	73.3	226201	.	.	.	.	.	.
28	64.2	165389	.	.	.	.	.	.
30	56.3	119226	.	.	.	.	.	.
32	50.4	88179	.	.	.	.	.	.
34	46.3	68919	.	.	.	.	.	.
36	43.8	57599	.	.	.	.	.	.
38	42.2	51016	.	.	.	.	.	.
40	41.2	47033	.	.	.	.	.	.
42	40.5	44458	.	.	.	.	.	.
44	40.1	42682	.	.	.	.	.	.
46	39.7	41395	.	.	.	.	.	.
48	39.5	40428	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KRO FAILURE ... STATION NUMBER 76
BELOW JOCASSEE HYDRO-M1 AT MILE 14.80
GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 803.82 FEET
FLOOD STAGE = 23.00 FEET
MAX STAGE = 157.82 FEET AT TIME = 7.100 HOURS
MAX FLOW = 3243922 CFS AT TIME = 6.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	21.2	19500	.	.	.	.	.	.
2	33.8	119970	.	.	.	.	.	.
4	47.7	199046	.	.	.	.	.	.
6	145.3	3243922	.	.	.	.	.	.
8	155.6	1754593	.	.	.	.	.	.
10	145.5	1431126	.	.	.	.	.	.
12	133.2	1138645	.	.	.	.	.	.
14	123.6	967370	.	.	.	.	.	.
16	106.8	604749	.	.	.	.	.	.
18	96.5	504169	.	.	.	.	.	.
20	88.8	421094	.	.	.	.	.	.
22	82.1	352355	.	.	.	.	.	.
24	75.4	292251	.	.	.	.	.	.
26	67.2	226201	.	.	.	.	.	.
28	56.8	165389	.	.	.	.	.	.
30	48.0	119226	.	.	.	.	.	.
32	41.1	88179	.	.	.	.	.	.
34	36.4	68919	.	.	.	.	.	.
36	33.6	57599	.	.	.	.	.	.
38	31.8	51014	.	.	.	.	.	.
40	30.7	47033	.	.	.	.	.	.
42	29.8	44458	.	.	.	.	.	.
44	29.2	42682	.	.	.	.	.	.
46	28.7	41395	.	.	.	.	.	.
48	28.3	40428	.	.	.	.	.	.

ATTACHMENT 4
JOSD09 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

JOCASSEE HYDRO-M1

ON

JOC/KEO FAILURE

ANALYSIS BY

SD FAILURE OPTION 12
JOSD9 09132008 SDFall JOC01080/K0796 W/F
PC @ L RIVER CANAL COE QT CURVE 900 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATAWBA PROJECT

*** SUMMARY OF INPUT DATA ***

INPUT CONTROL PARAMETERS FOR JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KRN	1
TYPE OF RESERVOIR ROUTING	KUI	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEN	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9	NPRT	0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES) SA(K)	ELEVATION (FT) HSA(K)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1080.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	800.00
WIDTH OF BASE OF BREACH	FEET	BB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	940.00
ELEVATION OF TOP OF DAM	FEET	HD	1125.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	796.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	796.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19500.00

DAM NUMBER 3

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	658.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40875.	1.0
44081.	3.0
47314.	5.0
52201.	8.0
55476.	10.0
58759.	12.0
61222.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
47307.	.2
98699.	.5
102810.	2.0
111097.	4.0
119450.	6.0
136248.	10.0
144639.	12.0

QTT(L, K):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

QSPILL(K, 3) CFS	HEAD(K, 3) FEET
0.	.0
78750.	.5
157500.	1.0
315000.	2.0
353000.	6.0
400000.	8.0
480000.	12.0
565000.	16.0

DHF (INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.
TEH (TIME AT WHICH COMPUTATIONS TERMINATE) = 50.0000 HRS.
BREX (BREACH EXPONENT) = .000
MUD (MUD FLOW OPTION) = 0
INF (TYPE OF WAVE FRONT TRACKING) = 0
KPRES (WETTED PERIMETER OPTION) = 0
KSL (LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-M1
.....

500.00 500.00 500.00 500.00 36000.00 36000.00 36000.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000 1.0000 7.0000 8.0000 14.0000 30.0000 140.0000

CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)

1 3 9 10 11 12

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
.....

```

LOCATION OF CROSS-SECTION      MILE      XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION FEET      FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH      FEET      HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV      FEET      BS(K,I)
(ACTIVE FLOW PORTION)
TOP WIDTH CORRESPONDING TO EACH ELEV      FEET      BSS(K,I)
(OFF-CHANNEL PORTION)
NUMBER OF CROSS-SECTION      I
NUMBER OF ELEVATION LEVEL      K

```

CROSS-SECTION NUMBER 1
.....

```

XS(I) =      .100      FSTG(I) = 1109.00

HS ...      746.0      780.0      840.0      940.0      1000.0      1100.0      1140.0
BS ...      .0      600.0      900.0      1400.0      1800.0      2600.0      2750.0
BSS ...      .0      .0      .0      .0      .0      .0      .0

```

CROSS-SECTION NUMBER 2
.....

```

XS(I) =      .130      FSTG(I) = 800.00

HS ...      745.0      760.0      800.0      820.0      840.0      900.0      940.0
BS ...      .0      1000.0      1500.0      1600.0      1800.0      2000.0      2200.0
BSS ...      .0      .0      541.0      900.0      1184.0      2897.0      4000.0

```

CROSS-SECTION NUMBER 3
.....

```

XS(I) =      1.320      FSTG(I) = 800.00

HS ...      731.0      740.0      760.0      800.0      820.0      840.0      900.0
BS ...      .0      250.0      1300.0      2000.0      2200.0      2400.0      2600.0
BSS ...      .0      .0      .0      541.0      900.0      1184.0      2897.0

```

CROSS-SECTION NUMBER 4
.....

```

XS(I) =      2.910      FSTG(I) = 800.00

HS ...      715.0      720.0      740.0      800.0      820.0      840.0      900.0
BS ...      .0      200.0      700.0      1700.0      1850.0      2100.0      2800.0
BSS ...      .0      .0      .0      3359.0      5100.0      6807.0      12826.0

```

CROSS-SECTION NUMBER 5
.....

```

XS(I) =      3.820      FSTG(I) = 800.00

HS ...      710.0      720.0      740.0      800.0      820.0      840.0      900.0
BS ...      .0      200.0      500.0      800.0      850.0      925.0      2300.0
BSS ...      .0      .0      .0      3771.0      5780.0      7764.0      14858.0

```

CROSS-SECTION NUMBER 6
.....

```

XS(I) =      6.470      FSTG(I) = 800.00

HS ...      693.0      720.0      740.0      800.0      820.0      840.0      900.0
BS ...      .0      500.0      600.0      1000.0      1150.0      1300.0      1900.0
BSS ...      .0      .0      .0      417.0      680.0      957.0      2037.0

```

CROSS-SECTION NUMBER 7

XS(I) = 8.210 FSTG(I) = 800.00

HS ...	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	1600.0	1950.0	2000.0	2300.0	2425.0	2700.0
BSS ...	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8

XS(I) = 10.480 FSTG(I) = 800.00

HS ...	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	2400.0	3700.0	4000.0	4400.0	4660.0	4950.0
BSS ...	.0	.0	.0	.0	1426.0	2960.0	4300.0

CROSS-SECTION NUMBER 9

XS(I) = 13.900 FSTG(I) = 800.00

HS ...	648.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10

XS(I) = 14.100 FSTG(I) = 800.00

HS ...	647.4	680.0	740.0	780.0	800.0	820.0	840.0
BS0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11

XS(I) = 14.200 FSTG(I) = 800.00

HS ...	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12

XS(I) = 14.800 FSTG(I) = 669.00

HS ...	646.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS ...	.0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13

XS(I) = 16.400 FSTG(I) = 667.00

HS ...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS ...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14
.....

XS(I) = 17.800 FSTG(I) = 665.00

HS ...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS ...	.0	400.0	700.0	800.0	1800.0	2400.0	4000.0
BSS ...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15
.....

XS(I) = 20.300 FSTG(I) = 661.40

HS ...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS ...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS ...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16
.....

XS(I) = 21.900 FSTG(I) = 660.60

HS ...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS ...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS ...	.0	.0	.0	1217.0	2400.0	5000.0	6007.0

CROSS-SECTION NUMBER 17
.....

XS(I) = 25.100 FSTG(I) = 660.00

HS ...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS ...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS ...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18
.....

XS(I) = 26.700 FSTG(I) = 660.00

HS ...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS ...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19
.....

XS(I) = 29.200 FSTG(I) = 660.00

HS ...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	250.0	600.0	800.0	4700.0	6000.0	7000.0
BSS ...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20

XS(I) = 31.500 FSTG(I) = 660.00

HS ...	600.0	620.0	640.0	660.0	670.0	680.0	700.0
BS ...	.0	1400.0	2000.0	2400.0	2800.0	3000.0	4000.0
BSS ...	.0	.0	.0	2330.0	3150.0	4320.0	5764.0

CROSS-SECTION NUMBER 21

XS(I) = 36.800 FSTG(I) = 660.00

HS ...	589.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	600.0	1500.0	1700.0	2200.0	2900.0	3500.0
BSS ...	.0	.0	.0	50.0	3664.0	5720.0	8808.0

CROSS-SECTION NUMBER 22

XS(I) = 40.100 FSTG(I) = 660.00

HS ...	583.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	600.0	800.0	900.0	1100.0	1200.0
BSS ...	.0	.0	.0	50.0	384.0	1900.0	3444.0

CROSS-SECTION NUMBER 23

XS(I) = 41.100 FSTG(I) = 660.00

HS ...	540.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	1500.0	1900.0	2000.0	2150.0	2350.0	3100.0
BSS ...	.0	.0	.0	50.0	10358.0	15700.0	20109.0

CROSS-SECTION NUMBER 24

XS(I) = 42.800 FSTG(I) = 660.00

HS ...	520.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	2000.0	4300.0	5700.0	11000.0	13000.0	14000.0
BSS ...	.0	.0	3500.0	4000.0	34673.0	68200.0	101803.0

CROSS-SECTION NUMBER 25

XS(I) = 49.900 FSTG(I) = 660.00

HS ...	497.0	500.0	600.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	3500.0	4200.0	10000.0	10700.0	11200.0
BSS ...	.0	.0	1000.0	1800.0	18239.0	29500.0	40619.0

CROSS-SECTION NUMBER 26

XS(I) = 53.900 FSTG(I) = 660.00

HS ...	490.0	540.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	1500.0	12000.0	14200.0	14700.0	15000.0	16200.0
BSS ...	.0	.0	.0	50.0	100.0	1500.0	2400.0

CROSS-SECTION NUMBER 27
.....

XS(1) = 54.400 FSTG(1) = 496.80

HS ...	485.0	500.0	520.0	540.0	560.0	580.0	600.0
BS ...	.0	1000.0	1100.0	1200.0	1250.0	2100.0	2300.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28
.....

XS(1) = 55.700 FSTG(1) = 482.00

HS ...	474.0	480.0	500.0	520.0	540.0	580.0	600.0
BS ...	.0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS ...	.0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29
.....

XS(1) = 69.700 FSTG(1) = 477.00

HS ...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30
.....

XS(1) = 72.300 FSTG(1) = 477.00

HS ...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31
.....

XS(1) = 79.900 FSTG(1) = 477.00

HS ...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS ...	.0	1500.0	1800.0	2000.0	2200.0	3800.0	6000.0
BSS ...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(CM(K,1),K=1,NCS) WHERE 1 = REACH NUMBER
.....

REACH 1 ...	.030	.030	.030	.030	.030	.030	.030
REACH 2 ...	.030	.030	.035	.040	.050	.070	.080
REACH 3 ...	.030	.030	.030	.035	.040	.050	.080
REACH 4 ...	.030	.030	.030	.035	.040	.050	.080
REACH 5 ...	.030	.030	.030	.035	.040	.050	.080
REACH 6 ...	.030	.030	.030	.030	.035	.050	.080
REACH 7 ...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.080	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.050	.060	.080
REACH 27 ...	.030	.030	.030	.035	.050	.060	.080
REACH 28 ...	.030	.030	.030	.035	.050	.060	.080
REACH 29 ...	.030	.030	.030	.035	.050	.060	.080
REACH 30 ...	.030	.030	.030	.035	.050	.060	.080

1

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
 BELOW JOCASSEE HYDRO-W1

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(1)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FXC(1)

REACH NUMBER	DXM(1)	FXC(1)
1	-101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.300	.000
8	.200	.000
9	.300	.000
10	1.300	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

1

DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET QLL		.000
INITIAL SIZE OF TIME STEP	HOURL	DTIM	.0300
DOWNSTREAM BOUNDARY PARAMETER	FEET	YON	.000200
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPM	SOM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	RPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOURL	TFI	.00

```

NPLO= 1
III= 1 NXPI(K,III)= 9 NXPN(K,III)= 10 NQLP(K)= 0 PMELV(K,III)= 720.10 PCWR(K,III)= 3.20 PEO(K)= 734.61 QMINP(K)=
.00

(PSA(I,K),I=1,8)
58834.00 353605.00 485177.00 535128.00 644168.00 703866.00 767766.00 908172.00

(PEL(I,K),I=1,8)
720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(IGPU(I,K),I=1,ITEM)
.00 .00 .00 .00 .00 .00 .00 .00

(COFF(I,K),I=1,8)
.00 .00 .00 .00 .00 .00 .00 .00

(MCOFF(I,K),I=1,8)
900.00 .00 .00 .00 .00 .00 .00 .00
NPM= 0
    
```

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) = 183 (MAXIMUM ALLOWABLE = 250)

*** SUMMARY OF OUTPUT DATA ***

CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESSAGE
1	.10	746.00				
2	.13	745.00	1	.03	33.33	
3	1.32	731.00	2	1.19	11.76	
4	2.91	715.00	3	1.59	10.06	
5	3.82	710.00	4	.91	5.49	
6	6.47	693.00	5	2.65	6.42	
7	8.21	680.00	6	1.74	7.47	
8	10.48	672.00	7	2.27	3.52	
9	13.90	648.00	8	3.42	7.02	
10	14.10	647.40	9	.20	3.00	
11	14.20	647.00	10	.10	4.00	
12	16.80	646.00	11	.60	1.67	
13	16.40	645.00	12	1.60	.63	
14	17.90	644.00	13	1.40	.71	
15	20.30	633.00	14	2.50	4.40	
16	21.40	628.00	15	1.60	3.12	
17	25.10	620.00	16	3.20	2.50	
18	26.70	614.00	17	1.60	3.75	
19	29.20	607.00	18	2.50	2.80	
20	31.50	600.00	19	2.30	3.04	
21	36.80	589.00	20	5.30	2.68	
22	40.10	583.00	21	3.30	1.82	
23	41.10	540.00	22	1.00	43.00	
24	42.80	520.00	23	1.70	11.76	
25	49.90	497.00	24	7.10	3.24	
26	53.90	490.00	25	4.00	1.75	
27	54.40	485.00	26	.50	10.00	
28	55.70	474.00	27	1.30	8.46	
29	69.70	405.00	28	14.00	4.93	
30	72.30	387.00	29	2.60	6.92	
31	79.90	330.00	30	7.60	7.50	

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1
IDAM(2) = 75
IDAM(3) = 140

SNC(K,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS

NN(MS) 183

NUMBER OF TIME STEPS

NNU 7

ROUTING COMPLETED.

KTIME= 1001 ALLOWABLE KTIME=9999 TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
1.100	1079.98	3949059	.000	14.03	1109.00	.00
1.130	875.05	3949059	4.450	21.74	800.00	1.55
1.238	874.67	3927873	4.450	21.33	800.00	1.55
1.346	874.29	3906449	4.450	20.90	800.00	1.55
1.455	873.90	3884819	4.450	20.43	800.00	1.60
1.563	873.51	3863014	4.450	19.94	800.00	1.60
1.671	873.12	3841068	4.500	19.43	800.00	1.60
1.779	872.74	3819203	4.500	18.91	800.00	1.60
1.887	872.38	3796685	4.500	18.37	800.00	1.60
1.995	872.03	3773979	4.500	17.82	800.00	1.65
1.104	871.71	3750880	4.550	17.25	800.00	1.65
1.212	871.42	3727579	4.550	16.67	800.00	1.65
1.320	871.15	3704628	4.550	16.08	800.00	1.65
1.426	870.83	3680134	4.550	16.13	800.00	1.65
1.532	870.50	3667891	4.550	16.16	800.00	1.65
1.638	870.17	3642899	4.600	16.20	800.00	1.70
1.744	869.84	3615180	4.600	16.22	800.00	1.70
1.850	869.51	3584765	4.600	16.24	800.00	1.70
1.956	869.16	3551704	4.600	16.25	800.00	1.70
2.062	868.81	3516056	4.600	16.26	800.00	1.70
2.168	868.46	3477882	4.650	16.26	800.00	1.70
2.274	868.10	3437253	4.650	16.25	800.00	1.70
2.380	867.73	3394248	4.650	16.23	800.00	1.75
2.486	867.35	3348946	4.650	16.21	800.00	1.75
2.592	866.96	3301430	4.650	16.18	800.00	1.75
2.698	866.56	3253396	4.700	16.15	800.00	1.75
2.804	866.15	3209576	4.700	16.10	800.00	1.75
2.910	865.72	3161712	4.700	16.05	800.00	1.75
3.013	863.19	3022014	4.750	18.90	800.00	1.80
3.517	858.65	2900640	4.800	23.89	800.00	1.85
3.820	848.09	2804091	4.900	35.72	800.00	1.95
4.024	844.54	2747486	4.900	34.74	800.00	2.00
4.228	841.32	2701092	4.850	33.96	800.00	2.05
4.432	838.33	2663752	4.850	33.36	800.00	2.10
4.635	835.58	2635214	5.200	32.92	800.00	2.10
4.839	833.22	2613566	5.300	32.62	800.00	2.20
5.043	831.04	2599112	5.400	32.50	800.00	2.25
5.247	829.02	2580801	5.500	32.50	800.00	2.30
5.451	827.17	2564773	5.550	32.64	800.00	2.35
5.655	825.43	2579117	5.600	32.97	800.00	2.40
5.858	823.81	2572875	5.650	33.62	800.00	2.50
6.062	822.29	2565536	5.650	34.52	800.00	2.60
6.266	820.87	2557568	5.700	35.85	800.00	2.75
6.470	819.52	2548288	5.700	38.06	800.00	3.10
6.687	822.16	2537078	5.600	27.13	800.00	2.65
6.905	823.40	2523039	5.550	22.02	800.00	2.55
7.122	824.04	2503923	5.550	18.61	800.00	2.50
7.340	824.38	2479208	5.500	16.08	800.00	2.50

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
7.557	824.57	2448278	5.500	14.10	800.00	2.50
7.775	824.65	2411106	5.500	12.48	800.00	2.50
7.992	824.67	2368753	5.450	11.11	800.00	2.50
8.210	824.63	2320946	5.450	9.93	800.00	2.50
8.777	824.45	2379727	5.400	8.18	800.00	2.50
9.345	824.28	2513278	5.400	7.31	800.00	2.50
9.912	824.11	2620299	5.400	6.57	800.00	2.50
10.480	823.96	2694762	5.350	5.96	800.00	2.50
10.681	823.87	2714963	5.350	6.05	800.00	2.50
10.882	823.78	2733628	5.350	6.15	800.00	2.50
11.084	823.69	2753074	5.350	6.26	800.00	2.50
11.285	823.60	2773141	5.350	6.37	800.00	2.50
11.486	823.50	2791817	5.350	6.49	800.00	2.55
11.687	823.40	2809041	5.350	6.63	800.00	2.55
11.888	823.29	2824736	5.350	6.78	800.00	2.55
12.089	823.17	2838856	5.350	6.94	800.00	2.55
12.291	823.06	2851402	5.300	7.12	800.00	2.55
12.492	822.93	2862430	5.300	7.31	800.00	2.55
12.693	822.80	2873751	5.300	7.52	800.00	2.55
12.894	822.66	2887442	5.300	7.74	800.00	2.55
13.095	822.50	2899441	5.300	8.00	800.00	2.55
13.296	822.33	2909625	5.250	8.29	800.00	2.55
13.498	822.16	2917903	5.250	8.61	800.00	2.55
13.699	821.96	2924260	5.250	8.97	800.00	2.55

13.900	821.74	2928812	5.250	9.36	800.00	2.55
14.100	822.05	3195370	5.200	10.43	800.00	2.55
14.200	822.00	3199136	5.200	10.47	800.00	2.55
14.800	802.01	3199136	7.200	18.28	669.00	1.65
14.900	601.81	3146678	7.200	17.52	668.88	1.65
15.000	601.59	3094532	7.200	16.78	668.75	1.65
15.100	601.38	3042783	7.200	16.07	668.53	1.65
15.200	601.16	2991517	7.200	15.39	668.50	1.70
15.300	600.95	2940826	7.250	14.88	668.38	1.70
15.400	600.73	2890801	7.250	14.47	668.25	1.70
15.500	600.51	2841535	7.250	14.10	668.13	1.70
15.600	600.29	2797727	7.250	13.78	668.00	1.70
15.700	600.07	2756994	7.250	13.50	667.88	1.75
15.800	799.85	2716552	7.250	13.26	667.75	1.75
15.900	799.62	2676543	7.250	13.05	667.63	1.75
16.000	799.40	2637093	7.250	12.90	667.50	1.75
16.100	799.17	2598305	7.300	12.77	667.38	1.75
16.200	798.95	2560268	7.300	12.64	667.25	1.75
16.300	798.73	2523059	7.300	12.53	667.13	1.80
16.400	798.51	2486740	7.300	12.42	667.00	1.80
16.500	798.28	2453424	7.300	12.31	666.86	1.80
16.600	798.04	2422180	7.300	12.19	666.71	1.80
16.700	797.80	2390642	7.300	12.08	666.57	1.80
16.800	797.55	2358838	7.300	11.97	666.43	1.80

PROFILE OF CRESTS AND TIMES FOR JOC/KED FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	797.30	2326793	7.300	11.86	666.29	1.80
17.000	797.04	2294528	7.300	11.76	666.14	1.80
17.100	796.78	2262073	7.300	11.66	666.00	1.85
17.200	796.51	2230089	7.350	11.56	665.86	1.85
17.300	796.23	2201583	7.350	11.46	665.71	1.85
17.400	795.95	2172912	7.350	11.36	665.57	1.85
17.500	795.66	2144090	7.350	11.26	665.43	1.85
17.600	795.37	2115130	7.350	11.17	665.29	1.85
17.700	795.06	2088850	7.350	11.07	665.14	1.90
17.800	794.75	2064612	7.350	10.98	665.00	1.90
18.113	793.52	2010426	7.350	11.34	664.55	1.95
18.425	792.02	1977399	7.400	11.82	664.10	1.95
18.738	790.18	1956391	7.400	12.50	663.65	2.00
19.050	787.87	1939988	7.400	13.47	663.20	2.05
19.363	784.85	1925456	7.450	14.84	662.75	2.05
19.675	780.78	1914204	7.450	16.85	662.30	2.10
19.988	774.94	1909792	7.500	19.96	661.85	2.10
20.300	765.97	1907542	7.650	25.16	661.40	2.15
21.900	739.42	1866857	9.250	23.28	660.60	2.35
25.100	720.20	1575781	11.200	17.86	660.00	3.65
25.633	719.31	1505041	11.450	16.22	660.00	4.00
26.167	714.21	1447475	11.750	14.17	660.00	4.25
26.700	711.36	1413490	12.100	11.46	660.00	4.45
29.200	699.86	1334376	14.800	16.13	660.00	6.15
29.775	697.84	1317533	15.050	11.78	660.00	6.15
30.350	696.08	1297772	15.250	10.64	660.00	6.25
30.925	694.54	1279555	15.450	9.42	660.00	6.35
31.500	693.14	1251938	15.600	8.21	660.00	6.40
34.150	686.75	1172979	16.400	7.73	660.00	7.05
36.800	680.34	1125405	17.600	8.09	660.00	8.00
40.100	670.77	1097285	28.600	23.87	660.00	15.00
41.100	671.20	1085192	27.250	6.40	660.00	11.05
42.800	671.19	995170	27.300	2.18	660.00	11.00
43.814	671.17	912181	27.350	1.93	660.00	11.05
44.829	671.15	834087	27.400	1.71	660.00	11.05
45.843	671.13	760899	27.450	1.52	660.00	11.10
46.857	671.11	692748	27.450	1.36	660.00	11.10
47.871	671.10	629746	27.500	1.22	660.00	11.10
48.886	671.08	578208	27.500	1.09	660.00	11.10
49.900	671.07	536822	27.500	.98	660.00	11.10
50.900	671.06	505728	27.500	.60	660.00	11.10
51.900	671.06	487871	27.500	.45	660.00	11.10
52.900	671.06	480321	27.500	.37	660.00	11.10
53.900	671.05	478583	27.550	.33	660.00	11.10
54.400	513.76	478583	26.500	22.04	496.80	.10
55.050	500.45	478565	28.300	20.80	489.40	.30
55.700	499.34	478444	28.350	11.04	482.00	.75
56.200	497.19	478302	28.550	11.04	481.82	.60

PROFILE OF CRESTS AND TIMES FOR JOC/KED FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
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56.700	495.07	478148	28.750	11.02	481.64	.90
57.200	492.95	477977	28.900	11.00	481.46	1.25
57.700	490.84	477789	29.100	10.98	481.29	1.85
58.200	488.73	477585	29.300	10.96	481.11	13.25
58.700	486.62	477368	29.500	10.93	480.93	14.30
59.200	484.52	477140	29.700	10.90	480.75	17.70
59.700	482.42	476902	29.900	10.87	480.57	21.25
60.200	480.33	476658	30.100	10.84	480.39	.00
60.700	478.23	476410	30.300	10.80	480.21	.00
61.200	476.14	476161	30.500	10.76	480.04	.00
61.700	474.05	475915	30.700	10.72	479.86	.00
62.200	471.97	475673	30.850	10.68	479.68	.00
62.700	469.88	475440	31.050	10.64	479.50	.00
63.200	467.79	475217	31.200	10.60	479.32	.00
63.700	465.70	475009	31.350	10.56	479.14	.00
64.200	463.60	474810	31.500	10.52	478.96	.00
64.700	461.50	474643	31.600	10.48	478.79	.00
65.200	459.39	474489	31.750	10.44	478.61	.00
65.700	457.27	474357	31.850	10.41	478.43	.00
66.200	455.13	474244	31.950	10.38	478.25	.00
66.700	452.98	474151	32.050	10.37	478.07	.00
67.200	450.79	474079	32.100	10.37	477.89	.00
67.700	448.57	474023	32.150	10.38	477.71	.00
68.200	446.29	473983	32.200	10.43	477.54	.00
68.700	443.92	473955	32.250	10.51	477.36	.00
69.200	441.44	473937	32.300	10.66	477.18	.00
69.700	438.77	473925	32.350	10.91	477.00	.00
70.220	435.49	473917	32.350	11.81	477.00	.00
70.740	431.91	473910	32.400	12.66	477.00	.00
71.260	428.23	473905	32.450	13.30	477.00	.00
71.780	424.41	473901	32.450	13.74	477.00	.00
72.300	420.38	473898	32.500	14.09	477.00	.00
73.386	411.97	473892	32.600	14.18	477.00	.00
74.471	403.57	473887	32.650	14.24	477.00	.00
75.557	395.24	473878	32.750	14.25	477.00	.00
76.643	387.65	473860	32.950	13.76	477.00	.00
77.729	382.64	473829	33.100	11.92	477.00	.00
78.814	380.25	473800	33.100	11.04	477.00	.00
79.900	379.19	473788	33.100	7.72	477.00	.00

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K	TTP(K)	YC(K, I, 1=1, NIT)					
1	.000	1079.97	796.02	795.86	795.87	795.86	667.17
2	.050	1079.95	796.02	795.85	795.85	795.86	667.17
3	.100	1079.94	796.02	795.87	795.87	795.86	667.17
4	.150	1079.92	796.02	795.87	795.88	795.89	667.17
5	.200	1079.90	796.02	795.88	795.88	795.87	667.17
6	.250	1079.89	796.01	795.88	795.88	795.89	667.17
7	.300	1079.87	796.01	795.88	795.88	795.87	667.17
8	.350	1079.85	796.01	795.86	795.86	795.87	667.17
9	.400	1079.84	796.00	795.84	795.84	795.84	667.17
10	.450	1079.82	795.97	795.81	795.81	795.81	667.17
11	.500	1079.81	795.93	795.78	795.78	795.78	667.17
12	.550	1079.79	795.87	795.76	795.76	795.76	667.17
13	.600	1079.77	795.80	795.76	795.76	795.76	667.17
14	.650	1079.76	795.75	795.78	795.78	795.78	667.17
15	.700	1079.74	795.73	795.79	795.79	795.79	667.17
16	.750	1079.71	795.75	795.80	795.80	795.80	667.17
17	.800	1079.69	795.81	795.80	795.80	795.80	667.17
18	.850	1079.66	795.89	795.80	795.80	795.80	667.17
19	.900	1079.62	795.97	795.80	795.80	795.80	667.17
20	.950	1079.58	796.07	795.80	795.80	795.80	667.17
21	1.000	1079.53	796.18	795.79	795.79	795.79	667.17
22	1.050	1079.47	796.31	795.78	795.78	795.78	667.17
23	1.100	1079.41	796.46	795.77	795.77	795.77	667.17
24	1.150	1079.33	796.63	795.76	795.76	795.76	667.17
25	1.200	1079.24	796.85	795.75	795.75	795.75	667.17
26	1.250	1079.14	797.11	795.75	795.75	795.75	667.17
27	1.300	1079.02	797.40	795.75	795.75	795.75	667.17
28	1.350	1078.88	797.73	795.77	795.77	795.77	667.17
29	1.400	1078.73	798.08	795.81	795.81	795.81	667.17
30	1.450	1078.56	798.46	795.87	795.87	795.87	667.17
31	1.500	1078.37	798.86	795.94	795.94	795.94	667.17
32	1.550	1078.16	799.28	796.02	796.01	796.01	667.49
33	1.600	1077.92	799.73	796.07	796.06	796.06	668.86
34	1.650	1077.66	800.20	796.13	796.12	796.11	670.57
35	1.700	1077.37	800.71	796.20	796.18	796.18	672.45
36	1.750	1077.06	801.25	796.28	796.27	796.26	674.35
37	1.800	1076.71	801.83	796.38	796.37	796.36	676.25
38	1.850	1076.33	802.46	796.50	796.49	796.48	678.20
39	1.900	1075.92	803.12	796.68	796.68	796.69	679.18
40	1.950	1075.48	803.83	796.91	796.91	796.91	679.75
41	2.000	1075.00	804.58	797.14	797.14	797.14	680.19
42	2.050	1074.48	805.37	797.37	797.38	797.38	680.56
43	2.100	1073.92	806.22	797.60	797.61	797.61	680.91
44	2.150	1073.32	807.12	797.83	797.84	797.84	681.26

45	2.200	1072.67	808.06	798.05	798.07	798.07	681.61
46	2.250	1071.99	809.04	798.29	798.31	798.30	681.99
47	2.300	1071.25	810.07	798.53	798.55	798.55	682.35
48	2.350	1070.47	811.15	798.80	798.82	798.82	682.71
49	2.400	1069.64	812.27	799.08	799.10	799.10	683.07
50	2.450	1068.76	813.43	799.37	799.41	799.41	683.42
51	2.500	1067.83	814.63	799.69	799.73	799.73	683.76
52	2.550	1066.84	815.88	800.07	800.07	800.07	684.10
53	2.600	1065.80	817.16	800.36	800.42	800.42	684.44
54	2.650	1064.70	818.49	800.72	800.78	800.78	684.77
55	2.700	1063.55	819.85	801.08	801.15	801.15	685.10
56	2.750	1062.33	821.25	801.44	801.52	801.52	685.42
57	2.800	1061.06	822.70	801.82	801.91	801.91	685.75
58	2.850	1059.72	824.20	802.21	802.31	802.31	686.07
59	2.900	1058.33	825.75	802.61	802.72	802.72	686.39
60	2.950	1056.86	827.34	803.02	803.14	803.14	686.71
61	3.000	1055.33	828.97	803.45	803.57	803.57	687.02
62	3.050	1053.73	830.64	803.88	804.01	804.01	687.34
63	3.100	1052.06	832.34	804.32	804.47	804.47	687.65
64	3.150	1050.32	834.07	804.77	804.93	804.93	687.96
65	3.200	1048.51	835.82	805.23	805.40	805.40	688.27
66	3.250	1046.62	837.59	805.70	805.88	805.88	688.58
67	3.300	1044.65	839.37	806.17	806.36	806.36	688.89
68	3.350	1042.61	841.17	806.65	806.86	806.86	689.20
69	3.400	1040.50	842.98	807.13	807.34	807.34	689.51
70	3.450	1038.30	844.80	807.62	807.84	807.84	689.82
71	3.500	1036.02	846.62	808.12	808.35	808.35	690.13
72	3.550	1033.65	848.44	808.63	808.87	808.87	690.44
73	3.600	1031.20	850.27	809.14	809.40	809.40	690.75
74	3.650	1028.67	852.08	809.67	809.94	809.93	691.06
75	3.700	1026.04	853.90	810.20	810.48	810.48	691.37
76	3.750	1023.33	855.70	810.74	811.03	811.03	691.68
77	3.800	1020.52	857.50	811.29	811.59	811.59	691.99
78	3.850	1017.62	859.29	811.84	812.15	812.15	692.31
79	3.900	1014.62	861.06	812.39	812.72	812.72	692.62
80	3.950	1011.52	862.82	812.95	813.28	813.28	692.94
81	4.000	1008.33	864.57	813.52	813.85	813.85	693.25
82	4.050	1005.10	866.06	814.08	814.43	814.43	693.57
83	4.100	1001.92	867.10	814.65	815.00	815.00	693.88
84	4.150	998.79	867.97	815.20	815.56	815.56	694.19
85	4.200	995.69	868.79	815.74	816.10	816.10	694.50
86	4.250	992.65	869.46	816.27	816.64	816.63	694.81
87	4.300	989.64	870.04	816.79	817.17	817.16	695.12
88	4.350	986.68	870.49	817.29	817.68	817.67	695.43
89	4.400	983.76	870.80	817.77	818.16	818.15	695.74
90	4.450	980.87	871.01	818.22	818.62	818.60	696.05
91	4.500	978.03	871.12	818.64	819.04	819.03	696.36
92	4.550	975.23	871.15	819.03	819.43	819.42	696.67
93	4.600	972.47	871.11	819.37	819.77	819.76	696.98
94	4.650	969.74	871.02	819.71	820.12	820.10	697.29
95	4.700	967.05	870.87	820.02	820.43	820.41	697.60
96	4.750	964.40	870.67	820.31	820.72	820.69	697.91
97	4.800	961.79	870.42	820.57	820.97	820.95	698.22
98	4.850	959.21	870.13	820.81	821.21	821.18	698.53
99	4.900	956.67	869.79	821.02	821.42	821.39	698.84
100	4.950	954.16	869.41	821.21	821.59	821.56	699.15
101	5.000	951.69	868.98	821.37	821.74	821.71	699.46
102	5.050	949.25	868.51	821.50	821.87	821.83	699.77
103	5.100	946.84	868.00	821.61	821.96	821.92	700.08
104	5.150	944.47	867.44	821.69	822.02	821.98	700.39
105	5.200	942.13	866.85	821.73	822.05	822.00	700.70
106	5.250	939.82	866.21	821.74	822.03	821.98	701.01
107	5.300	937.54	865.54	821.71	821.99	821.92	701.32
108	5.350	935.29	864.82	821.66	821.91	821.84	701.63
109	5.400	933.08	864.08	821.58	821.79	821.72	701.94
110	5.450	930.89	863.31	821.46	821.64	821.56	702.25
111	5.500	928.73	862.51	821.30	821.45	821.36	702.56
112	5.550	926.61	861.69	821.11	821.22	821.12	702.87
113	5.600	924.51	860.84	820.88	820.94	820.83	703.18
114	5.650	922.44	859.98	820.60	820.61	820.50	703.49
115	5.700	920.40	859.10	820.28	820.24	820.11	703.80
116	5.750	918.38	858.21	819.91	819.80	819.67	704.11
117	5.800	916.40	857.30	819.48	819.31	819.16	704.42
118	5.850	914.44	856.38	818.98	818.74	818.57	704.73
119	5.900	912.50	855.45	818.39	818.07	817.89	705.04
120	5.950	910.59	854.51	817.68	817.30	817.10	705.35
121	6.000	908.71	853.56	817.07	816.58	816.37	705.66
122	6.050	906.86	852.59	816.76	816.06	815.84	705.97
123	6.100	905.02	851.63	816.49	815.61	815.39	706.28
124	6.150	903.22	850.65	816.24	815.23	815.02	706.59
125	6.200	901.44	849.67	816.11	815.26	815.14	706.90
126	6.250	899.68	848.69	816.10	815.31	815.16	707.21
127	6.300	897.95	847.70	816.02	815.30	815.17	707.52
128	6.350	896.24	846.71	815.95	815.27	815.13	707.83
129	6.400	894.56	845.71	815.86	815.20	815.09	708.14
130	6.450	892.90	844.70	815.75	815.12	815.01	708.45
131	6.500	891.26	843.69	815.63	815.01	814.91	708.76
132	6.550	889.65	842.67	815.49	814.88	814.79	709.07
133	6.600	888.06	841.64	815.36	814.75	814.66	709.38
134	6.650	886.50	840.60	815.22	814.61	814.52	709.69
135	6.700	884.96	839.56	815.08	814.47	814.38	710.00
136	6.750	883.44	838.51	814.94	814.33	814.24	710.31
137	6.800	881.94	837.45	814.80	814.19	814.11	710.62
138	6.850	880.47	836.38	814.66	814.05	813.98	710.93
139	6.900	879.01	835.29	814.52	813.92	813.84	711.24

140	6.950	877.58	834.20	814.38	813.78	813.71	801.77
141	7.050	876.17	833.09	814.24	813.64	813.57	801.87
142	7.050	874.78	831.97	814.10	813.50	813.43	801.94
143	7.100	873.41	830.84	813.96	813.35	813.28	801.99
144	7.150	872.06	829.71	813.80	813.20	813.13	802.01
145	7.200	870.73	828.59	813.65	813.04	812.97	802.01
146	7.250	869.42	827.48	813.49	812.88	812.81	802.00
147	7.300	868.13	826.40	813.32	812.71	812.64	801.97
148	7.350	866.86	825.35	813.15	812.54	812.47	801.91
149	7.400	865.61	824.33	812.98	812.35	812.29	801.84
150	7.450	864.38	823.35	812.79	812.16	812.09	801.76
151	7.500	863.16	822.40	812.60	811.96	811.89	801.66
152	7.550	861.97	821.48	812.40	811.75	811.68	801.54
153	7.600	860.79	820.59	812.19	811.53	811.47	801.42
154	7.650	859.63	819.74	811.98	811.30	811.24	801.27
155	7.700	858.49	818.93	811.75	811.07	811.01	801.12
156	7.750	857.37	818.15	811.53	810.83	810.77	800.96
157	7.800	856.26	817.40	811.29	810.59	810.52	800.79
158	7.850	855.17	816.69	811.05	810.34	810.27	800.61
159	7.900	854.10	816.00	810.81	810.08	810.02	800.42
160	7.950	853.04	815.35	810.56	809.82	809.76	800.22
161	8.000	852.00	814.73	810.31	809.56	809.49	800.02
162	8.050	850.98	814.13	810.05	809.29	809.23	799.81
163	8.100	849.97	813.57	809.79	809.02	808.96	799.59
164	8.150	848.98	813.03	809.53	808.74	808.68	799.37
165	8.200	848.01	812.52	809.26	808.47	808.41	799.15
166	8.250	847.06	812.03	808.99	808.19	808.13	798.92
167	8.300	846.12	811.56	808.72	807.91	807.85	798.68
168	8.350	845.20	811.11	808.45	807.63	807.57	798.45
169	8.400	844.29	810.69	808.18	807.35	807.29	798.21
170	8.450	843.40	810.28	807.90	807.07	807.01	797.96
171	8.500	842.52	809.88	807.63	806.78	806.72	797.72
172	8.550	841.66	809.50	807.33	806.48	806.42	797.46
173	8.600	840.82	809.14	807.04	806.19	806.13	797.21
174	8.650	839.99	808.78	806.75	805.90	805.84	796.96
175	8.700	839.18	808.44	806.47	805.61	805.55	796.70
176	8.750	838.38	808.10	806.18	805.32	805.26	796.44
177	8.800	837.60	807.77	805.89	805.03	804.97	796.18
178	8.850	836.83	807.45	805.61	804.74	804.68	795.92
179	8.900	836.07	807.13	805.32	804.45	804.39	795.66
180	8.950	835.33	806.82	805.03	804.16	804.10	795.40
181	9.000	834.61	806.51	804.75	803.87	803.81	795.14
182	9.050	833.90	806.20	804.46	803.58	803.52	794.88
183	9.100	833.20	805.89	804.17	803.29	803.23	794.62
184	9.150	832.52	805.58	803.89	803.00	802.94	794.35
185	9.200	831.85	805.28	803.60	802.71	802.65	794.09
186	9.250	831.19	804.97	803.31	802.42	802.36	793.83
187	9.300	830.55	804.66	803.03	802.13	802.07	793.56
188	9.350	829.92	804.34	802.74	801.84	801.78	793.30
189	9.400	829.31	804.03	802.46	801.56	801.50	793.03
190	9.450	828.71	803.71	802.17	801.27	801.21	792.77
191	9.500	828.12	803.40	801.89	800.98	800.92	792.50
192	9.550	827.54	803.08	801.61	800.70	800.64	792.24
193	9.600	826.98	802.76	801.32	800.41	800.35	791.98
194	9.650	826.43	802.45	801.04	800.12	800.07	791.71
195	9.700	825.89	802.13	800.76	799.84	799.78	791.45
196	9.750	825.37	801.81	800.47	799.55	799.49	791.18
197	9.800	824.85	801.49	800.19	799.27	799.21	790.92
198	9.850	824.35	801.17	799.91	798.98	798.92	790.66
199	9.900	823.87	800.86	799.62	798.69	798.64	790.39
200	9.950	823.39	800.54	799.34	798.41	798.35	790.13
201	10.000	822.93	800.23	799.05	798.12	798.06	789.86
202	10.050	822.47	799.91	798.77	797.83	797.77	789.60
203	10.100	822.03	799.60	798.48	797.54	797.49	789.34
204	10.150	821.60	799.29	798.20	797.26	797.20	789.07
205	10.200	821.19	798.98	797.92	796.97	796.91	788.81
206	10.250	820.78	798.68	797.63	796.68	796.63	788.55
207	10.300	820.38	798.37	797.37	796.45	796.41	788.23
208	10.350	820.00	798.07	797.13	796.26	796.22	787.82
209	10.400	819.63	797.77	796.91	796.09	796.06	787.36
210	10.450	819.27	797.48	796.67	795.85	795.80	786.96
211	10.500	818.92	797.18	796.38	795.55	795.50	786.60
212	10.550	818.59	796.89	796.09	795.26	795.21	786.26
213	10.600	818.26	796.60	795.80	794.97	794.92	785.91
214	10.650	817.95	796.31	795.52	794.68	794.63	785.57
215	10.700	817.65	796.02	795.24	794.40	794.35	785.22
216	10.750	817.37	795.74	794.96	794.12	794.06	784.88
217	10.800	817.09	795.46	794.68	793.84	793.79	784.54
218	10.850	816.82	795.18	794.42	793.57	793.52	784.21
219	10.900	816.56	794.91	794.15	793.30	793.25	783.88
220	10.950	816.31	794.64	793.89	793.04	792.98	783.56
221	11.000	816.07	794.39	793.62	792.77	792.72	783.24
222	11.050	815.85	794.15	793.35	792.50	792.44	782.93
223	11.100	815.62	793.92	793.07	792.22	792.17	782.62
224	11.150	815.41	793.69	792.80	791.94	791.88	782.32
225	11.200	815.21	793.45	792.52	791.66	791.60	782.02
226	11.250	815.01	793.19	792.22	791.35	791.30	781.72
227	11.300	814.83	792.93	791.92	791.05	791.00	781.42
228	11.350	814.65	792.65	791.63	790.76	790.71	781.13
229	11.400	814.47	792.38	791.34	790.47	790.42	780.84
230	11.450	814.31	792.11	791.05	790.18	790.13	780.55
231	11.500	814.15	791.85	790.77	789.90	789.85	780.27
232	11.550	814.00	791.58	790.48	789.62	789.56	779.98
233	11.600	813.85	791.32	790.20	789.33	789.28	779.71
234	11.650	813.71	791.05	789.93	789.05	789.00	779.43

235	11.700	813.58	790.78	789.65	788.77	788.72	779.16
236	11.750	813.46	790.50	789.37	788.49	788.44	778.89
237	11.800	813.33	790.22	789.08	788.21	788.16	778.62
238	11.850	813.22	789.94	788.80	787.92	787.87	778.35
239	11.900	813.11	789.65	788.52	787.64	787.58	778.09
240	11.950	813.01	789.35	788.23	787.35	787.30	777.82
241	12.000	812.91	789.05	787.95	787.06	787.01	777.56
242	12.050	812.81	788.75	787.67	786.78	786.72	777.30
243	12.100	812.73	788.45	787.38	786.49	786.44	777.04
244	12.150	812.64	788.16	787.10	786.21	786.15	776.79
245	12.200	812.56	787.86	786.82	785.93	785.87	776.53
246	12.250	812.49	787.57	786.54	785.64	785.59	776.28
247	12.300	812.42	787.27	786.26	785.36	785.31	776.03
248	12.350	812.35	786.98	785.98	785.08	785.02	775.78
249	12.400	812.29	786.69	785.70	784.80	784.74	775.53
250	12.450	812.23	786.40	785.42	784.51	784.46	775.28
251	12.500	812.18	786.10	785.14	784.23	784.17	775.03
252	12.550	812.13	785.82	784.86	783.94	783.89	774.79
253	12.600	812.08	785.53	784.58	783.66	783.60	774.55
254	12.650	812.04	785.24	784.30	783.38	783.32	774.30
255	12.700	812.00	784.96	784.02	783.09	783.03	774.06
256	12.750	811.96	784.68	783.74	782.81	782.75	773.82
257	12.800	811.93	784.41	783.46	782.52	782.47	773.58
258	12.850	811.90	784.13	783.19	782.24	782.19	773.34
259	12.900	811.87	783.86	782.91	781.96	781.90	773.10
260	12.950	811.85	783.58	782.63	781.68	781.62	772.87
261	13.000	811.83	783.31	782.35	781.40	781.34	772.63
262	13.050	811.81	783.04	782.08	781.12	781.06	772.39
263	13.100	811.79	782.77	781.80	780.84	780.78	772.16
264	13.150	811.78	782.50	781.53	780.56	780.50	771.93
265	13.200	811.77	782.23	781.25	780.28	780.23	771.69
266	13.250	811.76	781.96	780.98	780.01	779.95	771.46
267	13.300	811.75	781.70	780.71	779.73	779.67	771.23
268	13.350	811.75	781.43	780.44	779.45	779.40	771.00
269	13.400	811.75	781.16	780.16	779.18	779.12	770.77
270	13.450	811.75	780.90	779.89	778.91	778.85	770.55
271	13.500	811.75	780.63	779.62	778.63	778.57	770.32
272	13.550	811.76	780.37	779.36	778.36	778.30	770.09
273	13.600	811.77	780.10	779.09	778.09	778.03	769.87
274	13.650	811.78	779.84	778.82	777.82	777.76	769.64
275	13.700	811.79	779.58	778.55	777.55	777.49	769.42
276	13.750	811.80	779.31	778.29	777.28	777.21	769.19
277	13.800	811.81	779.05	778.02	777.01	776.95	768.97
278	13.850	811.83	778.79	777.75	776.74	776.68	768.75
279	13.900	811.85	778.53	777.47	776.45	776.38	768.53
280	13.950	811.87	778.26	777.19	776.17	776.10	768.30
281	13.975	811.88	778.13	777.21	776.20	776.13	768.17
282	14.000	811.89	778.00	777.02	776.01	775.94	768.04
283	14.050	811.91	777.74	776.73	775.72	775.65	767.91
284	14.100	811.93	777.49	776.47	775.46	775.39	767.78
285	14.150	811.95	777.23	776.21	775.20	775.13	767.65
286	14.200	811.97	776.97	775.95	774.94	774.87	767.52
287	14.250	811.99	776.71	775.69	774.68	774.61	767.39
288	14.300	812.01	776.45	775.43	774.42	774.35	767.26
289	14.350	812.03	776.18	775.17	774.16	774.09	767.13
290	14.400	812.04	775.92	774.91	773.90	773.83	767.00
291	14.450	812.06	775.66	774.65	773.64	773.57	766.87
292	14.500	812.08	775.40	774.39	773.38	773.31	766.74
293	14.550	812.09	775.14	774.13	773.12	773.05	766.61
294	14.600	812.11	774.88	773.87	772.86	772.79	766.48
295	14.650	812.12	774.62	773.61	772.60	772.53	766.35
296	14.700	812.14	774.36	773.35	772.34	772.27	766.22
297	14.750	812.15	774.10	773.09	772.08	772.01	766.09
298	14.800	812.16	773.84	772.83	771.82	771.75	765.96
299	14.850	812.18	773.58	772.57	771.56	771.49	765.83
300	14.900	812.19	773.32	772.31	771.30	771.23	765.70
301	14.950	812.20	773.06	772.05	771.04	770.97	765.57
302	15.000	812.21	772.80	771.79	770.78	770.71	765.44
303	15.050	812.22	772.54	771.53	770.52	770.45	765.31
304	15.100	812.23	772.28	771.27	770.26	770.19	765.18
305	15.150	812.24	772.02	771.01	770.00	769.93	765.05
306	15.200	812.26	771.76	770.75	769.74	769.67	764.92
307	15.250	812.27	771.50	770.49	769.48	769.41	764.79
308	15.300	812.27	771.24	770.23	769.22	769.15	764.66
309	15.350	812.28	770.98	770.07	769.06	768.99	764.53
310	15.400	812.29	770.72	769.81	768.80	768.73	764.40
311	15.450	812.30	770.46	769.55	768.54	768.47	764.27
312	15.500	812.31	770.20	769.29	768.28	768.21	764.14
313	15.550	812.32	769.94	769.03	768.02	767.95	764.01
314	15.600	812.33	769.68	768.77	767.76	767.69	763.88
315	15.650	812.33	769.42	768.51	767.50	767.43	763.75
316	15.700	812.34	769.16	768.25	767.24	767.17	763.62
317	15.750	812.35	768.90	768.09	767.08	767.01	763.49
318	15.800	812.36	768.64	767.83	766.82	766.75	763.36
319	15.850	812.36	768.38	767.57	766.56	766.49	763.23
320	15.900	812.37	768.12	767.31	766.30	766.23	763.10
321	15.950	812.38	767.86	767.05	766.04	765.97	762.97
322	16.000	812.38	767.60	766.79	765.78	765.71	762.84
323	16.050	812.39	767.34	766.53	765.52	765.45	762.71
324	16.100	812.39	767.08	766.27	765.26	765.19	762.58
325	16.150	812.40	766.82	766.01	765.00	764.93	762.45
326	16.200	812.40	766.56	765.75	764.74	764.67	762.32
327	16.250	812.41	766.30	765.49	764.48	764.41	762.19
328	16.300	812.42	766.04	765.23	764.22	764.15	762.06
329	16.350	812.42	765.78	764.97	764.06	763.99	761.93

330	16.400	812.42	762.19	760.41	759.71	759.66	748.55
331	16.450	812.43	761.94	760.16	759.46	759.42	748.28
332	16.500	812.43	761.69	759.92	759.21	759.15	748.02
333	16.550	812.44	761.43	759.67	758.96	758.91	747.75
334	16.600	812.44	761.18	759.42	758.71	758.66	747.50
335	16.650	812.45	760.92	759.17	758.46	758.41	747.24
336	16.700	812.45	760.67	758.92	758.21	758.16	746.99
337	16.750	812.45	760.42	758.67	757.96	757.91	746.73
338	16.800	812.46	760.17	758.43	757.71	757.66	746.49
339	16.850	812.46	759.92	758.18	757.46	757.42	746.24
340	16.900	812.47	759.67	757.94	757.21	757.17	746.00
341	16.950	812.47	759.43	757.69	756.97	756.92	745.76
342	17.000	812.47	759.19	757.45	756.72	756.68	745.52
343	17.050	812.47	758.95	757.20	756.47	756.43	745.28
344	17.100	812.48	758.71	756.96	756.23	756.18	745.05
345	17.150	812.48	758.48	756.72	755.98	755.94	744.81
346	17.200	812.48	758.25	756.47	755.74	755.69	744.58
347	17.250	812.49	758.03	756.23	755.49	755.45	744.36
348	17.300	812.49	757.80	755.99	755.25	755.21	744.13
349	17.350	812.49	757.58	755.75	755.01	754.96	743.90
350	17.400	812.49	757.36	755.51	754.77	754.72	743.68
351	17.450	812.50	757.14	755.27	754.53	754.48	743.46
352	17.500	812.50	756.93	755.03	754.28	754.24	743.24
353	17.550	812.50	756.71	754.80	754.05	754.00	743.02
354	17.600	812.50	756.50	754.56	753.81	753.76	742.81
355	17.650	812.51	756.29	754.32	753.57	753.52	742.59
356	17.700	812.51	756.08	754.09	753.33	753.29	742.38
357	17.750	812.51	755.87	753.85	753.10	753.05	742.17
358	17.800	812.51	755.67	753.62	752.86	752.82	741.96
359	17.850	812.51	755.46	753.39	752.63	752.58	741.75
360	17.900	812.52	755.26	753.16	752.39	752.35	741.54
361	17.950	812.52	755.06	752.93	752.16	752.12	741.33
362	18.000	812.52	754.86	752.70	751.93	751.88	741.13
363	18.050	812.52	754.66	752.47	751.70	751.65	740.92
364	18.100	812.52	754.46	752.24	751.47	751.42	740.72
365	18.150	812.52	754.26	752.01	751.24	751.19	740.52
366	18.200	812.53	754.07	751.78	751.01	750.96	740.32
367	18.250	812.53	753.87	751.55	750.78	750.74	740.12
368	18.300	812.53	753.68	751.33	750.55	750.51	739.92
369	18.350	812.53	753.49	751.10	750.33	750.28	739.72
370	18.400	812.53	753.30	750.88	750.10	750.06	739.52
371	18.450	812.53	753.11	750.65	749.88	749.83	739.33
372	18.500	812.53	752.93	750.43	749.65	749.61	739.13
373	18.550	812.53	752.75	750.21	749.43	749.38	738.94
374	18.600	812.54	752.57	749.99	749.20	749.16	738.74
375	18.650	812.54	752.39	749.78	748.98	748.93	738.55
376	18.700	812.54	752.22	749.54	748.76	748.71	738.36
377	18.750	812.54	752.04	749.32	748.54	748.49	738.17
378	18.800	812.54	751.87	749.10	748.31	748.27	737.98
379	18.850	812.54	751.70	748.88	748.09	748.05	737.79
380	18.900	812.54	751.54	748.66	747.87	747.83	737.61
381	18.950	812.54	751.38	748.45	747.65	747.61	737.42
382	19.000	812.54	751.22	748.23	747.44	747.39	737.23
383	19.050	812.54	751.06	748.01	747.22	747.17	737.05
384	19.100	812.55	750.91	747.80	747.00	746.96	736.86
385	19.150	812.55	750.76	747.58	746.78	746.74	736.68
386	19.200	812.55	750.61	747.37	746.57	746.52	736.50
387	19.250	812.55	750.47	747.15	746.35	746.31	736.31
388	19.300	812.55	750.33	746.94	746.14	746.09	736.13
389	19.350	812.55	750.19	746.73	745.92	745.88	735.95
390	19.400	812.55	750.06	746.51	745.71	745.67	735.77
391	19.450	812.55	749.93	746.30	745.50	745.45	735.59
392	19.500	812.55	749.81	746.09	745.29	745.24	735.41
393	19.550	812.55	749.69	745.88	745.07	745.03	735.23
394	19.600	812.55	749.57	745.67	744.86	744.82	735.05
395	19.650	812.55	749.45	745.46	744.65	744.61	734.87
396	19.700	812.55	749.34	745.25	744.44	744.40	734.70
397	19.750	812.55	749.24	745.04	744.24	744.19	734.52
398	19.800	812.56	749.13	744.84	744.03	743.98	734.35
399	19.850	812.56	749.04	744.63	743.82	743.78	734.17
400	19.900	812.56	748.94	744.42	743.61	743.57	733.99
401	19.950	812.56	748.85	744.22	743.41	743.36	733.82
402	20.000	812.56	748.76	744.01	743.20	743.16	733.65
403	20.050	812.56	748.68	743.81	742.99	742.95	733.47
404	20.100	812.56	748.60	743.60	742.79	742.75	733.30
405	20.150	812.56	748.53	743.40	742.59	742.54	733.13
406	20.200	812.56	748.45	743.20	742.38	742.34	732.96
407	20.250	812.56	748.39	742.99	742.18	742.14	732.79
408	20.300	812.56	748.32	742.79	741.98	741.93	732.61
409	20.350	812.56	748.26	742.59	741.77	741.73	732.44
410	20.400	812.56	748.20	742.39	741.57	741.53	732.27
411	20.450	812.56	748.15	742.19	741.37	741.33	732.10
412	20.500	812.56	748.10	741.99	741.17	741.13	731.94
413	20.550	812.56	748.05	741.79	740.97	740.93	731.77
414	20.600	812.56	748.00	741.59	740.78	740.73	731.60
415	20.650	812.56	747.96	741.39	740.58	740.54	731.43
416	20.700	812.56	747.92	741.20	740.38	740.34	731.26
417	20.750	812.56	747.88	741.00	740.18	740.14	731.10
418	20.800	812.56	747.85	740.80	739.99	739.94	730.93
419	20.850	812.56	747.82	740.61	739.79	739.75	730.76
420	20.900	812.56	747.79	740.41	739.59	739.55	730.60
421	20.950	812.56	747.76	740.22	739.40	739.36	730.43
422	21.000	812.56	747.73	740.02	739.20	739.16	730.27
423	21.050	812.56	747.71	739.83	739.01	738.97	730.10
424	21.100	812.56	747.69	739.63	738.82	738.77	729.94

425	21.150	812.56	747.66	739.44	738.62	738.58	729.77
426	21.200	812.57	747.65	739.25	738.43	738.39	729.61
427	21.250	812.57	747.63	739.06	738.24	738.20	729.44
428	21.300	812.57	747.61	738.86	738.05	738.00	729.28
429	21.350	812.57	747.59	738.67	737.85	737.81	729.11
430	21.400	812.57	747.58	738.48	737.66	737.62	728.95
431	21.450	812.57	747.57	738.29	737.47	737.43	728.79
432	21.500	812.57	747.55	738.10	737.28	737.24	728.62
433	21.550	812.57	747.54	737.91	737.09	737.05	728.46
434	21.600	812.57	747.53	737.72	736.90	736.86	728.30
435	21.650	812.57	747.52	737.53	736.71	736.67	728.14
436	21.700	812.57	747.51	737.34	736.53	736.48	727.97
437	21.750	812.57	747.50	737.16	736.34	736.29	727.81
438	21.800	812.57	747.50	736.97	736.15	736.11	727.65
439	21.850	812.57	747.49	736.78	735.96	735.92	727.49
440	21.900	812.57	747.48	736.59	735.78	735.73	727.32
441	21.950	812.57	747.48	736.41	735.59	735.55	727.16
442	22.000	812.57	747.47	736.22	735.40	735.36	727.00
443	22.050	812.57	747.47	736.04	735.22	735.17	726.83
444	22.100	812.57	747.46	735.85	735.03	734.99	726.67
445	22.150	812.57	747.46	735.67	734.85	734.80	726.51
446	22.200	812.57	747.45	735.48	734.66	734.62	726.35
447	22.250	812.57	747.45	735.30	734.48	734.43	726.18
448	22.300	812.57	747.44	735.11	734.29	734.25	726.02
449	22.350	812.57	747.44	734.93	734.11	734.07	725.86
450	22.400	812.57	747.44	734.74	733.93	733.88	725.69
451	22.450	812.57	747.43	734.56	733.74	733.70	725.53
452	22.500	812.57	747.43	734.37	733.56	733.51	725.37
453	22.550	812.57	747.43	734.19	733.37	733.33	725.20
454	22.600	812.57	747.43	734.00	733.19	733.15	725.04
455	22.650	812.57	747.42	733.82	733.01	732.96	724.87
456	22.700	812.57	747.42	733.63	732.82	732.78	724.71
457	22.750	812.57	747.42	733.45	732.64	732.59	724.54
458	22.800	812.57	747.42	733.26	732.45	732.41	724.37
459	22.850	812.57	747.42	733.08	732.27	732.22	724.20
460	22.900	812.57	747.42	732.89	732.08	732.04	724.04
461	22.950	812.57	747.41	732.71	731.90	731.85	723.87
462	23.000	812.57	747.41	732.52	731.71	731.67	723.70
463	23.050	812.57	747.41	732.33	731.53	731.48	723.53
464	23.100	812.57	747.41	732.14	731.34	731.30	723.36
465	23.150	812.57	747.41	731.96	731.15	731.11	723.19
466	23.200	812.57	747.41	731.77	730.97	730.92	723.01
467	23.250	812.57	747.41	731.58	730.78	730.73	722.84
468	23.300	812.57	747.41	731.38	730.59	730.54	722.66
469	23.350	812.57	747.41	731.19	730.40	730.35	722.49
470	23.400	812.57	747.40	731.00	730.20	730.16	722.31
471	23.450	812.57	747.40	730.80	730.01	729.96	722.13
472	23.500	812.57	747.40	730.60	729.82	729.77	721.95
473	23.550	812.57	747.40	730.41	729.62	729.57	721.76
474	23.600	812.57	747.40	730.21	729.42	729.38	721.58
475	23.650	812.57	747.40	730.00	729.22	729.18	721.39
476	23.700	812.57	747.40	729.80	729.02	728.98	721.21
477	23.750	812.57	747.40	729.59	728.82	728.77	721.02
478	23.800	812.57	747.40	729.39	728.62	728.57	720.83
479	23.850	812.57	747.40	729.18	728.41	728.36	720.63
480	23.900	812.57	747.40	728.97	728.20	728.16	720.44
481	23.950	812.57	747.40	728.75	728.00	727.95	720.24
482	24.000	812.57	747.40	728.54	727.79	727.74	720.05
483	24.050	812.57	747.40	728.33	727.58	727.53	719.86
484	24.100	812.57	747.40	728.11	727.36	727.31	719.67
485	24.150	812.57	747.40	727.89	727.15	727.10	719.48
486	24.200	812.57	747.40	727.67	726.93	726.88	719.28
487	24.250	812.57	747.40	727.45	726.72	726.67	719.09
488	24.300	812.57	747.40	727.23	726.50	726.45	718.89
489	24.350	812.57	747.40	727.00	726.28	726.23	718.70
490	24.400	812.57	747.40	726.78	726.06	726.01	718.50
491	24.450	812.57	747.40	726.55	725.83	725.78	718.30
492	24.500	812.57	747.39	726.32	725.61	725.56	718.09
493	24.550	812.57	747.39	726.10	725.38	725.33	717.89
494	24.600	812.57	747.39	725.87	725.16	725.11	717.69
495	24.650	812.57	747.39	725.63	724.93	724.88	717.48
496	24.700	812.57	747.39	725.40	724.70	724.65	717.27
497	24.750	812.57	747.39	725.17	724.47	724.42	717.06
498	24.800	812.57	747.39	724.94	724.24	724.19	716.85
499	24.850	812.57	747.39	724.70	724.01	723.96	716.64
500	24.900	812.57	747.39	724.47	723.78	723.73	716.43
501	24.950	812.57	747.39	724.23	723.55	723.50	716.21
502	25.000	812.57	747.39	724.00	723.31	723.26	716.00
503	25.050	812.57	747.39	723.76	723.08	723.03	715.78
504	25.100	812.57	747.39	723.52	722.85	722.79	715.56
505	25.150	812.57	747.39	723.29	722.61	722.56	715.34
506	25.200	812.57	747.39	723.05	722.38	722.33	715.12
507	25.250	812.57	747.39	722.81	722.14	722.09	714.90
508	25.300	812.57	747.39	722.57	721.91	721.85	714.67
509	25.350	812.57	747.39	722.34	721.67	721.62	714.45
510	25.400	812.57	747.39	722.10	721.44	721.38	714.22
511	25.450	812.57	747.39	721.86	721.20	721.15	713.99
512	25.500	812.57	747.39	721.62	720.97	720.91	713.76
513	25.550	812.57	747.39	721.38	720.73	720.67	713.52
514	25.600	812.57	747.39	721.14	720.49	720.44	713.29
515	25.650	812.57	747.39	720.90	720.26	720.20	713.05
516	25.700	812.57	747.39	720.67	720.02	719.97	712.81
517	25.750	812.57	747.39	720.43	719.79	719.73	712.57
518	25.800	812.57	747.39	720.19	719.55	719.49	712.33
519	25.850	812.57	747.39	719.95	719.31	719.26	712.09

520	25.900	812.57	747.39	719.71	719.08	719.02	711.85
521	25.950	812.57	747.39	719.47	718.84	718.79	711.60
522	26.000	812.57	747.39	719.24	718.61	718.55	711.36
523	26.050	812.57	747.39	719.00	718.37	718.32	711.11
524	26.100	812.57	747.39	718.76	718.14	718.08	710.86
525	26.150	812.57	747.39	718.52	717.90	717.85	710.61
526	26.200	812.57	747.39	718.29	717.67	717.61	710.35
527	26.250	812.57	747.39	718.05	717.43	717.38	710.10
528	26.300	812.57	747.39	717.82	717.20	717.14	709.84
529	26.350	812.57	747.39	717.58	716.97	716.91	709.58
530	26.400	812.57	747.39	717.35	716.73	716.68	709.33
531	26.450	812.57	747.39	717.11	716.50	716.45	709.07
532	26.500	812.57	747.39	716.88	716.27	716.21	708.80
533	26.550	812.57	747.39	716.64	716.04	715.98	708.54
534	26.600	812.57	747.39	716.41	715.81	715.75	708.28
535	26.650	812.57	747.39	716.18	715.58	715.52	708.01
536	26.700	812.57	747.39	715.94	715.34	715.29	707.75
537	26.750	812.57	747.39	715.71	715.11	715.06	707.48
538	26.800	812.57	747.39	715.48	714.89	714.83	707.21
539	26.850	812.57	747.39	715.25	714.66	714.60	706.94
540	26.900	812.57	747.39	715.02	714.43	714.37	706.68
541	26.950	812.57	747.39	714.79	714.20	714.14	706.41
542	27.000	812.57	747.39	714.56	713.97	713.92	706.14
543	27.050	812.57	747.39	714.33	713.75	713.69	705.87
544	27.100	812.57	747.39	714.11	713.52	713.46	705.60
545	27.150	812.57	747.39	713.88	713.30	713.24	705.33
546	27.200	812.57	747.39	713.65	713.07	713.01	705.05
547	27.250	812.57	747.39	713.43	712.85	712.79	704.78
548	27.300	812.57	747.39	713.20	712.63	712.57	704.51
549	27.350	812.57	747.39	712.98	712.40	712.34	704.24
550	27.400	812.57	747.39	712.75	712.18	712.12	703.98
551	27.450	812.57	747.39	712.53	711.96	711.90	703.71
552	27.500	812.57	747.39	712.31	711.74	711.68	703.44
553	27.550	812.57	747.39	712.09	711.52	711.46	703.18
554	27.600	812.57	747.39	711.87	711.30	711.24	702.92
555	27.650	812.57	747.39	711.65	711.09	711.03	702.66
556	27.700	812.57	747.39	711.43	710.87	710.81	702.40
557	27.750	812.57	747.39	711.21	710.66	710.60	702.14
558	27.800	812.57	747.39	711.00	710.44	710.38	701.89
559	27.850	812.57	747.39	710.78	710.23	710.17	701.64
560	27.900	812.57	747.39	710.57	710.02	709.95	701.40
561	27.950	812.57	747.39	710.36	709.80	709.74	701.15
562	28.000	812.57	747.39	710.14	709.59	709.53	700.91
563	28.050	812.57	747.39	709.93	709.38	709.32	700.67
564	28.100	812.57	747.39	709.72	709.17	709.11	700.43
565	28.150	812.57	747.39	709.51	708.97	708.91	700.20
566	28.200	812.57	747.39	709.30	708.76	708.70	699.96
567	28.250	812.57	747.39	709.10	708.55	708.49	699.73
568	28.300	812.57	747.39	708.89	708.35	708.29	699.50
569	28.350	812.57	747.39	708.69	708.15	708.09	699.27
570	28.400	812.57	747.39	708.48	707.94	707.88	699.05
571	28.450	812.57	747.39	708.28	707.74	707.68	698.82
572	28.500	812.57	747.39	708.08	707.54	707.48	698.60
573	28.550	812.57	747.39	707.88	707.34	707.28	698.38
574	28.600	812.57	747.39	707.68	707.15	707.08	698.16
575	28.650	812.57	747.39	707.48	706.95	706.89	697.94
576	28.700	812.57	747.39	707.28	706.75	706.69	697.72
577	28.750	812.57	747.39	707.08	706.56	706.50	697.50
578	28.800	812.57	747.39	706.89	706.36	706.30	697.29
579	28.850	812.57	747.39	706.69	706.17	706.11	697.07
580	28.900	812.57	747.39	706.50	705.98	705.92	696.86
581	28.950	812.57	747.39	706.31	705.79	705.73	696.65
582	29.000	812.57	747.39	706.12	705.60	705.54	696.44
583	29.050	812.57	747.39	705.93	705.41	705.35	696.23
584	29.100	812.57	747.39	705.74	705.23	705.17	696.02
585	29.150	812.57	747.39	705.55	705.04	704.98	695.81
586	29.200	812.57	747.39	705.37	704.86	704.80	695.61
587	29.250	812.57	747.39	705.18	704.68	704.61	695.40
588	29.300	812.57	747.39	705.00	704.49	704.43	695.20
589	29.350	812.57	747.39	704.82	704.31	704.25	694.99
590	29.400	812.57	747.39	704.64	704.13	704.07	694.79
591	29.450	812.57	747.39	704.46	703.96	703.89	694.59
592	29.500	812.57	747.39	704.28	703.78	703.72	694.39
593	29.550	812.57	747.39	704.10	703.60	703.54	694.19
594	29.600	812.57	747.39	703.93	703.43	703.37	693.99
595	29.650	812.57	747.39	703.75	703.26	703.19	693.80
596	29.700	812.57	747.39	703.58	703.08	703.02	693.60
597	29.750	812.57	747.39	703.41	702.91	702.85	693.40
598	29.800	812.57	747.39	703.24	702.74	702.68	693.21
599	29.850	812.57	747.39	703.07	702.58	702.51	693.02
600	29.900	812.57	747.39	702.90	702.41	702.35	692.82
601	29.950	812.57	747.39	702.73	702.24	702.18	692.63
602	30.000	812.57	747.39	702.56	702.08	702.02	692.44
603	30.050	812.57	747.39	702.40	701.92	701.85	692.25
604	30.100	812.57	747.39	702.24	701.75	701.69	692.06
605	30.150	812.57	747.39	702.07	701.59	701.53	691.88
606	30.200	812.57	747.39	701.91	701.43	701.37	691.69
607	30.250	812.57	747.39	701.75	701.28	701.21	691.51
608	30.300	812.57	747.39	701.59	701.12	701.06	691.33
609	30.350	812.57	747.39	701.44	700.96	700.90	691.15
610	30.400	812.57	747.39	701.28	700.81	700.75	690.97
611	30.450	812.57	747.39	701.12	700.66	700.59	690.79
612	30.500	812.57	747.39	700.97	700.50	700.44	690.61
613	30.550	812.57	747.39	700.82	700.35	700.29	690.43
614	30.600	812.57	747.39	700.67	700.20	700.14	690.26

615	30.650	012.57	747.39	700.52	700.06	699.99	690.08
616	30.700	012.57	747.39	700.37	699.91	699.85	689.91
617	30.750	012.57	747.39	700.22	699.76	699.70	689.74
618	30.800	012.57	747.39	700.08	699.62	699.55	689.57
619	30.850	012.57	747.39	699.93	699.47	699.41	689.40
620	30.900	012.57	747.39	699.79	699.33	699.27	689.23
621	30.950	012.57	747.39	699.64	699.19	699.13	689.06
622	31.000	012.57	747.39	699.50	699.05	698.99	688.90
623	31.050	012.57	747.39	699.36	698.91	698.85	688.73
624	31.100	012.57	747.39	699.22	698.78	698.71	688.57
625	31.150	012.57	747.39	699.09	698.64	698.58	688.41
626	31.200	012.57	747.39	698.95	698.51	698.44	688.25
627	31.250	012.57	747.39	698.82	698.37	698.31	688.10
628	31.300	012.57	747.39	698.68	698.24	698.18	687.94
629	31.350	012.57	747.39	698.55	698.11	698.05	687.79
630	31.400	012.57	747.39	698.42	697.98	697.92	687.63
631	31.450	012.57	747.39	698.29	697.85	697.79	687.48
632	31.500	012.57	747.39	698.16	697.72	697.66	687.33
633	31.550	012.57	747.39	698.03	697.60	697.53	687.18
634	31.600	012.57	747.39	697.90	697.47	697.41	687.04
635	31.650	012.57	747.39	697.78	697.35	697.29	686.89
636	31.700	012.57	747.39	697.65	697.23	697.16	686.75
637	31.750	012.57	747.39	697.53	697.10	697.04	686.60
638	31.800	012.57	747.39	697.41	696.98	696.92	686.46
639	31.850	012.57	747.39	697.29	696.86	696.80	686.32
640	31.900	012.57	747.39	697.17	696.75	696.68	686.19
641	31.950	012.57	747.39	697.05	696.63	696.57	686.05
642	32.000	012.57	747.39	696.93	696.51	696.45	685.91
643	32.050	012.57	747.39	696.82	696.40	696.34	685.78
644	32.100	012.57	747.39	696.70	696.29	696.22	685.65
645	32.150	012.57	747.39	696.59	696.17	696.11	685.52
646	32.200	012.57	747.39	696.48	696.06	696.00	685.39
647	32.250	012.57	747.39	696.36	695.95	695.89	685.26
648	32.300	012.57	747.39	696.25	695.84	695.78	685.13
649	32.350	012.57	747.39	696.14	695.74	695.67	685.01
650	32.400	012.57	747.39	696.04	695.63	695.57	684.89
651	32.450	012.57	747.39	695.93	695.52	695.46	684.76
652	32.500	012.57	747.39	695.82	695.42	695.36	684.64
653	32.550	012.57	747.39	695.72	695.32	695.26	684.52
654	32.600	012.57	747.39	695.61	695.21	695.15	684.41
655	32.650	012.57	747.39	695.51	695.11	695.05	684.29
656	32.700	012.57	747.39	695.41	695.01	694.95	684.17
657	32.750	012.57	747.39	695.31	694.91	694.85	684.06
658	32.800	012.57	747.39	695.21	694.82	694.76	683.95
659	32.850	012.57	747.39	695.11	694.72	694.66	683.84
660	32.900	012.57	747.39	695.01	694.62	694.56	683.73
661	32.950	012.57	747.39	694.92	694.53	694.47	683.62
662	33.000	012.57	747.39	694.82	694.43	694.37	683.51
663	33.050	012.57	747.39	694.73	694.34	694.28	683.41
664	33.100	012.57	747.39	694.63	694.25	694.19	683.30
665	33.150	012.57	747.39	694.54	694.16	694.10	683.20
666	33.200	012.57	747.39	694.45	694.07	694.01	683.10
667	33.250	012.57	747.39	694.36	693.98	693.92	683.00
668	33.300	012.57	747.39	694.27	693.89	693.83	682.90
669	33.350	012.57	747.39	694.18	693.81	693.75	682.80
670	33.400	012.57	747.39	694.10	693.72	693.66	682.70
671	33.450	012.57	747.39	694.01	693.64	693.58	682.60
672	33.500	012.57	747.39	693.92	693.55	693.49	682.51
673	33.550	012.57	747.39	693.84	693.47	693.41	682.42
674	33.600	012.57	747.39	693.76	693.39	693.33	682.32
675	33.650	012.57	747.39	693.67	693.31	693.25	682.23
676	33.700	012.57	747.39	693.59	693.23	693.17	682.14
677	33.750	012.57	747.39	693.51	693.15	693.09	682.05
678	33.800	012.57	747.39	693.43	693.07	693.01	681.96
679	33.850	012.57	747.39	693.35	692.99	692.93	681.88
680	33.900	012.57	747.39	693.28	692.92	692.86	681.79
681	33.950	012.57	747.39	693.20	692.84	692.78	681.71
682	34.000	012.57	747.39	693.12	692.77	692.71	681.62
683	34.050	012.57	747.39	693.05	692.69	692.63	681.54
684	34.100	012.57	747.39	692.97	692.62	692.56	681.46
685	34.150	012.57	747.39	692.90	692.55	692.49	681.38
686	34.200	012.57	747.39	692.83	692.48	692.42	681.30
687	34.250	012.57	747.39	692.76	692.41	692.35	681.22
688	34.300	012.57	747.39	692.69	692.34	692.28	681.15
689	34.350	012.57	747.39	692.62	692.27	692.21	681.07
690	34.400	012.57	747.39	692.55	692.20	692.14	680.99
691	34.450	012.57	747.39	692.48	692.13	692.07	680.92
692	34.500	012.57	747.39	692.41	692.07	692.01	680.85
693	34.550	012.57	747.39	692.34	692.00	691.94	680.77
694	34.600	012.57	747.39	692.28	691.94	691.88	680.70
695	34.650	012.57	747.39	692.21	691.87	691.82	680.63
696	34.700	012.57	747.39	692.15	691.81	691.75	680.56
697	34.750	012.57	747.39	692.08	691.75	691.69	680.49
698	34.800	012.57	747.39	692.02	691.69	691.63	680.43
699	34.850	012.57	747.39	691.96	691.62	691.57	680.36
700	34.900	012.57	747.39	691.90	691.56	691.51	680.29
701	34.950	012.57	747.39	691.84	691.51	691.45	680.23
702	35.000	012.57	747.39	691.78	691.45	691.39	680.16
703	35.050	012.57	747.39	691.72	691.39	691.33	680.10
704	35.100	012.57	747.39	691.66	691.33	691.27	680.04
705	35.150	012.57	747.39	691.60	691.28	691.22	679.97
706	35.200	012.57	747.39	691.54	691.22	691.16	679.91
707	35.250	012.57	747.39	691.49	691.16	691.11	679.85
708	35.300	012.57	747.39	691.43	691.11	691.05	679.79
709	35.350	012.57	747.39	691.38	691.06	691.00	679.73

710	35.400	812.57	747.39	691.32	691.00	690.95	679.67
711	35.450	812.57	747.39	691.27	690.95	690.89	679.62
712	35.500	812.57	747.39	691.22	690.90	690.84	679.56
713	35.550	812.57	747.39	691.16	690.85	690.79	679.50
714	35.600	812.57	747.39	691.11	690.80	690.74	679.45
715	35.650	812.57	747.39	691.06	690.75	690.69	679.39
716	35.700	812.57	747.39	691.01	690.70	690.64	679.34
717	35.750	812.57	747.39	690.96	690.65	690.59	679.29
718	35.800	812.57	747.39	690.91	690.60	690.55	679.23
719	35.850	812.57	747.39	690.86	690.55	690.50	679.18
720	35.900	812.57	747.39	690.81	690.51	690.45	679.13
721	35.950	812.57	747.39	690.77	690.46	690.40	679.08
722	36.000	812.57	747.39	690.72	690.41	690.36	679.03
723	36.050	812.57	747.39	690.67	690.37	690.31	678.98
724	36.100	812.57	747.39	690.63	690.32	690.27	678.93
725	36.150	812.57	747.39	690.58	690.28	690.22	678.88
726	36.200	812.57	747.39	690.54	690.24	690.18	678.83
727	36.250	812.57	747.39	690.49	690.19	690.14	678.79
728	36.300	812.57	747.39	690.45	690.15	690.10	678.74
729	36.350	812.57	747.39	690.41	690.11	690.05	678.69
730	36.400	812.57	747.39	690.36	690.07	690.01	678.65
731	36.450	812.57	747.39	690.32	690.03	689.97	678.60
732	36.500	812.57	747.39	690.28	689.99	689.93	678.56
733	36.550	812.57	747.39	690.24	689.95	689.89	678.51
734	36.600	812.57	747.39	690.20	689.91	689.85	678.47
735	36.650	812.57	747.39	690.16	689.87	689.81	678.43
736	36.700	812.57	747.39	690.12	689.83	689.77	678.39
737	36.750	812.57	747.39	690.08	689.79	689.74	678.34
738	36.800	812.57	747.39	690.04	689.75	689.70	678.30
739	36.850	812.57	747.39	690.00	689.72	689.66	678.26
740	36.900	812.57	747.39	689.96	689.68	689.62	678.22
741	36.950	812.57	747.39	689.93	689.64	689.59	678.18
742	37.000	812.57	747.39	689.89	689.61	689.55	678.14
743	37.050	812.57	747.39	689.85	689.57	689.52	678.10
744	37.100	812.57	747.39	689.82	689.54	689.48	678.06
745	37.150	812.57	747.39	689.78	689.50	689.45	678.02
746	37.200	812.57	747.39	689.75	689.47	689.41	677.99
747	37.250	812.57	747.39	689.71	689.43	689.38	677.95
748	37.300	812.57	747.39	689.68	689.40	689.35	677.91
749	37.350	812.57	747.39	689.64	689.37	689.31	677.87
750	37.400	812.57	747.39	689.61	689.33	689.28	677.84
751	37.450	812.57	747.39	689.58	689.30	689.25	677.80
752	37.500	812.57	747.39	689.54	689.27	689.22	677.77
753	37.550	812.57	747.39	689.51	689.24	689.19	677.73
754	37.600	812.57	747.39	689.48	689.21	689.15	677.70
755	37.650	812.57	747.39	689.45	689.18	689.12	677.66
756	37.700	812.57	747.39	689.42	689.15	689.09	677.63
757	37.750	812.57	747.39	689.38	689.12	689.06	677.59
758	37.800	812.57	747.39	689.35	689.09	689.03	677.56
759	37.850	812.57	747.39	689.32	689.06	689.00	677.53
760	37.900	812.57	747.39	689.29	689.03	688.98	677.49
761	37.950	812.57	747.39	689.26	689.00	688.95	677.46
762	38.000	812.57	747.39	689.23	688.97	688.92	677.43
763	38.050	812.57	747.39	689.21	688.94	688.89	677.40
764	38.100	812.57	747.39	689.18	688.92	688.86	677.37
765	38.150	812.57	747.39	689.15	688.89	688.84	677.33
766	38.200	812.57	747.39	689.12	688.86	688.81	677.30
767	38.250	812.57	747.39	689.09	688.83	688.78	677.27
768	38.300	812.57	747.39	689.07	688.81	688.76	677.24
769	38.350	812.57	747.39	689.04	688.78	688.73	677.21
770	38.400	812.57	747.39	689.01	688.76	688.70	677.18
771	38.450	812.57	747.39	688.99	688.73	688.68	677.15
772	38.500	812.57	747.39	688.96	688.70	688.65	677.12
773	38.550	812.57	747.39	688.93	688.68	688.63	677.09
774	38.600	812.57	747.39	688.91	688.65	688.60	677.07
775	38.650	812.57	747.39	688.88	688.63	688.58	677.04
776	38.700	812.57	747.39	688.86	688.61	688.55	677.01
777	38.750	812.57	747.39	688.83	688.58	688.53	676.98
778	38.800	812.57	747.39	688.81	688.56	688.51	676.95
779	38.850	812.57	747.39	688.78	688.53	688.48	676.93
780	38.900	812.57	747.39	688.76	688.51	688.46	676.90
781	38.950	812.57	747.39	688.74	688.49	688.44	676.87
782	39.000	812.57	747.39	688.71	688.47	688.41	676.85
783	39.050	812.57	747.39	688.69	688.44	688.39	676.82
784	39.100	812.57	747.39	688.67	688.42	688.37	676.79
785	39.150	812.57	747.39	688.64	688.40	688.35	676.77
786	39.200	812.57	747.39	688.62	688.38	688.33	676.74
787	39.250	812.57	747.39	688.60	688.36	688.30	676.71
788	39.300	812.57	747.39	688.58	688.33	688.28	676.69
789	39.350	812.57	747.39	688.55	688.31	688.26	676.66
790	39.400	812.57	747.39	688.53	688.29	688.24	676.64
791	39.450	812.57	747.39	688.51	688.27	688.22	676.61
792	39.500	812.57	747.39	688.49	688.25	688.20	676.59
793	39.550	812.57	747.39	688.47	688.23	688.18	676.57
794	39.600	812.57	747.39	688.45	688.21	688.16	676.54
795	39.650	812.57	747.39	688.43	688.19	688.14	676.52
796	39.700	812.57	747.39	688.41	688.17	688.12	676.49
797	39.750	812.57	747.39	688.39	688.15	688.10	676.47
798	39.800	812.57	747.39	688.37	688.13	688.08	676.45
799	39.850	812.57	747.39	688.35	688.11	688.06	676.42
800	39.900	812.57	747.39	688.33	688.10	688.04	676.40
801	39.950	812.57	747.39	688.31	688.08	688.03	676.38
802	40.000	812.57	747.39	688.29	688.06	688.01	676.35
803	40.050	812.57	747.39	688.27	688.04	687.99	676.33
804	40.100	812.57	747.39	688.25	688.02	687.97	676.31

805	40.150	812.57	747.39	688.23	688.00	687.95	676.29
806	40.200	812.57	747.39	688.21	687.99	687.94	676.27
807	40.250	812.57	747.39	688.20	687.97	687.92	676.24
808	40.300	812.57	747.39	688.18	687.95	687.90	676.22
809	40.350	812.57	747.39	688.16	687.93	687.88	676.20
810	40.400	812.57	747.39	688.14	687.92	687.87	676.18
811	40.450	812.57	747.39	688.13	687.90	687.85	676.16
812	40.500	812.57	747.39	688.11	687.88	687.83	676.14
813	40.550	812.57	747.39	688.09	687.87	687.82	676.12
814	40.600	812.57	747.39	688.07	687.85	687.80	676.10
815	40.650	812.57	747.39	688.06	687.83	687.78	676.08
816	40.700	812.57	747.39	688.04	687.82	687.77	676.05
817	40.750	812.57	747.39	688.02	687.80	687.75	676.03
818	40.800	812.57	747.39	688.01	687.79	687.74	676.01
819	40.850	812.57	747.39	687.99	687.77	687.72	675.99
820	40.900	812.57	747.39	687.97	687.75	687.70	675.97
821	40.950	812.57	747.39	687.96	687.74	687.69	675.95
822	41.000	812.57	747.39	687.94	687.72	687.67	675.94
823	41.050	812.57	747.39	687.93	687.71	687.66	675.92
824	41.100	812.57	747.39	687.91	687.69	687.64	675.90
825	41.150	812.57	747.39	687.90	687.68	687.63	675.88
826	41.200	812.57	747.39	687.88	687.66	687.61	675.86
827	41.250	812.57	747.39	687.87	687.65	687.60	675.84
828	41.300	812.57	747.39	687.85	687.64	687.59	675.82
829	41.350	812.57	747.39	687.84	687.62	687.57	675.80
830	41.400	812.57	747.39	687.82	687.61	687.56	675.78
831	41.450	812.57	747.39	687.81	687.59	687.54	675.77
832	41.500	812.57	747.39	687.79	687.58	687.53	675.75
833	41.550	812.57	747.39	687.78	687.57	687.52	675.73
834	41.600	812.57	747.39	687.76	687.55	687.50	675.71
835	41.650	812.57	747.39	687.75	687.54	687.49	675.69
836	41.700	812.57	747.39	687.73	687.52	687.48	675.68
837	41.750	812.57	747.39	687.72	687.51	687.46	675.66
838	41.800	812.57	747.39	687.71	687.50	687.45	675.64
839	41.850	812.57	747.39	687.69	687.49	687.44	675.62
840	41.900	812.57	747.39	687.68	687.47	687.42	675.61
841	41.950	812.57	747.39	687.67	687.46	687.41	675.59
842	42.000	812.57	747.39	687.65	687.45	687.40	675.57
843	42.050	812.57	747.39	687.64	687.43	687.38	675.55
844	42.100	812.57	747.39	687.63	687.42	687.37	675.54
845	42.150	812.57	747.39	687.61	687.41	687.36	675.52
846	42.200	812.57	747.39	687.60	687.40	687.35	675.50
847	42.250	812.57	747.39	687.59	687.38	687.34	675.49
848	42.300	812.57	747.39	687.58	687.37	687.32	675.47
849	42.350	812.57	747.39	687.56	687.36	687.31	675.45
850	42.400	812.57	747.39	687.55	687.35	687.30	675.44
851	42.450	812.57	747.39	687.54	687.34	687.29	675.42
852	42.500	812.57	747.39	687.53	687.32	687.28	675.41
853	42.550	812.57	747.39	687.51	687.31	687.26	675.39
854	42.600	812.57	747.39	687.50	687.30	687.25	675.37
855	42.650	812.57	747.39	687.49	687.29	687.24	675.36
856	42.700	812.57	747.39	687.48	687.28	687.23	675.34
857	42.750	812.57	747.39	687.47	687.27	687.22	675.33
858	42.800	812.57	747.39	687.45	687.26	687.21	675.31
859	42.850	812.57	747.39	687.44	687.24	687.20	675.30
860	42.900	812.57	747.39	687.43	687.23	687.19	675.28
861	42.950	812.57	747.39	687.42	687.22	687.17	675.27
862	43.000	812.57	747.39	687.41	687.21	687.16	675.25
863	43.050	812.57	747.39	687.40	687.20	687.15	675.24
864	43.100	812.57	747.39	687.39	687.19	687.14	675.22
865	43.150	812.57	747.39	687.37	687.18	687.13	675.21
866	43.200	812.57	747.39	687.36	687.17	687.12	675.19
867	43.250	812.57	747.39	687.35	687.16	687.11	675.18
868	43.300	812.57	747.39	687.34	687.15	687.10	675.16
869	43.350	812.57	747.39	687.33	687.14	687.09	675.15
870	43.400	812.57	747.39	687.32	687.13	687.08	675.13
871	43.450	812.57	747.39	687.31	687.12	687.07	675.12
872	43.500	812.57	747.39	687.30	687.11	687.06	675.11
873	43.550	812.57	747.39	687.29	687.10	687.05	675.09
874	43.600	812.57	747.39	687.28	687.09	687.04	675.08
875	43.650	812.57	747.39	687.27	687.08	687.03	675.06
876	43.700	812.57	747.39	687.26	687.07	687.02	675.05
877	43.750	812.57	747.39	687.25	687.06	687.01	675.04
878	43.800	812.57	747.39	687.24	687.05	687.00	675.02
879	43.850	812.57	747.39	687.23	687.04	686.99	675.01
880	43.900	812.57	747.39	687.22	687.03	686.98	675.00
881	43.950	812.57	747.39	687.21	687.02	686.97	674.98
882	44.000	812.57	747.39	687.20	687.01	686.96	674.97
883	44.050	812.57	747.39	687.19	687.00	686.96	674.95
884	44.100	812.57	747.39	687.18	686.99	686.95	674.94
885	44.150	812.57	747.39	687.17	686.99	686.94	674.93
886	44.200	812.57	747.39	687.16	686.98	686.93	674.92
887	44.250	812.57	747.39	687.15	686.97	686.92	674.90
888	44.300	812.57	747.39	687.14	686.96	686.91	674.89
889	44.350	812.57	747.39	687.13	686.95	686.90	674.88
890	44.400	812.57	747.39	687.12	686.94	686.89	674.86
891	44.450	812.57	747.39	687.12	686.93	686.88	674.85
892	44.500	812.57	747.39	687.11	686.92	686.88	674.84
893	44.550	812.57	747.39	687.10	686.92	686.87	674.83
894	44.600	812.57	747.39	687.09	686.91	686.86	674.81
895	44.650	812.57	747.39	687.08	686.90	686.85	674.80
896	44.700	812.57	747.39	687.07	686.89	686.84	674.79
897	44.750	812.57	747.39	687.06	686.88	686.83	674.78
898	44.800	812.57	747.39	687.05	686.87	686.83	674.76
899	44.850	812.57	747.39	687.04	686.87	686.82	674.75

900	44.900	812.57	747.39	687.04	686.86	686.81	674.74
901	44.950	812.57	747.39	687.03	686.85	686.80	674.73
902	45.000	812.57	747.39	687.02	686.84	686.79	674.72
903	45.050	812.57	747.39	687.01	686.83	686.78	674.70
904	45.100	812.57	747.39	687.00	686.83	686.78	674.69
905	45.150	812.57	747.39	686.99	686.82	686.77	674.68
906	45.200	812.57	747.39	686.99	686.81	686.76	674.67
907	45.250	812.57	747.39	686.98	686.80	686.75	674.66
908	45.300	812.57	747.39	686.97	686.79	686.75	674.64
909	45.350	812.57	747.39	686.96	686.79	686.74	674.63
910	45.400	812.57	747.39	686.95	686.78	686.73	674.62
911	45.450	812.57	747.39	686.95	686.77	686.72	674.61
912	45.500	812.57	747.39	686.94	686.76	686.72	674.60
913	45.550	812.57	747.39	686.93	686.76	686.71	674.59
914	45.600	812.57	747.39	686.92	686.75	686.70	674.58
915	45.650	812.57	747.39	686.92	686.74	686.69	674.56
916	45.700	812.57	747.39	686.91	686.73	686.69	674.55
917	45.750	812.57	747.39	686.90	686.73	686.68	674.54
918	45.800	812.57	747.39	686.89	686.72	686.67	674.53
919	45.850	812.57	747.39	686.89	686.71	686.67	674.52
920	45.900	812.57	747.39	686.88	686.71	686.66	674.51
921	45.950	812.57	747.39	686.87	686.70	686.65	674.50
922	46.000	812.57	747.39	686.86	686.69	686.64	674.49
923	46.050	812.57	747.39	686.86	686.69	686.64	674.48
924	46.100	812.57	747.39	686.85	686.68	686.63	674.47
925	46.150	812.57	747.39	686.84	686.67	686.62	674.45
926	46.200	812.57	747.39	686.83	686.66	686.62	674.44
927	46.250	812.57	747.39	686.83	686.66	686.61	674.43
928	46.300	812.57	747.39	686.82	686.65	686.60	674.42
929	46.350	812.57	747.39	686.81	686.64	686.60	674.41
930	46.400	812.57	747.39	686.81	686.64	686.59	674.40
931	46.450	812.57	747.39	686.80	686.63	686.58	674.39
932	46.500	812.57	747.39	686.79	686.63	686.58	674.38
933	46.550	812.57	747.39	686.79	686.62	686.57	674.37
934	46.600	812.57	747.39	686.78	686.61	686.56	674.36
935	46.650	812.57	747.39	686.77	686.61	686.56	674.35
936	46.700	812.57	747.39	686.77	686.60	686.55	674.34
937	46.750	812.57	747.39	686.76	686.59	686.55	674.33
938	46.800	812.57	747.39	686.75	686.59	686.54	674.32
939	46.850	812.57	747.39	686.75	686.58	686.53	674.31
940	46.900	812.57	747.39	686.74	686.57	686.53	674.30
941	46.950	812.57	747.39	686.73	686.57	686.52	674.29
942	47.000	812.57	747.39	686.73	686.56	686.51	674.28
943	47.050	812.57	747.39	686.72	686.56	686.51	674.27
944	47.100	812.57	747.39	686.71	686.55	686.50	674.26
945	47.150	812.57	747.39	686.71	686.54	686.50	674.25
946	47.200	812.57	747.39	686.70	686.54	686.49	674.24
947	47.250	812.57	747.39	686.70	686.53	686.49	674.23
948	47.300	812.57	747.39	686.69	686.53	686.48	674.22
949	47.350	812.57	747.39	686.68	686.52	686.47	674.21
950	47.400	812.57	747.39	686.68	686.51	686.47	674.20
951	47.450	812.57	747.39	686.67	686.51	686.46	674.19
952	47.500	812.57	747.39	686.66	686.50	686.46	674.18
953	47.550	812.57	747.39	686.66	686.50	686.45	674.17
954	47.600	812.57	747.39	686.65	686.49	686.44	674.16
955	47.650	812.57	747.39	686.65	686.49	686.44	674.15
956	47.700	812.57	747.39	686.64	686.48	686.43	674.15
957	47.750	812.57	747.39	686.64	686.48	686.43	674.14
958	47.800	812.57	747.39	686.63	686.47	686.42	674.13
959	47.850	812.57	747.39	686.62	686.46	686.42	674.12
960	47.900	812.57	747.39	686.62	686.46	686.41	674.11
961	47.950	812.57	747.39	686.61	686.45	686.41	674.10
962	48.000	812.57	747.39	686.61	686.45	686.40	674.09
963	48.050	812.57	747.39	686.60	686.44	686.40	674.08
964	48.100	812.57	747.39	686.60	686.44	686.39	674.07
965	48.150	812.57	747.39	686.59	686.43	686.39	674.06
966	48.200	812.57	747.39	686.58	686.43	686.38	674.05
967	48.250	812.57	747.39	686.58	686.42	686.37	674.05
968	48.300	812.57	747.39	686.57	686.42	686.37	674.04
969	48.350	812.57	747.39	686.57	686.41	686.36	674.03
970	48.400	812.57	747.39	686.56	686.41	686.36	674.02
971	48.450	812.57	747.39	686.56	686.40	686.35	674.01
972	48.500	812.57	747.39	686.55	686.40	686.35	674.00
973	48.550	812.57	747.39	686.55	686.39	686.34	673.99
974	48.600	812.57	747.39	686.54	686.39	686.34	673.98
975	48.650	812.57	747.39	686.54	686.38	686.33	673.98
976	48.700	812.57	747.39	686.53	686.38	686.33	673.97
977	48.750	812.57	747.39	686.53	686.37	686.32	673.96
978	48.800	812.57	747.39	686.52	686.37	686.32	673.95
979	48.850	812.57	747.39	686.52	686.36	686.31	673.94
980	48.900	812.57	747.39	686.51	686.36	686.31	673.93
981	48.950	812.57	747.39	686.51	686.35	686.31	673.93
982	49.000	812.57	747.39	686.50	686.35	686.30	673.92
983	49.050	812.57	747.39	686.50	686.34	686.30	673.91
984	49.100	812.57	747.39	686.49	686.34	686.29	673.90
985	49.150	812.57	747.39	686.49	686.33	686.29	673.89
986	49.200	812.57	747.39	686.48	686.33	686.28	673.88
987	49.250	812.57	747.39	686.48	686.32	686.28	673.88
988	49.300	812.57	747.39	686.47	686.32	686.27	673.87
989	49.350	812.57	747.39	686.47	686.31	686.27	673.86
990	49.400	812.57	747.39	686.46	686.31	686.26	673.85
991	49.450	812.57	747.39	686.46	686.31	686.26	673.84
992	49.500	812.57	747.39	686.45	686.30	686.25	673.84
993	49.550	812.57	747.39	686.45	686.30	686.25	673.83
994	49.600	812.57	747.39	686.44	686.29	686.25	673.82

995	49.650	812.57	747.39	686.44	686.29	686.24	673.81
996	49.700	812.57	747.39	686.43	686.28	686.24	673.81
997	49.750	812.57	747.39	686.43	686.28	686.23	673.80
998	49.800	812.57	747.39	686.42	686.27	686.23	673.79
999	49.850	812.57	747.39	686.42	686.27	686.22	673.78
1000	49.900	812.57	747.39	686.42	686.27	686.22	673.77
1001	49.950	812.57	747.39	686.41	686.26	686.22	673.77

N	TTP(K)	QC(K, I), I=1, N(T)
1	.000	26.60
2	.050	26.60
3	.100	26.60
4	.150	26.60
5	.200	26.60
6	.250	26.60
7	.300	26.60
8	.350	26.60
9	.400	26.60
10	.450	26.60
11	.500	26.60
12	.550	26.60
13	.600	27.43
14	.650	29.61
15	.700	33.09
16	.750	37.97
17	.800	44.36
18	.850	52.34
19	.900	62.03
20	.950	73.50
21	1.000	86.84
22	1.050	100.79
23	1.100	116.76
24	1.150	134.81
25	1.200	154.99
26	1.250	177.36
27	1.300	201.96
28	1.350	228.83
29	1.400	258.01
30	1.450	289.52
31	1.500	323.36
32	1.550	359.61
33	1.600	398.21
34	1.650	439.20
35	1.700	482.56
36	1.750	528.29
37	1.800	576.38
38	1.850	626.80
39	1.900	679.53
40	1.950	734.53
41	2.000	791.77
42	2.050	852.54
43	2.100	915.43
44	2.150	980.41
45	2.200	1047.40
46	2.250	1116.35
47	2.300	1187.17
48	2.350	1259.81
49	2.400	1334.17
50	2.450	1410.16
51	2.500	1487.71
52	2.550	1566.72
53	2.600	1647.09
54	2.650	1728.73
55	2.700	1811.52
56	2.750	1895.35
57	2.800	1980.13
58	2.850	2065.73
59	2.900	2152.02
60	2.950	2238.87
61	3.000	2326.15
62	3.050	2413.74
63	3.100	2501.49
64	3.150	2589.28
65	3.200	2676.96
66	3.250	2764.41
67	3.300	2851.47
68	3.350	2938.01
69	3.400	3023.89
70	3.450	3108.96
71	3.500	3193.07
72	3.550	3276.09
73	3.600	3357.85
74	3.650	3438.21
75	3.700	3517.03
76	3.750	3594.16
77	3.800	3669.44
78	3.850	3742.72
79	3.900	3813.85

80	3.950	3882.68	3637.05	1361.60	193.02	186.30	186.30
81	4.000	3949.06	3703.50	1387.72	195.45	189.70	188.70
82	4.050	3833.93	3709.63	1417.82	197.88	191.10	191.10
83	4.100	3722.20	3620.58	1436.91	200.32	193.51	193.51
84	4.150	3613.76	3515.17	1462.91	209.59	203.17	203.17
85	4.200	3508.51	3426.77	1492.20	225.44	218.98	218.98
86	4.250	3406.35	3334.04	1523.57	245.98	239.73	239.73
87	4.300	3307.20	3247.58	1556.78	271.28	265.10	265.10
88	4.350	3210.95	3167.67	1590.45	300.68	294.76	294.76
89	4.400	3117.51	3090.22	1622.68	333.84	328.22	328.22
90	4.450	3026.79	3015.89	1652.79	370.19	364.98	364.98
91	4.500	2938.72	2941.18	1680.30	409.63	404.78	404.78
92	4.550	2853.20	2866.26	1707.11	452.35	447.82	447.82
93	4.600	2770.17	2792.71	1741.36	496.02	492.35	492.35
94	4.650	2689.54	2718.40	1771.97	546.24	541.93	541.93
95	4.700	2611.24	2647.08	1802.43	596.09	592.78	592.78
96	4.750	2535.20	2577.59	1831.24	650.19	646.74	646.74
97	4.800	2461.35	2509.97	1860.44	706.87	704.05	704.05
98	4.850	2389.63	2444.26	1889.73	767.32	764.60	764.60
99	4.900	2319.96	2380.55	1919.45	830.81	828.55	828.55
100	4.950	2252.29	2318.74	1949.43	897.68	895.68	895.68
101	5.000	2186.57	2258.68	1980.06	967.76	966.14	966.14
102	5.050	2122.72	2200.37	2011.56	1041.18	1039.88	1039.88
103	5.100	2060.49	2143.82	2043.96	1117.86	1116.92	1116.92
104	5.150	2000.43	2088.99	2077.20	1197.73	1197.16	1197.16
105	5.200	1941.90	2035.74	2111.91	1282.10	1282.10	1282.10
106	5.250	1885.02	1983.93	2149.63	1369.19	1369.58	1369.58
107	5.300	1829.77	1933.37	2188.50	1459.31	1460.05	1460.05
108	5.350	1776.09	1883.91	2227.46	1552.94	1554.04	1554.04
109	5.400	1723.93	1835.45	2267.93	1649.23	1650.86	1650.86
110	5.450	1673.26	1787.98	2309.47	1748.79	1750.79	1750.79
111	5.500	1624.02	1741.50	2352.36	1851.10	1853.65	1853.65
112	5.550	1576.18	1695.94	2396.68	1956.37	1959.39	1959.39
113	5.600	1529.69	1651.30	2442.73	2064.38	2067.96	2067.96
114	5.650	1484.52	1607.64	2490.88	2175.16	2179.30	2179.30
115	5.700	1440.63	1564.98	2541.60	2288.57	2293.34	2293.34
116	5.750	1397.97	1523.34	2595.37	2404.37	2409.84	2409.84
117	5.800	1356.53	1482.72	2652.83	2522.16	2528.46	2528.46
118	5.850	1316.24	1443.02	2715.58	2641.73	2648.98	2648.98
119	5.900	1277.10	1404.26	2786.38	2762.47	2770.92	2770.92
120	5.950	1239.06	1364.53	2869.26	2879.78	2889.49	2889.49
121	6.000	1202.09	1329.78	2928.07	2991.75	2999.68	2999.68
122	6.050	1166.16	1293.99	2928.81	3093.62	3098.67	3098.67
123	6.100	1131.24	1258.97	2915.76	3160.50	3165.94	3165.94
124	6.150	1097.31	1224.61	2891.23	3199.37	3199.14	3199.14
125	6.200	1064.33	1191.04	2838.15	3113.19	3109.17	3109.17
126	6.250	1032.28	1158.36	2758.21	3012.40	3014.44	3014.44
127	6.300	1001.14	1126.62	2679.88	2924.49	2923.13	2923.13
128	6.350	970.91	1095.93	2593.38	2830.45	2831.86	2831.86
129	6.400	941.56	1066.73	2502.98	2742.89	2743.14	2743.14
130	6.450	913.05	1037.47	2410.92	2655.80	2657.26	2657.26
131	6.500	885.37	1009.56	2318.47	2574.24	2575.40	2575.40
132	6.550	858.50	982.40	2229.17	2496.72	2498.35	2498.35
133	6.600	832.40	956.07	2144.12	2425.22	2426.76	2426.76
134	6.650	807.06	930.40	2065.63	2359.53	2361.22	2361.22
135	6.700	782.45	905.45	1994.18	2300.23	2301.86	2301.86
136	6.750	758.55	881.30	1930.44	2246.99	2248.64	2248.64
137	6.800	735.35	858.01	1873.81	2199.51	2201.10	2201.10
138	6.850	712.82	835.56	1823.52	2157.17	2158.77	2158.77
139	6.900	690.94	813.85	1778.38	2119.36	2120.95	2120.95
140	6.950	669.70	792.78	1737.42	2085.42	2087.05	2087.05
141	7.000	649.07	772.29	1699.78	2054.82	2056.48	2056.48
142	7.050	629.04	752.23	1664.81	2026.89	2028.57	2028.57
143	7.100	609.60	732.33	1631.96	2001.22	2002.96	2002.96
144	7.150	590.71	712.27	1602.04	1976.86	1978.73	1978.73
145	7.200	572.38	691.83	1573.13	1954.54	1956.37	1956.37
146	7.250	554.58	670.93	1544.96	1933.77	1935.71	1935.71
147	7.300	537.31	649.75	1517.42	1914.35	1916.36	1916.36
148	7.350	520.53	628.60	1490.00	1896.09	1898.19	1898.19
149	7.400	504.24	607.82	1462.47	1878.76	1880.96	1880.96
150	7.450	488.44	587.60	1434.69	1862.23	1864.54	1864.54
151	7.500	473.09	568.02	1406.56	1846.38	1848.79	1848.79
152	7.550	458.19	549.04	1378.12	1831.11	1833.62	1833.62
153	7.600	443.73	530.58	1349.45	1816.35	1818.96	1818.96
154	7.650	429.70	512.47	1320.69	1802.04	1804.74	1804.74
155	7.700	416.07	494.66	1291.98	1788.17	1790.95	1790.95
156	7.750	402.85	477.34	1263.46	1774.70	1777.56	1777.56
157	7.800	390.02	460.76	1235.29	1761.64	1764.56	1764.56
158	7.850	377.57	444.89	1207.60	1748.95	1751.93	1751.93
159	7.900	365.48	429.52	1180.53	1736.64	1739.67	1739.67
160	7.950	353.76	414.50	1154.11	1724.68	1727.76	1727.76
161	8.000	342.38	399.88	1128.36	1713.07	1716.19	1716.19
162	8.050	331.35	385.75	1103.34	1701.77	1704.94	1704.94
163	8.100	320.65	372.15	1079.02	1690.79	1693.99	1693.99
164	8.150	310.29	359.08	1055.50	1680.09	1683.32	1683.32
165	8.200	300.24	346.51	1032.79	1669.69	1672.94	1672.94
166	8.250	290.51	334.42	1010.95	1659.56	1662.84	1662.84
167	8.300	281.07	322.80	989.98	1649.72	1653.02	1653.02
168	8.350	271.94	311.62	969.89	1640.14	1643.46	1643.46
169	8.400	263.08	300.88	950.67	1630.81	1634.14	1634.14
170	8.450	254.51	290.59	932.27	1621.71	1625.05	1625.05
171	8.500	246.21	280.74	914.69	1612.84	1616.18	1616.18
172	8.550	238.16	271.32	902.21	1602.08	1605.79	1605.79
173	8.600	230.38	262.32	887.60	1593.66	1597.05	1597.05
174	8.650	222.84	253.70	874.86	1584.60	1588.23	1588.23

175	8.700	215.54	245.45	862.34	1576.42	1579.72	1579.72
176	8.750	208.48	237.56	850.80	1568.00	1571.51	1571.51
177	8.800	201.65	229.99	839.73	1560.08	1563.44	1563.44
178	8.850	195.04	222.76	829.30	1552.20	1555.64	1555.64
179	8.900	188.64	215.84	819.28	1544.57	1547.95	1547.95
180	8.950	182.45	209.22	809.69	1537.01	1540.42	1540.42
181	9.000	176.47	202.88	800.30	1529.58	1532.98	1532.98
182	9.050	170.68	196.81	791.12	1522.20	1525.61	1525.61
183	9.100	165.09	191.01	782.10	1514.87	1518.28	1518.28
184	9.150	159.68	185.50	773.28	1507.60	1511.01	1511.01
185	9.200	154.46	180.28	764.78	1500.40	1503.80	1503.80
186	9.250	149.41	175.33	756.62	1493.32	1496.71	1496.71
187	9.300	144.53	170.60	748.83	1486.36	1489.75	1489.75
188	9.350	139.82	166.00	741.36	1479.54	1482.92	1482.92
189	9.400	135.27	161.46	734.11	1472.81	1476.19	1476.19
190	9.450	130.88	156.98	727.05	1466.16	1469.53	1469.53
191	9.500	126.64	152.61	720.18	1459.59	1462.92	1462.92
192	9.550	122.55	148.42	713.44	1453.00	1456.36	1456.36
193	9.600	118.60	144.43	706.84	1446.48	1449.83	1449.83
194	9.650	114.79	140.59	700.32	1439.98	1443.33	1443.33
195	9.700	111.12	136.87	693.87	1433.51	1436.86	1436.86
196	9.750	107.58	133.24	687.43	1427.05	1430.39	1430.39
197	9.800	104.16	129.70	680.96	1420.57	1423.90	1423.90
198	9.850	100.87	126.27	674.42	1414.08	1417.41	1417.41
199	9.900	97.70	122.95	667.80	1407.57	1410.91	1410.91
200	9.950	94.65	119.72	661.08	1401.04	1404.37	1404.37
201	10.000	91.71	116.59	654.35	1394.51	1397.83	1397.83
202	10.050	88.88	113.56	647.72	1388.11	1391.44	1391.44
203	10.100	86.15	110.61	641.22	1381.77	1385.08	1385.08
204	10.150	83.53	107.74	634.77	1375.42	1378.71	1378.71
205	10.200	81.01	104.92	628.43	1369.06	1372.35	1372.35
206	10.250	78.59	102.19	622.16	1362.74	1366.01	1366.01
207	10.300	76.26	99.59	616.37	1356.23	1359.66	1359.66
208	10.350	74.02	97.10	598.25	1308.57	1310.69	1310.69
209	10.400	71.87	94.72	581.20	1268.19	1269.96	1269.96
210	10.450	69.83	92.41	565.52	1248.38	1251.90	1251.90
211	10.500	67.87	90.19	560.33	1243.57	1246.86	1246.86
212	10.550	66.01	88.06	554.96	1238.87	1242.19	1242.19
213	10.600	64.23	86.04	549.79	1234.14	1237.42	1237.42
214	10.650	62.54	84.12	545.35	1229.46	1232.70	1232.70
215	10.700	60.92	82.30	541.48	1224.83	1228.03	1228.03
216	10.750	59.37	80.55	538.54	1220.31	1223.44	1223.44
217	10.800	57.90	78.81	536.49	1215.87	1218.94	1218.94
218	10.850	56.49	77.04	535.35	1211.54	1214.53	1214.53
219	10.900	55.15	75.13	534.68	1207.24	1210.20	1210.20
220	10.950	53.88	73.03	533.80	1202.94	1205.89	1205.89
221	11.000	52.66	70.78	531.99	1198.60	1201.59	1201.59
222	11.050	51.49	68.60	528.94	1194.12	1197.17	1197.17
223	11.100	50.38	66.90	524.86	1189.57	1192.67	1192.67
224	11.150	49.33	65.98	520.40	1185.05	1188.14	1188.14
225	11.200	48.32	65.85	516.09	1180.55	1183.63	1183.63
226	11.250	47.36	66.08	515.98	1175.22	1178.70	1178.70
227	11.300	46.45	66.03	516.89	1170.74	1173.95	1173.95
228	11.350	45.58	65.35	515.75	1166.27	1169.35	1169.35
229	11.400	44.75	64.15	515.45	1161.43	1164.69	1164.69
230	11.450	43.96	62.84	514.93	1157.08	1160.12	1160.12
231	11.500	43.21	61.78	514.64	1152.41	1155.56	1155.56
232	11.550	42.49	61.04	514.38	1148.04	1151.06	1151.06
233	11.600	41.82	60.49	514.21	1143.55	1146.60	1146.60
234	11.650	41.17	60.01	513.82	1139.16	1142.16	1142.16
235	11.700	40.56	59.55	513.08	1134.75	1137.77	1137.77
236	11.750	39.98	59.12	511.70	1130.30	1133.31	1133.31
237	11.800	39.43	58.76	509.63	1125.79	1128.84	1128.84
238	11.850	38.90	58.51	506.97	1121.25	1124.30	1124.30
239	11.900	38.41	58.35	503.97	1116.70	1119.76	1119.76
240	11.950	37.94	58.22	500.87	1112.19	1115.24	1115.24
241	12.000	37.50	58.00	497.80	1107.72	1110.76	1110.76
242	12.050	37.08	57.56	494.80	1103.27	1106.29	1106.29
243	12.100	36.68	56.90	491.89	1098.84	1101.84	1101.84
244	12.150	36.31	56.15	489.03	1094.45	1097.43	1097.43
245	12.200	35.96	55.48	486.20	1090.05	1093.02	1093.02
246	12.250	35.63	54.98	483.34	1085.73	1088.70	1088.70
247	12.300	35.32	54.64	480.35	1081.32	1084.26	1084.26
248	12.350	35.03	54.35	477.23	1076.98	1079.94	1079.94
249	12.400	34.76	54.01	473.99	1072.66	1075.59	1075.59
250	12.450	34.51	53.60	470.61	1068.32	1071.27	1071.27
251	12.500	34.27	53.14	467.11	1063.99	1066.92	1066.92
252	12.550	34.05	52.67	463.48	1059.62	1062.56	1062.56
253	12.600	33.85	52.21	459.78	1055.28	1058.21	1058.21
254	12.650	33.67	51.77	456.05	1050.95	1053.87	1053.87
255	12.700	33.50	51.37	452.35	1046.63	1049.54	1049.54
256	12.750	33.34	51.01	448.72	1042.33	1045.23	1045.23
257	12.800	33.20	50.67	445.20	1038.05	1040.93	1040.93
258	12.850	33.07	50.36	441.77	1033.79	1036.66	1036.66
259	12.900	32.95	50.08	438.42	1029.55	1032.41	1032.41
260	12.950	32.85	49.83	435.11	1025.32	1028.16	1028.16
261	13.000	32.76	49.61	431.82	1021.11	1023.94	1023.94
262	13.050	32.68	49.41	428.54	1016.91	1019.73	1019.73
263	13.100	32.62	49.21	425.32	1012.73	1015.53	1015.53
264	13.150	32.56	49.02	422.16	1008.56	1011.35	1011.35
265	13.200	32.52	48.84	419.09	1004.42	1007.20	1007.20
266	13.250	32.48	48.67	416.10	1000.30	1003.06	1003.06
267	13.300	32.46	48.52	413.18	996.20	998.95	998.95
268	13.350	32.44	48.39	410.32	992.12	994.85	994.85
269	13.400	32.44	48.29	407.50	988.06	990.77	990.77

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270	13.450	32.44	48.21	404.74	984.01	986.71	986.71
271	13.500	32.46	48.13	402.00	979.99	982.66	982.66
272	13.550	32.48	48.07	399.31	975.97	978.63	978.63
273	13.600	32.51	48.01	396.64	971.98	974.62	974.62
274	13.650	32.55	47.96	393.99	968.00	970.63	970.63
275	13.700	32.60	47.90	391.38	964.04	966.65	966.65
276	13.750	32.65	47.86	388.78	960.10	962.69	962.69
277	13.800	32.72	47.81	386.23	956.17	958.75	958.75
278	13.850	32.78	47.77	383.70	952.27	954.83	954.83
279	13.900	32.86	47.74	384.41	947.69	950.61	950.61
280	13.950	32.94	47.72	774.27	785.33	827.63	827.63
281	13.975	32.99	47.71	848.61	710.13	714.66	714.66
282	14.000	33.03	47.70	826.80	722.30	714.99	714.99
283	14.050	33.13	47.69	828.58	708.35	714.77	714.77
284	14.100	33.22	47.68	807.62	717.68	713.87	713.87
285	14.150	33.30	47.67	783.00	709.77	713.42	713.42
286	14.200	33.39	47.66	755.44	709.32	710.46	710.46
287	14.250	33.47	47.67	726.29	703.02	707.10	707.10
288	14.300	33.55	47.78	693.93	696.62	701.24	701.24
289	14.350	33.62	48.23	654.90	689.54	695.05	695.05
290	14.400	33.70	49.47	581.42	686.32	689.69	689.69
291	14.450	33.77	52.18	507.98	678.39	683.79	683.79
292	14.500	33.84	56.82	449.28	674.01	677.98	677.98
293	14.550	33.90	63.14	414.71	669.91	673.43	673.43
294	14.600	33.97	69.84	400.72	667.66	669.92	669.92
295	14.650	34.03	75.12	396.68	665.28	667.27	667.27
296	14.700	34.09	77.55	391.93	662.58	664.63	664.63
297	14.750	34.15	76.54	383.91	659.52	661.81	661.81
298	14.800	34.21	72.23	375.12	656.50	658.84	658.84
299	14.850	34.27	65.30	368.73	653.74	655.94	655.94
300	14.900	34.32	57.29	365.77	651.15	653.18	653.18
301	14.950	34.37	50.78	364.94	648.75	650.65	650.65
302	15.000	34.42	48.15	363.66	646.25	648.19	648.19
303	15.050	34.47	49.24	359.78	643.47	645.54	645.54
304	15.100	34.52	51.35	352.82	640.41	642.67	642.67
305	15.150	34.57	51.89	343.62	637.25	639.65	639.65
306	15.200	34.61	50.35	333.41	633.96	636.43	636.43
307	15.250	34.66	47.93	323.17	630.64	633.14	633.14
308	15.300	34.70	45.93	313.51	627.32	629.83	629.83
309	15.350	34.74	44.87	304.62	624.03	626.52	626.52
310	15.400	34.78	44.42	296.71	620.77	623.24	623.24
311	15.450	34.82	43.95	290.03	617.59	620.00	620.00
312	15.500	34.85	43.19	284.83	614.50	616.84	616.84
313	15.550	34.89	42.38	281.17	611.52	613.78	613.78
314	15.600	34.92	41.81	278.83	608.64	610.82	610.82
315	15.650	34.96	41.63	277.35	605.81	607.93	607.93
316	15.700	34.99	41.78	276.12	603.00	605.09	605.09
317	15.750	35.02	42.13	274.73	600.17	602.26	602.26
318	15.800	35.05	42.54	273.03	597.34	599.43	599.43
319	15.850	35.08	42.92	271.25	594.52	596.60	596.60
320	15.900	35.11	43.21	269.68	591.75	593.80	593.80
321	15.950	35.14	43.41	268.57	589.04	591.04	591.04
322	16.000	35.17	43.53	267.91	586.38	588.33	588.33
323	16.050	35.19	43.62	267.51	583.75	585.67	585.67
324	16.100	35.22	43.71	267.15	581.14	583.04	583.04
325	16.150	35.24	43.84	266.75	578.54	580.43	580.43
326	16.200	35.27	44.02	266.27	575.97	577.84	577.84
327	16.250	35.29	44.22	265.76	573.45	575.30	575.30
328	16.300	35.31	44.41	265.16	570.92	572.75	572.75
329	16.350	35.33	44.56	264.39	568.37	570.19	570.19
330	16.400	35.35	44.64	263.40	565.83	567.64	567.64
331	16.450	35.37	44.67	262.18	563.28	565.09	565.09
332	16.500	35.39	44.64	260.74	560.73	562.54	562.54
333	16.550	35.41	44.58	259.15	558.19	559.99	559.99
334	16.600	35.43	44.48	257.45	555.64	557.44	557.44
335	16.650	35.45	44.37	255.70	553.11	554.90	554.90
336	16.700	35.47	44.24	253.96	550.59	552.37	552.37
337	16.750	35.48	44.11	252.28	548.09	549.85	549.85
338	16.800	35.50	43.96	250.64	545.61	547.35	547.35
339	16.850	35.52	43.81	249.01	543.13	544.86	544.86
340	16.900	35.53	43.65	247.36	540.69	542.42	542.42
341	16.950	35.55	43.49	245.67	538.24	539.95	539.95
342	17.000	35.56	43.32	243.94	535.78	537.48	537.48
343	17.050	35.57	43.14	242.21	533.32	535.01	535.01
344	17.100	35.59	42.95	240.48	530.88	532.56	532.56
345	17.150	35.60	42.76	238.75	528.46	530.12	530.12
346	17.200	35.61	42.58	237.06	526.04	527.69	527.69
347	17.250	35.62	42.41	235.39	523.63	525.28	525.28
348	17.300	35.64	42.24	233.76	521.24	522.87	522.87
349	17.350	35.65	42.08	232.15	518.86	520.47	520.47
350	17.400	35.66	41.93	230.58	516.49	518.09	518.09
351	17.450	35.67	41.78	229.05	514.13	515.73	515.73
352	17.500	35.68	41.64	227.55	511.79	513.37	513.37
353	17.550	35.69	41.50	226.09	509.49	511.06	511.06
354	17.600	35.70	41.37	224.67	507.18	508.73	508.73
355	17.650	35.71	41.23	223.27	504.88	506.41	506.41
356	17.700	35.72	41.10	221.91	502.58	504.10	504.10
357	17.750	35.73	40.98	220.56	500.30	501.82	501.82
358	17.800	35.74	40.85	219.24	498.03	499.53	499.53
359	17.850	35.74	40.73	217.94	495.78	497.27	497.27
360	17.900	35.75	40.61	216.66	493.54	495.01	495.01
361	17.950	35.76	40.48	215.38	491.31	492.77	492.77
362	18.000	35.77	40.36	214.13	489.08	490.54	490.54
363	18.050	35.77	40.24	212.87	486.86	488.32	488.32
364	18.100	35.78	40.12	211.63	484.68	486.11	486.11

365	18.150	35.79	39.99	210.38	482.49	483.91	483.91
366	18.200	35.80	39.87	209.15	480.32	481.72	481.72
367	18.250	35.80	39.75	207.92	478.15	479.54	479.54
368	18.300	35.81	39.63	206.69	475.99	477.38	477.38
369	18.350	35.81	39.51	205.47	473.83	475.22	475.22
370	18.400	35.82	39.39	204.25	471.72	473.08	473.08
371	18.450	35.83	39.27	203.04	469.59	470.94	470.94
372	18.500	35.83	39.16	201.83	467.48	469.82	469.82
373	18.550	35.84	39.04	200.62	465.37	467.70	467.70
374	18.600	35.84	38.93	199.41	463.28	465.60	465.60
375	18.650	35.85	38.81	198.21	461.19	463.50	463.50
376	18.700	35.85	38.70	197.02	459.12	461.41	461.41
377	18.750	35.86	38.59	195.83	457.05	459.34	459.34
378	18.800	35.86	38.48	194.65	455.00	457.28	457.28
379	18.850	35.86	38.37	193.48	452.95	455.22	455.22
380	18.900	35.87	38.27	192.31	450.92	453.18	453.18
381	18.950	35.87	38.16	191.16	448.89	451.14	451.14
382	19.000	35.88	38.06	190.01	446.88	449.12	449.12
383	19.050	35.88	37.96	188.87	444.88	447.11	447.11
384	19.100	35.88	37.87	187.75	442.88	445.10	445.10
385	19.150	35.89	37.78	186.62	440.90	443.10	443.10
386	19.200	35.89	37.69	185.51	438.92	441.12	441.12
387	19.250	35.90	37.60	184.41	436.95	439.14	439.14
388	19.300	35.90	37.51	183.31	435.00	437.18	437.18
389	19.350	35.90	37.43	182.23	433.05	435.22	435.22
390	19.400	35.90	37.35	181.15	431.11	433.27	433.27
391	19.450	35.91	37.28	180.09	429.18	431.33	431.33
392	19.500	35.91	37.20	179.04	427.26	429.40	429.40
393	19.550	35.91	37.13	177.99	425.35	427.48	427.48
394	19.600	35.92	37.07	176.95	423.45	425.57	425.57
395	19.650	35.92	37.00	175.92	421.56	423.67	423.67
396	19.700	35.92	36.94	174.91	419.67	421.78	421.78
397	19.750	35.92	36.88	173.89	417.80	419.90	419.90
398	19.800	35.93	36.83	172.90	415.93	418.02	418.02
399	19.850	35.93	36.77	171.91	414.08	416.16	416.16
400	19.900	35.93	36.72	170.93	412.23	414.30	414.30
401	19.950	35.93	36.68	169.96	410.40	412.46	412.46
402	20.000	35.94	36.63	169.00	408.57	410.62	410.62
403	20.050	35.94	36.59	168.04	406.75	408.79	408.79
404	20.100	35.94	36.54	167.10	404.94	406.97	406.97
405	20.150	35.94	36.50	166.17	403.13	405.16	405.16
406	20.200	35.94	36.47	165.25	401.34	403.35	403.35
407	20.250	35.94	36.43	164.33	399.55	401.56	401.56
408	20.300	35.95	36.40	163.43	397.78	399.78	399.78
409	20.350	35.95	36.37	162.53	396.00	397.00	397.00
410	20.400	35.95	36.34	161.64	394.24	395.23	395.23
411	20.450	35.95	36.31	160.77	392.49	393.47	393.47
412	20.500	35.95	36.29	159.90	390.75	391.71	391.71
413	20.550	35.95	36.27	159.04	389.01	389.97	389.97
414	20.600	35.96	36.24	158.19	387.28	388.23	388.23
415	20.650	35.96	36.22	157.34	385.56	386.51	386.51
416	20.700	35.96	36.20	156.51	383.85	384.78	384.78
417	20.750	35.96	36.19	155.69	382.14	383.07	383.07
418	20.800	35.96	36.17	154.87	380.45	381.37	381.37
419	20.850	35.96	36.16	154.07	378.75	379.66	379.66
420	20.900	35.96	36.14	153.27	377.06	377.97	377.97
421	20.950	35.96	36.13	152.48	375.38	376.29	376.29
422	21.000	35.97	36.12	151.69	373.71	374.61	374.61
423	21.050	35.97	36.11	150.91	372.05	372.95	372.95
424	21.100	35.97	36.10	150.15	370.39	371.28	371.28
425	21.150	35.97	36.09	149.40	368.74	369.63	369.63
426	21.200	35.97	36.08	148.64	367.09	367.98	367.98
427	21.250	35.97	36.07	147.89	365.45	366.34	366.34
428	21.300	35.97	36.06	147.13	363.82	364.70	364.70
429	21.350	35.97	36.06	146.38	362.19	363.06	363.06
430	21.400	35.97	36.05	145.65	360.57	361.44	361.44
431	21.450	35.97	36.05	144.92	358.95	359.82	359.82
432	21.500	35.98	36.04	144.21	357.35	358.21	358.21
433	21.550	35.98	36.04	143.52	355.75	356.61	356.61
434	21.600	35.98	36.03	142.85	354.16	355.02	355.02
435	21.650	35.98	36.03	142.20	352.58	353.43	353.43
436	21.700	35.98	36.03	141.56	351.00	351.85	351.85
437	21.750	35.98	36.02	140.95	349.43	350.27	350.27
438	21.800	35.98	36.02	140.35	347.87	348.71	348.71
439	21.850	35.98	36.02	139.76	346.31	347.14	347.14
440	21.900	35.98	36.01	139.19	344.75	345.59	345.59
441	21.950	35.98	36.01	138.64	343.21	344.04	344.04
442	22.000	35.98	36.01	138.10	341.67	342.50	342.50
443	22.050	35.98	36.01	137.57	340.14	340.96	340.96
444	22.100	35.98	36.01	137.06	338.61	339.43	339.43
445	22.150	35.98	36.01	136.56	337.08	337.90	337.90
446	22.200	35.98	36.00	136.08	335.56	336.38	336.38
447	22.250	35.98	36.00	135.61	334.05	334.86	334.86
448	22.300	35.99	36.00	135.16	332.54	333.35	333.35
449	22.350	35.99	36.00	134.72	331.03	331.84	331.84
450	22.400	35.99	36.00	134.30	329.53	330.33	330.33
451	22.450	35.99	36.00	133.90	328.03	328.83	328.83
452	22.500	35.99	36.00	133.52	326.54	327.34	327.34
453	22.550	35.99	36.00	133.16	325.04	325.84	325.84
454	22.600	35.99	36.00	132.81	323.55	324.35	324.35
455	22.650	35.99	36.00	132.48	322.06	322.86	322.86
456	22.700	35.99	36.00	132.18	320.58	321.37	321.37
457	22.750	35.99	36.00	131.89	319.09	319.88	319.88
458	22.800	35.99	36.00	131.64	317.61	318.40	318.40
459	22.850	35.99	36.00	131.41	316.13	316.92	316.92

460	22.900	35.99	36.00	131.21	314.65	315.43	315.43
461	22.950	35.99	36.00	131.03	313.16	313.95	313.95
462	23.000	35.99	36.00	130.88	311.67	312.46	312.46
463	23.050	35.99	36.00	130.77	310.19	310.98	310.98
464	23.100	35.99	36.00	130.69	308.70	309.49	309.49
465	23.150	35.99	36.00	130.65	307.21	308.00	308.00
466	23.200	35.99	36.00	130.65	305.72	306.51	306.51
467	23.250	35.99	36.00	130.68	304.22	305.02	305.02
468	23.300	35.99	36.00	130.76	302.72	303.52	303.52
469	23.350	35.99	36.00	130.88	301.21	302.01	302.01
470	23.400	35.99	36.00	131.05	299.70	300.50	300.50
471	23.450	35.99	36.00	131.26	298.17	298.98	298.98
472	23.500	35.99	36.00	131.53	296.65	297.45	297.45
473	23.550	35.99	36.00	131.84	295.11	295.92	295.92
474	23.600	35.99	36.00	132.20	293.57	294.38	294.38
475	23.650	35.99	36.00	132.61	292.01	292.83	292.83
476	23.700	35.99	36.00	133.06	290.44	291.27	291.27
477	23.750	35.99	36.00	133.55	288.87	289.70	289.70
478	23.800	35.99	36.00	134.07	287.28	288.12	288.12
479	23.850	35.99	36.00	134.62	285.69	286.53	286.53
480	23.900	35.99	36.00	135.16	284.08	284.93	284.93
481	23.950	36.00	36.00	135.70	282.46	283.31	283.31
482	24.000	36.00	36.00	136.18	280.82	281.67	281.67
483	24.050	36.00	36.00	136.60	279.16	280.01	280.01
484	24.100	36.00	36.00	136.99	277.52	278.38	278.38
485	24.150	36.00	36.00	137.37	275.90	276.76	276.76
486	24.200	36.00	36.00	137.69	274.25	275.12	275.12
487	24.250	36.00	36.00	137.96	272.60	273.47	273.47
488	24.300	36.00	36.00	138.18	270.94	271.81	271.81
489	24.350	36.00	36.00	138.37	269.27	270.14	270.14
490	24.400	36.00	36.00	138.51	267.59	268.47	268.47
491	24.450	36.00	36.00	138.61	265.91	266.79	266.79
492	24.500	36.00	36.00	138.68	264.23	265.11	265.11
493	24.550	36.00	36.00	138.72	262.54	263.42	263.42
494	24.600	36.00	36.00	138.72	260.85	261.74	261.74
495	24.650	36.00	36.00	138.68	259.16	260.05	260.05
496	24.700	36.00	36.00	138.62	257.46	258.35	258.35
497	24.750	36.00	36.00	138.52	255.77	256.66	256.66
498	24.800	36.00	36.00	138.40	254.08	254.96	254.96
499	24.850	36.00	36.00	138.25	252.38	253.27	253.27
500	24.900	36.00	36.00	138.07	250.68	251.57	251.57
501	24.950	36.00	36.00	137.86	248.99	249.87	249.87
502	25.000	36.00	36.00	137.63	247.29	248.18	248.18
503	25.050	36.00	36.00	137.37	245.60	246.48	246.48
504	25.100	36.00	36.00	137.09	243.90	244.79	244.79
505	25.150	36.00	36.00	136.79	242.21	243.09	243.09
506	25.200	36.00	36.00	136.46	240.52	241.40	241.40
507	25.250	36.00	36.00	136.12	238.84	239.71	239.71
508	25.300	36.00	36.00	135.75	237.15	238.03	238.03
509	25.350	36.00	36.00	135.37	235.47	236.35	236.35
510	25.400	36.00	36.00	134.93	233.74	234.61	234.61
511	25.450	36.00	36.00	134.49	232.08	232.96	232.96
512	25.500	36.00	36.00	134.05	230.39	231.25	231.25
513	25.550	36.00	36.00	133.60	228.74	229.62	229.62
514	25.600	36.00	36.00	133.13	227.06	227.91	227.91
515	25.650	36.00	36.00	132.60	225.36	226.23	226.23
516	25.700	36.00	36.00	132.09	223.71	224.57	224.57
517	25.750	36.00	36.00	131.58	222.06	222.91	222.91
518	25.800	36.00	36.00	131.05	220.42	221.26	221.26
519	25.850	36.00	36.00	130.51	218.77	219.62	219.62
520	25.900	36.00	36.00	129.96	217.14	217.98	217.98
521	25.950	36.00	36.00	129.39	215.52	216.35	216.35
522	26.000	36.00	36.00	128.81	213.89	214.73	214.73
523	26.050	36.00	36.00	128.23	212.28	213.11	213.11
524	26.100	36.00	36.00	127.63	210.67	211.50	211.50
525	26.150	36.00	36.00	127.03	209.07	209.89	209.89
526	26.200	36.00	36.00	126.41	207.47	208.29	208.29
527	26.250	36.00	36.00	125.79	205.89	206.70	206.70
528	26.300	36.00	36.00	125.15	204.30	205.11	205.11
529	26.350	36.00	36.00	124.48	202.68	203.48	203.48
530	26.400	36.00	36.00	123.82	201.13	201.95	201.95
531	26.450	36.00	36.00	123.17	199.55	200.34	200.34
532	26.500	36.00	36.00	122.50	198.01	198.82	198.82
533	26.550	36.00	36.00	121.83	196.45	197.22	197.22
534	26.600	36.00	36.00	121.15	194.92	195.72	195.72
535	26.650	36.00	36.00	120.47	193.37	194.13	194.13
536	26.700	36.00	36.00	119.77	191.85	192.65	192.65
537	26.750	36.00	36.00	119.08	190.32	191.08	191.08
538	26.800	36.00	36.00	118.35	188.78	189.55	189.55
539	26.850	36.00	36.00	117.65	187.29	188.05	188.05
540	26.900	36.00	36.00	116.95	185.79	186.55	186.55
541	26.950	36.00	36.00	116.24	184.31	185.06	185.06
542	27.000	36.00	36.00	115.53	182.83	183.58	183.58
543	27.050	36.00	36.00	114.82	181.36	182.10	182.10
544	27.100	36.00	36.00	114.10	179.90	180.64	180.64
545	27.150	36.00	36.00	113.41	178.49	179.23	179.23
546	27.200	36.00	36.00	112.69	177.03	177.74	177.74
547	27.250	36.00	36.00	111.96	175.61	176.34	176.34
548	27.300	36.00	36.00	111.24	174.17	174.87	174.87
549	27.350	36.00	36.00	110.52	172.77	173.49	173.49
550	27.400	36.00	36.00	109.82	171.39	172.09	172.09
551	27.450	36.00	36.00	109.09	169.98	170.68	170.68
552	27.500	36.00	36.00	108.36	168.59	169.29	169.29
553	27.550	36.00	36.00	107.64	167.21	167.90	167.90
554	27.600	36.00	36.00	106.91	165.84	166.53	166.53

555	27.650	36.00	36.00	106.19	164.48	165.17	165.17
556	27.700	36.00	36.00	105.46	163.14	163.81	163.81
557	27.750	36.00	36.00	104.74	161.80	162.47	162.47
558	27.800	36.00	36.00	104.01	160.46	161.13	161.13
559	27.850	36.00	36.00	103.29	159.15	159.81	159.81
560	27.900	36.00	36.00	102.58	157.84	158.49	158.49
561	27.950	36.00	36.00	101.86	156.54	157.19	157.19
562	28.000	36.00	36.00	101.15	155.25	155.89	155.89
563	28.050	36.00	36.00	100.43	153.97	154.61	154.61
564	28.100	36.00	36.00	99.73	152.70	153.34	153.34
565	28.150	36.00	36.00	99.02	151.45	152.07	152.07
566	28.200	36.00	36.00	98.32	150.20	150.82	150.82
567	28.250	36.00	36.00	97.62	148.96	149.58	149.58
568	28.300	36.00	36.00	96.92	147.74	148.35	148.35
569	28.350	36.00	36.00	96.23	146.52	147.13	147.13
570	28.400	36.00	36.00	95.53	145.32	145.91	145.91
571	28.450	36.00	36.00	94.85	144.12	144.71	144.71
572	28.500	36.00	36.00	94.16	142.93	143.52	143.52
573	28.550	36.00	36.00	93.48	141.76	142.34	142.34
574	28.600	36.00	36.00	92.81	140.60	141.17	141.17
575	28.650	36.00	36.00	92.13	139.44	140.01	140.01
576	28.700	36.00	36.00	91.48	138.32	138.89	138.89
577	28.750	36.00	36.00	90.82	137.17	137.73	137.73
578	28.800	36.00	36.00	90.15	136.05	136.62	136.62
579	28.850	36.00	36.00	89.51	134.95	135.50	135.50
580	28.900	36.00	36.00	88.85	133.84	134.39	134.39
581	28.950	36.00	36.00	88.20	132.75	133.29	133.29
582	29.000	36.00	36.00	87.56	131.66	132.20	132.20
583	29.050	36.00	36.00	86.92	130.59	131.12	131.12
584	29.100	36.00	36.00	86.28	129.52	130.05	130.05
585	29.150	36.00	36.00	85.65	128.47	128.99	128.99
586	29.200	36.00	36.00	85.02	127.42	127.94	127.94
587	29.250	36.00	36.00	84.40	126.39	126.90	126.90
588	29.300	36.00	36.00	83.78	125.37	125.87	125.87
589	29.350	36.00	36.00	83.17	124.35	124.85	124.85
590	29.400	36.00	36.00	82.56	123.35	123.84	123.84
591	29.450	36.00	36.00	81.96	122.35	122.84	122.84
592	29.500	36.00	36.00	81.36	121.37	121.85	121.85
593	29.550	36.00	36.00	80.77	120.39	120.87	120.87
594	29.600	36.00	36.00	80.18	119.43	119.90	119.90
595	29.650	36.00	36.00	79.60	118.47	118.94	118.94
596	29.700	36.00	36.00	79.02	117.53	117.99	117.99
597	29.750	36.00	36.00	78.45	116.59	117.05	117.05
598	29.800	36.00	36.00	77.88	115.67	116.12	116.12
599	29.850	36.00	36.00	77.32	114.75	115.20	115.20
600	29.900	36.00	36.00	76.76	113.84	114.29	114.29
601	29.950	36.00	36.00	76.21	112.94	113.38	113.38
602	30.000	36.00	36.00	75.67	112.06	112.49	112.49
603	30.050	36.00	36.00	75.12	111.18	111.61	111.61
604	30.100	36.00	36.00	74.59	110.31	110.73	110.73
605	30.150	36.00	36.00	74.06	109.45	109.87	109.87
606	30.200	36.00	36.00	73.53	108.60	109.01	109.01
607	30.250	36.00	36.00	73.01	107.75	108.17	108.17
608	30.300	36.00	36.00	72.50	106.92	107.33	107.33
609	30.350	36.00	36.00	71.99	106.10	106.50	106.50
610	30.400	36.00	36.00	71.48	105.28	105.68	105.68
611	30.450	36.00	36.00	70.98	104.48	104.87	104.87
612	30.500	36.00	36.00	70.49	103.68	104.07	104.07
613	30.550	36.00	36.00	70.00	102.89	103.27	103.27
614	30.600	36.00	36.00	69.52	102.11	102.49	102.49
615	30.650	36.00	36.00	69.04	101.34	101.72	101.72
616	30.700	36.00	36.00	68.56	100.58	100.95	100.95
617	30.750	36.00	36.00	68.09	99.82	100.19	100.19
618	30.800	36.00	36.00	67.63	99.08	99.44	99.44
619	30.850	36.00	36.00	67.17	98.34	98.70	98.70
620	30.900	36.00	36.00	66.72	97.61	97.97	97.97
621	30.950	36.00	36.00	66.27	96.89	97.24	97.24
622	31.000	36.00	36.00	65.83	96.18	96.53	96.53
623	31.050	36.00	36.00	65.39	95.47	95.82	95.82
624	31.100	36.00	36.00	64.96	94.78	95.12	95.12
625	31.150	36.00	36.00	64.53	94.09	94.43	94.43
626	31.200	36.00	36.00	64.11	93.41	93.74	93.74
627	31.250	36.00	36.00	63.69	92.74	93.07	93.07
628	31.300	36.00	36.00	63.28	92.07	92.40	92.40
629	31.350	36.00	36.00	62.87	91.42	91.74	91.74
630	31.400	36.00	36.00	62.47	90.77	91.08	91.08
631	31.450	36.00	36.00	62.07	90.13	90.44	90.44
632	31.500	36.00	36.00	61.68	89.50	89.80	89.80
633	31.550	36.00	36.00	61.29	88.87	89.17	89.17
634	31.600	36.00	36.00	60.91	88.25	88.55	88.55
635	31.650	36.00	36.00	60.53	87.64	87.94	87.94
636	31.700	36.00	36.00	60.15	87.04	87.33	87.33
637	31.750	36.00	36.00	59.79	86.44	86.73	86.73
638	31.800	36.00	36.00	59.42	85.85	86.14	86.14
639	31.850	36.00	36.00	59.06	85.27	85.55	85.55
640	31.900	36.00	36.00	58.71	84.70	84.97	84.97
641	31.950	36.00	36.00	58.36	84.13	84.40	84.40
642	32.000	36.00	36.00	58.01	83.57	83.84	83.84
643	32.050	36.00	36.00	57.67	83.01	83.28	83.28
644	32.100	36.00	36.00	57.33	82.47	82.73	82.73
645	32.150	36.00	36.00	57.00	81.93	82.19	82.19
646	32.200	36.00	36.00	56.67	81.40	81.65	81.65
647	32.250	36.00	36.00	56.35	80.87	81.12	81.12
648	32.300	36.00	36.00	56.03	80.35	80.60	80.60
649	32.350	36.00	36.00	55.72	79.83	80.08	80.08

650	32.400	36.00	36.00	55.41	79.33	79.57	79.57
651	32.450	36.00	36.00	55.10	78.83	79.07	79.07
652	32.500	36.00	36.00	54.80	78.33	78.57	78.57
653	32.550	36.00	36.00	54.50	77.85	78.08	78.08
654	32.600	36.00	36.00	54.21	77.36	77.60	77.60
655	32.650	36.00	36.00	53.92	76.89	77.12	77.12
656	32.700	36.00	36.00	53.64	76.42	76.65	76.65
657	32.750	36.00	36.00	53.36	75.96	76.18	76.18
658	32.800	36.00	36.00	53.08	75.50	75.72	75.72
659	32.850	36.00	36.00	52.81	75.05	75.26	75.26
660	32.900	36.00	36.00	52.54	74.60	74.82	74.82
661	32.950	36.00	36.00	52.28	74.16	74.37	74.37
662	33.000	36.00	36.00	52.02	73.73	73.94	73.94
663	33.050	36.00	36.00	51.76	73.30	73.51	73.51
664	33.100	36.00	36.00	51.51	72.88	73.08	73.08
665	33.150	36.00	36.00	51.26	72.46	72.66	72.66
666	33.200	36.00	36.00	51.01	72.05	72.25	72.25
667	33.250	36.00	36.00	50.77	71.64	71.84	71.84
668	33.300	36.00	36.00	50.53	71.24	71.43	71.43
669	33.350	36.00	36.00	50.30	70.84	71.03	71.03
670	33.400	36.00	36.00	50.07	70.45	70.64	70.64
671	33.450	36.00	36.00	49.84	70.07	70.25	70.25
672	33.500	36.00	36.00	49.62	69.69	69.87	69.87
673	33.550	36.00	36.00	49.40	69.31	69.49	69.49
674	33.600	36.00	36.00	49.18	68.94	69.12	69.12
675	33.650	36.00	36.00	48.96	68.58	68.75	68.75
676	33.700	36.00	36.00	48.75	68.22	68.39	68.39
677	33.750	36.00	36.00	48.55	67.86	68.03	68.03
678	33.800	36.00	36.00	48.34	67.51	67.68	67.68
679	33.850	36.00	36.00	48.14	67.17	67.33	67.33
680	33.900	36.00	36.00	47.95	66.82	66.99	66.99
681	33.950	36.00	36.00	47.75	66.49	66.65	66.65
682	34.000	36.00	36.00	47.56	66.16	66.32	66.32
683	34.050	36.00	36.00	47.37	65.83	65.99	65.99
684	34.100	36.00	36.00	47.19	65.51	65.66	65.66
685	34.150	36.00	36.00	47.01	65.19	65.34	65.34
686	34.200	36.00	36.00	46.83	64.87	65.02	65.02
687	34.250	36.00	36.00	46.65	64.56	64.71	64.71
688	34.300	36.00	36.00	46.48	64.26	64.40	64.40
689	34.350	36.00	36.00	46.31	63.95	64.10	64.10
690	34.400	36.00	36.00	46.14	63.66	63.80	63.80
691	34.450	36.00	36.00	45.98	63.36	63.50	63.50
692	34.500	36.00	36.00	45.82	63.07	63.21	63.21
693	34.550	36.00	36.00	45.66	62.79	62.92	62.92
694	34.600	36.00	36.00	45.50	62.50	62.64	62.64
695	34.650	36.00	36.00	45.35	62.23	62.36	62.36
696	34.700	36.00	36.00	45.20	61.95	62.08	62.08
697	34.750	36.00	36.00	45.05	61.68	61.81	61.81
698	34.800	36.00	36.00	44.90	61.42	61.54	61.54
699	34.850	36.00	36.00	44.76	61.15	61.28	61.28
700	34.900	36.00	36.00	44.62	60.89	61.02	61.02
701	34.950	36.00	36.00	44.48	60.64	60.76	60.76
702	35.000	36.00	36.00	44.34	60.38	60.51	60.51
703	35.050	36.00	36.00	44.21	60.14	60.25	60.25
704	35.100	36.00	36.00	44.08	59.89	60.01	60.01
705	35.150	36.00	36.00	43.95	59.65	59.76	59.76
706	35.200	36.00	36.00	43.82	59.41	59.52	59.52
707	35.250	36.00	36.00	43.70	59.17	59.29	59.29
708	35.300	36.00	36.00	43.57	58.94	59.05	59.05
709	35.350	36.00	36.00	43.45	58.71	58.82	58.82
710	35.400	36.00	36.00	43.33	58.48	58.59	58.59
711	35.450	36.00	36.00	43.22	58.26	58.37	58.37
712	35.500	36.00	36.00	43.10	58.04	58.15	58.15
713	35.550	36.00	36.00	42.99	57.82	57.93	57.93
714	35.600	36.00	36.00	42.88	57.61	57.71	57.71
715	35.650	36.00	36.00	42.77	57.40	57.50	57.50
716	35.700	36.00	36.00	42.67	57.19	57.29	57.29
717	35.750	36.00	36.00	42.56	56.99	57.08	57.08
718	35.800	36.00	36.00	42.46	56.78	56.88	56.88
719	35.850	36.00	36.00	42.36	56.58	56.68	56.68
720	35.900	36.00	36.00	42.26	56.39	56.48	56.48
721	35.950	36.00	36.00	42.16	56.19	56.28	56.28
722	36.000	36.00	36.00	42.06	56.00	56.09	56.09
723	36.050	36.00	36.00	41.97	55.81	55.90	55.90
724	36.100	36.00	36.00	41.88	55.62	55.71	55.71
725	36.150	36.00	36.00	41.79	55.44	55.53	55.53
726	36.200	36.00	36.00	41.70	55.26	55.34	55.34
727	36.250	36.00	36.00	41.61	55.08	55.16	55.16
728	36.300	36.00	36.00	41.52	54.90	54.98	54.98
729	36.350	36.00	36.00	41.44	54.72	54.81	54.81
730	36.400	36.00	36.00	41.36	54.55	54.63	54.63
731	36.450	36.00	36.00	41.27	54.38	54.46	54.46
732	36.500	36.00	36.00	41.19	54.21	54.29	54.29
733	36.550	36.00	36.00	41.12	54.05	54.13	54.13
734	36.600	36.00	36.00	41.04	53.89	53.96	53.96
735	36.650	36.00	36.00	40.96	53.72	53.80	53.80
736	36.700	36.00	36.00	40.89	53.56	53.64	53.64
737	36.750	36.00	36.00	40.82	53.41	53.48	53.48
738	36.800	36.00	36.00	40.74	53.25	53.33	53.33
739	36.850	36.00	36.00	40.67	53.10	53.17	53.17
740	36.900	36.00	36.00	40.60	52.95	53.02	53.02
741	36.950	36.00	36.00	40.54	52.80	52.87	52.87
742	37.000	36.00	36.00	40.47	52.65	52.72	52.72
743	37.050	36.00	36.00	40.40	52.51	52.58	52.58
744	37.100	36.00	36.00	40.34	52.36	52.43	52.43

745	37.150	36.00	36.00	40.28	52.22	52.29	52.29
746	37.200	36.00	36.00	40.21	52.08	52.15	52.15
747	37.250	36.00	36.00	40.15	51.94	52.01	52.01
748	37.300	36.00	36.00	40.09	51.81	51.87	51.87
749	37.350	36.00	36.00	40.03	51.67	51.74	51.74
750	37.400	36.00	36.00	39.98	51.54	51.60	51.60
751	37.450	36.00	36.00	39.92	51.41	51.47	51.47
752	37.500	36.00	36.00	39.86	51.28	51.34	51.34
753	37.550	36.00	36.00	39.81	51.15	51.21	51.21
754	37.600	36.00	36.00	39.76	51.03	51.09	51.09
755	37.650	36.00	36.00	39.70	50.90	50.96	50.96
756	37.700	36.00	36.00	39.65	50.78	50.84	50.84
757	37.750	36.00	36.00	39.60	50.66	50.71	50.71
758	37.800	36.00	36.00	39.55	50.54	50.59	50.59
759	37.850	36.00	36.00	39.50	50.42	50.47	50.47
760	37.900	36.00	36.00	39.45	50.30	50.36	50.36
761	37.950	36.00	36.00	39.41	50.18	50.24	50.24
762	38.000	36.00	36.00	39.36	50.07	50.13	50.13
763	38.050	36.00	36.00	39.31	49.96	50.01	50.01
764	38.100	36.00	36.00	39.27	49.85	49.90	49.90
765	38.150	36.00	36.00	39.22	49.74	49.79	49.79
766	38.200	36.00	36.00	39.18	49.63	49.68	49.68
767	38.250	36.00	36.00	39.14	49.52	49.57	49.57
768	38.300	36.00	36.00	39.09	49.41	49.46	49.46
769	38.350	36.00	36.00	39.05	49.31	49.36	49.36
770	38.400	36.00	36.00	39.01	49.20	49.25	49.25
771	38.450	36.00	36.00	38.97	49.10	49.15	49.15
772	38.500	36.00	36.00	38.93	49.00	49.05	49.05
773	38.550	36.00	36.00	38.90	48.90	48.95	48.95
774	38.600	36.00	36.00	38.86	48.80	48.85	48.85
775	38.650	36.00	36.00	38.82	48.70	48.75	48.75
776	38.700	36.00	36.00	38.78	48.61	48.65	48.65
777	38.750	36.00	36.00	38.75	48.51	48.56	48.56
778	38.800	36.00	36.00	38.71	48.42	48.46	48.46
779	38.850	36.00	36.00	38.68	48.32	48.37	48.37
780	38.900	36.00	36.00	38.64	48.23	48.28	48.28
781	38.950	36.00	36.00	38.61	48.14	48.18	48.18
782	39.000	36.00	36.00	38.58	48.05	48.09	48.09
783	39.050	36.00	36.00	38.55	47.96	48.00	48.00
784	39.100	36.00	36.00	38.51	47.87	47.91	47.91
785	39.150	36.00	36.00	38.48	47.79	47.83	47.83
786	39.200	36.00	36.00	38.45	47.70	47.74	47.74
787	39.250	36.00	36.00	38.42	47.61	47.65	47.65
788	39.300	36.00	36.00	38.39	47.53	47.57	47.57
789	39.350	36.00	36.00	38.36	47.45	47.49	47.49
790	39.400	36.00	36.00	38.33	47.36	47.40	47.40
791	39.450	36.00	36.00	38.31	47.28	47.32	47.32
792	39.500	36.00	36.00	38.28	47.20	47.24	47.24
793	39.550	36.00	36.00	38.25	47.12	47.16	47.16
794	39.600	36.00	36.00	38.22	47.04	47.08	47.08
795	39.650	36.00	36.00	38.20	46.96	47.00	47.00
796	39.700	36.00	36.00	38.17	46.89	46.92	46.92
797	39.750	36.00	36.00	38.15	46.81	46.85	46.85
798	39.800	36.00	36.00	38.12	46.73	46.77	46.77
799	39.850	36.00	36.00	38.10	46.66	46.70	46.70
800	39.900	36.00	36.00	38.07	46.59	46.62	46.62
801	39.950	36.00	36.00	38.05	46.51	46.55	46.55
802	40.000	36.00	36.00	38.02	46.44	46.48	46.48
803	40.050	36.00	36.00	38.00	46.37	46.40	46.40
804	40.100	36.00	36.00	37.98	46.30	46.33	46.33
805	40.150	36.00	36.00	37.95	46.23	46.26	46.26
806	40.200	36.00	36.00	37.93	46.16	46.19	46.19
807	40.250	36.00	36.00	37.91	46.09	46.12	46.12
808	40.300	36.00	36.00	37.89	46.02	46.05	46.05
809	40.350	36.00	36.00	37.87	45.95	45.99	45.99
810	40.400	36.00	36.00	37.85	45.89	45.92	45.92
811	40.450	36.00	36.00	37.83	45.82	45.85	45.85
812	40.500	36.00	36.00	37.81	45.76	45.79	45.79
813	40.550	36.00	36.00	37.79	45.69	45.72	45.72
814	40.600	36.00	36.00	37.77	45.63	45.66	45.66
815	40.650	36.00	36.00	37.75	45.56	45.59	45.59
816	40.700	36.00	36.00	37.73	45.50	45.53	45.53
817	40.750	36.00	36.00	37.71	45.44	45.47	45.47
818	40.800	36.00	36.00	37.69	45.38	45.41	45.41
819	40.850	36.00	36.00	37.67	45.32	45.34	45.34
820	40.900	36.00	36.00	37.66	45.25	45.28	45.28
821	40.950	36.00	36.00	37.64	45.19	45.22	45.22
822	41.000	36.00	36.00	37.62	45.14	45.16	45.16
823	41.050	36.00	36.00	37.60	45.08	45.10	45.10
824	41.100	36.00	36.00	37.59	45.02	45.05	45.05
825	41.150	36.00	36.00	37.57	44.96	44.99	44.99
826	41.200	36.00	36.00	37.55	44.90	44.93	44.93
827	41.250	36.00	36.00	37.54	44.85	44.87	44.87
828	41.300	36.00	36.00	37.52	44.79	44.82	44.82
829	41.350	36.00	36.00	37.51	44.74	44.76	44.76
830	41.400	36.00	36.00	37.49	44.68	44.71	44.71
831	41.450	36.00	36.00	37.48	44.63	44.65	44.65
832	41.500	36.00	36.00	37.46	44.57	44.60	44.60
833	41.550	36.00	36.00	37.45	44.52	44.55	44.55
834	41.600	36.00	36.00	37.43	44.47	44.49	44.49
835	41.650	36.00	36.00	37.42	44.41	44.44	44.44
836	41.700	36.00	36.00	37.40	44.36	44.39	44.39
837	41.750	36.00	36.00	37.39	44.31	44.34	44.34
838	41.800	36.00	36.00	37.38	44.26	44.28	44.28
839	41.850	36.00	36.00	37.36	44.21	44.23	44.23

840	41.900	36.00	36.00	37.35	44.16	44.18	44.18
841	41.950	36.00	36.00	37.34	44.11	44.13	44.13
842	42.000	36.00	36.00	37.32	44.06	44.08	44.08
843	42.050	36.00	36.00	37.31	44.01	44.03	44.03
844	42.100	36.00	36.00	37.30	43.96	43.99	43.99
845	42.150	36.00	36.00	37.29	43.91	43.94	43.94
846	42.200	36.00	36.00	37.27	43.87	43.89	43.89
847	42.250	36.00	36.00	37.26	43.82	43.84	43.84
848	42.300	36.00	36.00	37.25	43.77	43.80	43.80
849	42.350	36.00	36.00	37.24	43.73	43.75	43.75
850	42.400	36.00	36.00	37.23	43.68	43.70	43.70
851	42.450	36.00	36.00	37.21	43.64	43.66	43.66
852	42.500	36.00	36.00	37.20	43.59	43.61	43.61
853	42.550	36.00	36.00	37.19	43.55	43.57	43.57
854	42.600	36.00	36.00	37.18	43.50	43.52	43.52
855	42.650	36.00	36.00	37.17	43.46	43.48	43.48
856	42.700	36.00	36.00	37.16	43.41	43.44	43.44
857	42.750	36.00	36.00	37.15	43.37	43.39	43.39
858	42.800	36.00	36.00	37.14	43.33	43.35	43.35
859	42.850	36.00	36.00	37.13	43.29	43.31	43.31
860	42.900	36.00	36.00	37.12	43.24	43.26	43.26
861	42.950	36.00	36.00	37.11	43.20	43.22	43.22
862	43.000	36.00	36.00	37.10	43.16	43.18	43.18
863	43.050	36.00	36.00	37.09	43.12	43.14	43.14
864	43.100	36.00	36.00	37.08	43.08	43.10	43.10
865	43.150	36.00	36.00	37.07	43.04	43.06	43.06
866	43.200	36.00	36.00	37.06	43.00	43.02	43.02
867	43.250	36.00	36.00	37.05	42.96	42.98	42.98
868	43.300	36.00	36.00	37.04	42.92	42.94	42.94
869	43.350	36.00	36.00	37.03	42.88	42.90	42.90
870	43.400	36.00	36.00	37.02	42.84	42.86	42.86
871	43.450	36.00	36.00	37.01	42.80	42.82	42.82
872	43.500	36.00	36.00	37.00	42.76	42.78	42.78
873	43.550	36.00	36.00	37.00	42.73	42.74	42.74
874	43.600	36.00	36.00	36.99	42.69	42.71	42.71
875	43.650	36.00	36.00	36.98	42.65	42.67	42.67
876	43.700	36.00	36.00	36.97	42.61	42.63	42.63
877	43.750	36.00	36.00	36.96	42.58	42.60	42.60
878	43.800	36.00	36.00	36.95	42.54	42.56	42.56
879	43.850	36.00	36.00	36.95	42.51	42.52	42.52
880	43.900	36.00	36.00	36.94	42.47	42.49	42.49
881	43.950	36.00	36.00	36.93	42.43	42.45	42.45
882	44.000	36.00	36.00	36.92	42.40	42.42	42.42
883	44.050	36.00	36.00	36.91	42.36	42.38	42.38
884	44.100	36.00	36.00	36.91	42.33	42.35	42.35
885	44.150	36.00	36.00	36.90	42.29	42.31	42.31
886	44.200	36.00	36.00	36.89	42.26	42.28	42.28
887	44.250	36.00	36.00	36.89	42.23	42.24	42.24
888	44.300	36.00	36.00	36.88	42.19	42.21	42.21
889	44.350	36.00	36.00	36.87	42.16	42.18	42.18
890	44.400	36.00	36.00	36.86	42.13	42.14	42.14
891	44.450	36.00	36.00	36.86	42.09	42.11	42.11
892	44.500	36.00	36.00	36.85	42.06	42.08	42.08
893	44.550	36.00	36.00	36.84	42.03	42.04	42.04
894	44.600	36.00	36.00	36.84	42.00	42.01	42.01
895	44.650	36.00	36.00	36.83	41.96	41.98	41.98
896	44.700	36.00	36.00	36.82	41.93	41.95	41.95
897	44.750	36.00	36.00	36.82	41.90	41.92	41.92
898	44.800	36.00	36.00	36.81	41.87	41.88	41.88
899	44.850	36.00	36.00	36.80	41.84	41.85	41.85
900	44.900	36.00	36.00	36.80	41.81	41.82	41.82
901	44.950	36.00	36.00	36.79	41.78	41.79	41.79
902	45.000	36.00	36.00	36.78	41.75	41.76	41.76
903	45.050	36.00	36.00	36.78	41.72	41.73	41.73
904	45.100	36.00	36.00	36.77	41.69	41.70	41.70
905	45.150	36.00	36.00	36.77	41.66	41.67	41.67
906	45.200	36.00	36.00	36.76	41.63	41.64	41.64
907	45.250	36.00	36.00	36.75	41.60	41.61	41.61
908	45.300	36.00	36.00	36.75	41.57	41.58	41.58
909	45.350	36.00	36.00	36.74	41.54	41.56	41.56
910	45.400	36.00	36.00	36.74	41.51	41.53	41.53
911	45.450	36.00	36.00	36.73	41.48	41.50	41.50
912	45.500	36.00	36.00	36.73	41.46	41.47	41.47
913	45.550	36.00	36.00	36.72	41.43	41.44	41.44
914	45.600	36.00	36.00	36.72	41.40	41.41	41.41
915	45.650	36.00	36.00	36.71	41.37	41.39	41.39
916	45.700	36.00	36.00	36.70	41.35	41.36	41.36
917	45.750	36.00	36.00	36.70	41.32	41.33	41.33
918	45.800	36.00	36.00	36.69	41.29	41.30	41.30
919	45.850	36.00	36.00	36.69	41.26	41.28	41.28
920	45.900	36.00	36.00	36.68	41.24	41.25	41.25
921	45.950	36.00	36.00	36.68	41.21	41.22	41.22
922	46.000	36.00	36.00	36.67	41.18	41.20	41.20
923	46.050	36.00	36.00	36.67	41.16	41.17	41.17
924	46.100	36.00	36.00	36.66	41.13	41.15	41.15
925	46.150	36.00	36.00	36.66	41.11	41.12	41.12
926	46.200	36.00	36.00	36.65	41.08	41.09	41.09
927	46.250	36.00	36.00	36.65	41.06	41.07	41.07
928	46.300	36.00	36.00	36.64	41.03	41.04	41.04
929	46.350	36.00	36.00	36.64	41.01	41.02	41.02
930	46.400	36.00	36.00	36.63	40.98	40.99	40.99
931	46.450	36.00	36.00	36.63	40.96	40.97	40.97
932	46.500	36.00	36.00	36.63	40.93	40.94	40.94
933	46.550	36.00	36.00	36.62	40.91	40.92	40.92
934	46.600	36.00	36.00	36.62	40.88	40.90	40.90

935	46.650	36.00	36.00	36.61	40.66	40.67	40.67
936	46.700	36.00	36.00	36.61	40.64	40.65	40.65
937	46.750	36.00	36.00	36.60	40.81	40.82	40.82
938	46.800	36.00	36.00	36.60	40.79	40.80	40.80
939	46.850	36.00	36.00	36.59	40.77	40.78	40.78
940	46.900	36.00	36.00	36.59	40.74	40.75	40.75
941	46.950	36.00	36.00	36.59	40.72	40.73	40.73
942	47.000	36.00	36.00	36.58	40.70	40.71	40.71
943	47.050	36.00	36.00	36.58	40.67	40.68	40.68
944	47.100	36.00	36.00	36.57	40.65	40.66	40.66
945	47.150	36.00	36.00	36.57	40.63	40.64	40.64
946	47.200	36.00	36.00	36.57	40.61	40.62	40.62
947	47.250	36.00	36.00	36.56	40.58	40.59	40.59
948	47.300	36.00	36.00	36.56	40.56	40.57	40.57
949	47.350	36.00	36.00	36.55	40.54	40.55	40.55
950	47.400	36.00	36.00	36.55	40.52	40.53	40.53
951	47.450	36.00	36.00	36.55	40.50	40.51	40.51
952	47.500	36.00	36.00	36.54	40.48	40.49	40.49
953	47.550	36.00	36.00	36.54	40.45	40.46	40.46
954	47.600	36.00	36.00	36.54	40.43	40.44	40.44
955	47.650	36.00	36.00	36.53	40.41	40.42	40.42
956	47.700	36.00	36.00	36.53	40.39	40.40	40.40
957	47.750	36.00	36.00	36.52	40.37	40.38	40.38
958	47.800	36.00	36.00	36.52	40.35	40.36	40.36
959	47.850	36.00	36.00	36.52	40.33	40.34	40.34
960	47.900	36.00	36.00	36.51	40.31	40.32	40.32
961	47.950	36.00	36.00	36.51	40.29	40.30	40.30
962	48.000	36.00	36.00	36.51	40.27	40.28	40.28
963	48.050	36.00	36.00	36.50	40.25	40.26	40.26
964	48.100	36.00	36.00	36.50	40.23	40.24	40.24
965	48.150	36.00	36.00	36.50	40.21	40.22	40.22
966	48.200	36.00	36.00	36.49	40.19	40.20	40.20
967	48.250	36.00	36.00	36.49	40.17	40.18	40.18
968	48.300	36.00	36.00	36.49	40.15	40.16	40.16
969	48.350	36.00	36.00	36.48	40.13	40.14	40.14
970	48.400	36.00	36.00	36.48	40.11	40.12	40.12
971	48.450	36.00	36.00	36.48	40.09	40.10	40.10
972	48.500	36.00	36.00	36.47	40.07	40.08	40.08
973	48.550	36.00	36.00	36.47	40.06	40.06	40.06
974	48.600	36.00	36.00	36.47	40.04	40.05	40.05
975	48.650	36.00	36.00	36.46	40.02	40.03	40.03
976	48.700	36.00	36.00	36.46	40.00	40.01	40.01
977	48.750	36.00	36.00	36.46	39.98	39.99	39.99
978	48.800	36.00	36.00	36.46	39.96	39.97	39.97
979	48.850	36.00	36.00	36.45	39.95	39.95	39.95
980	48.900	36.00	36.00	36.45	39.93	39.94	39.94
981	48.950	36.00	36.00	36.45	39.91	39.92	39.92
982	49.000	36.00	36.00	36.44	39.89	39.90	39.90
983	49.050	36.00	36.00	36.44	39.87	39.88	39.88
984	49.100	36.00	36.00	36.44	39.86	39.87	39.87
985	49.150	36.00	36.00	36.44	39.84	39.85	39.85
986	49.200	36.00	36.00	36.43	39.82	39.83	39.83
987	49.250	36.00	36.00	36.43	39.81	39.81	39.81
988	49.300	36.00	36.00	36.43	39.79	39.80	39.80
989	49.350	36.00	36.00	36.42	39.77	39.78	39.78
990	49.400	36.00	36.00	36.42	39.75	39.76	39.76
991	49.450	36.00	36.00	36.42	39.74	39.75	39.75
992	49.500	36.00	36.00	36.42	39.72	39.73	39.73
993	49.550	36.00	36.00	36.41	39.70	39.71	39.71
994	49.600	36.00	36.00	36.41	39.69	39.70	39.70
995	49.650	36.00	36.00	36.41	39.67	39.68	39.68
996	49.700	36.00	36.00	36.41	39.66	39.66	39.66
997	49.750	36.00	36.00	36.40	39.64	39.65	39.65
998	49.800	36.00	36.00	36.40	39.62	39.63	39.63
999	49.850	36.00	36.00	36.40	39.61	39.61	39.61
1000	49.900	36.00	36.00	36.40	39.59	39.60	39.60
1001	49.950	36.00	36.00	36.39	39.57	39.58	39.58

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 1
BELOW JOCASSEE HYDRO-M1 AT MILE .10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1079.97 FEET
FLOOD STAGE = 363.00 FEET
MAX STAGE = 333.97 FEET AT TIME = .000 HOURS
MAX FLOW = 3949060 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	334.0	26600	*	.	.	.	.	.
2	329.0	791773	.	.	.	.	.	.
4	262.3	3949060	.	.	.	.	.	.
6	162.7	1202088	.	.	.	.	.	.
8	106.0	342382	.	.	.	.	.	.
10	76.9	91709	.	.	.	.	.	.
12	66.9	37495	.	.	.	.	.	.
14	65.9	33074	.	.	.	.	.	.
16	66.4	35166	.	.	.	.	.	.
18	66.5	35760	.	.	.	.	.	.
20	66.6	35935	.	.	.	.	.	.
22	66.6	35982	.	.	.	.	.	.
24	66.6	35995	.	.	.	.	.	.
26	66.6	35996	.	.	.	.	.	.
28	66.6	35996	.	.	.	.	.	.
30	66.6	35996	.	.	.	.	.	.
32	66.6	35996	.	.	.	.	.	.
34	66.6	35996	.	.	.	.	.	.
36	66.6	35996	.	.	.	.	.	.
38	66.6	35996	.	.	.	.	.	.
40	66.6	35996	.	.	.	.	.	.
42	66.6	35996	.	.	.	.	.	.
44	66.6	35996	.	.	.	.	.	.
46	66.6	35996	.	.	.	.	.	.
48	66.6	35996	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 13
BELOW JOCASSEE HYDRO-M1 AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 871.15 FEET
FLOOD STAGE = 69.00 FEET
MAX STAGE = 140.15 FEET AT TIME = 4.550 HOURS
MAX FLOW = 3709629 CFS AT TIME = 4.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	65.0	26616	*	.	.	.	.	.
2	73.6	722321	.	.	.	.	.	.
4	133.6	3703503	.	.	.	.	.	.
6	122.6	1329783	.	.	.	.	.	.
8	83.7	399885	.	.	.	.	.	.
10	69.2	116590	.	.	.	.	.	.
12	58.1	57996	.	.	.	.	.	.
14	47.0	47697	.	.	.	.	.	.
16	33.0	43534	.	.	.	.	.	.
18	23.9	40360	.	.	.	.	.	.
20	17.0	36629	.	.	.	.	.	.
22	16.5	36011	.	.	.	.	.	.
24	16.4	35997	.	.	.	.	.	.
26	16.4	35996	.	.	.	.	.	.
28	16.4	35996	.	.	.	.	.	.
30	16.4	35996	.	.	.	.	.	.
32	16.4	35996	.	.	.	.	.	.
34	16.4	35996	.	.	.	.	.	.
36	16.4	35996	.	.	.	.	.	.
38	16.4	35996	.	.	.	.	.	.
40	16.4	35996	.	.	.	.	.	.
42	16.4	35996	.	.	.	.	.	.
44	16.4	35996	.	.	.	.	.	.
46	16.4	35996	.	.	.	.	.	.
48	16.4	35996	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 73
BELOW JOCASSEE HYDRO-M1 AT MILE 13.90

GAGE ZERO = 648.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 821.74 FEET
FLOOD STAGE = 152.00 FEET
MAX STAGE = 173.74 FEET AT TIME = 5.250 HOURS
MAX FLOW = 2928813 CFS AT TIME = 6.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	147.9	57092	.	.	.	.	.	.
1	147.8	40487	.	.	.	.	.	.
2	149.1	226961	.	.	.	.	.	.
3	155.4	766735	.	.	.	.	.	.
4	165.3	1387716	.	.	.	.	.	.
5	173.4	1980059	.	.	.	.	.	.
6	169.1	2928070	.	.	.	.	.	.
7	166.2	1699782	.	.	.	.	.	.
8	162.3	1128361	.	.	.	.	.	.
9	156.7	800295	.	.	.	.	.	.
10	151.1	634355	.	.	.	.	.	.
11	145.6	531994	.	.	.	.	.	.
12	139.9	497805	.	.	.	.	.	.
13	134.4	431815	.	.	.	.	.	.
14	125.4	826800	.	.	.	.	.	.
15	120.0	363663	.	.	.	.	.	.
16	114.4	267908	.	.	.	.	.	.
17	109.4	243945	.	.	.	.	.	.
18	104.7	214129	.	.	.	.	.	.
19	100.2	190010	.	.	.	.	.	.
20	96.0	169002	.	.	.	.	.	.
21	92.0	151695	.	.	.	.	.	.
22	89.2	138095	.	.	.	.	.	.
23	84.5	130884	.	.	.	.	.	.
24	80.5	136176	.	.	.	.	.	.
25	76.0	137631	.	.	.	.	.	.
26	71.2	128813	.	.	.	.	.	.
27	66.6	115529	.	.	.	.	.	.
28	62.1	101143	.	.	.	.	.	.
29	58.1	87558	.	.	.	.	.	.
30	54.6	75664	.	.	.	.	.	.
31	51.5	65828	.	.	.	.	.	.
32	48.9	58010	.	.	.	.	.	.
33	46.8	52015	.	.	.	.	.	.
34	45.1	47561	.	.	.	.	.	.
35	43.8	44342	.	.	.	.	.	.
36	42.7	42063	.	.	.	.	.	.
37	41.9	40468	.	.	.	.	.	.
38	41.2	39358	.	.	.	.	.	.
39	40.7	38578	.	.	.	.	.	.
40	40.3	38023	.	.	.	.	.	.
41	39.9	37621	.	.	.	.	.	.
42	39.7	37324	.	.	.	.	.	.
43	39.4	37097	.	.	.	.	.	.
44	39.2	36922	.	.	.	.	.	.
45	39.0	36784	.	.	.	.	.	.
46	38.9	36673	.	.	.	.	.	.
47	38.7	36582	.	.	.	.	.	.
48	38.6	36507	.	.	.	.	.	.
49	38.5	36443	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 74
BELOW JOCASSEE HYDRO-M1 AT MILE 14.10

GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.05 FEET
FLOOD STAGE = 152.60 FEET
MAX STAGE = 174.85 FEET AT TIME = 5.200 HOURS
MAX FLOW = 3193370 CFS AT TIME = 6.150 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.5	28180	.	.	.	.	.	.
2	149.7	122786	.	.	.	.	.	.
4	166.5	195448	.	.	.	.	.	.
6	169.2	2991752	.	.	.	.	.	.
8	162.2	1713066	.	.	.	.	.	.
10	150.7	1394510	.	.	.	.	.	.
12	139.7	1107724	.	.	.	.	.	.
14	126.1	722299	.	.	.	.	.	.
16	114.3	586375	.	.	.	.	.	.
18	104.5	489084	.	.	.	.	.	.
20	95.8	408568	.	.	.	.	.	.
22	88.0	341672	.	.	.	.	.	.
24	80.4	280819	.	.	.	.	.	.
26	71.2	213890	.	.	.	.	.	.
28	62.2	155247	.	.	.	.	.	.
30	54.7	112053	.	.	.	.	.	.
32	49.1	83566	.	.	.	.	.	.
34	45.4	66154	.	.	.	.	.	.
36	43.0	55998	.	.	.	.	.	.
38	41.6	50070	.	.	.	.	.	.
40	40.7	46440	.	.	.	.	.	.
42	40.0	44059	.	.	.	.	.	.
44	39.6	42399	.	.	.	.	.	.
46	39.3	41185	.	.	.	.	.	.
48	39.0	40268	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 75
BELOW JOCASSEE HYDRO-M1 AT MILE 14.20

GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.00 FEET
FLOOD STAGE = 153.00 FEET
MAX STAGE = 175.00 FEET AT TIME = 5.200 HOURS
MAX FLOW = 3199137 CFS AT TIME = 6.150 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.9	19500	.	.	.	.	.	.
2	150.1	119963	.	.	.	.	.	.
4	166.9	188696	.	.	.	.	.	.
6	169.4	2999682	.	.	.	.	.	.
8	162.5	1716191	.	.	.	.	.	.
10	151.1	1397833	.	.	.	.	.	.
12	140.0	1110758	.	.	.	.	.	.
14	126.4	714991	.	.	.	.	.	.
16	114.7	588333	.	.	.	.	.	.
18	104.9	490536	.	.	.	.	.	.
20	96.2	409620	.	.	.	.	.	.
22	88.4	342498	.	.	.	.	.	.
24	80.7	281665	.	.	.	.	.	.
26	71.6	214723	.	.	.	.	.	.
28	62.5	155890	.	.	.	.	.	.
30	55.0	112488	.	.	.	.	.	.
32	49.5	83837	.	.	.	.	.	.
34	45.7	66314	.	.	.	.	.	.
36	43.4	56090	.	.	.	.	.	.
38	41.9	50125	.	.	.	.	.	.
40	41.0	46475	.	.	.	.	.	.
42	40.4	44083	.	.	.	.	.	.
44	40.0	42416	.	.	.	.	.	.
46	39.6	41198	.	.	.	.	.	.
48	39.4	40278	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 76
BELOW JOCASSEE HYDRO-M1 AT MILE 14.80
GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 802.01 FEET
FLOOD STAGE = 23.00 FEET
MAX STAGE = 156.01 FEET AT TIME = 7.200 HOURS
MAX FLOW = 3199137 CFS AT TIME = 6.150 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	21.2	19500	*	.	.	.	.	.
2	34.2	119863	.	.	.	.	.	.
4	47.3	188696	.	.	.	.	.	.
6	135.8	2999582	.	.	.	.	.	.
8	154.0	1716191	.	.	.	.	.	.
10	143.9	1397833	.	.	.	.	.	.
12	131.6	1110758	.	.	.	.	.	.
14	120.7	714991	.	.	.	.	.	.
16	104.8	588333	.	.	.	.	.	.
18	95.1	490536	.	.	.	.	.	.
20	87.6	409620	.	.	.	.	.	.
22	81.0	342498	.	.	.	.	.	.
24	74.1	281665	.	.	.	.	.	.
26	65.4	214723	.	.	.	.	.	.
28	54.9	155890	.	.	.	.	.	.
30	46.4	112488	.	.	.	.	.	.
32	39.9	83837	.	.	.	.	.	.
34	35.6	66314	.	.	.	.	.	.
36	33.0	56090	.	.	.	.	.	.
38	31.4	50125	.	.	.	.	.	.
40	30.4	46475	.	.	.	.	.	.
42	29.6	44083	.	.	.	.	.	.
44	29.0	42416	.	.	.	.	.	.
46	28.5	41198	.	.	.	.	.	.
48	28.1	40278	.	.	.	.	.	.

ATTACHMENT 5
JOSD10 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

JOCASSEE HYDRO-M1

ON

JOC/KEO FAILURE

ANALYSIS BY

SD FAILURE OPTION 12
JOSD10 09142008 SDF611 JOC01085/K0796 W/
FPC @ L RIVER CANAL COE QT CURVE 900 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATANBA PROJECT

*** SUMMARY OF INPUT DATA ***

INPUT CONTROL PARAMETERS FOR JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KRM	1
TYPE OF RESERVOIR ROUTING	KUI	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEH	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK-9 NPRT		0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES) SA(K)	ELEVATION (FT) HSA(K)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1085.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	800.00
WIDTH OF BASE OF BREACH	FEET	BB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TFM	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	940.00
ELEVATION OF TOP OF DAM	FEET	HD	1175.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	796.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	796.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19500.00

DAM NUMBER 3

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	638.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40875.	1.0
44081.	3.0
47314.	5.0
52201.	8.0
55476.	10.0
58759.	12.0
61222.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
47307.	.2
98699.	.5
102810.	2.0
111097.	4.0
119450.	6.0
136248.	10.0
144639.	12.0

QTT(L, K):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

QSPILL(K, 3) CFS	HEAD(K, 3) FEET
0.	.0
78750.	.5
157500.	1.0
315000.	2.0
353000.	6.0
400000.	8.0
480000.	12.0
565000.	16.0

DHF (INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.
TEN (TIME AT WHICH COMPUTATIONS TERMINATE) = 50.0000 HRS.
BREX (BREACH EXPONENT) = .000
MUD (MUD FLOW OPTION) = 0
IMF (TYPE OF WAVE FRONT TRACKING) = 0
MPRES (NETTED PERIMETER OPTION) = 0
MSL (LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-M1

500.00	500.00	500.00	500.00	36000.00	36000.00	36000.00
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TIME OF INFLOW HYDROGRAPH ORDINATES

.0000	1.0000	7.0000	8.0000	14.0000	30.0000	140.0000
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CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)

1	3	9	10	11	12
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CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE

LOCATION OF CROSS-SECTION MILE XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION FEET FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH FEET HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV FEET BS(K,I)
(ACTIVE FLOW PORTION)
TOP WIDTH CORRESPONDING TO EACH ELEV FEET BSS(K,I)
(OFF-CHANNEL PORTION)
NUMBER OF CROSS-SECTION I
NUMBER OF ELEVATION LEVEL R

CROSS-SECTION NUMBER 1

XS(I) = .100 FSTG(I) = 1109.00

HS ...	746.0	780.0	840.0	940.0	1000.0	1100.0	1140.0
BS0	600.0	900.0	1400.0	1800.0	2600.0	2790.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2

XS(I) = .130 FSTG(I) = 800.00

HS ...	745.0	760.0	800.0	820.0	840.0	900.0	940.0
BS ...	.0	1000.0	1500.0	1600.0	1800.0	2000.0	2200.0
BSS ...	.0	.0	541.0	900.0	1184.0	2897.0	4000.0

CROSS-SECTION NUMBER 3

XS(I) = 1.320 FSTG(I) = 800.00

HS ...	731.0	740.0	760.0	800.0	820.0	840.0	900.0
BS ...	.0	250.0	1300.0	2000.0	2200.0	2400.0	2600.0
BSS ...	.0	.0	.0	541.0	900.0	1184.0	2897.0

CROSS-SECTION NUMBER 4

XS(I) = 2.910 FSTG(I) = 800.00

HS ...	715.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	700.0	1700.0	1850.0	2100.0	2800.0
BSS ...	.0	.0	.0	3359.0	5100.0	6007.0	12026.0

CROSS-SECTION NUMBER 5

XS(I) = 3.820 FSTG(I) = 800.00

HS ...	710.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	500.0	800.0	850.0	925.0	2300.0
BSS ...	.0	.0	.0	3771.0	5780.0	7764.0	14858.0

CROSS-SECTION NUMBER 6

XS(I) = 6.470 FSTG(I) = 800.00

HS ...	693.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	500.0	600.0	1000.0	1150.0	1300.0	1900.0
BSS ...	.0	.0	.0	412.0	680.0	957.0	2032.0

CROSS-SECTION NUMBER 7
.....

XS(I) = 8.210 FSTG(I) = 800.00

HS ...	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	1600.0	1850.0	2000.0	2300.0	2425.0	2700.0
BSS ...	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8
.....

XS(I) = 10.480 FSTG(I) = 800.00

HS ...	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	2400.0	3700.0	4000.0	4400.0	4660.0	4950.0
BSS ...	.0	.0	.0	.0	1426.0	2860.0	4300.0

CROSS-SECTION NUMBER 9
.....

XS(I) = 13.900 FSTG(I) = 800.00

HS ...	648.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10
.....

XS(I) = 14.100 FSTG(I) = 800.00

HS ...	647.4	680.0	740.0	780.0	800.0	820.0	840.0
BS0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11
.....

XS(I) = 14.200 FSTG(I) = 800.00

HS ...	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12
.....

XS(I) = 14.800 FSTG(I) = 669.00

HS ...	646.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS ...	.0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13
.....

XS(I) = 16.400 FSTG(I) = 667.00

HS	...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS	...	.0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS	...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14

XS(I) = 17.800 FSTG(I) = 665.00

HS	...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS	...	.0	400.0	700.0	800.0	1800.0	2400.0	4000.0
BSS	...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15

XS(I) = 20.300 FSTG(I) = 661.40

HS	...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS	...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS	...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16

XS(I) = 21.900 FSTG(I) = 660.60

HS	...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS	...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS	...	.0	.0	.0	1217.0	2400.0	5000.0	6097.0

CROSS-SECTION NUMBER 17

XS(I) = 25.100 FSTG(I) = 660.00

HS	...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS	...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS	...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18

XS(I) = 26.700 FSTG(I) = 660.00

HS	...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS	...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS	...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19

XS(I) = 29.200 FSTG(I) = 660.00

HS	...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS	...	.0	250.0	600.0	800.0	4700.0	6000.0	7000.0
BSS	...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20
.....

XS(1) = 31.500 FSTG(1) = 660.00

HS ...	600.0	620.0	640.0	660.0	670.0	680.0	700.0
BS ...	.0	1400.0	2000.0	2400.0	2800.0	3000.0	4000.0
BSS ...	.0	.0	.0	2330.0	3150.0	4320.0	5764.0

CROSS-SECTION NUMBER 21
.....

XS(1) = 36.800 FSTG(1) = 660.00

HS ...	589.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	600.0	1500.0	1700.0	2200.0	2900.0	3500.0
BSS ...	.0	.0	.0	50.0	3664.0	5770.0	8808.0

CROSS-SECTION NUMBER 22
.....

XS(1) = 40.100 FSTG(1) = 660.00

HS ...	583.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	600.0	800.0	900.0	1100.0	1200.0
BSS ...	.0	.0	.0	50.0	384.0	1900.0	3444.0

CROSS-SECTION NUMBER 23
.....

XS(1) = 41.100 FSTG(1) = 660.00

HS ...	540.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	1500.0	1900.0	2000.0	2150.0	2350.0	3100.0
BSS ...	.0	.0	.0	50.0	10358.0	15200.0	20109.0

CROSS-SECTION NUMBER 24
.....

XS(1) = 42.800 FSTG(1) = 660.00

HS ...	520.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	2000.0	4300.0	5700.0	11000.0	13000.0	14000.0
BSS ...	.0	.0	3500.0	4000.0	34673.0	68200.0	101803.0

CROSS-SECTION NUMBER 25
.....

XS(1) = 49.900 FSTG(1) = 660.00

HS ...	497.0	500.0	600.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	3500.0	4200.0	10000.0	10700.0	11200.0
BSS ...	.0	.0	1000.0	1800.0	18239.0	29500.0	40619.0

CROSS-SECTION NUMBER 26
.....

XS(1) = 53.900 FSTG(1) = 660.00

HS ...	490.0	540.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	1500.0	12000.0	14000.0	14700.0	15000.0	16200.0
BSS ...	.0	.0	.0	50.0	100.0	1500.0	2400.0

CROSS-SECTION NUMBER 27
.....

XS(I) = 54.400 FSTG(I) = 496.80

HS ...	485.0	500.0	520.0	540.0	560.0	580.0	600.0
BS ...	.0	1000.0	1100.0	1200.0	1250.0	2100.0	2500.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28
.....

XS(I) = 55.700 FSTG(I) = 482.00

HS ...	474.0	480.0	500.0	520.0	540.0	580.0	600.0
BS ...	.0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS ...	.0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29
.....

XS(I) = 69.700 FSTG(I) = 477.00

HS ...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30
.....

XS(I) = 72.300 FSTG(I) = 477.00

HS ...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31
.....

XS(I) = 79.900 FSTG(I) = 477.00

HS ...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS ...	.0	1500.0	1800.0	2000.0	2200.0	3600.0	6000.0
BSS ...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(CM(K, I), K=1, NCS) WHERE I = REACH NUMBER
.....

REACH 1 ...	.030	.030	.030	.030	.030	.030	.030
REACH 2 ...	.030	.030	.035	.040	.050	.070	.080
REACH 3 ...	.030	.030	.030	.035	.040	.050	.080
REACH 4 ...	.030	.030	.030	.035	.040	.050	.080
REACH 5 ...	.030	.030	.030	.035	.040	.050	.080
REACH 6 ...	.030	.030	.030	.030	.035	.050	.080
REACH 7 ...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.060	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.050	.060	.080
REACH 27 ...	.030	.030	.030	.035	.050	.060	.080
REACH 28 ...	.030	.030	.030	.035	.050	.060	.080
REACH 29 ...	.030	.030	.030	.035	.050	.060	.080
REACH 30 ...	.030	.030	.030	.035	.050	.060	.080

1

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FXC(I)

REACH NUMBER	DXM(I)	FXC(I)
1	-101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.500	.000
8	.200	.000
9	.500	.000
10	1.500	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
 BELOW JOCASSEE HYDRO-N1

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITTY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET	QLL	.000
INITIAL SIZE OF TIME STEP	HOURL	DTIM	.0300
DOWNSTREAM BOUNDARY PARAMETER	FEET	YDN	.000200
SLOPE OF CHANNEL DOWNSTREAM OF DAM	YPM	SOM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOURL	TFI	.00

NPLD= 1

III= 1 NXPI(K,III)= 9 NXPM(K,III)= 10 NQLP(K)= 0 PMLV(K,III)= 720.10 PCNR(K,III)= 3.20 PEO(K)= 794.61 QMNP(K)= .00

(PSA(I,K),I=1,8)
 58854.00 353605.00 485177.00 535128.00 644168.00 703866.00 767766.00 908172.00

(PEL(I,K),I=1,8)
 720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(QPU(I,K),I=1,ITEM)
 .00 .00 .00 .00 .00 .00 .00 .00

(COFF(I,K),I=1,8)
 .00 .00 .00 .00 .00 .00 .00 .00

(HCFF(I,K),I=1,8)
 900.00 .00 .00 .00 .00 .00 .00 .00
 NPM= 0

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (NI) = 183 MAXIMUM ALLOWABLE = 250

*** SUMMARY OF OUTPUT DATA ***

CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESSAGE
1	.10	746.00				
2	.13	745.00	1	.03	33.33	
3	1.32	731.00	2	1.19	11.76	
4	2.91	715.00	3	1.59	10.06	
5	3.82	710.00	4	.91	5.49	
6	6.47	693.00	5	2.45	6.42	
7	8.21	680.00	6	1.74	7.47	
8	10.48	672.00	7	2.27	3.52	
9	13.90	648.00	8	3.42	7.02	
10	14.10	647.40	9	.20	3.00	
11	14.20	647.00	10	.10	4.00	
12	14.80	646.00	11	.60	1.67	
13	16.40	645.00	12	1.60	.63	
14	17.80	644.00	13	1.40	.71	
15	20.30	633.00	14	2.50	4.40	
16	21.90	628.00	15	1.60	3.12	
17	25.10	620.00	16	3.20	2.50	
18	26.70	614.00	17	1.60	3.75	
19	29.20	607.00	18	2.50	2.80	
20	31.50	600.00	19	2.30	3.04	
21	36.80	589.00	20	5.30	2.08	
22	40.10	583.00	21	3.30	1.82	
23	41.10	540.00	22	1.00	43.00	
24	42.80	520.00	23	1.70	11.76	
25	49.90	497.00	24	7.10	3.24	
26	53.90	490.00	25	4.00	1.75	
27	54.40	485.00	26	.50	10.00	
28	55.70	474.00	27	1.30	8.46	
29	69.70	403.00	28	14.00	4.93	
30	72.30	387.00	29	2.60	6.92	
31	79.90	330.00	30	7.60	7.50	

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1

IDAM(2) = 75

IDAM(3) = 140

SNC(K,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS NM(NS) 183

NUMBER OF TIME STEPS NMU 7

ROUTING COMPLETED.

KTIME= 1001 ALLOWABLE KTIME=9999 TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
1.100	1084.98	4053787	4.000	14.13	1109.00	1.00
1.130	877.27	4053787	4.450	21.83	800.00	1.50
1.238	876.89	4032241	4.450	21.42	800.00	1.50
1.346	876.51	4010440	4.450	20.98	800.00	1.50
1.455	876.12	3988402	4.450	20.51	800.00	1.55
1.563	875.72	3966165	4.450	20.02	800.00	1.55
1.671	875.34	3943777	4.500	19.51	800.00	1.55
1.779	874.96	3921258	4.500	18.98	800.00	1.55
1.887	874.61	3898454	4.500	18.44	800.00	1.55
1.995	874.27	3875244	4.500	17.89	800.00	1.60
2.104	873.96	3851644	4.550	17.32	800.00	1.60
2.212	873.67	3827655	4.550	16.73	800.00	1.60
2.320	873.41	3803996	4.550	16.14	800.00	1.60
2.426	873.08	3780048	4.550	15.59	800.00	1.60
2.532	872.75	3755279	4.600	15.23	800.00	1.60
2.638	872.43	3730690	4.600	14.26	800.00	1.60
2.744	872.09	3711301	4.600	13.29	800.00	1.65
2.850	871.76	3680150	4.600	12.30	800.00	1.65
2.956	871.41	3646282	4.650	11.31	800.00	1.65
3.062	871.07	3609755	4.650	10.32	800.00	1.65
3.168	870.71	3570634	4.650	9.32	800.00	1.65
3.274	870.35	3528988	4.650	8.31	800.00	1.65
3.380	869.98	3484890	4.650	7.29	800.00	1.65
3.486	869.59	3438415	4.700	6.27	800.00	1.70
3.592	869.21	3389644	4.700	5.24	800.00	1.70
3.698	868.81	3341348	4.700	4.20	800.00	1.70
3.804	868.39	3294277	4.700	3.15	800.00	1.70
3.910	867.96	3245098	4.700	2.10	800.00	1.70
4.013	867.45	3191251	4.750	1.04	800.00	1.75
4.117	866.94	2974921	4.800	23.95	800.00	1.80
4.220	866.39	2873273	4.900	35.95	800.00	1.90
4.324	865.55	2813926	4.900	34.95	800.00	1.95
4.428	864.05	2763186	4.850	34.17	800.00	2.00
4.532	863.88	2721884	4.900	33.58	800.00	2.00
4.635	863.06	2689689	5.150	33.14	800.00	2.05
4.739	862.57	2666347	5.300	32.85	800.00	2.15
4.843	862.25	2650522	5.350	32.75	800.00	2.20
4.947	862.11	2641489	5.450	32.77	800.00	2.25
5.051	862.11	2635711	5.500	32.93	800.00	2.30
5.155	862.23	2630369	5.550	33.27	800.00	2.35
5.258	862.47	2624265	5.600	33.89	800.00	2.45
5.362	862.60	2616847	5.650	34.88	800.00	2.55
5.466	862.23	2608816	5.650	36.36	800.00	2.70
5.570	861.74	2598920	5.700	39.04	800.00	3.05
5.674	862.58	2587048	5.600	27.52	800.00	2.60
5.778	862.88	2572552	5.550	22.32	800.00	2.50
5.882	862.54	2552965	5.500	18.85	800.00	2.45
5.986	862.90	2527809	5.500	16.30	800.00	2.45

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
7.557	825.08	2497265	5.500	14.29	800.00	2.45
7.775	825.16	2460784	5.450	12.64	800.00	2.45
7.992	825.17	2419314	5.450	11.26	800.00	2.45
8.210	825.12	2369521	5.450	10.06	800.00	2.45
8.777	824.92	2468738	5.400	8.45	800.00	2.45
9.345	824.71	2604983	5.350	7.53	800.00	2.45
9.912	824.53	2704209	5.350	6.76	800.00	2.45
10.480	824.37	2781537	5.350	6.11	800.00	2.45
10.601	824.28	2802565	5.350	6.21	800.00	2.45
10.882	824.18	2821899	5.350	6.31	800.00	2.45
11.084	824.08	2839520	5.350	6.42	800.00	2.45
11.285	823.98	2855438	5.300	6.53	800.00	2.45
11.486	823.87	2871034	5.300	6.66	800.00	2.45
11.687	823.77	2889316	5.300	6.79	800.00	2.50
11.888	823.65	2906063	5.300	6.94	800.00	2.50
12.089	823.53	2921204	5.300	7.10	800.00	2.50
12.291	823.40	2934650	5.300	7.29	800.00	2.50
12.492	823.27	2946292	5.300	7.48	800.00	2.50
12.693	823.13	2956080	5.250	7.69	800.00	2.50
12.894	822.98	2964078	5.250	7.93	800.00	2.50
13.095	822.81	2976649	5.250	8.18	800.00	2.50
13.296	822.64	2988352	5.250	8.47	800.00	2.50
13.498	822.44	2997969	5.250	8.80	800.00	2.50
13.699	822.23	3004255	5.200	9.17	800.00	2.50

13.900	822.00	3006536	5.200	9.58	800.00	2.50
14.100	822.32	3214094	5.150	10.41	800.00	2.50
14.200	822.27	3216894	5.150	10.45	800.00	2.50
14.800	802.82	3216894	7.150	18.32	669.00	1.65
14.900	802.61	3164763	7.150	17.55	668.88	1.60
15.000	802.40	3113027	7.200	16.81	668.75	1.60
15.100	802.19	3061708	7.200	16.10	668.63	1.60
15.200	801.97	3010860	7.200	15.42	668.50	1.60
15.300	801.76	2960551	7.200	14.90	668.38	1.65
15.400	801.54	2910866	7.200	14.49	668.25	1.65
15.500	801.32	2861892	7.200	14.12	668.13	1.65
15.600	801.10	2816943	7.200	13.79	668.00	1.65
15.700	800.87	2776332	7.250	13.51	667.88	1.65
15.800	800.65	2736017	7.250	13.27	667.75	1.70
15.900	800.43	2696128	7.250	13.07	667.63	1.70
16.000	800.20	2656784	7.250	12.92	667.50	1.70
16.100	799.98	2618088	7.250	12.78	667.38	1.70
16.200	799.75	2580127	7.250	12.65	667.25	1.70
16.300	799.52	2542972	7.250	12.54	667.13	1.70
16.400	799.30	2506691	7.250	12.42	667.00	1.70
16.500	799.07	2472905	7.250	12.31	666.86	1.75
16.600	798.83	2441646	7.250	12.20	666.71	1.75
16.700	798.59	2410103	7.300	12.09	666.57	1.75
16.800	798.35	2378307	7.300	11.98	666.43	1.75

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
 BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	798.09	2346276	7.300	11.87	666.29	1.75
17.000	797.84	2314039	7.300	11.77	666.14	1.75
17.100	797.58	2281621	7.300	11.67	666.00	1.75
17.200	797.31	2249833	7.300	11.56	665.86	1.80
17.300	797.03	2217330	7.300	11.46	665.71	1.80
17.400	796.75	2184671	7.300	11.36	665.57	1.80
17.500	796.46	2151868	7.300	11.27	665.43	1.80
17.600	796.16	2119338	7.300	11.18	665.29	1.80
17.700	795.86	2086967	7.300	11.08	665.14	1.85
17.800	795.55	2054568	7.300	10.99	665.00	1.85
18.113	794.32	2031685	7.350	11.25	664.95	1.90
18.425	792.83	1998369	7.350	11.83	664.10	1.90
18.738	790.99	1976760	7.350	12.50	663.65	1.95
19.050	788.68	1959152	7.400	13.48	663.20	2.00
19.363	785.67	1943792	7.400	14.06	662.75	2.00
19.675	781.60	1934207	7.450	16.87	662.30	2.05
19.988	775.76	1930774	7.500	19.99	661.85	2.05
20.300	766.75	1928546	7.600	25.24	661.40	2.10
21.900	740.12	1889088	9.200	23.32	660.60	2.30
25.100	720.81	1596225	11.200	17.92	660.00	3.60
25.633	717.83	1524995	11.450	16.27	660.00	3.90
26.167	714.68	1467895	11.800	14.21	660.00	4.15
26.700	711.80	1432914	12.150	11.46	660.00	4.40
29.200	700.47	1352407	14.850	16.09	660.00	6.10
29.775	698.90	1335329	15.100	11.78	660.00	6.10
30.350	696.77	1315082	15.300	10.67	660.00	6.20
30.925	695.44	1292361	15.450	9.46	660.00	6.25
31.500	693.82	1268474	15.650	8.25	660.00	6.35
34.150	687.34	1188746	16.450	7.77	660.00	6.95
36.800	680.82	1139997	17.650	8.14	660.00	7.90
40.100	671.03	1111244	28.800	24.19	660.00	15.00
41.100	671.47	1098856	27.400	6.47	660.00	11.00
42.800	671.46	1006863	27.450	2.20	660.00	10.95
43.814	671.44	922146	27.500	1.94	660.00	10.95
44.829	671.42	842535	27.550	1.72	660.00	11.00
45.843	671.40	768039	27.600	1.53	660.00	11.00
46.857	671.38	698679	27.600	1.37	660.00	11.00
47.871	671.36	635461	27.600	1.22	660.00	11.00
48.886	671.35	584983	27.650	1.10	660.00	11.00
49.900	671.33	542756	27.650	.99	660.00	11.00
50.900	671.33	511122	27.650	.61	660.00	11.00
51.900	671.32	493196	27.650	.45	660.00	11.00
52.900	671.32	485614	27.650	.38	660.00	11.00
53.900	671.32	483861	27.600	.33	660.00	11.00
54.400	513.86	483861	26.600	22.19	496.80	.10
55.050	500.57	483842	28.500	20.88	489.40	.30
55.700	499.50	483714	28.500	11.08	482.00	.75
56.200	497.36	483562	28.700	11.08	481.62	.60

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
 BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
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56.700	495.24	483399	28.900	11.06	481.64	.90
57.200	493.13	483219	29.100	11.04	481.46	1.25
57.700	491.01	483020	29.300	11.01	481.29	1.85
58.200	488.91	482806	29.500	10.99	481.11	13.15
58.700	486.80	482579	29.700	10.96	480.93	14.15
59.200	484.70	482340	29.900	10.93	480.75	17.55
59.700	482.60	482093	30.100	10.90	480.57	21.00
60.200	480.51	481839	30.300	10.87	480.39	28.05
60.700	478.42	481583	30.450	10.83	480.21	.00
61.200	476.33	481325	30.700	10.79	480.04	.00
61.700	474.24	481072	30.850	10.75	479.86	.00
62.200	472.15	480823	31.050	10.71	479.68	.00
62.700	470.06	480582	31.200	10.67	479.50	.00
63.200	467.97	480355	31.400	10.63	479.32	.00
63.700	465.88	480142	31.550	10.58	479.14	.00
64.200	463.78	479946	31.700	10.54	478.96	.00
64.700	461.68	479767	31.800	10.50	478.79	.00
65.200	459.57	479612	31.950	10.47	478.61	.00
65.700	457.45	479475	32.050	10.44	478.43	.00
66.200	455.31	479360	32.150	10.41	478.25	.00
66.700	453.16	479267	32.200	10.39	478.07	.00
67.200	450.97	479192	32.300	10.39	477.89	.00
67.700	448.74	479137	32.350	10.41	477.71	.00
68.200	446.46	479096	32.400	10.45	477.54	.00
68.700	444.10	479068	32.450	10.53	477.36	.00
69.200	441.61	479050	32.500	10.60	477.18	.00
69.700	439.94	479030	32.500	10.93	477.00	.00
70.200	435.66	479030	32.550	11.84	477.00	.00
70.740	432.07	479023	32.600	12.69	477.00	.00
71.260	428.38	479018	32.600	13.35	477.00	.00
71.780	424.55	479014	32.650	13.79	477.00	.00
72.300	420.52	479011	32.700	14.15	477.00	.00
73.386	412.11	479005	32.750	14.23	477.00	.00
74.471	403.71	478998	32.850	14.29	477.00	.00
75.557	395.38	478990	32.950	14.30	477.00	.00
76.643	387.83	478972	33.150	13.79	477.00	.00
77.729	382.87	478941	33.300	11.94	477.00	.00
78.814	380.50	478912	33.300	11.04	477.00	.00
79.900	379.44	478901	33.300	7.75	477.00	.00

K	TTP(K)	YC(N, I), I=1, N(T)				
1	.000	1084.97	796.02	795.86	795.87	795.86
2	.050	1084.95	796.02	795.85	795.85	795.86
3	.100	1084.94	796.02	795.87	795.87	795.86
4	.150	1084.92	796.02	795.87	795.88	795.89
5	.200	1084.90	796.02	795.88	795.88	795.87
6	.250	1084.89	796.01	795.88	795.88	795.89
7	.300	1084.87	796.01	795.88	795.89	795.87
8	.350	1084.86	796.01	795.86	795.86	795.87
9	.400	1084.84	796.00	795.84	795.84	795.84
10	.450	1084.82	795.97	795.81	795.81	795.81
11	.500	1084.81	795.93	795.78	795.78	795.78
12	.550	1084.79	795.87	795.76	795.76	795.76
13	.600	1084.77	795.82	795.76	795.76	795.76
14	.650	1084.76	795.78	795.78	795.78	795.78
15	.700	1084.73	795.78	795.79	795.79	795.79
16	.750	1084.71	795.82	795.80	795.80	795.80
17	.800	1084.68	795.89	795.80	795.80	795.80
18	.850	1084.64	795.98	795.80	795.80	795.80
19	.900	1084.60	796.09	795.80	795.80	795.80
20	.950	1084.55	796.21	795.80	795.80	795.80
21	1.000	1084.49	796.34	795.79	795.79	795.79
22	1.050	1084.43	796.50	795.78	795.78	795.78
23	1.100	1084.35	796.67	795.77	795.77	795.77
24	1.150	1084.26	796.88	795.77	795.77	795.77
25	1.200	1084.16	797.12	795.76	795.76	795.76
26	1.250	1084.04	797.41	795.77	795.77	795.77
27	1.300	1083.90	797.73	795.79	795.79	795.79
28	1.350	1083.75	798.08	795.83	795.82	795.82
29	1.400	1083.58	798.46	795.88	795.88	795.88
30	1.450	1083.39	798.87	795.95	795.95	795.95
31	1.500	1083.18	799.30	796.02	796.02	796.02
32	1.550	1082.95	799.75	796.08	796.07	796.07
33	1.600	1082.69	800.23	796.14	796.13	796.12
34	1.650	1082.40	800.74	796.21	796.20	796.19
35	1.700	1082.09	801.28	796.30	796.28	796.28
36	1.750	1081.75	801.86	796.40	796.39	796.38
37	1.800	1081.38	802.49	796.51	796.50	796.49
38	1.850	1080.97	803.15	796.70	796.70	796.71
39	1.900	1080.53	803.86	796.93	796.93	796.93
40	1.950	1080.05	804.62	797.15	797.15	797.16
41	2.000	1079.54	805.41	797.39	797.39	797.39
42	2.050	1079.99	806.26	797.61	797.62	797.62
43	2.100	1078.40	807.15	797.84	797.85	797.85
44	2.150	1077.76	808.10	798.07	798.08	798.08

45	2.200	1077.08	809.09	798.30	798.32	798.32	682.04
46	2.250	1076.36	810.12	798.55	798.57	798.57	682.41
47	2.300	1075.59	811.20	798.81	798.83	798.83	682.76
48	2.350	1074.77	812.32	799.09	799.12	799.12	683.12
49	2.400	1073.90	813.48	799.39	799.42	799.42	683.46
50	2.450	1072.98	814.69	799.70	799.74	799.74	683.81
51	2.500	1072.01	815.94	800.04	800.08	800.08	684.14
52	2.550	1070.98	817.22	800.38	800.43	800.43	684.48
53	2.600	1069.90	818.55	800.73	800.79	800.79	684.81
54	2.650	1068.76	819.92	801.09	801.16	801.16	685.14
55	2.700	1067.56	821.33	801.46	801.54	801.54	685.46
56	2.750	1066.30	822.79	801.84	801.93	801.93	685.79
57	2.800	1064.98	824.29	802.23	802.33	802.33	686.10
58	2.850	1063.60	825.84	802.63	802.74	802.74	686.42
59	2.900	1062.16	827.44	803.04	803.16	803.16	686.74
60	2.950	1060.65	829.08	803.46	803.59	803.59	687.05
61	3.000	1059.08	830.77	803.90	804.04	804.04	687.37
62	3.050	1057.44	832.48	804.34	804.49	804.49	687.68
63	3.100	1055.72	834.22	804.79	804.95	804.95	687.99
64	3.150	1053.94	835.97	805.25	805.42	805.42	688.30
65	3.200	1052.08	837.75	805.72	805.90	805.90	688.61
66	3.250	1050.15	839.55	806.20	806.39	806.39	688.92
67	3.300	1048.15	841.37	806.68	806.88	806.88	689.23
68	3.350	1046.06	843.19	807.16	807.37	807.37	689.54
69	3.400	1043.90	845.03	807.65	807.87	807.87	689.85
70	3.450	1041.66	846.86	808.15	808.39	808.39	690.16
71	3.500	1039.33	848.70	808.66	808.91	808.91	690.47
72	3.550	1036.92	850.54	809.18	809.44	809.44	690.78
73	3.600	1034.43	852.38	809.70	809.98	809.97	691.09
74	3.650	1031.85	854.21	810.24	810.52	810.52	691.40
75	3.700	1029.18	856.03	810.78	811.08	811.07	691.71
76	3.750	1026.43	857.85	811.33	811.64	811.63	692.02
77	3.800	1023.58	859.66	811.89	812.20	812.20	692.34
78	3.850	1020.63	861.46	812.44	812.77	812.77	692.65
79	3.900	1017.59	863.25	813.01	813.34	813.34	692.97
80	3.950	1014.46	865.02	813.57	813.91	813.91	693.28
81	4.000	1011.22	866.77	814.14	814.49	814.49	693.60
82	4.050	1007.95	868.57	814.71	815.06	815.06	693.92
83	4.100	1004.73	869.32	815.26	815.62	815.62	694.20
84	4.150	1001.56	870.20	815.80	816.17	816.16	694.50
85	4.200	998.43	871.01	816.34	816.71	816.70	694.80
86	4.250	995.34	871.70	816.86	817.24	817.23	695.10
87	4.300	992.30	872.27	817.37	817.76	817.75	695.40
88	4.350	989.30	872.72	817.87	818.26	818.25	695.70
89	4.400	986.34	873.05	818.34	818.74	818.73	696.00
90	4.450	983.42	873.26	818.78	819.19	819.17	696.30
91	4.500	980.54	873.37	819.19	819.60	819.58	696.60
92	4.550	977.71	873.41	819.52	819.94	819.92	696.90
93	4.600	974.91	873.38	819.87	820.29	820.27	697.20
94	4.650	972.15	873.29	820.19	820.60	820.59	697.50
95	4.700	969.43	873.16	820.48	820.90	820.88	697.80
96	4.750	966.75	872.97	820.76	821.17	821.15	698.10
97	4.800	964.10	872.73	821.00	821.42	821.39	698.40
98	4.850	961.49	872.45	821.23	821.63	821.60	698.70
99	4.900	958.92	872.12	821.42	821.82	821.79	699.00
100	4.950	956.38	871.75	821.59	821.98	821.95	699.30
101	5.000	953.87	871.33	821.74	822.11	822.07	699.60
102	5.050	951.40	870.87	821.85	822.22	822.17	699.90
103	5.100	948.97	870.36	821.94	822.29	822.24	700.20
104	5.150	946.57	869.82	822.00	822.32	822.27	700.50
105	5.200	944.20	869.23	822.00	822.31	822.25	700.80
106	5.250	941.86	868.59	822.00	822.28	822.22	701.10
107	5.300	939.55	867.92	821.95	822.21	822.14	701.40
108	5.350	937.28	867.22	821.88	822.11	822.03	701.70
109	5.400	935.04	866.48	821.77	821.96	821.88	702.00
110	5.450	932.82	865.71	821.62	821.78	821.69	702.30
111	5.500	930.64	864.91	821.44	821.56	821.46	702.60
112	5.550	928.49	864.09	821.22	821.30	821.19	702.90
113	5.600	926.36	863.25	820.96	820.98	820.87	703.20
114	5.650	924.27	862.38	820.65	820.62	820.49	703.50
115	5.700	922.20	861.50	820.30	820.21	820.07	703.80
116	5.750	920.16	860.61	819.89	819.73	819.58	704.10
117	5.800	918.15	859.69	819.41	819.18	819.01	704.40
118	5.850	916.17	858.77	818.85	818.55	818.36	704.70
119	5.900	914.21	857.83	818.20	817.83	817.63	705.00
120	5.950	912.28	856.87	817.47	817.06	816.84	705.30
121	6.000	910.37	855.90	817.16	816.56	816.35	705.60
122	6.050	908.50	854.93	816.92	816.15	815.94	705.90
123	6.100	906.64	853.94	816.70	815.81	815.61	706.20
124	6.150	904.81	852.94	816.60	815.87	815.74	706.50
125	6.200	903.01	851.94	816.61	815.94	815.78	706.80
126	6.250	901.23	850.93	816.56	815.94	815.82	707.10
127	6.300	899.48	849.91	816.50	815.94	815.82	707.40
128	6.350	897.75	848.88	816.44	815.90	815.79	707.70
129	6.400	896.04	847.85	816.35	815.84	815.73	708.00
130	6.450	894.36	846.82	816.26	815.74	815.64	708.30
131	6.500	892.71	845.77	816.15	815.64	815.54	708.60
132	6.550	891.07	844.72	816.03	815.52	815.43	708.90
133	6.600	889.47	843.66	815.91	815.39	815.30	709.20
134	6.650	887.88	842.59	815.78	815.26	815.18	709.50
135	6.700	886.32	841.52	815.66	815.13	815.05	709.80
136	6.750	884.78	840.43	815.54	815.01	814.93	710.10
137	6.800	883.26	839.33	815.41	814.88	814.80	710.40
138	6.850	881.77	838.23	815.29	814.76	814.68	710.70
139	6.900	880.30	837.11	815.17	814.63	814.56	711.00

140	6.930	878.85	835.98	815.04	814.50	814.43	802.63
141	7.000	877.42	834.83	814.91	814.37	814.30	802.71
142	7.050	876.01	833.68	814.78	814.23	814.16	802.77
143	7.100	874.62	832.51	814.65	814.10	814.03	802.81
144	7.150	873.25	831.35	814.51	813.95	813.88	802.82
145	7.200	871.91	830.20	814.37	813.80	813.74	802.82
146	7.250	870.58	829.06	814.22	813.65	813.58	802.79
147	7.300	869.27	827.95	814.06	813.49	813.42	802.75
148	7.350	867.98	826.87	813.90	813.32	813.25	802.69
149	7.400	866.72	825.82	813.73	813.14	813.07	802.62
150	7.450	865.47	824.80	813.55	812.95	812.88	802.53
151	7.500	864.24	823.82	813.36	812.75	812.68	802.42
152	7.550	863.02	822.86	813.16	812.54	812.47	802.30
153	7.600	861.83	821.94	812.96	812.32	812.26	802.17
154	7.650	860.66	821.06	812.75	812.10	812.04	802.03
155	7.700	859.50	820.21	812.53	811.87	811.81	801.88
156	7.750	858.36	819.39	812.31	811.64	811.57	801.72
157	7.800	857.24	818.61	812.08	811.39	811.33	801.55
158	7.850	856.13	817.86	811.85	811.15	811.08	801.37
159	7.900	855.04	817.15	811.61	810.90	810.83	801.18
160	7.950	853.97	816.47	811.36	810.64	810.58	800.98
161	8.000	852.92	815.82	811.11	810.38	810.31	800.78
162	8.050	851.88	815.20	810.86	810.11	810.05	800.57
163	8.100	850.86	814.61	810.60	809.84	809.78	800.36
164	8.150	849.86	814.05	810.34	809.57	809.51	800.14
165	8.200	848.87	813.52	810.07	809.29	809.23	799.91
166	8.250	847.90	813.01	809.80	809.02	808.96	799.69
167	8.300	846.95	812.52	809.54	808.74	808.68	799.45
168	8.350	846.02	812.06	809.26	808.46	808.40	799.22
169	8.400	845.10	811.62	808.99	808.17	808.11	798.98
170	8.450	844.19	811.19	808.71	807.89	807.83	798.74
171	8.500	843.30	810.78	808.44	807.61	807.55	798.49
172	8.550	842.43	810.39	808.16	807.32	807.26	798.24
173	8.600	841.57	810.02	807.88	807.04	806.98	797.99
174	8.650	840.73	809.65	807.60	806.75	806.69	797.74
175	8.700	839.91	809.30	807.31	806.45	806.39	797.49
176	8.750	839.10	808.96	807.02	806.16	806.10	797.23
177	8.800	838.30	808.62	806.73	805.86	805.81	796.97
178	8.850	837.52	808.29	806.44	805.57	805.51	796.71
179	8.900	836.75	807.97	806.15	805.28	805.22	796.45
180	8.950	836.00	807.65	805.86	804.99	804.93	796.19
181	9.000	835.26	807.34	805.58	804.70	804.64	795.93
182	9.050	834.54	807.03	805.29	804.41	804.35	795.67
183	9.100	833.83	806.72	805.00	804.12	804.07	795.40
184	9.150	833.14	806.42	804.72	803.84	803.78	795.14
185	9.200	832.46	806.11	804.43	803.55	803.49	794.88
186	9.250	831.79	805.81	804.15	803.26	803.20	794.62
187	9.300	831.14	805.50	803.86	802.97	802.91	794.35
188	9.350	830.50	805.20	803.57	802.68	802.62	794.09
189	9.400	829.87	804.89	803.29	802.39	802.33	793.82
190	9.450	829.26	804.58	803.00	802.10	802.04	793.56
191	9.500	828.66	804.26	802.72	801.81	801.76	793.29
192	9.550	828.07	803.95	802.43	801.53	801.47	793.03
193	9.600	827.50	803.63	802.15	801.24	801.18	792.76
194	9.650	826.94	803.31	801.86	800.95	800.90	792.50
195	9.700	826.39	802.99	801.58	800.67	800.61	792.24
196	9.750	825.86	802.68	801.29	800.38	800.32	791.97
197	9.800	825.34	802.36	801.01	800.09	800.04	791.71
198	9.850	824.83	802.04	800.73	799.81	799.75	791.44
199	9.900	824.33	801.72	800.44	799.52	799.46	791.18
200	9.950	823.84	801.40	800.16	799.24	799.18	790.91
201	10.000	823.37	801.09	799.87	798.95	798.89	790.65
202	10.050	822.91	800.77	799.59	798.66	798.60	790.39
203	10.100	822.46	800.46	799.30	798.37	798.32	790.12
204	10.150	822.02	800.14	799.02	798.09	798.03	789.85
205	10.200	821.59	799.83	798.73	797.80	797.74	789.59
206	10.250	821.17	799.52	798.45	797.51	797.45	789.33
207	10.300	820.77	799.21	798.16	797.22	797.16	789.06
208	10.350	820.38	798.90	797.88	796.93	796.88	788.80
209	10.400	819.99	798.60	797.59	796.65	796.59	788.54
210	10.450	819.62	798.30	797.34	796.43	796.38	788.20
211	10.500	819.27	798.00	797.10	796.24	796.20	787.79
212	10.550	818.92	797.70	796.88	796.07	796.04	787.32
213	10.600	818.59	797.41	796.64	795.82	795.76	786.93
214	10.650	818.27	797.12	796.34	795.51	795.47	786.58
215	10.700	817.96	796.83	796.05	795.23	795.17	786.23
216	10.750	817.66	796.54	795.77	794.93	794.88	785.88
217	10.800	817.37	796.25	795.48	794.65	794.59	785.54
218	10.850	817.10	795.97	795.20	794.36	794.31	785.20
219	10.900	816.83	795.69	794.92	794.08	794.03	784.85
220	10.950	816.58	795.41	794.65	793.80	793.75	784.51
221	11.000	816.33	795.13	794.38	793.53	793.48	784.18
222	11.050	816.09	794.86	794.11	793.27	793.22	783.86
223	11.100	815.86	794.60	793.85	793.00	792.95	783.54
224	11.150	815.64	794.35	793.58	792.74	792.68	783.22
225	11.200	815.43	794.12	793.31	792.46	792.41	782.91
226	11.250	815.23	793.89	793.04	792.18	792.13	782.60
227	11.300	815.04	793.65	792.76	791.90	791.85	782.30
228	11.350	814.85	793.41	792.48	791.62	791.57	782.00
229	11.400	814.67	793.15	792.18	791.32	791.26	781.70
230	11.450	814.50	792.89	791.88	791.02	790.97	781.40
231	11.500	814.34	792.62	791.59	790.73	790.68	781.11
232	11.550	814.18	792.35	791.30	790.44	790.39	780.82
233	11.600	814.03	792.08	791.02	790.15	790.10	780.53
234	11.650	813.88	791.81	790.73	789.87	789.82	780.25

235	11.700	813.75	791.55	790.45	789.59	789.53	779.97
236	11.750	813.62	791.28	790.17	789.31	789.25	779.69
237	11.800	813.49	791.02	789.89	789.03	788.97	779.42
238	11.850	813.37	790.74	789.62	788.75	788.69	779.15
239	11.900	813.26	790.47	789.34	788.47	788.41	778.88
240	11.950	813.15	790.19	789.05	788.18	788.13	778.61
241	12.000	813.05	789.90	788.77	787.90	787.84	778.34
242	12.050	812.95	789.61	788.49	787.61	787.56	778.08
243	12.100	812.86	789.32	788.20	787.33	787.27	777.81
244	12.150	812.77	789.02	787.92	787.04	786.98	777.55
245	12.200	812.68	788.72	787.64	786.75	786.70	777.29
246	12.250	812.61	788.42	787.36	786.47	786.42	777.04
247	12.300	812.53	788.12	787.08	786.19	786.13	776.78
248	12.350	812.46	787.83	786.80	785.90	785.85	776.52
249	12.400	812.40	787.54	786.52	785.62	785.57	776.27
250	12.450	812.34	787.24	786.24	785.34	785.28	776.02
251	12.500	812.28	786.95	785.96	785.06	785.00	775.77
252	12.550	812.23	786.66	785.68	784.78	784.72	775.52
253	12.600	812.18	786.37	785.40	784.49	784.44	775.27
254	12.650	812.13	786.08	785.12	784.21	784.15	775.03
255	12.700	812.09	785.79	784.84	783.93	783.87	774.78
256	12.750	812.05	785.50	784.56	783.64	783.59	774.54
257	12.800	812.01	785.22	784.28	783.36	783.30	774.29
258	12.850	811.98	784.94	784.00	783.07	783.02	774.05
259	12.900	811.95	784.66	783.72	782.79	782.74	773.81
260	12.950	811.92	784.39	783.45	782.51	782.45	773.57
261	13.000	811.90	784.11	783.17	782.23	782.17	773.33
262	13.050	811.88	783.84	782.89	781.95	781.89	773.09
263	13.100	811.86	783.57	782.61	781.67	781.61	772.85
264	13.150	811.85	783.29	782.34	781.39	781.33	772.62
265	13.200	811.83	783.02	782.06	781.11	781.05	772.38
266	13.250	811.82	782.75	781.79	780.83	780.77	772.14
267	13.300	811.82	782.49	781.51	780.55	780.49	771.91
268	13.350	811.81	782.22	781.24	780.27	780.22	771.68
269	13.400	811.81	781.95	780.97	780.00	779.94	771.45
270	13.450	811.81	781.69	780.70	779.72	779.66	771.21
271	13.500	811.81	781.42	780.43	779.45	779.39	770.98
272	13.550	811.81	781.16	780.15	779.17	779.11	770.75
273	13.600	811.82	780.89	779.89	778.90	778.84	770.53
274	13.650	811.83	780.63	779.62	778.63	778.57	770.30
275	13.700	811.84	780.36	779.35	778.36	778.30	770.07
276	13.750	811.85	780.10	779.08	778.08	778.03	769.84
277	13.800	811.86	779.84	778.81	777.81	777.75	769.62
278	13.850	811.87	779.57	778.55	777.54	777.48	769.39
279	13.900	811.89	779.31	778.28	777.27	777.21	769.17
280	13.950	811.91	779.05	778.02	777.01	776.95	768.95
281	14.000	811.93	778.79	777.75	776.74	776.68	768.73
282	14.050	811.95	778.53	777.45	776.44	776.38	768.50
283	14.100	811.97	778.27	777.19	776.16	776.10	768.27
284	14.125	811.98	778.14	777.21	776.18	776.12	768.04
285	14.150	811.99	778.01	777.12	776.09	776.03	767.81
286	14.200	812.01	777.75	776.81	775.78	775.72	767.58
287	14.250	812.02	777.49	776.55	775.52	775.46	767.35
288	14.300	812.04	777.23	776.29	775.26	775.20	767.12
289	14.350	812.06	776.97	776.03	775.00	774.94	766.89
290	14.400	812.07	776.71	775.77	774.74	774.68	766.66
291	14.450	812.09	776.45	775.51	774.48	774.42	766.43
292	14.500	812.11	776.18	775.24	774.21	774.15	766.20
293	14.550	812.12	775.92	774.98	773.95	773.89	765.97
294	14.600	812.13	775.66	774.72	773.69	773.63	765.74
295	14.650	812.15	775.40	774.46	773.43	773.37	765.51
296	14.700	812.16	775.14	774.20	773.17	773.11	765.28
297	14.750	812.17	774.88	773.94	772.91	772.85	765.05
298	14.800	812.19	774.62	773.68	772.65	772.59	764.82
299	14.850	812.20	774.36	773.42	772.39	772.33	764.59
300	14.900	812.21	774.10	773.16	772.13	772.07	764.36
301	14.950	812.22	773.84	772.90	771.87	771.81	764.13
302	15.000	812.23	773.58	772.64	771.61	771.55	763.90
303	15.050	812.24	773.32	772.38	771.35	771.29	763.67
304	15.100	812.25	773.06	772.12	771.09	771.03	763.44
305	15.150	812.26	772.80	771.86	770.83	770.77	763.21
306	15.200	812.27	772.54	771.60	770.57	770.51	762.98
307	15.250	812.28	772.28	771.34	770.31	770.25	762.75
308	15.300	812.29	772.02	771.08	770.05	770.00	762.52
309	15.350	812.30	771.76	770.82	769.79	769.73	762.29
310	15.400	812.31	771.50	770.56	769.53	769.47	762.06
311	15.450	812.32	771.24	770.30	769.27	769.21	761.83
312	15.500	812.33	770.98	770.04	769.01	768.95	761.60
313	15.550	812.33	770.72	769.78	768.75	768.69	761.37
314	15.600	812.34	770.46	769.52	768.49	768.43	761.14
315	15.650	812.35	770.20	769.26	768.23	768.17	760.91
316	15.700	812.36	769.94	769.00	767.97	767.91	760.68
317	15.750	812.36	769.68	768.74	767.71	767.65	760.45
318	15.800	812.37	769.42	768.48	767.45	767.39	760.22
319	15.850	812.38	769.16	768.22	767.19	767.13	760.00
320	15.900	812.38	768.90	767.96	766.93	766.87	759.77
321	15.950	812.39	768.64	767.70	766.67	766.61	759.54
322	16.000	812.39	768.38	767.44	766.41	766.35	759.31
323	16.050	812.40	768.12	767.18	766.15	766.09	759.08
324	16.100	812.40	767.86	766.92	765.89	765.83	758.85
325	16.150	812.41	767.60	766.66	765.63	765.57	758.62
326	16.200	812.41	767.34	766.40	765.37	765.31	758.39
327	16.250	812.42	767.08	766.14	765.11	765.05	758.16
328	16.300	812.42	766.82	765.88	764.85	764.79	757.93
329	16.350	812.43	766.56	765.62	764.59	764.53	757.70

330	16.400	812.43	762.94	761.17	760.47	760.42	749.40
331	16.450	812.44	762.10	760.92	760.22	760.17	749.13
332	16.500	812.44	762.45	760.67	759.97	759.92	748.85
333	16.550	812.45	762.20	760.42	759.72	759.67	748.58
334	16.600	812.45	761.95	760.17	759.47	759.43	748.32
335	16.650	812.45	761.70	759.92	759.22	759.17	748.05
336	16.700	812.46	761.44	759.68	758.97	758.92	747.79
337	16.750	812.46	761.19	759.43	758.72	758.67	747.54
338	16.800	812.46	760.93	759.18	758.47	758.42	747.28
339	16.850	812.47	760.68	758.93	758.22	758.17	747.03
340	16.900	812.47	760.43	758.68	757.97	757.92	746.78
341	16.950	812.47	760.18	758.44	757.72	757.67	746.53
342	17.000	812.48	759.93	758.19	757.47	757.43	746.28
343	17.050	812.48	759.68	757.95	757.22	757.18	746.04
344	17.100	812.48	759.44	757.70	756.98	756.93	745.80
345	17.150	812.49	759.20	757.46	756.73	756.69	745.56
346	17.200	812.49	758.96	757.21	756.48	756.44	745.32
347	17.250	812.49	758.73	756.97	756.24	756.19	745.09
348	17.300	812.49	758.49	756.73	755.99	755.95	744.86
349	17.350	812.50	758.26	756.48	755.75	755.70	744.63
350	17.400	812.50	758.04	756.24	755.51	755.46	744.40
351	17.450	812.50	757.81	756.00	755.26	755.22	744.17
352	17.500	812.50	757.59	755.76	755.02	754.97	743.95
353	17.550	812.51	757.37	755.52	754.78	754.73	743.72
354	17.600	812.51	757.16	755.28	754.54	754.49	743.50
355	17.650	812.51	756.94	755.04	754.30	754.25	743.28
356	17.700	812.51	756.73	754.81	754.06	754.01	743.06
357	17.750	812.51	756.51	754.57	753.82	753.77	742.85
358	17.800	812.52	756.30	754.33	753.58	753.54	742.63
359	17.850	812.52	756.09	754.10	753.34	753.30	742.42
360	17.900	812.52	755.89	753.87	753.11	753.06	742.21
361	17.950	812.52	755.68	753.63	752.87	752.83	742.00
362	18.000	812.52	755.47	753.40	752.64	752.59	741.79
363	18.050	812.52	755.27	753.17	752.41	752.36	741.58
364	18.100	812.53	755.07	752.94	752.17	752.13	741.38
365	18.150	812.53	754.87	752.71	751.94	751.90	741.17
366	18.200	812.53	754.67	752.48	751.71	751.67	740.97
367	18.250	812.53	754.47	752.25	751.48	751.44	740.76
368	18.300	812.53	754.27	752.02	751.25	751.21	740.56
369	18.350	812.53	754.08	751.79	751.02	750.98	740.36
370	18.400	812.53	753.88	751.57	750.79	750.75	740.16
371	18.450	812.53	753.69	751.34	750.57	750.52	739.96
372	18.500	812.54	753.50	751.12	750.34	750.30	739.76
373	18.550	812.54	753.31	750.89	750.11	750.07	739.57
374	18.600	812.54	753.13	750.67	749.89	749.84	739.37
375	18.650	812.54	752.94	750.44	749.66	749.62	739.18
376	18.700	812.54	752.76	750.22	749.44	749.39	738.98
377	18.750	812.54	752.58	750.00	749.22	749.17	738.79
378	18.800	812.54	752.40	749.78	748.99	748.95	738.60
379	18.850	812.54	752.23	749.56	748.77	748.73	738.41
380	18.900	812.54	752.05	749.34	748.55	748.50	738.22
381	18.950	812.54	751.88	749.12	748.33	748.28	738.03
382	19.000	812.55	751.72	748.90	748.11	748.06	737.84
383	19.050	812.55	751.55	748.68	747.89	747.84	737.65
384	19.100	812.55	751.39	748.46	747.67	747.62	737.47
385	19.150	812.55	751.23	748.24	747.45	747.41	737.28
386	19.200	812.55	751.07	748.03	747.23	747.19	737.09
387	19.250	812.55	750.92	747.81	747.02	746.97	736.91
388	19.300	812.55	750.77	747.59	746.80	746.75	736.73
389	19.350	812.55	750.62	747.38	746.58	746.54	736.54
390	19.400	812.55	750.48	747.17	746.37	746.32	736.36
391	19.450	812.55	750.34	746.95	746.15	746.11	736.18
392	19.500	812.55	750.20	746.74	745.94	745.89	736.00
393	19.550	812.55	750.07	746.53	745.73	745.68	735.82
394	19.600	812.55	749.94	746.32	745.51	745.47	735.64
395	19.650	812.55	749.82	746.10	745.30	745.26	735.46
396	19.700	812.56	749.69	745.89	745.09	745.05	735.28
397	19.750	812.56	749.58	745.68	744.88	744.83	735.10
398	19.800	812.56	749.46	745.47	744.67	744.62	734.92
399	19.850	812.56	749.35	745.27	744.46	744.42	734.75
400	19.900	812.56	749.25	745.06	744.25	744.21	734.57
401	19.950	812.56	749.14	744.85	744.04	744.00	734.39
402	20.000	812.56	749.04	744.64	743.83	743.79	734.22
403	20.050	812.56	748.93	744.44	743.63	743.58	734.04
404	20.100	812.56	748.86	744.23	743.42	743.38	733.87
405	20.150	812.56	748.77	744.03	743.21	743.17	733.70
406	20.200	812.56	748.69	743.82	743.01	742.97	733.52
407	20.250	812.56	748.61	743.62	742.80	742.76	733.35
408	20.300	812.56	748.53	743.41	742.60	742.56	733.18
409	20.350	812.56	748.46	743.21	742.40	742.35	733.01
410	20.400	812.56	748.39	743.01	742.19	742.15	732.83
411	20.450	812.56	748.33	742.81	741.99	741.95	732.66
412	20.500	812.56	748.27	742.60	741.79	741.75	732.49
413	20.550	812.56	748.21	742.40	741.59	741.55	732.32
414	20.600	812.56	748.15	742.20	741.39	741.35	732.15
415	20.650	812.56	748.10	742.00	741.19	741.15	731.99
416	20.700	812.56	748.05	741.81	740.99	740.95	731.82
417	20.750	812.56	748.01	741.61	740.79	740.75	731.65
418	20.800	812.56	747.97	741.41	740.59	740.55	731.48
419	20.850	812.56	747.93	741.21	740.40	740.35	731.31
420	20.900	812.56	747.89	741.01	740.20	740.16	731.15
421	20.950	812.56	747.85	740.82	740.00	739.96	730.98
422	21.000	812.56	747.82	740.62	739.81	739.76	730.81
423	21.050	812.56	747.79	740.43	739.61	739.57	730.65
424	21.100	812.57	747.76	740.23	739.41	739.37	730.48

425	21.150	812.57	747.74	749.04	739.22	739.18	730.32
426	21.200	812.57	747.71	739.84	739.03	738.98	730.15
427	21.250	812.57	747.69	739.65	738.83	738.79	729.99
428	21.300	812.57	747.67	739.46	738.64	738.60	729.82
429	21.350	812.57	747.65	739.26	738.45	738.41	729.66
430	21.400	812.57	747.63	739.07	738.25	738.21	729.49
431	21.450	812.57	747.61	738.88	738.06	738.02	729.33
432	21.500	812.57	747.60	738.69	737.87	737.83	729.17
433	21.550	812.57	747.58	738.50	737.68	737.64	729.00
434	21.600	812.57	747.57	738.31	737.49	737.45	728.84
435	21.650	812.57	747.56	738.12	737.30	737.26	728.68
436	21.700	812.57	747.54	737.93	737.11	737.07	728.51
437	21.750	812.57	747.53	737.74	736.92	736.88	728.35
438	21.800	812.57	747.52	737.55	736.73	736.69	728.19
439	21.850	812.57	747.51	737.36	736.54	736.50	728.02
440	21.900	812.57	747.51	737.17	736.35	736.31	727.86
441	21.950	812.57	747.50	736.99	736.17	736.12	727.70
442	22.000	812.57	747.49	736.80	735.98	735.94	727.54
443	22.050	812.57	747.48	736.61	735.79	735.75	727.37
444	22.100	812.57	747.48	736.43	735.61	735.56	727.21
445	22.150	812.57	747.47	736.24	735.42	735.38	727.05
446	22.200	812.57	747.47	736.05	735.24	735.19	726.89
447	22.250	812.57	747.46	735.87	735.05	735.01	726.72
448	22.300	812.57	747.46	735.68	734.87	734.82	726.56
449	22.350	812.57	747.45	735.50	734.68	734.64	726.40
450	22.400	812.57	747.45	735.31	734.50	734.45	726.24
451	22.450	812.57	747.45	735.13	734.31	734.27	726.07
452	22.500	812.57	747.44	734.94	734.13	734.08	725.91
453	22.550	812.57	747.44	734.76	733.94	733.90	725.75
454	22.600	812.57	747.44	734.57	733.76	733.72	725.58
455	22.650	812.57	747.43	734.39	733.58	733.53	725.42
456	22.700	812.57	747.43	734.21	733.39	733.35	725.26
457	22.750	812.57	747.43	734.02	733.21	733.16	725.09
458	22.800	812.57	747.43	733.84	733.03	732.98	724.93
459	22.850	812.57	747.42	733.65	732.84	732.80	724.76
460	22.900	812.57	747.42	733.47	732.66	732.61	724.59
461	22.950	812.57	747.42	733.28	732.47	732.43	724.43
462	23.000	812.57	747.42	733.10	732.29	732.24	724.26
463	23.050	812.57	747.42	732.91	732.10	732.06	724.09
464	23.100	812.57	747.41	732.73	731.92	731.87	723.92
465	23.150	812.57	747.41	732.54	731.73	731.69	723.76
466	23.200	812.57	747.41	732.35	731.55	731.50	723.59
467	23.250	812.57	747.41	732.16	731.36	731.32	723.42
468	23.300	812.57	747.41	731.98	731.17	731.13	723.24
469	23.350	812.57	747.41	731.79	730.99	730.94	723.07
470	23.400	812.57	747.41	731.60	730.80	730.75	722.90
471	23.450	812.57	747.41	731.40	730.61	730.56	722.72
472	23.500	812.57	747.41	731.21	730.42	730.37	722.55
473	23.550	812.57	747.40	731.02	730.23	730.18	722.37
474	23.600	812.57	747.40	730.82	730.03	729.99	722.19
475	23.650	812.57	747.40	730.63	729.84	729.79	722.01
476	23.700	812.57	747.40	730.43	729.64	729.60	721.83
477	23.750	812.57	747.40	730.23	729.45	729.40	721.64
478	23.800	812.57	747.40	730.03	729.25	729.20	721.46
479	23.850	812.57	747.40	729.82	729.05	729.00	721.27
480	23.900	812.57	747.40	729.62	728.85	728.80	721.08
481	23.950	812.57	747.40	729.41	728.64	728.59	720.89
482	24.000	812.57	747.40	729.20	728.44	728.39	720.70
483	24.050	812.57	747.40	728.99	728.23	728.18	720.51
484	24.100	812.57	747.40	728.78	728.02	727.97	720.31
485	24.150	812.57	747.40	728.56	727.81	727.76	720.12
486	24.200	812.57	747.40	728.35	727.60	727.55	719.93
487	24.250	812.57	747.40	728.13	727.39	727.34	719.74
488	24.300	812.57	747.40	727.92	727.18	727.13	719.54
489	24.350	812.57	747.40	727.70	726.96	726.91	719.35
490	24.400	812.57	747.40	727.48	726.74	726.69	719.16
491	24.450	812.57	747.40	727.25	726.52	726.47	718.96
492	24.500	812.57	747.40	727.03	726.30	726.25	718.76
493	24.550	812.57	747.40	726.81	726.08	726.03	718.57
494	24.600	812.57	747.40	726.58	725.86	725.81	718.37
495	24.650	812.57	747.39	726.35	725.64	725.59	718.16
496	24.700	812.57	747.39	726.12	725.41	725.36	717.96
497	24.750	812.57	747.39	725.89	725.18	725.13	717.76
498	24.800	812.57	747.39	725.66	724.96	724.91	717.55
499	24.850	812.57	747.39	725.43	724.73	724.68	717.35
500	24.900	812.57	747.39	725.20	724.50	724.45	717.14
501	24.950	812.57	747.39	724.97	724.27	724.22	716.93
502	25.000	812.57	747.39	724.73	724.04	723.99	716.72
503	25.050	812.57	747.39	724.50	723.81	723.76	716.50
504	25.100	812.57	747.39	724.26	723.58	723.52	716.29
505	25.150	812.57	747.39	724.03	723.34	723.29	716.08
506	25.200	812.57	747.39	723.79	723.11	723.06	715.86
507	25.250	812.57	747.39	723.55	722.88	722.83	715.64
508	25.300	812.57	747.39	723.32	722.64	722.59	715.42
509	25.350	812.57	747.39	723.08	722.41	722.36	715.20
510	25.400	812.57	747.39	722.84	722.17	722.12	714.98
511	25.450	812.57	747.39	722.60	721.94	721.89	714.75
512	25.500	812.57	747.39	722.37	721.70	721.65	714.53
513	25.550	812.57	747.39	722.13	721.47	721.41	714.30
514	25.600	812.57	747.39	721.89	721.23	721.18	714.07
515	25.650	812.57	747.39	721.65	721.00	720.94	713.84
516	25.700	812.57	747.39	721.41	720.76	720.71	713.61
517	25.750	812.57	747.39	721.17	720.53	720.47	713.37
518	25.800	812.57	747.39	720.94	720.29	720.23	713.14
519	25.850	812.57	747.39	720.70	720.05	720.00	712.90

520	25.900	812.57	747.39	720.44	719.82	719.76	712.66
521	25.950	812.57	747.39	720.22	719.58	719.53	712.42
522	26.000	812.57	747.39	719.98	719.34	719.29	712.18
523	26.050	812.57	747.39	719.74	719.11	719.05	711.94
524	26.100	812.57	747.39	719.51	718.87	718.82	711.69
525	26.150	812.57	747.39	719.27	718.64	718.58	711.45
526	26.200	812.57	747.39	719.03	718.40	718.35	711.20
527	26.250	812.57	747.39	718.79	718.17	718.11	710.95
528	26.300	812.57	747.39	718.56	717.93	717.88	710.70
529	26.350	812.57	747.39	718.32	717.70	717.64	710.45
530	26.400	812.57	747.39	718.08	717.47	717.41	710.20
531	26.450	812.57	747.39	717.85	717.23	717.18	709.94
532	26.500	812.57	747.39	717.61	717.00	716.94	709.68
533	26.550	812.57	747.39	717.38	716.77	716.71	709.43
534	26.600	812.57	747.39	717.14	716.53	716.48	709.17
535	26.650	812.57	747.39	716.91	716.30	716.25	708.91
536	26.700	812.57	747.39	716.68	716.07	716.01	708.64
537	26.750	812.57	747.39	716.44	715.84	715.78	708.38
538	26.800	812.57	747.39	716.21	715.61	715.55	708.12
539	26.850	812.57	747.39	715.98	715.38	715.32	707.85
540	26.900	812.57	747.39	715.74	715.15	715.09	707.59
541	26.950	812.57	747.39	715.51	714.92	714.86	707.32
542	27.000	812.57	747.39	715.28	714.69	714.63	707.05
543	27.050	812.57	747.39	715.05	714.46	714.40	706.78
544	27.100	812.57	747.39	714.82	714.23	714.18	706.51
545	27.150	812.57	747.39	714.59	714.01	713.95	706.24
546	27.200	812.57	747.39	714.36	713.78	713.72	705.97
547	27.250	812.57	747.39	714.14	713.55	713.50	705.70
548	27.300	812.57	747.39	713.91	713.33	713.27	705.43
549	27.350	812.57	747.39	713.68	713.10	713.04	705.16
550	27.400	812.57	747.39	713.46	712.88	712.82	704.89
551	27.450	812.57	747.39	713.23	712.66	712.60	704.62
552	27.500	812.57	747.39	713.01	712.44	712.38	704.35
553	27.550	812.57	747.39	712.79	712.21	712.15	704.08
554	27.600	812.57	747.39	712.56	711.99	711.93	703.82
555	27.650	812.57	747.39	712.34	711.77	711.71	703.55
556	27.700	812.57	747.39	712.12	711.55	711.49	703.29
557	27.750	812.57	747.39	711.90	711.34	711.28	703.02
558	27.800	812.57	747.39	711.68	711.12	711.06	702.76
559	27.850	812.57	747.39	711.46	710.90	710.84	702.50
560	27.900	812.57	747.39	711.25	710.69	710.63	702.25
561	27.950	812.57	747.39	711.03	710.47	710.41	701.99
562	28.000	812.57	747.39	710.82	710.26	710.20	701.74
563	28.050	812.57	747.39	710.60	710.05	709.99	701.50
564	28.100	812.57	747.39	710.39	709.84	709.77	701.25
565	28.150	812.57	747.39	710.17	709.62	709.56	701.01
566	28.200	812.57	747.39	709.96	709.42	709.35	700.77
567	28.250	812.57	747.39	709.75	709.21	709.15	700.53
568	28.300	812.57	747.39	709.54	709.00	708.94	700.30
569	28.350	812.57	747.39	709.34	708.79	708.73	700.06
570	28.400	812.57	747.39	709.13	708.59	708.52	699.83
571	28.450	812.57	747.39	708.92	708.38	708.32	699.60
572	28.500	812.57	747.39	708.72	708.18	708.12	699.37
573	28.550	812.57	747.39	708.51	707.98	707.91	699.15
574	28.600	812.57	747.39	708.31	707.77	707.71	698.92
575	28.650	812.57	747.39	708.11	707.57	707.51	698.70
576	28.700	812.57	747.39	707.91	707.37	707.31	698.48
577	28.750	812.57	747.39	707.71	707.18	707.11	698.26
578	28.800	812.57	747.39	707.51	706.98	706.92	698.04
579	28.850	812.57	747.39	707.31	706.78	706.72	697.82
580	28.900	812.57	747.39	707.11	706.59	706.53	697.60
581	28.950	812.57	747.39	706.92	706.40	706.33	697.39
582	29.000	812.57	747.39	706.72	706.20	706.14	697.17
583	29.050	812.57	747.39	706.53	706.01	705.95	696.96
584	29.100	812.57	747.39	706.34	705.82	705.76	696.75
585	29.150	812.57	747.39	706.15	705.63	705.57	696.54
586	29.200	812.57	747.39	705.96	705.44	705.38	696.33
587	29.250	812.57	747.39	705.77	705.26	705.20	696.12
588	29.300	812.57	747.39	705.58	705.07	705.01	695.91
589	29.350	812.57	747.39	705.40	704.89	704.83	695.71
590	29.400	812.57	747.39	705.21	704.71	704.64	695.50
591	29.450	812.57	747.39	705.03	704.52	704.46	695.30
592	29.500	812.57	747.39	704.85	704.34	704.28	695.10
593	29.550	812.57	747.39	704.67	704.16	704.10	694.89
594	29.600	812.57	747.39	704.49	703.99	703.92	694.69
595	29.650	812.57	747.39	704.31	703.81	703.75	694.49
596	29.700	812.57	747.39	704.13	703.63	703.57	694.29
597	29.750	812.57	747.39	703.96	703.46	703.40	694.10
598	29.800	812.57	747.39	703.78	703.29	703.22	693.90
599	29.850	812.57	747.39	703.61	703.11	703.05	693.70
600	29.900	812.57	747.39	703.43	702.94	702.88	693.51
601	29.950	812.57	747.39	703.26	702.77	702.71	693.32
602	30.000	812.57	747.39	703.09	702.60	702.54	693.12
603	30.050	812.57	747.39	702.92	702.44	702.37	692.93
604	30.100	812.57	747.39	702.76	702.27	702.21	692.74
605	30.150	812.57	747.39	702.59	702.11	702.04	692.55
606	30.200	812.57	747.39	702.43	701.94	701.88	692.36
607	30.250	812.57	747.39	702.26	701.78	701.72	692.17
608	30.300	812.57	747.39	702.10	701.62	701.56	691.99
609	30.350	812.57	747.39	701.94	701.46	701.40	691.80
610	30.400	812.57	747.39	701.78	701.30	701.24	691.62
611	30.450	812.57	747.39	701.62	701.15	701.08	691.43
612	30.500	812.57	747.39	701.46	700.99	700.93	691.25
613	30.550	812.57	747.39	701.31	700.84	700.77	691.07
614	30.600	812.57	747.39	701.15	700.68	700.62	690.90

995	49.650	812.57	747.39	686.46	686.31	686.26	673.88
996	49.700	812.57	747.39	686.45	686.30	686.25	673.87
997	49.750	812.57	747.39	686.45	686.30	686.25	673.86
998	49.800	812.57	747.39	686.44	686.29	686.25	673.86
999	49.850	812.57	747.39	686.44	686.29	686.24	673.85
1000	49.900	812.57	747.39	686.43	686.28	686.24	673.84
1001	49.950	812.57	747.39	686.43	686.28	686.23	673.83

K	TTP(K)	QC(K,1),I=1,NET					
1	.000	26.60	26.62	57.09	28.18	19.50	19.50
2	.050	26.60	26.60	60.65	13.61	19.50	19.50
3	.100	26.60	26.59	58.33	23.50	19.50	19.50
4	.150	26.60	26.60	59.06	17.28	19.50	19.50
5	.200	26.60	26.61	56.71	20.81	19.50	19.50
6	.250	26.60	26.63	56.70	18.83	19.50	19.50
7	.300	26.60	26.72	54.11	19.71	19.50	19.50
8	.350	26.60	26.95	52.69	19.18	19.50	19.50
9	.400	26.60	27.51	49.64	19.23	19.50	19.50
10	.450	26.60	28.55	47.30	19.14	19.50	19.50
11	.500	26.63	30.10	45.06	19.18	19.50	19.50
12	.550	27.71	31.91	44.15	19.39	19.50	19.50
13	.600	30.01	33.77	44.11	19.56	19.50	19.50
14	.650	33.58	35.47	44.53	19.70	19.50	19.50
15	.700	38.53	37.08	44.63	19.66	19.50	19.50
16	.750	44.98	39.63	44.26	19.58	19.50	19.50
17	.800	53.02	44.75	43.58	19.50	19.50	19.50
18	.850	62.75	53.30	42.87	19.48	19.50	19.50
19	.900	74.26	64.64	42.19	19.47	19.50	19.50
20	.950	87.64	77.53	41.42	19.45	19.50	19.50
21	1.000	102.95	91.30	40.53	19.42	19.50	19.50
22	1.050	118.95	106.03	39.60	19.40	19.50	19.50
23	1.100	137.03	121.75	38.77	19.40	19.50	19.50
24	1.150	157.24	138.82	38.16	19.44	19.50	19.50
25	1.200	179.63	157.95	37.91	19.51	19.50	19.50
26	1.250	204.26	179.39	38.17	19.62	19.50	19.50
27	1.300	231.16	203.20	39.12	19.78	19.50	19.50
28	1.350	260.36	229.64	40.89	19.97	19.50	19.50
29	1.400	291.90	258.77	43.66	20.17	19.50	19.50
30	1.450	325.79	290.46	47.35	20.39	19.50	19.50
31	1.500	362.05	324.56	54.15	24.00	23.26	23.26
32	1.550	400.70	360.87	67.42	35.41	34.93	34.93
33	1.600	441.73	399.25	84.70	49.63	48.84	48.84
34	1.650	485.14	439.62	103.81	65.33	64.58	64.58
35	1.700	530.93	481.95	124.69	81.25	80.11	80.11
36	1.750	579.08	526.33	147.69	98.36	97.21	97.21
37	1.800	629.57	572.82	174.24	118.00	116.61	116.61
38	1.850	682.19	621.43	194.00	121.82	118.76	118.76
39	1.900	737.49	672.19	209.53	121.59	119.37	119.37
40	1.950	794.84	725.07	228.14	122.88	120.00	120.00
41	2.000	854.40	779.99	246.60	123.15	120.63	120.63
42	2.050	917.45	837.27	265.49	124.00	121.26	121.26
43	2.100	982.59	897.24	284.45	124.50	121.89	121.89
44	2.150	1049.77	959.40	303.72	125.35	122.64	122.64
45	2.200	1118.93	1023.23	323.98	126.40	123.62	123.62
46	2.250	1189.98	1088.84	345.60	127.62	124.66	124.66
47	2.300	1262.87	1156.15	369.09	128.92	125.76	125.76
48	2.350	1337.50	1225.07	394.62	130.35	126.94	126.94
49	2.400	1413.81	1295.62	422.20	131.84	128.20	128.20
50	2.450	1491.69	1367.67	451.48	133.39	129.53	129.53
51	2.500	1571.06	1441.15	481.97	134.96	130.93	130.93
52	2.550	1651.81	1516.14	513.07	136.56	132.40	132.40
53	2.600	1733.87	1592.42	544.39	138.17	133.90	133.90
54	2.650	1817.11	1669.87	575.80	139.81	135.44	135.44
55	2.700	1901.43	1747.77	607.36	141.51	137.02	137.02
56	2.750	1986.73	1825.62	639.17	143.26	138.64	138.64
57	2.800	2072.89	1903.68	671.21	145.07	140.32	140.32
58	2.850	2159.80	1982.42	703.44	146.92	142.05	142.05
59	2.900	2247.34	2062.16	735.88	148.82	143.82	143.82
60	2.950	2335.38	2143.03	768.44	150.78	145.63	145.63
61	3.000	2423.81	2225.06	801.10	152.76	147.50	147.50
62	3.050	2512.47	2307.95	833.67	154.80	149.41	149.41
63	3.100	2601.22	2391.17	865.93	156.84	151.35	151.35
64	3.150	2689.93	2474.17	897.67	158.91	153.33	153.33
65	3.200	2778.45	2556.96	928.80	161.00	155.34	155.34
66	3.250	2866.66	2639.63	959.46	163.14	157.38	157.38
67	3.300	2954.41	2722.37	989.94	165.32	159.45	159.45
68	3.350	3041.56	2806.21	1023.36	167.19	161.51	161.51
69	3.400	3127.97	2890.81	1057.67	169.58	163.59	163.59
70	3.450	3213.49	2974.24	1090.32	171.91	165.76	165.76
71	3.500	3297.98	3057.43	1123.22	174.06	167.94	167.94
72	3.550	3381.29	3139.20	1155.51	176.51	170.17	170.17
73	3.600	3463.28	3219.30	1187.48	178.76	172.42	172.42
74	3.650	3543.80	3298.68	1219.12	181.22	174.72	174.72
75	3.700	3622.70	3376.25	1250.41	183.59	177.04	177.04
76	3.750	3699.83	3452.22	1280.99	186.04	179.39	179.39
77	3.800	3775.05	3526.61	1310.59	188.43	181.76	181.76
78	3.850	3848.21	3598.70	1339.05	190.86	184.14	184.14
79	3.900	3919.15	3669.20	1366.41	193.28	186.53	186.53

80	3.950	3987.72	3737.65	1392.71	195.72	188.94	188.94
81	4.000	4053.79	3803.28	1417.99	199.16	191.35	191.35
82	4.050	3935.56	3808.00	1442.40	200.87	194.05	194.05
83	4.100	3820.63	3716.27	1469.07	211.11	204.69	204.69
84	4.150	3709.48	3607.94	1499.09	227.58	221.08	221.08
85	4.200	3601.41	3517.06	1531.26	248.63	242.34	242.34
86	4.250	3496.53	3422.04	1565.87	274.59	268.32	268.32
87	4.300	3394.72	3333.42	1602.06	304.88	298.81	298.81
88	4.350	3295.91	3251.29	1638.59	339.38	333.51	333.51
89	4.400	3199.99	3171.65	1673.78	377.46	371.94	371.94
90	4.450	3106.87	3095.12	1706.31	418.69	413.58	413.58
91	4.500	3016.46	3018.10	1736.12	462.67	458.17	458.17
92	4.550	2928.69	2940.82	1772.33	506.88	503.28	503.28
93	4.600	2843.47	2863.96	1801.82	550.30	553.79	553.79
94	4.650	2760.72	2788.46	1833.28	608.42	605.21	605.21
95	4.700	2680.36	2715.02	1863.64	663.95	660.25	660.25
96	4.750	2602.32	2643.61	1894.76	721.57	718.72	718.72
97	4.800	2526.54	2574.31	1925.61	783.27	780.38	780.38
98	4.850	2452.94	2506.99	1957.01	847.81	845.48	845.48
99	4.900	2381.46	2441.57	1988.65	915.91	913.76	913.76
100	4.950	2312.03	2378.01	2020.94	987.12	985.40	985.40
101	5.000	2244.59	2316.39	2053.90	1061.70	1060.27	1060.27
102	5.050	2179.08	2256.71	2087.67	1139.49	1138.44	1138.44
103	5.100	2115.44	2198.86	2122.24	1220.48	1219.79	1219.79
104	5.150	2053.62	2142.70	2158.21	1306.06	1305.85	1305.85
105	5.200	1993.57	2088.13	2199.06	1393.16	1393.61	1393.61
106	5.250	1935.22	2035.06	2237.45	1485.47	1485.82	1485.82
107	5.300	1878.54	1983.34	2278.25	1579.30	1580.55	1580.55
108	5.350	1823.47	1932.71	2319.49	1677.23	1678.53	1678.53
109	5.400	1769.97	1883.08	2362.21	1777.45	1779.48	1779.48
110	5.450	1717.99	1834.43	2405.95	1881.01	1883.32	1883.32
111	5.500	1667.48	1786.75	2451.12	1987.12	1990.07	1990.07
112	5.550	1618.41	1740.06	2497.85	2096.17	2099.56	2099.56
113	5.600	1570.73	1694.45	2546.58	2207.86	2211.86	2211.86
114	5.650	1524.40	1649.90	2597.68	2322.22	2326.81	2326.81
115	5.700	1479.37	1606.33	2651.72	2439.07	2444.33	2444.33
116	5.750	1435.63	1563.77	2709.36	2558.05	2564.08	2564.08
117	5.800	1393.11	1522.27	2771.58	2678.73	2685.67	2685.67
118	5.850	1351.80	1481.83	2840.61	2800.67	2808.69	2808.69
119	5.900	1311.65	1442.52	2917.85	2918.55	2927.54	2927.54
120	5.950	1272.64	1404.26	3000.87	3039.20	3028.61	3028.61
121	6.000	1234.72	1366.85	3086.54	3119.68	3123.15	3123.15
122	6.050	1197.87	1330.27	2993.37	3181.27	3187.01	3187.01
123	6.100	1162.06	1294.51	2969.09	3214.09	3216.90	3216.90
124	6.150	1127.26	1259.65	2917.33	3132.25	3128.52	3128.52
125	6.200	1093.44	1225.77	2839.58	3033.13	3034.58	3034.58
126	6.250	1060.56	1192.74	2763.40	2945.89	2944.47	2944.47
127	6.300	1028.62	1160.43	2679.13	2853.11	2854.11	2854.11
128	6.350	997.59	1128.85	2590.70	2766.31	2766.37	2766.37
129	6.400	967.47	1098.11	2499.78	2679.75	2680.90	2680.90
130	6.450	938.21	1068.40	2407.31	2598.07	2599.02	2599.02
131	6.500	909.80	1039.67	2316.89	2520.13	2521.56	2521.56
132	6.550	882.22	1011.88	2230.14	2448.12	2449.51	2449.51
133	6.600	855.43	985.00	2149.80	2382.03	2383.57	2383.57
134	6.650	829.42	958.86	2076.63	2322.59	2324.09	2324.09
135	6.700	804.17	933.53	2011.41	2269.47	2270.98	2270.98
136	6.750	779.64	908.81	1953.69	2222.58	2224.05	2224.05
137	6.800	755.83	884.78	1902.64	2180.99	2182.44	2182.44
138	6.850	732.70	861.51	1856.75	2143.86	2145.32	2145.32
139	6.900	710.25	839.08	1814.93	2110.48	2111.98	2111.98
140	6.950	688.44	817.43	1776.34	2080.32	2081.85	2081.85
141	7.000	667.27	796.34	1740.34	2052.72	2054.29	2054.29
142	7.050	646.71	775.61	1706.49	2027.26	2028.86	2028.86
143	7.100	626.76	754.99	1674.39	2003.71	2005.35	2005.35
144	7.150	607.37	734.21	1643.73	1981.86	1983.57	1983.57
145	7.200	588.56	713.03	1614.13	1961.69	1963.47	1963.47
146	7.250	570.29	691.42	1585.20	1942.86	1944.72	1944.72
147	7.300	552.55	669.62	1556.51	1925.14	1927.08	1927.08
148	7.350	535.33	648.00	1527.81	1908.38	1910.42	1910.42
149	7.400	518.62	626.91	1500.26	1891.77	1894.01	1894.01
150	7.450	502.39	606.45	1472.01	1876.24	1878.48	1878.48
151	7.500	486.63	586.53	1443.38	1861.21	1863.61	1863.61
152	7.550	471.34	567.03	1414.59	1846.68	1849.15	1849.15
153	7.600	456.49	547.91	1385.61	1832.58	1835.16	1835.16
154	7.650	442.08	529.27	1356.61	1818.87	1821.52	1821.52
155	7.700	428.09	511.17	1327.69	1805.53	1808.27	1808.27
156	7.750	414.52	493.52	1298.97	1792.53	1795.34	1795.34
157	7.800	401.34	476.27	1270.57	1779.85	1782.73	1782.73
158	7.850	388.56	459.58	1242.56	1767.48	1770.42	1770.42
159	7.900	376.15	443.55	1215.03	1755.39	1758.39	1758.39
160	7.950	364.11	428.08	1187.99	1743.60	1746.65	1746.65
161	8.000	352.42	413.05	1161.53	1732.07	1735.17	1735.17
162	8.050	341.09	398.42	1135.67	1720.81	1723.95	1723.95
163	8.100	330.10	384.29	1110.49	1709.79	1712.98	1712.98
164	8.150	319.45	370.71	1086.04	1699.04	1702.26	1702.26
165	8.200	309.13	357.71	1062.39	1688.54	1691.79	1691.79
166	8.250	299.13	345.24	1039.55	1678.30	1681.58	1681.58
167	8.300	289.44	333.25	1017.56	1668.30	1671.60	1671.60
168	8.350	280.05	321.71	996.44	1658.55	1661.87	1661.87
169	8.400	270.95	310.58	976.22	1649.05	1652.38	1652.38
170	8.450	262.14	299.86	956.87	1639.78	1643.13	1643.13
171	8.500	253.60	289.59	938.42	1630.75	1634.10	1634.10
172	8.550	245.34	279.78	920.80	1621.94	1625.30	1625.30
173	8.600	237.33	270.42	904.05	1613.35	1616.71	1616.71
174	8.650	229.58	261.48	888.10	1604.96	1608.32	1608.32

270	13.450	32.69	48.68	412.25	993.96	996.70	996.70
271	13.500	32.69	48.58	409.42	989.90	992.62	992.62
272	13.550	32.71	48.50	406.65	985.86	988.56	988.56
273	13.600	32.73	48.44	403.92	981.83	984.52	984.52
274	13.650	32.76	48.39	401.22	977.82	980.49	980.49
275	13.700	32.80	48.34	398.56	973.84	976.49	976.49
276	13.750	32.85	48.30	395.91	969.86	972.50	972.50
277	13.800	32.91	48.26	393.29	965.90	968.52	968.52
278	13.850	32.97	48.22	390.69	961.96	964.57	964.57
279	13.900	33.04	48.19	388.14	958.03	960.62	960.62
280	13.950	33.12	48.16	385.61	954.13	956.70	956.70
281	14.000	33.21	48.14	383.11	950.24	952.80	952.80
282	14.050	33.29	48.13	380.68	946.39	948.45	948.45
283	14.100	33.38	48.11	378.25	942.50	944.55	944.55
284	14.125	33.42	48.10	376.81	940.98	942.10	942.10
285	14.150	33.46	48.09	375.37	939.48	940.60	940.60
286	14.200	33.54	48.08	372.94	935.59	937.15	937.15
287	14.250	33.61	48.05	370.51	931.69	933.25	933.25
288	14.300	33.69	48.03	368.08	927.79	929.35	929.35
289	14.350	33.76	48.01	365.65	923.89	925.45	925.45
290	14.400	33.83	48.00	363.22	919.99	921.55	921.55
291	14.450	33.90	48.11	360.79	916.09	917.60	917.60
292	14.500	33.96	48.55	358.36	912.19	913.70	913.70
293	14.550	34.03	49.79	355.93	908.29	909.80	909.80
294	14.600	34.09	52.49	353.50	904.39	905.90	905.90
295	14.650	34.15	57.12	351.07	900.49	902.00	902.00
296	14.700	34.20	63.42	348.64	896.59	898.10	898.10
297	14.750	34.26	70.10	346.21	892.69	894.20	894.20
298	14.800	34.31	75.37	343.78	888.79	890.30	890.30
299	14.850	34.37	77.78	341.35	884.89	886.40	886.40
300	14.900	34.42	76.77	338.92	880.99	882.50	882.50
301	14.950	34.47	72.46	336.49	877.09	878.60	878.60
302	15.000	34.52	65.54	334.06	873.19	874.70	874.70
303	15.050	34.56	57.53	331.63	869.29	870.80	870.80
304	15.100	34.61	51.03	329.20	865.39	866.90	866.90
305	15.150	34.65	48.39	326.77	861.49	863.00	863.00
306	15.200	34.69	49.47	324.34	857.59	859.10	859.10
307	15.250	34.73	51.57	321.91	853.69	855.20	855.20
308	15.300	34.77	52.09	319.48	849.79	851.30	851.30
309	15.350	34.81	50.56	317.05	845.89	847.40	847.40
310	15.400	34.85	48.13	314.62	841.99	843.50	843.50
311	15.450	34.88	46.12	312.19	838.09	839.60	839.60
312	15.500	34.92	45.06	309.76	834.19	835.70	835.70
313	15.550	34.95	44.60	307.33	830.29	831.80	831.80
314	15.600	34.99	44.13	304.90	826.39	827.90	827.90
315	15.650	35.02	43.37	302.47	822.49	824.00	824.00
316	15.700	35.05	42.55	299.04	818.59	820.10	820.10
317	15.750	35.08	41.98	296.61	814.69	816.20	816.20
318	15.800	35.11	41.79	294.18	810.79	812.30	812.30
319	15.850	35.14	41.83	291.75	806.89	808.40	808.40
320	15.900	35.16	42.28	289.32	802.99	804.50	804.50
321	15.950	35.19	42.68	286.89	799.09	800.60	800.60
322	16.000	35.21	43.05	284.46	795.19	796.70	796.70
323	16.050	35.24	43.34	282.03	791.29	792.80	792.80
324	16.100	35.26	43.54	279.60	787.39	788.90	788.90
325	16.150	35.29	43.65	277.17	783.49	785.00	785.00
326	16.200	35.31	43.73	274.74	779.59	781.10	781.10
327	16.250	35.33	43.82	272.31	775.69	777.20	777.20
328	16.300	35.35	43.95	269.88	771.79	773.30	773.30
329	16.350	35.37	44.13	267.45	767.89	769.40	769.40
330	16.400	35.39	44.32	265.02	763.99	765.50	765.50
331	16.450	35.41	44.51	262.59	759.09	760.60	760.60
332	16.500	35.43	44.65	260.16	755.19	756.70	756.70
333	16.550	35.45	44.73	257.73	751.29	752.80	752.80
334	16.600	35.46	44.75	255.30	747.39	748.90	748.90
335	16.650	35.48	44.73	252.87	743.49	745.00	745.00
336	16.700	35.50	44.66	250.44	739.59	741.10	741.10
337	16.750	35.51	44.56	248.01	735.69	737.20	737.20
338	16.800	35.53	44.45	245.58	731.79	733.30	733.30
339	16.850	35.54	44.32	243.15	727.89	729.40	729.40
340	16.900	35.56	44.18	240.72	723.99	725.50	725.50
341	16.950	35.57	44.03	238.29	719.09	720.60	720.60
342	17.000	35.58	43.88	235.86	715.19	716.70	716.70
343	17.050	35.60	43.72	233.43	711.29	712.80	712.80
344	17.100	35.61	43.56	230.99	707.39	708.90	708.90
345	17.150	35.62	43.38	228.56	703.49	705.00	705.00
346	17.200	35.63	43.20	226.13	699.59	701.10	701.10
347	17.250	35.65	43.01	223.70	695.69	697.20	697.20
348	17.300	35.66	42.82	221.27	691.79	693.30	693.30
349	17.350	35.67	42.64	218.84	687.89	689.40	689.40
350	17.400	35.68	42.46	216.41	683.99	685.50	685.50
351	17.450	35.69	42.30	213.98	679.09	680.60	680.60
352	17.500	35.70	42.14	211.55	675.19	676.70	676.70
353	17.550	35.71	41.98	209.12	671.29	672.80	672.80
354	17.600	35.72	41.83	206.69	667.39	668.90	668.90
355	17.650	35.73	41.69	204.26	663.49	665.00	665.00
356	17.700	35.73	41.55	201.83	659.59	661.10	661.10
357	17.750	35.74	41.42	199.40	655.69	657.20	657.20
358	17.800	35.75	41.28	196.97	651.79	653.30	653.30
359	17.850	35.76	41.15	194.54	647.89	649.40	649.40
360	17.900	35.77	41.02	192.11	643.99	645.50	645.50
361	17.950	35.77	40.90	189.68	639.09	641.60	641.60
362	18.000	35.78	40.77	187.25	635.19	637.20	637.20
363	18.050	35.79	40.65	184.82	631.29	632.80	632.80
364	18.100	35.79	40.52	182.39	627.39	628.90	628.90

365	18.150	35.80	40.40	214.14	489.02	490.47	490.47
366	18.200	35.81	40.28	212.89	486.81	488.25	488.25
367	18.250	35.81	40.15	211.64	484.61	486.04	486.04
368	18.300	35.82	40.03	210.40	482.43	483.84	483.84
369	18.350	35.82	39.91	209.16	480.25	481.66	481.66
370	18.400	35.83	39.79	207.93	478.09	479.48	479.48
371	18.450	35.84	39.66	206.71	475.93	477.32	477.32
372	18.500	35.84	39.54	205.48	473.79	475.17	475.17
373	18.550	35.85	39.42	204.27	471.66	473.02	473.02
374	18.600	35.85	39.30	203.05	469.53	470.89	470.89
375	18.650	35.86	39.19	201.84	467.42	468.76	468.76
376	18.700	35.86	39.07	200.63	465.32	466.65	466.65
377	18.750	35.86	38.96	199.43	463.23	464.54	464.54
378	18.800	35.87	38.84	198.23	461.14	462.45	462.45
379	18.850	35.87	38.73	197.04	459.07	460.36	460.36
380	18.900	35.88	38.62	195.85	457.00	458.29	458.29
381	18.950	35.88	38.51	194.67	454.95	456.23	456.23
382	19.000	35.88	38.40	193.49	452.91	454.17	454.17
383	19.050	35.89	38.29	192.33	450.87	452.13	452.13
384	19.100	35.89	38.19	191.18	448.85	450.10	450.10
385	19.150	35.89	38.09	190.03	446.84	448.07	448.07
386	19.200	35.90	37.99	188.88	444.84	446.06	446.06
387	19.250	35.90	37.89	187.76	442.84	444.06	444.06
388	19.300	35.90	37.80	186.63	440.85	442.06	442.06
389	19.350	35.91	37.71	185.53	438.88	440.08	440.08
390	19.400	35.91	37.62	184.42	436.91	438.10	438.10
391	19.450	35.91	37.53	183.33	434.96	436.14	436.14
392	19.500	35.92	37.45	182.25	433.01	434.18	434.18
393	19.550	35.92	37.37	181.17	431.08	432.24	432.24
394	19.600	35.92	37.30	180.10	429.15	430.30	430.30
395	19.650	35.92	37.22	179.05	427.22	428.37	428.37
396	19.700	35.93	37.15	178.00	425.32	426.45	426.45
397	19.750	35.93	37.08	176.97	423.42	424.54	424.54
398	19.800	35.93	37.02	175.94	421.53	422.64	422.64
399	19.850	35.93	36.96	174.92	419.65	420.75	420.75
400	19.900	35.94	36.90	173.92	417.77	418.87	418.87
401	19.950	35.94	36.84	172.92	415.91	417.00	417.00
402	20.000	35.94	36.79	171.93	414.05	415.13	415.13
403	20.050	35.94	36.74	170.95	412.21	413.28	413.28
404	20.100	35.94	36.69	169.98	410.37	411.43	411.43
405	20.150	35.94	36.64	169.02	408.54	409.60	409.60
406	20.200	35.95	36.60	168.06	406.72	407.77	407.77
407	20.250	35.95	36.56	167.12	404.91	405.95	405.95
408	20.300	35.95	36.52	166.19	403.11	404.14	404.14
409	20.350	35.95	36.48	165.26	401.32	402.33	402.33
410	20.400	35.95	36.44	164.35	399.53	400.54	400.54
411	20.450	35.95	36.41	163.44	397.75	398.75	398.75
412	20.500	35.96	36.38	162.55	395.99	396.98	396.98
413	20.550	35.96	36.35	161.66	394.23	395.21	395.21
414	20.600	35.96	36.32	160.78	392.48	393.45	393.45
415	20.650	35.96	36.30	159.92	390.73	391.70	391.70
416	20.700	35.96	36.27	159.06	389.00	389.95	389.95
417	20.750	35.96	36.25	158.21	387.27	388.22	388.22
418	20.800	35.96	36.23	157.36	385.55	386.49	386.49
419	20.850	35.96	36.21	156.53	383.83	384.77	384.77
420	20.900	35.97	36.19	155.70	382.13	383.06	383.06
421	20.950	35.97	36.16	154.89	380.43	381.35	381.35
422	21.000	35.97	36.15	154.08	378.74	379.66	379.66
423	21.050	35.97	36.15	153.28	377.05	377.97	377.97
424	21.100	35.97	36.14	152.49	375.37	376.28	376.28
425	21.150	35.97	36.12	151.70	373.70	374.61	374.61
426	21.200	35.97	36.11	150.93	372.04	372.94	372.94
427	21.250	35.97	36.10	150.16	370.38	371.28	371.28
428	21.300	35.97	36.09	149.41	368.74	369.63	369.63
429	21.350	35.97	36.08	148.66	367.09	367.98	367.98
430	21.400	35.98	36.08	147.90	365.45	366.33	366.33
431	21.450	35.98	36.07	147.15	363.82	364.70	364.70
432	21.500	35.98	36.06	146.40	362.19	363.07	363.07
433	21.550	35.98	36.06	145.66	360.57	361.44	361.44
434	21.600	35.98	36.05	144.93	358.95	359.82	359.82
435	21.650	35.98	36.05	144.22	357.35	358.22	358.22
436	21.700	35.98	36.04	143.53	355.75	356.62	356.62
437	21.750	35.98	36.04	142.86	354.17	355.02	355.02
438	21.800	35.98	36.03	142.21	352.58	353.43	353.43
439	21.850	35.98	36.03	141.57	351.00	351.85	351.85
440	21.900	35.98	36.03	140.96	349.43	350.28	350.28
441	21.950	35.98	36.02	140.36	347.87	348.71	348.71
442	22.000	35.98	36.02	139.77	346.32	347.15	347.15
443	22.050	35.98	36.02	139.20	344.76	345.60	345.60
444	22.100	35.98	36.02	138.64	343.22	344.05	344.05
445	22.150	35.98	36.01	138.10	341.68	342.51	342.51
446	22.200	35.99	36.01	137.57	340.15	340.97	340.97
447	22.250	35.99	36.01	137.06	338.62	339.44	339.44
448	22.300	35.99	36.01	136.56	337.10	337.91	337.91
449	22.350	35.99	36.01	136.07	335.58	336.39	336.39
450	22.400	35.99	36.01	135.60	334.06	334.87	334.87
451	22.450	35.99	36.01	135.15	332.55	333.36	333.36
452	22.500	35.99	36.00	134.71	331.05	331.85	331.85
453	22.550	35.99	36.00	134.29	329.55	330.35	330.35
454	22.600	35.99	36.00	133.89	328.05	328.85	328.85
455	22.650	35.99	36.00	133.50	326.56	327.36	327.36
456	22.700	35.99	36.00	133.14	325.07	325.86	325.86
457	22.750	35.99	36.00	132.79	323.57	324.37	324.37
458	22.800	35.99	36.00	132.46	322.09	322.88	322.88
459	22.850	35.99	36.00	132.16	320.60	321.39	321.39

460	22.900	35.99	36.00	131.87	319.12	319.91	319.91
461	22.950	35.99	36.00	131.61	317.64	318.43	318.43
462	23.000	35.99	36.00	131.36	316.15	316.94	316.94
463	23.050	35.99	36.00	131.17	314.68	315.46	315.46
464	23.100	35.99	36.00	130.99	313.19	313.98	313.98
465	23.150	35.99	36.00	130.84	311.71	312.49	312.49
466	23.200	35.99	36.00	130.72	310.22	311.01	311.01
467	23.250	35.99	36.00	130.64	308.73	309.52	309.52
468	23.300	35.99	36.00	130.59	307.25	308.04	308.04
469	23.350	35.99	36.00	130.56	305.75	306.55	306.55
470	23.400	35.99	36.00	130.62	304.26	305.06	305.06
471	23.450	35.99	36.00	130.69	302.76	303.56	303.56
472	23.500	35.99	36.00	130.81	301.26	302.06	302.06
473	23.550	35.99	36.00	130.97	299.74	300.55	300.55
474	23.600	35.99	36.00	131.18	298.22	299.03	299.03
475	23.650	35.99	36.00	131.43	296.70	297.51	297.51
476	23.700	35.99	36.00	131.74	295.17	295.98	295.98
477	23.750	35.99	36.00	132.09	293.62	294.44	294.44
478	23.800	35.99	36.00	132.50	292.07	292.89	292.89
479	23.850	36.00	36.00	132.94	290.51	291.33	291.33
480	23.900	36.00	36.00	133.43	288.93	289.76	289.76
481	23.950	36.00	36.00	133.95	287.35	288.19	288.19
482	24.000	36.00	36.00	134.49	285.76	286.60	286.60
483	24.050	36.00	36.00	135.04	284.16	285.00	285.00
484	24.100	36.00	36.00	135.58	282.55	283.39	283.39
485	24.150	36.00	36.00	136.07	280.91	281.76	281.76
486	24.200	36.00	36.00	136.50	279.25	280.10	280.10
487	24.250	36.00	36.00	136.89	277.60	278.46	278.46
488	24.300	36.00	36.00	137.26	275.98	276.84	276.84
489	24.350	36.00	36.00	137.59	274.34	275.20	275.20
490	24.400	36.00	36.00	137.87	272.69	273.56	273.56
491	24.450	36.00	36.00	138.10	271.03	271.90	271.90
492	24.500	36.00	36.00	138.29	269.36	270.24	270.24
493	24.550	36.00	36.00	138.44	267.69	268.57	268.57
494	24.600	36.00	36.00	138.55	266.01	266.89	266.89
495	24.650	36.00	36.00	138.62	264.33	265.21	265.21
496	24.700	36.00	36.00	138.66	262.64	263.53	263.53
497	24.750	36.00	36.00	138.66	260.96	261.84	261.84
498	24.800	36.00	36.00	138.63	259.27	260.15	260.15
499	24.850	36.00	36.00	138.57	257.58	258.46	258.46
500	24.900	36.00	36.00	138.49	255.88	256.77	256.77
501	24.950	36.00	36.00	138.37	254.19	255.07	255.07
502	25.000	36.00	36.00	138.22	252.50	253.38	253.38
503	25.050	36.00	36.00	138.04	250.80	251.69	251.69
504	25.100	36.00	36.00	137.84	249.11	249.99	249.99
505	25.150	36.00	36.00	137.61	247.41	248.29	248.29
506	25.200	36.00	36.00	137.36	245.72	246.60	246.60
507	25.250	36.00	36.00	137.08	244.02	244.91	244.91
508	25.300	36.00	36.00	136.78	242.34	243.22	243.22
509	25.350	36.00	36.00	136.46	240.65	241.53	241.53
510	25.400	36.00	36.00	136.12	238.96	239.84	239.84
511	25.450	36.00	36.00	135.76	237.28	238.15	238.15
512	25.500	36.00	36.00	135.37	235.60	236.47	236.47
513	25.550	36.00	36.00	134.98	233.92	234.79	234.79
514	25.600	36.00	36.00	134.52	232.20	233.05	233.05
515	25.650	36.00	36.00	134.07	230.53	231.41	231.41
516	25.700	36.00	36.00	133.61	228.85	229.70	229.70
517	25.750	36.00	36.00	133.11	227.16	228.02	228.02
518	25.800	36.00	36.00	132.62	225.50	226.36	226.36
519	25.850	36.00	36.00	132.12	223.84	224.70	224.70
520	25.900	36.00	36.00	131.61	222.20	223.05	223.05
521	25.950	36.00	36.00	131.08	220.55	221.40	221.40
522	26.000	36.00	36.00	130.54	218.91	219.76	219.76
523	26.050	36.00	36.00	129.99	217.28	218.12	218.12
524	26.100	36.00	36.00	129.43	215.65	216.49	216.49
525	26.150	36.00	36.00	128.85	214.03	214.86	214.86
526	26.200	36.00	36.00	128.27	212.42	213.25	213.25
527	26.250	36.00	36.00	127.68	210.81	211.64	211.64
528	26.300	36.00	36.00	127.07	209.21	210.03	210.03
529	26.350	36.00	36.00	126.46	207.62	208.43	208.43
530	26.400	36.00	36.00	125.84	206.03	206.84	206.84
531	26.450	36.00	36.00	125.21	204.45	205.26	205.26
532	26.500	36.00	36.00	124.56	202.87	203.68	203.68
533	26.550	36.00	36.00	123.88	201.25	202.05	202.05
534	26.600	36.00	36.00	123.22	199.71	200.52	200.52
535	26.650	36.00	36.00	122.56	198.14	198.92	198.92
536	26.700	36.00	36.00	121.89	196.61	197.41	197.41
537	26.750	36.00	36.00	121.22	195.05	195.82	195.82
538	26.800	36.00	36.00	120.53	193.53	194.32	194.32
539	26.850	36.00	36.00	119.84	191.98	192.74	192.74
540	26.900	36.00	36.00	119.15	190.48	191.27	191.27
541	26.950	36.00	36.00	118.45	188.95	189.71	189.71
542	27.000	36.00	36.00	117.72	187.42	188.19	188.19
543	27.050	36.00	36.00	117.02	185.94	186.69	186.69
544	27.100	36.00	36.00	116.31	184.45	185.20	185.20
545	27.150	36.00	36.00	115.60	182.97	183.72	183.72
546	27.200	36.00	36.00	114.89	181.50	182.25	182.25
547	27.250	36.00	36.00	114.17	180.04	180.78	180.78
548	27.300	36.00	36.00	113.46	178.59	179.33	179.33
549	27.350	36.00	36.00	112.77	177.19	177.93	177.93
550	27.400	36.00	36.00	112.05	175.74	176.45	176.45
551	27.450	36.00	36.00	111.32	174.33	175.06	175.06
552	27.500	36.00	36.00	110.60	172.90	173.60	173.60
553	27.550	36.00	36.00	109.87	171.50	172.22	172.22
554	27.600	36.00	36.00	109.17	170.13	170.83	170.83

555	27.650	36.00	36.00	108.45	168.73	169.43	169.43
556	27.700	36.00	36.00	107.71	167.36	168.05	168.05
557	27.750	36.00	36.00	106.99	165.98	166.67	166.67
558	27.800	36.00	36.00	106.26	164.63	165.31	165.31
559	27.850	36.00	36.00	105.54	163.27	163.95	163.95
560	27.900	36.00	36.00	104.82	161.93	162.61	162.61
561	27.950	36.00	36.00	104.10	160.60	161.27	161.27
562	28.000	36.00	36.00	103.38	159.28	159.94	159.94
563	28.050	36.00	36.00	102.66	157.98	158.63	158.63
564	28.100	36.00	36.00	101.94	156.68	157.32	157.32
565	28.150	36.00	36.00	101.23	155.39	156.03	156.03
566	28.200	36.00	36.00	100.52	154.11	154.75	154.75
567	28.250	36.00	36.00	99.81	152.84	153.47	153.47
568	28.300	36.00	36.00	99.10	151.58	152.21	152.21
569	28.350	36.00	36.00	98.40	150.33	150.96	150.96
570	28.400	36.00	36.00	97.70	149.10	149.71	149.71
571	28.450	36.00	36.00	97.00	147.87	148.48	148.48
572	28.500	36.00	36.00	96.31	146.65	147.26	147.26
573	28.550	36.00	36.00	95.62	145.45	146.05	146.05
574	28.600	36.00	36.00	94.93	144.25	144.84	144.84
575	28.650	36.00	36.00	94.25	143.06	143.65	143.65
576	28.700	36.00	36.00	93.57	141.89	142.47	142.47
577	28.750	36.00	36.00	92.89	140.72	141.30	141.30
578	28.800	36.00	36.00	92.22	139.57	140.14	140.14
579	28.850	36.00	36.00	91.55	138.42	138.99	138.99
580	28.900	36.00	36.00	90.90	137.31	137.88	137.88
581	28.950	36.00	36.00	90.24	136.17	136.72	136.72
582	29.000	36.00	36.00	89.57	135.06	135.62	135.62
583	29.050	36.00	36.00	88.94	133.97	134.51	134.51
584	29.100	36.00	36.00	88.29	132.87	133.41	133.41
585	29.150	36.00	36.00	87.64	131.79	132.32	132.32
586	29.200	36.00	36.00	87.00	130.71	131.24	131.24
587	29.250	36.00	36.00	86.36	129.65	130.17	130.17
588	29.300	36.00	36.00	85.73	128.59	129.11	129.11
589	29.350	36.00	36.00	85.10	127.54	128.06	128.06
590	29.400	36.00	36.00	84.48	126.51	127.02	127.02
591	29.450	36.00	36.00	83.86	125.48	125.99	125.99
592	29.500	36.00	36.00	83.25	124.47	124.97	124.97
593	29.550	36.00	36.00	82.64	123.46	123.96	123.96
594	29.600	36.00	36.00	82.04	122.47	122.96	122.96
595	29.650	36.00	36.00	81.44	121.48	121.97	121.97
596	29.700	36.00	36.00	80.85	120.51	120.99	120.99
597	29.750	36.00	36.00	80.26	119.54	120.02	120.02
598	29.800	36.00	36.00	79.68	118.58	119.05	119.05
599	29.850	36.00	36.00	79.10	117.64	118.10	118.10
600	29.900	36.00	36.00	78.52	116.70	117.16	117.16
601	29.950	36.00	36.00	77.96	115.77	116.23	116.23
602	30.000	36.00	36.00	77.40	114.86	115.31	115.31
603	30.050	36.00	36.00	76.84	113.95	114.39	114.39
604	30.100	36.00	36.00	76.29	113.05	113.49	113.49
605	30.150	36.00	36.00	75.74	112.16	112.60	112.60
606	30.200	36.00	36.00	75.20	111.28	111.71	111.71
607	30.250	36.00	36.00	74.66	110.41	110.84	110.84
608	30.300	36.00	36.00	74.13	109.55	109.97	109.97
609	30.350	36.00	36.00	73.60	108.70	109.11	109.11
610	30.400	36.00	36.00	73.08	107.85	108.27	108.27
611	30.450	36.00	36.00	72.57	107.02	107.43	107.43
612	30.500	36.00	36.00	72.05	106.20	106.60	106.60
613	30.550	36.00	36.00	71.55	105.38	105.78	105.78
614	30.600	36.00	36.00	71.05	104.57	104.97	104.97
615	30.650	36.00	36.00	70.55	103.78	104.17	104.17
616	30.700	36.00	36.00	70.06	102.99	103.37	103.37
617	30.750	36.00	36.00	69.58	102.21	102.59	102.59
618	30.800	36.00	36.00	69.10	101.43	101.81	101.81
619	30.850	36.00	36.00	68.63	100.67	101.04	101.04
620	30.900	36.00	36.00	68.16	99.92	100.28	100.28
621	30.950	36.00	36.00	67.69	99.17	99.53	99.53
622	31.000	36.00	36.00	67.24	98.43	98.79	98.79
623	31.050	36.00	36.00	66.78	97.70	98.06	98.06
624	31.100	36.00	36.00	66.33	96.98	97.33	97.33
625	31.150	36.00	36.00	65.89	96.27	96.61	96.61
626	31.200	36.00	36.00	65.45	95.56	95.91	95.91
627	31.250	36.00	36.00	65.02	94.87	95.21	95.21
628	31.300	36.00	36.00	64.59	94.18	94.51	94.51
629	31.350	36.00	36.00	64.17	93.50	93.83	93.83
630	31.400	36.00	36.00	63.75	92.82	93.15	93.15
631	31.450	36.00	36.00	63.34	92.16	92.48	92.48
632	31.500	36.00	36.00	62.93	91.50	91.82	91.82
633	31.550	36.00	36.00	62.52	90.85	91.17	91.17
634	31.600	36.00	36.00	62.13	90.21	90.52	90.52
635	31.650	36.00	36.00	61.73	89.58	89.88	89.88
636	31.700	36.00	36.00	61.34	88.95	89.25	89.25
637	31.750	36.00	36.00	60.96	88.33	88.63	88.63
638	31.800	36.00	36.00	60.58	87.72	88.02	88.02
639	31.850	36.00	36.00	60.21	87.12	87.41	87.41
640	31.900	36.00	36.00	59.84	86.52	86.81	86.81
641	31.950	36.00	36.00	59.47	85.93	86.21	86.21
642	32.000	36.00	36.00	59.11	85.35	85.63	85.63
643	32.050	36.00	36.00	58.76	84.77	85.05	85.05
644	32.100	36.00	36.00	58.41	84.20	84.48	84.48
645	32.150	36.00	36.00	58.06	83.64	83.91	83.91
646	32.200	36.00	36.00	57.72	83.09	83.36	83.36
647	32.250	36.00	36.00	57.38	82.54	82.80	82.80
648	32.300	36.00	36.00	57.05	82.00	82.26	82.26
649	32.350	36.00	36.00	56.72	81.46	81.72	81.72

650	32.400	36.00	36.00	56.40	80.94	81.19	81.19
651	32.450	36.00	36.00	56.08	80.42	80.67	80.67
652	32.500	36.00	36.00	55.77	79.90	80.15	80.15
653	32.550	36.00	36.00	55.46	79.39	79.64	79.64
654	32.600	36.00	36.00	55.15	78.89	79.14	79.14
655	32.650	36.00	36.00	54.85	78.40	78.64	78.64
656	32.700	36.00	36.00	54.55	77.91	78.15	78.15
657	32.750	36.00	36.00	54.26	77.43	77.66	77.66
658	32.800	36.00	36.00	53.97	76.95	77.18	77.18
659	32.850	36.00	36.00	53.68	76.48	76.71	76.71
660	32.900	36.00	36.00	53.40	76.02	76.24	76.24
661	32.950	36.00	36.00	53.12	75.56	75.78	75.78
662	33.000	36.00	36.00	52.85	75.11	75.33	75.33
663	33.050	36.00	36.00	52.58	74.66	74.88	74.88
664	33.100	36.00	36.00	52.32	74.22	74.43	74.43
665	33.150	36.00	36.00	52.06	73.79	74.00	74.00
666	33.200	36.00	36.00	51.80	73.36	73.56	73.56
667	33.250	36.00	36.00	51.55	72.93	73.14	73.14
668	33.300	36.00	36.00	51.30	72.52	72.72	72.72
669	33.350	36.00	36.00	51.05	72.10	72.30	72.30
670	33.400	36.00	36.00	50.81	71.70	71.89	71.89
671	33.450	36.00	36.00	50.57	71.29	71.49	71.49
672	33.500	36.00	36.00	50.33	70.90	71.09	71.09
673	33.550	36.00	36.00	50.10	70.51	70.69	70.69
674	33.600	36.00	36.00	49.88	70.12	70.31	70.31
675	33.650	36.00	36.00	49.65	69.74	69.92	69.92
676	33.700	36.00	36.00	49.43	69.36	69.54	69.54
677	33.750	36.00	36.00	49.21	68.99	69.17	69.17
678	33.800	36.00	36.00	49.00	68.63	68.80	68.80
679	33.850	36.00	36.00	48.79	68.27	68.44	68.44
680	33.900	36.00	36.00	48.58	67.91	68.08	68.08
681	33.950	36.00	36.00	48.38	67.56	67.73	67.73
682	34.000	36.00	36.00	48.18	67.21	67.38	67.38
683	34.050	36.00	36.00	47.98	66.87	67.04	67.04
684	34.100	36.00	36.00	47.79	66.53	66.70	66.70
685	34.150	36.00	36.00	47.59	66.20	66.36	66.36
686	34.200	36.00	36.00	47.41	65.87	66.03	66.03
687	34.250	36.00	36.00	47.22	65.55	65.70	65.70
688	34.300	36.00	36.00	47.04	65.23	65.38	65.38
689	34.350	36.00	36.00	46.86	64.91	65.07	65.07
690	34.400	36.00	36.00	46.68	64.60	64.75	64.75
691	34.450	36.00	36.00	46.51	64.30	64.44	64.44
692	34.500	36.00	36.00	46.34	63.99	64.14	64.14
693	34.550	36.00	36.00	46.17	63.70	63.84	63.84
694	34.600	36.00	36.00	46.01	63.40	63.54	63.54
695	34.650	36.00	36.00	45.85	63.11	63.25	63.25
696	34.700	36.00	36.00	45.69	62.83	62.96	62.96
697	34.750	36.00	36.00	45.53	62.54	62.68	62.68
698	34.800	36.00	36.00	45.37	62.26	62.40	62.40
699	34.850	36.00	36.00	45.22	61.99	62.12	62.12
700	34.900	36.00	36.00	45.07	61.72	61.85	61.85
701	34.950	36.00	36.00	44.93	61.45	61.58	61.58
702	35.000	36.00	36.00	44.78	61.19	61.31	61.31
703	35.050	36.00	36.00	44.64	60.93	61.05	61.05
704	35.100	36.00	36.00	44.50	60.67	60.79	60.79
705	35.150	36.00	36.00	44.37	60.42	60.54	60.54
706	35.200	36.00	36.00	44.23	60.17	60.29	60.29
707	35.250	36.00	36.00	44.10	59.92	60.04	60.04
708	35.300	36.00	36.00	43.97	59.68	59.80	59.80
709	35.350	36.00	36.00	43.84	59.44	59.56	59.56
710	35.400	36.00	36.00	43.72	59.20	59.32	59.32
711	35.450	36.00	36.00	43.59	58.97	59.08	59.08
712	35.500	36.00	36.00	43.47	58.74	58.85	58.85
713	35.550	36.00	36.00	43.35	58.52	58.62	58.62
714	35.600	36.00	36.00	43.24	58.29	58.40	58.40
715	35.650	36.00	36.00	43.12	58.07	58.18	58.18
716	35.700	36.00	36.00	43.01	57.85	57.96	57.96
717	35.750	36.00	36.00	42.90	57.64	57.74	57.74
718	35.800	36.00	36.00	42.79	57.43	57.53	57.53
719	35.850	36.00	36.00	42.68	57.22	57.32	57.32
720	35.900	36.00	36.00	42.58	57.01	57.11	57.11
721	35.950	36.00	36.00	42.47	56.81	56.91	56.91
722	36.000	36.00	36.00	42.37	56.61	56.71	56.71
723	36.050	36.00	36.00	42.27	56.41	56.51	56.51
724	36.100	36.00	36.00	42.18	56.22	56.31	56.31
725	36.150	36.00	36.00	42.08	56.02	56.12	56.12
726	36.200	36.00	36.00	41.99	55.83	55.93	55.93
727	36.250	36.00	36.00	41.89	55.63	55.74	55.74
728	36.300	36.00	36.00	41.80	55.46	55.55	55.55
729	36.350	36.00	36.00	41.71	55.28	55.37	55.37
730	36.400	36.00	36.00	41.63	55.10	55.19	55.19
731	36.450	36.00	36.00	41.54	54.92	55.01	55.01
732	36.500	36.00	36.00	41.45	54.75	54.83	54.83
733	36.550	36.00	36.00	41.37	54.58	54.66	54.66
734	36.600	36.00	36.00	41.29	54.40	54.49	54.49
735	36.650	36.00	36.00	41.21	54.24	54.32	54.32
736	36.700	36.00	36.00	41.13	54.07	54.15	54.15
737	36.750	36.00	36.00	41.05	53.91	53.99	53.99
738	36.800	36.00	36.00	40.98	53.75	53.82	53.82
739	36.850	36.00	36.00	40.90	53.59	53.66	53.66
740	36.900	36.00	36.00	40.83	53.43	53.50	53.50
741	36.950	36.00	36.00	40.76	53.27	53.35	53.35
742	37.000	36.00	36.00	40.69	53.12	53.19	53.19
743	37.050	36.00	36.00	40.62	52.97	53.04	53.04
744	37.100	36.00	36.00	40.55	52.82	52.89	52.89

745	37.150	36.00	36.00	40.48	52.67	52.74	52.74
746	37.200	36.00	36.00	40.41	52.53	52.60	52.60
747	37.250	36.00	36.00	40.35	52.38	52.45	52.45
748	37.300	36.00	36.00	40.29	52.24	52.31	52.31
749	37.350	36.00	36.00	40.22	52.10	52.17	52.17
750	37.400	36.00	36.00	40.16	51.96	52.03	52.03
751	37.450	36.00	36.00	40.10	51.83	51.89	51.89
752	37.500	36.00	36.00	40.04	51.69	51.76	51.76
753	37.550	36.00	36.00	39.99	51.56	51.62	51.62
754	37.600	36.00	36.00	39.93	51.43	51.49	51.49
755	37.650	36.00	36.00	39.87	51.30	51.36	51.36
756	37.700	36.00	36.00	39.82	51.17	51.23	51.23
757	37.750	36.00	36.00	39.77	51.04	51.10	51.10
758	37.800	36.00	36.00	39.71	50.92	50.98	50.98
759	37.850	36.00	36.00	39.66	50.79	50.85	50.85
760	37.900	36.00	36.00	39.61	50.67	50.73	50.73
761	37.950	36.00	36.00	39.56	50.55	50.61	50.61
762	38.000	36.00	36.00	39.51	50.43	50.49	50.49
763	38.050	36.00	36.00	39.46	50.32	50.37	50.37
764	38.100	36.00	36.00	39.41	50.20	50.26	50.26
765	38.150	36.00	36.00	39.37	50.09	50.14	50.14
766	38.200	36.00	36.00	39.32	49.97	50.03	50.03
767	38.250	36.00	36.00	39.28	49.86	49.91	49.91
768	38.300	36.00	36.00	39.23	49.75	49.80	49.80
769	38.350	36.00	36.00	39.19	49.64	49.69	49.69
770	38.400	36.00	36.00	39.14	49.53	49.59	49.59
771	38.450	36.00	36.00	39.10	49.43	49.48	49.48
772	38.500	36.00	36.00	39.06	49.32	49.37	49.37
773	38.550	36.00	36.00	39.02	49.22	49.27	49.27
774	38.600	36.00	36.00	38.98	49.12	49.16	49.16
775	38.650	36.00	36.00	38.94	49.01	49.06	49.06
776	38.700	36.00	36.00	38.90	48.91	48.96	48.96
777	38.750	36.00	36.00	38.86	48.81	48.86	48.86
778	38.800	36.00	36.00	38.83	48.72	48.76	48.76
779	38.850	36.00	36.00	38.79	48.62	48.67	48.67
780	38.900	36.00	36.00	38.75	48.52	48.57	48.57
781	38.950	36.00	36.00	38.72	48.43	48.48	48.48
782	39.000	36.00	36.00	38.68	48.34	48.38	48.38
783	39.050	36.00	36.00	38.65	48.24	48.29	48.29
784	39.100	36.00	36.00	38.62	48.15	48.20	48.20
785	39.150	36.00	36.00	38.58	48.06	48.11	48.11
786	39.200	36.00	36.00	38.55	47.97	48.02	48.02
787	39.250	36.00	36.00	38.52	47.88	47.93	47.93
788	39.300	36.00	36.00	38.49	47.80	47.84	47.84
789	39.350	36.00	36.00	38.46	47.71	47.75	47.75
790	39.400	36.00	36.00	38.43	47.63	47.67	47.67
791	39.450	36.00	36.00	38.40	47.54	47.58	47.58
792	39.500	36.00	36.00	38.37	47.46	47.50	47.50
793	39.550	36.00	36.00	38.34	47.37	47.41	47.41
794	39.600	36.00	36.00	38.31	47.29	47.33	47.33
795	39.650	36.00	36.00	38.28	47.21	47.25	47.25
796	39.700	36.00	36.00	38.26	47.13	47.17	47.17
797	39.750	36.00	36.00	38.23	47.05	47.09	47.09
798	39.800	36.00	36.00	38.20	46.97	47.01	47.01
799	39.850	36.00	36.00	38.18	46.90	46.93	46.93
800	39.900	36.00	36.00	38.15	46.82	46.86	46.86
801	39.950	36.00	36.00	38.12	46.74	46.78	46.78
802	40.000	36.00	36.00	38.10	46.67	46.71	46.71
803	40.050	36.00	36.00	38.08	46.60	46.63	46.63
804	40.100	36.00	36.00	38.05	46.52	46.56	46.56
805	40.150	36.00	36.00	38.03	46.45	46.48	46.48
806	40.200	36.00	36.00	38.00	46.38	46.41	46.41
807	40.250	36.00	36.00	37.98	46.31	46.34	46.34
808	40.300	36.00	36.00	37.96	46.24	46.27	46.27
809	40.350	36.00	36.00	37.94	46.17	46.20	46.20
810	40.400	36.00	36.00	37.91	46.10	46.13	46.13
811	40.450	36.00	36.00	37.89	46.03	46.06	46.06
812	40.500	36.00	36.00	37.87	45.96	45.99	45.99
813	40.550	36.00	36.00	37.85	45.90	45.93	45.93
814	40.600	36.00	36.00	37.83	45.83	45.86	45.86
815	40.650	36.00	36.00	37.81	45.76	45.80	45.80
816	40.700	36.00	36.00	37.79	45.70	45.73	45.73
817	40.750	36.00	36.00	37.77	45.63	45.67	45.67
818	40.800	36.00	36.00	37.75	45.57	45.60	45.60
819	40.850	36.00	36.00	37.73	45.51	45.54	45.54
820	40.900	36.00	36.00	37.71	45.45	45.48	45.48
821	40.950	36.00	36.00	37.70	45.38	45.41	45.41
822	41.000	36.00	36.00	37.68	45.32	45.35	45.35
823	41.050	36.00	36.00	37.66	45.26	45.29	45.29
824	41.100	36.00	36.00	37.64	45.20	45.23	45.23
825	41.150	36.00	36.00	37.62	45.14	45.17	45.17
826	41.200	36.00	36.00	37.61	45.08	45.11	45.11
827	41.250	36.00	36.00	37.59	45.03	45.05	45.05
828	41.300	36.00	36.00	37.57	44.97	45.00	45.00
829	41.350	36.00	36.00	37.56	44.91	44.94	44.94
830	41.400	36.00	36.00	37.54	44.85	44.88	44.88
831	41.450	36.00	36.00	37.53	44.80	44.83	44.83
832	41.500	36.00	36.00	37.51	44.74	44.77	44.77
833	41.550	36.00	36.00	37.49	44.69	44.71	44.71
834	41.600	36.00	36.00	37.48	44.63	44.66	44.66
835	41.650	36.00	36.00	37.46	44.58	44.61	44.61
836	41.700	36.00	36.00	37.45	44.53	44.55	44.55
837	41.750	36.00	36.00	37.44	44.47	44.50	44.50
838	41.800	36.00	36.00	37.42	44.42	44.45	44.45
839	41.850	36.00	36.00	37.41	44.37	44.39	44.39

840	41.900	36.00	36.00	37.39	44.32	44.34	44.34
841	41.950	36.00	36.00	37.38	44.27	44.29	44.29
842	42.000	36.00	36.00	37.37	44.22	44.24	44.24
843	42.050	36.00	36.00	37.35	44.17	44.19	44.19
844	42.100	36.00	36.00	37.34	44.12	44.14	44.14
845	42.150	36.00	36.00	37.33	44.07	44.09	44.09
846	42.200	36.00	36.00	37.31	44.02	44.04	44.04
847	42.250	36.00	36.00	37.30	43.97	43.99	43.99
848	42.300	36.00	36.00	37.29	43.92	43.94	43.94
849	42.350	36.00	36.00	37.28	43.87	43.90	43.90
850	42.400	36.00	36.00	37.26	43.83	43.85	43.85
851	42.450	36.00	36.00	37.25	43.78	43.80	43.80
852	42.500	36.00	36.00	37.24	43.73	43.76	43.76
853	42.550	36.00	36.00	37.23	43.69	43.71	43.71
854	42.600	36.00	36.00	37.22	43.64	43.66	43.66
855	42.650	36.00	36.00	37.21	43.60	43.62	43.62
856	42.700	36.00	36.00	37.19	43.55	43.57	43.57
857	42.750	36.00	36.00	37.18	43.51	43.53	43.53
858	42.800	36.00	36.00	37.17	43.46	43.48	43.48
859	42.850	36.00	36.00	37.16	43.42	43.44	43.44
860	42.900	36.00	36.00	37.15	43.38	43.40	43.40
861	42.950	36.00	36.00	37.14	43.33	43.35	43.35
862	43.000	36.00	36.00	37.13	43.29	43.31	43.31
863	43.050	36.00	36.00	37.12	43.25	43.27	43.27
864	43.100	36.00	36.00	37.11	43.21	43.23	43.23
865	43.150	36.00	36.00	37.10	43.17	43.19	43.19
866	43.200	36.00	36.00	37.09	43.13	43.14	43.14
867	43.250	36.00	36.00	37.08	43.08	43.10	43.10
868	43.300	36.00	36.00	37.07	43.04	43.06	43.06
869	43.350	36.00	36.00	37.06	43.00	43.02	43.02
870	43.400	36.00	36.00	37.05	42.96	42.98	42.98
871	43.450	36.00	36.00	37.04	42.92	42.94	42.94
872	43.500	36.00	36.00	37.03	42.89	42.90	42.90
873	43.550	36.00	36.00	37.02	42.85	42.87	42.87
874	43.600	36.00	36.00	37.02	42.81	42.83	42.83
875	43.650	36.00	36.00	37.01	42.77	42.79	42.79
876	43.700	36.00	36.00	37.00	42.73	42.75	42.75
877	43.750	36.00	36.00	36.99	42.69	42.71	42.71
878	43.800	36.00	36.00	36.98	42.66	42.67	42.67
879	43.850	36.00	36.00	36.97	42.62	42.64	42.64
880	43.900	36.00	36.00	36.96	42.58	42.60	42.60
881	43.950	36.00	36.00	36.96	42.55	42.56	42.56
882	44.000	36.00	36.00	36.95	42.51	42.53	42.53
883	44.050	36.00	36.00	36.94	42.47	42.49	42.49
884	44.100	36.00	36.00	36.93	42.44	42.46	42.46
885	44.150	36.00	36.00	36.92	42.40	42.42	42.42
886	44.200	36.00	36.00	36.92	42.37	42.39	42.39
887	44.250	36.00	36.00	36.91	42.33	42.35	42.35
888	44.300	36.00	36.00	36.90	42.30	42.32	42.32
889	44.350	36.00	36.00	36.89	42.27	42.28	42.28
890	44.400	36.00	36.00	36.89	42.23	42.25	42.25
891	44.450	36.00	36.00	36.88	42.20	42.21	42.21
892	44.500	36.00	36.00	36.87	42.16	42.18	42.18
893	44.550	36.00	36.00	36.87	42.13	42.15	42.15
894	44.600	36.00	36.00	36.86	42.10	42.11	42.11
895	44.650	36.00	36.00	36.85	42.07	42.08	42.08
896	44.700	36.00	36.00	36.84	42.03	42.05	42.05
897	44.750	36.00	36.00	36.84	42.00	42.02	42.02
898	44.800	36.00	36.00	36.83	41.97	41.98	41.98
899	44.850	36.00	36.00	36.82	41.94	41.95	41.95
900	44.900	36.00	36.00	36.82	41.91	41.92	41.92
901	44.950	36.00	36.00	36.81	41.87	41.89	41.89
902	45.000	36.00	36.00	36.80	41.84	41.86	41.86
903	45.050	36.00	36.00	36.80	41.81	41.83	41.83
904	45.100	36.00	36.00	36.79	41.78	41.80	41.80
905	45.150	36.00	36.00	36.79	41.75	41.77	41.77
906	45.200	36.00	36.00	36.78	41.72	41.74	41.74
907	45.250	36.00	36.00	36.77	41.69	41.71	41.71
908	45.300	36.00	36.00	36.77	41.66	41.68	41.68
909	45.350	36.00	36.00	36.76	41.63	41.65	41.65
910	45.400	36.00	36.00	36.76	41.60	41.62	41.62
911	45.450	36.00	36.00	36.75	41.57	41.59	41.59
912	45.500	36.00	36.00	36.74	41.54	41.56	41.56
913	45.550	36.00	36.00	36.74	41.52	41.53	41.53
914	45.600	36.00	36.00	36.73	41.49	41.50	41.50
915	45.650	36.00	36.00	36.73	41.46	41.47	41.47
916	45.700	36.00	36.00	36.72	41.43	41.45	41.45
917	45.750	36.00	36.00	36.72	41.40	41.42	41.42
918	45.800	36.00	36.00	36.71	41.38	41.39	41.39
919	45.850	36.00	36.00	36.71	41.35	41.36	41.36
920	45.900	36.00	36.00	36.70	41.32	41.33	41.33
921	45.950	36.00	36.00	36.69	41.29	41.31	41.31
922	46.000	36.00	36.00	36.69	41.27	41.28	41.28
923	46.050	36.00	36.00	36.68	41.24	41.25	41.25
924	46.100	36.00	36.00	36.68	41.21	41.23	41.23
925	46.150	36.00	36.00	36.67	41.19	41.20	41.20
926	46.200	36.00	36.00	36.67	41.16	41.17	41.17
927	46.250	36.00	36.00	36.66	41.14	41.15	41.15
928	46.300	36.00	36.00	36.66	41.11	41.12	41.12
929	46.350	36.00	36.00	36.65	41.08	41.10	41.10
930	46.400	36.00	36.00	36.65	41.06	41.07	41.07
931	46.450	36.00	36.00	36.64	41.03	41.05	41.05
932	46.500	36.00	36.00	36.64	41.01	41.02	41.02
933	46.550	36.00	36.00	36.64	40.98	41.00	41.00
934	46.600	36.00	36.00	36.63	40.96	40.97	40.97

935	46.650	36.00	36.00	36.63	40.94	40.95	40.95
936	46.700	36.00	36.00	36.62	40.91	40.92	40.92
937	46.750	36.00	36.00	36.62	40.89	40.90	40.90
938	46.800	36.00	36.00	36.61	40.86	40.87	40.87
939	46.850	36.00	36.00	36.61	40.84	40.85	40.85
940	46.900	36.00	36.00	36.60	40.82	40.83	40.83
941	46.950	36.00	36.00	36.60	40.79	40.80	40.80
942	47.000	36.00	36.00	36.60	40.77	40.78	40.78
943	47.050	36.00	36.00	36.59	40.74	40.76	40.76
944	47.100	36.00	36.00	36.59	40.72	40.73	40.73
945	47.150	36.00	36.00	36.58	40.70	40.71	40.71
946	47.200	36.00	36.00	36.58	40.68	40.69	40.69
947	47.250	36.00	36.00	36.57	40.65	40.66	40.66
948	47.300	36.00	36.00	36.57	40.63	40.64	40.64
949	47.350	36.00	36.00	36.57	40.61	40.62	40.62
950	47.400	36.00	36.00	36.56	40.59	40.60	40.60
951	47.450	36.00	36.00	36.56	40.56	40.58	40.58
952	47.500	36.00	36.00	36.56	40.54	40.55	40.55
953	47.550	36.00	36.00	36.55	40.52	40.53	40.53
954	47.600	36.00	36.00	36.55	40.50	40.51	40.51
955	47.650	36.00	36.00	36.54	40.48	40.49	40.49
956	47.700	36.00	36.00	36.54	40.46	40.47	40.47
957	47.750	36.00	36.00	36.54	40.44	40.45	40.45
958	47.800	36.00	36.00	36.53	40.41	40.42	40.42
959	47.850	36.00	36.00	36.53	40.39	40.40	40.40
960	47.900	36.00	36.00	36.52	40.37	40.38	40.38
961	47.950	36.00	36.00	36.52	40.35	40.36	40.36
962	48.000	36.00	36.00	36.52	40.33	40.34	40.34
963	48.050	36.00	36.00	36.51	40.31	40.32	40.32
964	48.100	36.00	36.00	36.51	40.29	40.30	40.30
965	48.150	36.00	36.00	36.51	40.27	40.28	40.28
966	48.200	36.00	36.00	36.50	40.25	40.26	40.26
967	48.250	36.00	36.00	36.50	40.23	40.24	40.24
968	48.300	36.00	36.00	36.50	40.21	40.22	40.22
969	48.350	36.00	36.00	36.49	40.19	40.20	40.20
970	48.400	36.00	36.00	36.49	40.17	40.18	40.18
971	48.450	36.00	36.00	36.49	40.15	40.16	40.16
972	48.500	36.00	36.00	36.48	40.13	40.14	40.14
973	48.550	36.00	36.00	36.48	40.11	40.12	40.12
974	48.600	36.00	36.00	36.48	40.10	40.10	40.10
975	48.650	36.00	36.00	36.47	40.08	40.09	40.09
976	48.700	36.00	36.00	36.47	40.06	40.07	40.07
977	48.750	36.00	36.00	36.47	40.04	40.05	40.05
978	48.800	36.00	36.00	36.46	40.02	40.03	40.03
979	48.850	36.00	36.00	36.46	40.00	40.01	40.01
980	48.900	36.00	36.00	36.46	39.98	39.99	39.99
981	48.950	36.00	36.00	36.46	39.97	39.97	39.97
982	49.000	36.00	36.00	36.45	39.95	39.96	39.96
983	49.050	36.00	36.00	36.45	39.93	39.94	39.94
984	49.100	36.00	36.00	36.45	39.91	39.92	39.92
985	49.150	36.00	36.00	36.44	39.89	39.90	39.90
986	49.200	36.00	36.00	36.44	39.88	39.89	39.89
987	49.250	36.00	36.00	36.44	39.86	39.87	39.87
988	49.300	36.00	36.00	36.44	39.84	39.85	39.85
989	49.350	36.00	36.00	36.43	39.82	39.83	39.83
990	49.400	36.00	36.00	36.43	39.81	39.82	39.82
991	49.450	36.00	36.00	36.43	39.79	39.80	39.80
992	49.500	36.00	36.00	36.42	39.77	39.78	39.78
993	49.550	36.00	36.00	36.42	39.76	39.76	39.76
994	49.600	36.00	36.00	36.42	39.74	39.75	39.75
995	49.650	36.00	36.00	36.42	39.72	39.73	39.73
996	49.700	36.00	36.00	36.41	39.71	39.71	39.71
997	49.750	36.00	36.00	36.41	39.69	39.70	39.70
998	49.800	36.00	36.00	36.41	39.67	39.68	39.68
999	49.850	36.00	36.00	36.41	39.66	39.66	39.66
1000	49.900	36.00	36.00	36.40	39.64	39.65	39.65
1001	49.950	36.00	36.00	36.40	39.62	39.63	39.63

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 1
BELOW JOCASSEE HYDRO-M1 AT MILE .10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1084.97 FEET
FLOOD STAGE = 363.00 FEET
MAX STAGE = 338.97 FEET AT TIME = .000 HOURS
MAX FLOW = 4053787 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	339.0	26600	.	.	.	.	.	.
2	333.5	854400	.	.	.	.	.	.
4	265.2	4053787	.	.	.	.	.	.
6	164.4	1234722	.	.	.	.	.	.
8	106.9	352422	.	.	.	.	.	.
10	77.4	94505	.	.	.	.	.	.
12	67.0	38117	.	.	.	.	.	.
14	65.9	33206	.	.	.	.	.	.
16	66.4	35214	.	.	.	.	.	.
18	66.3	35781	.	.	.	.	.	.
20	66.6	35939	.	.	.	.	.	.
22	66.6	35983	.	.	.	.	.	.
24	66.6	35996	.	.	.	.	.	.
26	66.6	35996	.	.	.	.	.	.
28	66.6	35996	.	.	.	.	.	.
30	66.6	35996	.	.	.	.	.	.
32	66.6	35996	.	.	.	.	.	.
34	66.6	35996	.	.	.	.	.	.
36	66.6	35996	.	.	.	.	.	.
38	66.6	35996	.	.	.	.	.	.
40	66.6	35996	.	.	.	.	.	.
42	66.6	35996	.	.	.	.	.	.
44	66.6	35996	.	.	.	.	.	.
46	66.6	35996	.	.	.	.	.	.
48	66.6	35996	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 13
BELOW JOCASSEE HYDRO-M1 AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 873.41 FEET
FLOOD STAGE = 69.00 FEET
MAX STAGE = 142.41 FEET AT TIME = 4.550 HOURS
MAX FLOW = 3807996 CFS AT TIME = 4.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	65.0	26616	.	.	.	.	.	.
2	74.4	179904	.	.	.	.	.	.
4	135.8	3803279	.	.	.	.	.	.
6	124.9	1366851	.	.	.	.	.	.
8	84.8	413046	.	.	.	.	.	.
10	70.1	119834	.	.	.	.	.	.
12	58.9	57738	.	.	.	.	.	.
14	47.8	48143	.	.	.	.	.	.
16	33.7	43054	.	.	.	.	.	.
18	24.5	40774	.	.	.	.	.	.
20	18.0	36790	.	.	.	.	.	.
22	16.5	36020	.	.	.	.	.	.
24	16.4	35997	.	.	.	.	.	.
26	16.4	35996	.	.	.	.	.	.
28	16.4	35996	.	.	.	.	.	.
30	16.4	35996	.	.	.	.	.	.
32	16.4	35996	.	.	.	.	.	.
34	16.4	35996	.	.	.	.	.	.
36	16.4	35996	.	.	.	.	.	.
38	16.4	35996	.	.	.	.	.	.
40	16.4	35996	.	.	.	.	.	.
42	16.4	35996	.	.	.	.	.	.
44	16.4	35996	.	.	.	.	.	.
46	16.4	35996	.	.	.	.	.	.
48	16.4	35996	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 73
 BELOW JOCASSEE HYDRO-M1 AT MILE 13.90
 GAGE ZERO = 648.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.00 FEET
 FLOOD STAGE = 152.00 FEET
 MAX STAGE = 174.00 FEET AT TIME = 5.200 HOURS
 MAX FLOW = 3006537 CFS AT TIME = 6.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	147.9	57092	.	.	.	.	.	.
1	147.8	40525	.	.	.	.	.	.
2	149.4	246597	.	.	.	.	.	.
3	155.9	801098	.	.	.	.	.	.
4	166.1	1417994	.	.	.	.	.	.
5	173.7	2053900	.	.	.	.	.	.
6	169.2	3006537	.	.	.	.	.	.
7	166.9	1740343	.	.	.	.	.	.
8	163.1	1161529	.	.	.	.	.	.
9	157.6	813052	.	.	.	.	.	.
10	151.9	668451	.	.	.	.	.	.
11	146.4	531938	.	.	.	.	.	.
12	140.6	505194	.	.	.	.	.	.
13	135.2	440527	.	.	.	.	.	.
14	129.8	383106	.	.	.	.	.	.
15	120.7	368774	.	.	.	.	.	.
16	115.2	271318	.	.	.	.	.	.
17	110.2	249034	.	.	.	.	.	.
18	105.4	217959	.	.	.	.	.	.
19	100.9	193492	.	.	.	.	.	.
20	96.6	171929	.	.	.	.	.	.
21	92.6	154081	.	.	.	.	.	.
22	88.8	139769	.	.	.	.	.	.
23	85.1	131378	.	.	.	.	.	.
24	81.2	134488	.	.	.	.	.	.
25	76.7	138218	.	.	.	.	.	.
26	72.0	130540	.	.	.	.	.	.
27	67.3	117721	.	.	.	.	.	.
28	62.8	103373	.	.	.	.	.	.
29	58.7	89573	.	.	.	.	.	.
30	55.1	77393	.	.	.	.	.	.
31	52.0	67234	.	.	.	.	.	.
32	49.3	59113	.	.	.	.	.	.
33	47.1	52850	.	.	.	.	.	.
34	45.4	48177	.	.	.	.	.	.
35	44.0	44783	.	.	.	.	.	.
36	42.9	42373	.	.	.	.	.	.
37	42.0	40685	.	.	.	.	.	.
38	41.3	39509	.	.	.	.	.	.
39	40.8	38684	.	.	.	.	.	.
40	40.4	38100	.	.	.	.	.	.
41	40.0	37677	.	.	.	.	.	.
42	39.7	37365	.	.	.	.	.	.
43	39.4	37130	.	.	.	.	.	.
44	39.2	36948	.	.	.	.	.	.
45	39.1	36804	.	.	.	.	.	.
46	38.9	36689	.	.	.	.	.	.
47	38.8	36596	.	.	.	.	.	.
48	38.6	36518	.	.	.	.	.	.
49	38.5	36453	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 74
BELOW JOCASSEE HYDRO-MI AT MILE 14.10
GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.32 FEET
FLOOD STAGE = 152.60 FEET
MAX STAGE = 174.92 FEET AT TIME = 5.150 HOURS
MAX FLOW = 3214094 CFS AT TIME = 6.100 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.5	28180	.	.	.	.	.	.
2	150.0	123151	.	.	.	.	.	.
4	167.1	198162	.	.	.	.	.	.
6	169.2	3119679	.	.	.	.	.	.
8	163.0	1732065	.	.	.	.	.	.
10	151.5	1410479	.	.	.	.	.	.
12	140.5	1118441	.	.	.	.	.	.
14	129.3	950243	.	.	.	.	.	.
16	115.1	594385	.	.	.	.	.	.
18	105.2	495703	.	.	.	.	.	.
20	96.4	414054	.	.	.	.	.	.
22	88.6	346317	.	.	.	.	.	.
24	81.0	285761	.	.	.	.	.	.
26	71.9	218909	.	.	.	.	.	.
28	62.9	159280	.	.	.	.	.	.
30	55.2	114854	.	.	.	.	.	.
32	49.5	85344	.	.	.	.	.	.
34	45.6	67211	.	.	.	.	.	.
36	43.2	56608	.	.	.	.	.	.
38	41.7	50433	.	.	.	.	.	.
40	40.7	46670	.	.	.	.	.	.
42	40.1	44215	.	.	.	.	.	.
44	39.6	42510	.	.	.	.	.	.
46	39.3	41267	.	.	.	.	.	.
48	39.1	40331	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 75
BELOW JOCASSEE HYDRO-MI AT MILE 14.20
GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.27 FEET
FLOOD STAGE = 153.00 FEET
MAX STAGE = 175.27 FEET AT TIME = 5.150 HOURS
MAX FLOW = 3216895 CFS AT TIME = 6.100 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.9	19500	.	.	.	.	.	.
2	150.4	120428	.	.	.	.	.	.
4	167.5	191351	.	.	.	.	.	.
6	169.3	3123150	.	.	.	.	.	.
8	163.3	1735171	.	.	.	.	.	.
10	151.9	1413820	.	.	.	.	.	.
12	140.8	1121490	.	.	.	.	.	.
14	129.7	952798	.	.	.	.	.	.
16	115.5	596459	.	.	.	.	.	.
18	105.6	497190	.	.	.	.	.	.
20	96.8	415132	.	.	.	.	.	.
22	88.9	347153	.	.	.	.	.	.
24	81.4	286600	.	.	.	.	.	.
26	72.3	219754	.	.	.	.	.	.
28	63.2	159940	.	.	.	.	.	.
30	55.5	115304	.	.	.	.	.	.
32	49.8	85626	.	.	.	.	.	.
34	45.9	67378	.	.	.	.	.	.
36	43.5	56704	.	.	.	.	.	.
38	42.0	50490	.	.	.	.	.	.
40	41.1	46706	.	.	.	.	.	.
42	40.4	44240	.	.	.	.	.	.
44	40.0	42528	.	.	.	.	.	.
46	39.7	41280	.	.	.	.	.	.
48	39.4	40341	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 76
 BELOW JOCASSEE HYDRO-W1 AT MILE 14.80
 GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 802.82 FEET
 FLOOD STAGE = 23.00 FEET
 MAX STAGE = 156.82 FEET AT TIME = 7.150 HOURS
 MAX FLOW = 3216895 CFS AT TIME = 6.100 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	21.2	19500	.	.	.	.	.	.
2	34.6	120628	.	.	.	.	.	.
4	47.6	191351	.	.	.	.	.	.
6	139.4	3123150	.	.	.	.	.	.
8	154.8	1733171	.	.	.	.	.	.
10	144.6	1413820	.	.	.	.	.	.
12	132.3	1121490	.	.	.	.	.	.
14	122.7	952798	.	.	.	.	.	.
16	105.7	596459	.	.	.	.	.	.
18	95.8	497190	.	.	.	.	.	.
20	88.2	415132	.	.	.	.	.	.
22	81.5	347153	.	.	.	.	.	.
24	74.7	286600	.	.	.	.	.	.
26	66.2	219754	.	.	.	.	.	.
28	55.7	159940	.	.	.	.	.	.
30	47.1	115304	.	.	.	.	.	.
32	40.4	85626	.	.	.	.	.	.
34	36.0	67378	.	.	.	.	.	.
36	33.3	56704	.	.	.	.	.	.
38	31.6	50490	.	.	.	.	.	.
40	30.5	46706	.	.	.	.	.	.
42	29.7	44240	.	.	.	.	.	.
44	29.1	42528	.	.	.	.	.	.
46	28.6	41280	.	.	.	.	.	.
48	28.2	40341	.	.	.	.	.	.

ATTACHMENT 6
JOSD15 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

JOCASSE HYDRO-M1

ON

JOC/KED FAILURE

ANALYSIS BY

SD FAILURE OPTION 12
JOSD15 09142008 SDFall JOC81090/K8796 M/
FPC @ L RIVER CANAL COE QT CURVE 900 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATANBA PROJECT

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... SUMMARY OF INPUT DATA ...
... ..
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INPUT CONTROL PARAMETERS FOR JOCASSE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KKH	1
TYPE OF RESERVOIR ROUTING	KUT	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEN	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9	NPRT	0
FLOOD-PLAIN MODEL PARAMETER	RPLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES) SA (K)	ELEVATION (FT) HSA (K)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1090.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YDMIN	800.00
WIDTH OF BASE OF BREACH	FEET	DB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	940.00
ELEVATION OF TOP OF DAM	FEET	HD	1125.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	796.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	WF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	796.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19500.00

DAM NUMBER 3

JOCASSEE HYDRO-K1 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	658.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	WF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40875.	1.0
44081.	3.0
47314.	5.0
52201.	8.0
55476.	10.0
58759.	12.0
61222.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
47307.	.2
98699.	.5
102810.	2.0
111097.	4.0
119450.	6.0
136248.	10.0
144639.	12.0

QTT(L, K):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

QSPILL(K, 3) CFS	HEAD(K, 3) FEET
0.	0.
78750.	.5
157500.	1.0
315000.	2.0
353000.	6.0
400000.	8.0
480000.	12.0
565000.	16.0

DHF (INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.
 TEN (TIME AT WHICH COMPUTATIONS TERMINATE) = 50.0000 HRS.
 BREX (BREACH EXPONENT) = .000
 MUD (MUD FLOW OPTION) = 0
 IMF (TYPE OF WAVE FRONT TRACKING) = 0
 KPRES (WETTED PERIMETER OPTION) = 0
 KSL (LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-M1

500.00 500.00 500.00 500.00 36000.00 36000.00 36000.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000 1.0000 7.0000 8.0000 14.0000 30.0000 140.0000

CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
 BELOW JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
 (MAX NUMBER OF HYDROGRAPHS = 6)

1 3 9 10 11 12

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
 BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
-----------	-------	----------

LOCATION OF CROSS-SECTION	MILE	XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION	FEET	FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH	FEET	HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BS(K,I)
(ACTIVE FLOW PORTION)		
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BSS(K,I)
(OFF-CHANNEL PORTION)		
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		K

CROSS-SECTION NUMBER 1
.....

XS(I) = .100 FSTG(I) = 1109.00

HS ...	746.0	780.0	840.0	940.0	1000.0	1100.0	1140.0
BS ...	.0	600.0	900.0	1400.0	1800.0	2600.0	2750.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2
.....

XS(I) = .130 FSTG(I) = 800.00

HS ...	745.0	760.0	800.0	820.0	840.0	900.0	940.0
BS ...	.0	1000.0	1300.0	1600.0	1800.0	2000.0	2200.0
BSS ...	.0	.0	541.0	900.0	1184.0	2897.0	4000.0

CROSS-SECTION NUMBER 3
.....

XS(I) = 1.320 FSTG(I) = 800.00

HS ...	731.0	740.0	760.0	800.0	820.0	840.0	900.0
BS ...	.0	250.0	1300.0	2000.0	2200.0	2400.0	2600.0
BSS ...	.0	.0	.0	541.0	900.0	1184.0	2897.0

CROSS-SECTION NUMBER 4
.....

XS(I) = 2.910 FSTG(I) = 800.00

HS ...	715.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	700.0	1700.0	1850.0	2100.0	2800.0
BSS ...	.0	.0	.0	3359.0	5100.0	6807.0	12026.0

CROSS-SECTION NUMBER 5
.....

XS(I) = 3.820 FSTG(I) = 800.00

HS ...	710.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	500.0	800.0	850.0	925.0	2300.0
BSS ...	.0	.0	.0	3771.0	5780.0	7764.0	14858.0

CROSS-SECTION NUMBER 6
.....

XS(I) = 6.470 FSTG(I) = 800.00

HS ...	693.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	500.0	600.0	1000.0	1150.0	1300.0	1900.0
BSS ...	.0	.0	.0	412.0	680.0	957.0	2032.0

CROSS-SECTION NUMBER 7

XS(1) = 8.210 FSTG(1) = 800.00

HS ...	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	1600.0	1850.0	2000.0	2300.0	2425.0	2700.0
BSS ...	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8

XS(1) = 10.480 FSTG(1) = 800.00

HS ...	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	2400.0	3700.0	4000.0	4400.0	4650.0	4950.0
BSS ...	.0	.0	.0	.0	1425.0	2860.0	4300.0

CROSS-SECTION NUMBER 9

XS(1) = 13.900 FSTG(1) = 800.00

HS ...	648.0	680.0	740.0	780.0	800.0	820.0	840.0
BS0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10

XS(1) = 14.100 FSTG(1) = 800.00

HS ...	647.4	680.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11

XS(1) = 14.200 FSTG(1) = 800.00

HS ...	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12

XS(1) = 14.800 FSTG(1) = 669.00

HS ...	646.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13

XS(1) = 16.400 FSTG(1) = 667.00

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HS ...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS ...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14

XS(I) = 17.800 FSTG(I) = 665.00

HS ...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS ...	.0	400.0	700.0	800.0	1800.0	2400.0	4000.0
BSS ...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15

XS(I) = 20.300 FSTG(I) = 661.40

HS ...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS ...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS ...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16

XS(I) = 21.900 FSTG(I) = 660.60

HS ...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS ...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS ...	.0	.0	.0	1217.0	2400.0	5000.0	6007.0

1

CROSS-SECTION NUMBER 17

XS(I) = 25.100 FSTG(I) = 660.00

HS ...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS ...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS ...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18

XS(I) = 26.700 FSTG(I) = 660.00

HS ...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS ...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19

XS(I) = 29.200 FSTG(I) = 660.00

HS ...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	250.0	600.0	800.0	4700.0	6000.0	7000.0
BSS ...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20

XS(I) = 31.500 FSTG(I) = 660.00

HS	...	600.0	620.0	640.0	660.0	680.0	700.0
BS	...	.0	1400.0	2000.0	2400.0	2800.0	3000.0
BSS	...	.0	.0	.0	2330.0	3150.0	4320.0

CROSS-SECTION NUMBER 21

XS(I) = 36.800 FSTG(I) = 660.00

HS	...	589.0	600.0	620.0	640.0	660.0	680.0
BS	...	.0	600.0	1500.0	1700.0	2200.0	2900.0
BSS	...	.0	.0	.0	50.0	3664.0	5720.0

CROSS-SECTION NUMBER 22

XS(I) = 40.100 FSTG(I) = 660.00

HS	...	583.0	600.0	620.0	640.0	660.0	680.0
BS	...	.0	500.0	600.0	800.0	900.0	1100.0
BSS	...	.0	.0	.0	50.0	384.0	1900.0

CROSS-SECTION NUMBER 23

XS(I) = 41.100 FSTG(I) = 660.00

HS	...	540.0	600.0	620.0	640.0	660.0	680.0
BS	...	.0	1500.0	1900.0	2000.0	2150.0	2350.0
BSS	...	.0	.0	.0	50.0	10358.0	15200.0

CROSS-SECTION NUMBER 24

XS(I) = 42.800 FSTG(I) = 660.00

HS	...	520.0	600.0	620.0	640.0	660.0	680.0
BS	...	.0	2000.0	4300.0	5700.0	11000.0	13000.0
BSS	...	.0	.0	3500.0	4000.0	34673.0	69200.0

CROSS-SECTION NUMBER 25

XS(I) = 49.900 FSTG(I) = 660.00

HS	...	497.0	500.0	600.0	640.0	660.0	680.0
BS0	500.0	3500.0	4200.0	10000.0	10700.0
BSS	...	.0	.0	1000.0	1800.0	18235.0	29500.0

CROSS-SECTION NUMBER 26

XS(I) = 53.900 FSTG(I) = 660.00

HS	...	490.0	540.0	600.0	620.0	640.0	660.0
BS	...	.0	1500.0	12000.0	14000.0	14700.0	15000.0
BSS	...	.0	.0	.0	50.0	100.0	1500.0

CROSS-SECTION NUMBER 27
.....

XS(I) = 54.400 FSTG(I) = 496.80

HS ...	485.0	500.0	520.0	540.0	560.0	580.0	600.0
BS ...	.0	1000.0	1100.0	1200.0	1250.0	2100.0	2300.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28
.....

XS(I) = 55.700 FSTG(I) = 482.00

HS ...	474.0	480.0	500.0	520.0	540.0	580.0	600.0
BS ...	.0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS ...	.0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29
.....

XS(I) = 69.700 FSTG(I) = 477.00

HS ...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30
.....

XS(I) = 72.300 FSTG(I) = 477.00

HS ...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31
.....

XS(I) = 79.900 FSTG(I) = 477.00

HS ...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS ...	.0	1500.0	1800.0	2000.0	2200.0	3800.0	6000.0
BSS ...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(CN(K,I),K=1,NCS) WHERE I = REACH NUMBER
.....

REACH 1 ...	.030	.030	.030	.030	.030	.030	.030
REACH 2 ...	.030	.030	.035	.040	.050	.070	.080
REACH 3 ...	.030	.030	.030	.035	.040	.050	.080
REACH 4 ...	.030	.030	.030	.035	.040	.050	.080
REACH 5 ...	.030	.030	.030	.035	.040	.050	.080
REACH 6 ...	.030	.030	.030	.030	.035	.050	.080
REACH 7 ...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.060	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.050	.060	.080
REACH 27 ...	.030	.030	.030	.035	.050	.060	.080
REACH 28 ...	.030	.030	.030	.035	.050	.060	.080
REACH 29 ...	.030	.030	.030	.035	.050	.060	.080
REACH 30 ...	.030	.030	.030	.035	.050	.060	.080

1

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
 BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FXC(I)

REACH NUMBER	DXM(I)	FXC(I)
1	-101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.500	.000
8	.200	.000
9	.500	.000
10	1.500	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

1

DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET QLL		.000
INITIAL SIZE OF TIME STEP	HOUR	DTIM	.0500
DOWNSTREAM BOUNDARY PARAMETER	FEET	YDN	.000200
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FEET	SOM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOUR	TFI	.00

```

NPLD= 1
III= 1 NXPI(K,III)= 9 NXPN(K,III)= 10 NQLP(K)= 0 PWELV(K,III)= 720.10 PCWR(K,III)= 3.20 YED(K)= 794.61 QHNP(K)=
.00

(PSA(I,K),I=1,8)
58834.00 353605.00 485177.00 535128.00 644168.00 703866.00 767766.00 908172.00

(IPEL(I,K),I=1,8)
720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(QPUII(K),I=1,ITEM)
.00 .00 .00 .00 .00 .00 .00 .00

(COFF(I,K),I=1,8)
.00 .00 .00 .00 .00 .00 .00 .00

(HCOFF(I,K),I=1,8)
900.00 .00 .00 .00 .00 .00 .00 .00
NPN= 0

```

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) = 183 (MAXIMUM ALLOWABLE = 250)

1

*** SUMMARY OF OUTPUT DATA ***

1

CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESSAGE
1	.10	746.00				
2	.13	745.00	1	.03	33.33	
3	1.32	731.00	2	1.19	11.76	
4	2.91	715.00	3	1.59	10.06	
5	3.82	710.00	4	.91	5.49	
6	6.47	693.00	5	2.45	6.42	
7	8.21	680.00	6	1.74	7.47	
8	10.48	672.00	7	2.27	3.32	
9	13.90	648.00	8	3.42	7.02	
10	14.10	647.40	9	.20	3.00	
11	14.20	647.00	10	.10	4.00	
12	14.80	646.00	11	.60	1.67	
13	16.40	645.00	12	1.60	.63	
14	17.80	644.00	13	1.40	.71	
15	20.30	633.00	14	2.50	4.40	
16	21.90	628.00	15	1.60	3.12	
17	25.10	620.00	16	3.20	2.50	
18	26.70	614.00	17	1.60	3.75	
19	29.20	607.00	18	2.50	2.80	
20	31.50	600.00	19	2.30	3.04	
21	36.80	589.00	20	5.30	2.08	
22	40.10	583.00	21	3.30	1.82	
23	41.10	540.00	22	1.00	43.00	
24	42.80	520.00	23	1.70	11.76	
25	49.90	497.00	24	7.10	3.24	
26	53.90	490.00	25	4.00	1.75	
27	54.40	485.00	26	.50	10.00	
28	55.70	474.00	27	1.30	8.46	
29	69.70	405.00	28	14.00	4.93	
30	72.30	387.00	29	2.60	6.92	
31	79.90	330.00	30	7.60	7.50	

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1

IDAM(2) = 75

IDAM(3) = 140

SNC(K,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS

NN(NS)

183

NUMBER OF TIME STEPS

MNU

7

ROUTING COMPLETED.

KTIME= 1001

ALLOWABLE KTIME=9999

TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.....
.100	1069.98	4158788	.000	14.23	1169.00	.00
.130	879.49	4158788	4.450	21.91	800.00	1.45
.238	879.11	4136863	4.450	21.50	800.00	1.45
.346	878.73	4114700	4.450	21.06	800.00	1.45
.455	878.33	4092339	4.450	20.59	800.00	1.50
.563	877.94	4069819	4.500	20.09	800.00	1.50
.671	877.56	4047171	4.500	19.58	800.00	1.50
.779	877.19	4024241	4.500	19.05	800.00	1.50
.887	876.84	4000895	4.500	18.51	800.00	1.50
.995	876.51	3977160	4.550	17.96	800.00	1.55
1.104	876.21	3953024	4.550	17.38	800.00	1.55
1.212	875.93	3928495	4.550	16.80	800.00	1.55
1.320	875.67	3903774	4.550	16.21	800.00	1.55
1.426	875.34	3886448	4.550	16.25	800.00	1.55
1.532	875.02	3863223	4.600	16.29	800.00	1.55
1.638	874.69	3837097	4.600	16.32	800.00	1.55
1.744	874.36	3808086	4.600	16.35	800.00	1.60
1.850	874.02	3776223	4.600	16.36	800.00	1.60
1.956	873.68	3741557	4.650	16.37	800.00	1.60
2.062	873.33	3704149	4.650	16.38	800.00	1.60
2.168	872.98	3664060	4.650	16.37	800.00	1.60
2.274	872.61	3621363	4.650	16.36	800.00	1.60
2.380	872.24	3576132	4.700	16.35	800.00	1.60
2.486	871.87	3528449	4.700	16.32	800.00	1.65
2.592	871.48	3478403	4.700	16.29	800.00	1.65
2.698	871.07	3427895	4.700	16.25	800.00	1.65
2.804	870.66	3379586	4.700	16.20	800.00	1.65
2.910	870.23	3329080	4.700	16.14	800.00	1.65
3.213	867.74	3181032	4.750	18.98	800.00	1.70
3.517	863.25	3049597	4.800	23.99	800.00	1.75
3.820	852.75	2939348	4.900	36.15	800.00	1.85
4.024	848.66	2875820	4.900	35.15	800.00	1.90
4.228	844.90	2823479	4.850	34.37	800.00	1.95
4.432	841.49	2778710	4.900	33.78	800.00	1.95
4.635	838.54	2742840	5.150	33.35	800.00	2.00
4.839	835.94	2717855	5.250	33.08	800.00	2.05
5.043	833.48	2700190	5.350	32.96	800.00	2.15
5.247	831.71	2691566	5.450	33.00	800.00	2.20
5.451	829.07	2685878	5.500	33.19	800.00	2.25
5.655	827.05	2680549	5.550	33.53	800.00	2.30
5.858	825.12	2674453	5.600	34.13	800.00	2.40
6.062	823.30	2666928	5.600	35.20	800.00	2.50
6.266	821.57	2658392	5.650	36.82	800.00	2.65
6.470	819.94	2648005	5.650	40.02	800.00	3.00
6.687	822.97	2635634	5.600	27.90	800.00	2.55
6.905	824.33	2620912	5.550	22.60	800.00	2.45
7.122	825.03	2601170	5.500	19.09	800.00	2.40
7.340	825.39	2576549	5.450	16.50	800.00	2.40

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PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
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7.557	825.58	2546032	5.450	14.46	800.00	2.40
7.775	825.66	2509095	5.450	12.79	800.00	2.40
7.992	825.66	2465994	5.400	11.39	800.00	2.40
8.210	825.60	2422517	5.400	10.18	800.00	2.40
8.777	825.36	2549422	5.350	8.68	800.00	2.40
9.345	825.14	2683192	5.350	7.70	800.00	2.40
9.912	824.94	2782471	5.350	6.92	800.00	2.40
10.480	824.76	2852683	5.300	6.25	800.00	2.40
10.681	824.66	2874448	5.300	6.33	800.00	2.40
10.882	824.56	2894804	5.300	6.43	800.00	2.40
11.084	824.46	2913687	5.300	6.54	800.00	2.40
11.285	824.35	2931056	5.300	6.67	800.00	2.40
11.486	824.24	2946874	5.300	6.79	800.00	2.40
11.687	824.12	2961122	5.300	6.93	800.00	2.45
11.888	824.00	2973838	5.300	7.08	800.00	2.45
12.089	823.87	2986860	5.250	7.24	800.00	2.45
12.291	823.74	3001852	5.250	7.42	800.00	2.45
12.492	823.59	3015430	5.250	7.61	800.00	2.45
12.693	823.44	3027553	5.250	7.83	800.00	2.45
12.894	823.28	3038142	5.250	8.08	800.00	2.45
13.095	823.11	3047130	5.250	8.35	800.00	2.45
13.296	822.92	3054547	5.200	8.64	800.00	2.45
13.498	822.72	3060519	5.200	8.97	800.00	2.45
13.699	822.50	3070833	5.200	9.34	800.00	2.45

13.900	822.25	3079900	5.200	9.76	800.00	2.45
14.100	822.58	3233098	5.150	10.40	800.00	2.45
14.200	822.52	3236375	5.100	10.44	800.00	2.45
14.800	803.63	3236375	7.150	18.39	669.00	1.50
14.900	803.42	3184807	7.150	17.60	668.88	1.55
15.000	803.21	3133370	7.150	16.85	668.75	1.55
15.100	803.00	3082189	7.150	16.14	668.63	1.55
15.200	802.78	3031384	7.150	15.46	668.50	1.55
15.300	802.56	2981071	7.150	14.92	668.38	1.55
15.400	802.34	2931362	7.200	14.51	668.25	1.60
15.500	802.12	2882362	7.200	14.14	668.13	1.60
15.600	801.90	2837316	7.200	13.81	668.00	1.60
15.700	801.68	2796742	7.200	13.52	667.88	1.60
15.800	801.45	2756431	7.200	13.29	667.75	1.60
15.900	801.23	2716519	7.200	13.09	667.63	1.65
16.000	801.00	2677128	7.200	12.94	667.50	1.65
16.100	800.77	2638367	7.200	12.80	667.38	1.65
16.200	800.54	2600325	7.200	12.68	667.25	1.65
16.300	800.31	2563084	7.250	12.56	667.13	1.65
16.400	800.09	2526711	7.250	12.45	667.00	1.65
16.500	799.86	2493032	7.250	12.34	666.86	1.65
16.600	799.62	2461718	7.250	12.22	666.71	1.70
16.700	799.38	2430125	7.250	12.11	666.57	1.70
16.800	799.14	2398276	7.250	12.00	666.43	1.70

PROFILE OF CRESTS AND TIMES FOR JOC/KED FAILURE
 BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	798.88	2366136	7.250	11.89	666.29	1.70
17.000	798.63	2333913	7.250	11.79	666.14	1.70
17.100	798.36	2301454	7.250	11.68	666.00	1.70
17.200	798.10	2269896	7.250	11.58	665.86	1.70
17.300	797.82	2241357	7.250	11.48	665.71	1.75
17.400	797.54	2212663	7.250	11.38	665.57	1.75
17.500	797.25	2183830	7.250	11.28	665.43	1.75
17.600	796.96	2154867	7.300	11.19	665.29	1.75
17.700	796.65	2129175	7.300	11.09	665.14	1.75
17.800	796.35	2106716	7.300	11.00	665.00	1.80
18.113	795.12	2053662	7.300	11.36	664.55	1.80
18.425	793.63	2020573	7.300	11.84	664.10	1.85
18.738	791.80	1997893	7.350	12.51	663.65	1.90
19.050	789.49	1979610	7.350	13.48	663.20	1.90
19.363	786.48	1963230	7.350	14.87	662.75	1.95
19.675	782.41	1955097	7.400	16.89	662.30	2.00
19.988	776.57	1952030	7.450	20.03	661.85	2.00
20.300	767.52	1949963	7.600	25.31	661.40	2.05
21.900	740.82	1909529	9.100	23.36	660.60	2.25
25.100	721.42	1617151	11.200	17.98	660.00	3.55
25.633	718.35	1544644	11.450	16.32	660.00	3.85
26.167	715.15	1487525	11.800	14.25	660.00	4.10
26.700	712.26	1452310	12.200	11.47	660.00	4.30
29.200	701.07	1370442	14.900	16.05	660.00	6.05
29.775	699.15	1353026	15.100	11.79	660.00	6.05
30.350	697.46	1332582	15.300	10.70	660.00	6.10
30.925	695.93	1309494	15.500	9.50	660.00	6.20
31.500	694.51	1285078	15.650	8.28	660.00	6.25
34.150	687.93	1205060	16.500	7.81	660.00	6.90
36.800	681.31	1154805	17.650	8.18	660.00	7.85
40.100	671.30	1125432	28.900	24.51	660.00	15.00
41.100	671.74	1112790	27.550	6.55	660.00	10.90
42.800	671.73	1018852	27.550	2.22	660.00	10.85
43.814	671.71	932443	27.600	1.96	660.00	10.90
44.829	671.68	85215	27.650	1.74	660.00	10.90
45.843	671.66	775211	27.700	1.54	660.00	10.95
46.857	671.65	704631	27.700	1.38	660.00	10.95
47.871	671.63	643343	27.750	1.23	660.00	10.95
48.886	671.61	591412	27.750	1.11	660.00	10.95
49.900	671.60	548511	27.750	1.00	660.00	10.95
50.900	671.59	516526	27.800	.61	660.00	10.95
51.900	671.59	498492	27.750	.46	660.00	10.95
52.900	671.59	490876	27.800	.38	660.00	10.95
53.900	671.58	489164	27.750	.33	660.00	10.95
54.400	513.95	489164	26.700	22.33	496.40	1.10
55.050	500.69	489146	28.650	20.95	489.40	.30
55.700	499.67	489010	28.650	11.12	482.00	.35
56.200	497.54	488852	28.850	11.11	481.82	.60

PROFILE OF CRESTS AND TIMES FOR JOC/KED FAILURE
 BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
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56.700	495.42	488679	29.050	11.09	481.64	.90
57.200	493.30	488487	29.250	11.07	481.46	1.25
57.700	491.19	488278	29.450	11.05	481.29	1.85
58.200	489.08	488054	29.650	11.02	481.11	13.10
58.700	486.98	487817	29.850	10.99	480.93	14.05
59.200	484.88	487567	30.050	10.96	480.75	17.45
59.700	482.78	487308	30.250	10.93	480.57	20.75
60.200	480.69	487044	30.450	10.90	480.39	26.90
60.700	478.60	486779	30.650	10.86	480.21	.00
61.200	476.51	486512	30.850	10.82	480.04	.00
61.700	474.42	486249	31.050	10.78	479.86	.00
62.200	472.33	485993	31.250	10.74	479.68	.00
62.700	470.24	485747	31.400	10.70	479.50	.00
63.200	468.15	485513	31.550	10.65	479.32	.00
63.700	466.06	485296	31.700	10.61	479.14	.00
64.200	463.97	485094	31.850	10.57	478.96	.00
64.700	461.86	484914	32.000	10.53	478.79	.00
65.200	459.75	484754	32.100	10.49	478.61	.00
65.700	457.63	484616	32.250	10.46	478.43	.00
66.200	455.50	484500	32.350	10.44	478.25	.00
66.700	453.34	484405	32.400	10.42	478.07	.00
67.200	451.15	484331	32.500	10.42	477.89	.00
67.700	448.92	484274	32.550	10.43	477.71	.00
68.200	446.64	484234	32.600	10.48	477.54	.00
68.700	444.27	484205	32.650	10.56	477.36	.00
69.200	441.79	484186	32.700	10.71	477.18	.00
69.700	439.11	484175	32.700	10.96	477.00	.00
70.220	435.83	484166	32.750	11.86	477.00	.00
70.740	432.24	484160	32.800	12.73	477.00	.00
71.260	428.53	484155	32.800	13.39	477.00	.00
71.780	424.69	484151	32.850	13.84	477.00	.00
72.300	420.66	484148	32.900	14.20	477.00	.00
73.386	412.25	484142	32.950	14.29	477.00	.00
74.471	403.86	484136	33.050	14.35	477.00	.00
75.557	395.53	484128	33.150	14.35	477.00	.00
76.643	388.01	484109	33.350	13.82	477.00	.00
77.729	383.09	484078	33.450	11.96	477.00	.00
78.814	380.75	484049	33.500	11.04	477.00	.00
79.900	379.69	484037	33.500	7.79	477.00	.00

K	TTP(K)	YC(K, I), I=1,NTT				
1	.000	1089.97	796.02	795.86	795.87	795.86
2	.050	1089.95	796.02	795.85	795.85	795.86
3	.100	1089.94	796.02	795.87	795.87	795.86
4	.150	1089.92	796.02	795.87	795.88	795.89
5	.200	1089.91	796.02	795.88	795.88	795.87
6	.250	1089.89	796.01	795.88	795.88	795.89
7	.300	1089.87	796.01	795.88	795.88	795.87
8	.350	1089.86	796.01	795.86	795.86	795.87
9	.400	1089.84	796.00	795.84	795.84	795.84
10	.450	1089.83	795.97	795.81	795.81	795.81
11	.500	1089.81	795.94	795.78	795.78	795.78
12	.550	1089.79	795.89	795.76	795.76	795.76
13	.600	1089.77	795.85	795.76	795.76	795.76
14	.650	1089.75	795.83	795.78	795.78	795.78
15	.700	1089.73	795.84	795.79	795.79	795.79
16	.750	1089.70	795.90	795.80	795.80	795.80
17	.800	1089.66	795.99	795.80	795.80	795.80
18	.850	1089.62	796.10	795.80	795.80	795.80
19	.900	1089.57	796.23	795.80	795.80	795.80
20	.950	1089.51	796.37	795.80	795.80	795.80
21	1.000	1089.45	796.53	795.79	795.79	795.79
22	1.050	1089.37	796.71	795.78	795.79	795.79
23	1.100	1089.28	796.92	795.78	795.78	795.78
24	1.150	1089.18	797.15	795.78	795.78	795.78
25	1.200	1089.06	797.43	795.79	795.79	795.79
26	1.250	1088.93	797.74	795.81	795.81	795.81
27	1.300	1088.78	798.09	795.84	795.84	795.84
28	1.350	1088.61	798.47	795.89	795.89	795.89
29	1.400	1088.42	798.87	795.96	795.96	795.96
30	1.450	1088.21	799.31	796.03	796.02	796.02
31	1.500	1087.98	799.77	796.09	796.08	796.07
32	1.550	1087.72	800.25	796.15	796.14	796.13
33	1.600	1087.44	800.77	796.22	796.21	796.20
34	1.650	1087.13	801.31	796.31	796.30	796.29
35	1.700	1086.79	801.90	796.41	796.40	796.39
36	1.750	1086.42	802.52	796.53	796.52	796.51
37	1.800	1086.02	803.19	796.72	796.72	796.73
38	1.850	1085.58	803.90	796.94	796.94	796.94
39	1.900	1085.11	804.65	797.16	797.17	797.17
40	1.950	1084.61	805.45	797.39	797.40	797.40
41	2.000	1084.06	806.30	797.62	797.63	797.63
42	2.050	1083.48	807.19	797.85	797.86	797.86
43	2.100	1082.85	808.14	798.08	798.09	798.09
44	2.150	1082.18	809.13	798.31	798.33	798.33

45	2.200	1081.47	810.16	798.56	798.58	798.58	682.45
46	2.250	1080.71	811.24	798.82	798.85	798.85	682.81
47	2.300	1079.90	812.37	799.10	799.13	799.13	683.16
48	2.350	1079.04	813.53	799.40	799.44	799.44	683.50
49	2.400	1078.13	814.74	799.72	799.76	799.76	683.84
50	2.450	1077.17	815.99	800.05	800.10	800.10	684.18
51	2.500	1076.16	817.28	800.39	800.45	800.45	684.51
52	2.550	1075.09	818.62	800.74	800.81	800.81	684.84
53	2.600	1073.96	819.99	801.10	801.17	801.17	685.17
54	2.650	1072.78	821.40	801.47	801.55	801.55	685.50
55	2.700	1071.54	822.87	801.85	801.94	801.94	685.82
56	2.750	1070.24	824.38	802.25	802.34	802.34	686.14
57	2.800	1068.88	825.94	802.65	802.76	802.75	686.45
58	2.850	1067.45	827.54	803.06	803.18	803.18	686.77
59	2.900	1065.96	829.19	803.48	803.61	803.61	687.08
60	2.950	1064.41	830.88	803.92	804.06	804.06	687.40
61	3.000	1062.79	832.61	804.36	804.51	804.51	687.71
62	3.050	1061.11	834.35	804.82	804.98	804.98	688.02
63	3.100	1059.35	836.12	805.28	805.45	805.45	688.33
64	3.150	1057.52	837.91	805.75	805.93	805.93	688.64
65	3.200	1055.62	839.73	806.22	806.42	806.41	688.95
66	3.250	1053.65	841.55	806.71	806.91	806.91	689.26
67	3.300	1051.60	843.39	807.19	807.40	807.40	689.56
68	3.350	1049.47	845.24	807.68	807.90	807.90	689.87
69	3.400	1047.27	847.09	808.18	808.42	808.42	690.18
70	3.450	1044.98	848.95	808.69	808.94	808.94	690.49
71	3.500	1042.61	850.80	809.21	809.47	809.47	690.80
72	3.550	1040.16	852.65	809.74	810.01	810.01	691.11
73	3.600	1037.63	854.51	810.28	810.56	810.56	691.42
74	3.650	1035.00	856.35	810.82	811.12	811.12	691.73
75	3.700	1032.29	858.19	811.38	811.68	811.68	692.05
76	3.750	1029.49	860.02	811.93	812.25	812.25	692.36
77	3.800	1026.60	861.84	812.49	812.82	812.82	692.68
78	3.850	1023.62	863.65	813.06	813.39	813.39	692.99
79	3.900	1020.54	865.45	813.62	813.97	813.96	693.31
80	3.950	1017.36	867.23	814.19	814.54	814.54	693.63
81	4.000	1014.08	868.99	814.76	815.12	815.12	693.97
82	4.050	1010.77	870.49	815.32	815.68	815.68	694.57
83	4.100	1007.51	871.55	815.86	816.23	816.23	695.35
84	4.150	1004.29	872.43	816.40	816.77	816.76	696.30
85	4.200	1001.13	873.25	816.92	817.31	817.30	697.41
86	4.250	998.00	873.94	817.44	817.83	817.82	698.69
87	4.300	994.92	874.51	817.94	818.34	818.33	700.14
88	4.350	991.88	874.97	818.43	818.84	818.83	701.79
89	4.400	988.89	875.29	818.89	819.31	819.29	703.62
90	4.450	985.94	875.51	819.31	819.74	819.72	705.61
91	4.500	983.02	875.63	819.66	820.09	820.08	707.70
92	4.550	980.15	875.67	820.02	820.45	820.43	709.99
93	4.600	977.32	875.66	820.34	820.77	820.75	712.38
94	4.650	974.53	875.58	820.64	821.07	821.05	714.92
95	4.700	971.78	875.45	820.92	821.35	821.33	717.58
96	4.750	969.06	875.28	821.18	821.60	821.58	720.37
97	4.800	966.38	875.05	821.41	821.83	821.80	723.38
98	4.850	963.74	874.78	821.62	822.03	822.00	726.44
99	4.900	961.14	874.46	821.80	822.20	822.16	729.43
100	4.950	958.57	874.10	821.95	822.34	822.30	732.36
101	5.000	956.03	873.69	822.08	822.45	822.41	735.20
102	5.050	953.53	873.23	822.17	822.53	822.49	737.95
103	5.100	951.07	872.74	822.23	822.57	822.52	740.65
104	5.150	948.64	872.20	822.25	822.58	822.52	743.29
105	5.200	946.24	871.61	822.25	822.55	822.49	745.90
106	5.250	943.88	870.99	822.22	822.49	822.42	748.47
107	5.300	941.54	870.32	822.15	822.40	822.32	751.03
108	5.350	939.24	869.62	822.06	822.27	822.18	753.57
109	5.400	936.97	868.89	821.92	822.10	822.00	756.11
110	5.450	934.73	868.12	821.75	821.88	821.78	758.64
111	5.500	932.52	867.33	821.55	821.63	821.52	761.17
112	5.550	930.34	866.51	821.30	821.33	821.21	763.74
113	5.600	928.20	865.67	821.01	820.98	820.85	766.37
114	5.650	926.08	864.81	820.66	820.58	820.44	769.06
115	5.700	923.98	863.93	820.27	820.12	819.97	771.83
116	5.750	921.92	863.03	819.82	819.60	819.43	774.68
117	5.800	919.89	862.11	819.29	819.00	818.81	777.59
118	5.850	917.88	861.18	818.68	818.32	818.12	780.52
119	5.900	915.90	860.23	818.02	817.61	817.40	783.39
120	5.950	913.94	859.27	817.54	817.04	816.83	786.17
121	6.000	912.02	858.29	817.31	816.66	816.44	788.82
122	6.050	910.12	857.30	817.12	816.35	816.15	791.28
123	6.100	908.24	856.30	817.04	816.42	816.30	793.16
124	6.150	906.39	855.29	817.07	816.51	816.36	794.74
125	6.200	904.57	854.27	817.04	816.54	816.42	796.12
126	6.250	902.77	853.23	817.02	816.56	816.44	797.31
127	6.300	900.99	852.19	816.98	816.54	816.43	798.35
128	6.350	899.24	851.13	816.92	816.51	816.40	799.26
129	6.400	897.51	850.07	816.85	816.44	816.34	800.04
130	6.450	895.81	849.00	816.76	816.35	816.26	800.71
131	6.500	894.13	847.92	816.67	816.25	816.16	801.28
132	6.550	892.48	846.84	816.56	816.14	816.05	801.76
133	6.600	890.85	845.75	816.46	816.02	815.94	802.15
134	6.650	889.25	844.65	816.35	815.91	815.82	802.49
135	6.700	887.67	843.54	816.24	815.79	815.71	802.76
136	6.750	886.11	842.42	816.14	815.68	815.60	802.98
137	6.800	884.57	841.29	816.03	815.57	815.49	803.16
138	6.850	883.06	840.15	815.92	815.46	815.38	803.30
139	6.900	881.57	838.99	815.81	815.34	815.27	803.41

140	6.950	880.10	837.83	815.70	815.23	815.15	803.50
141	7.000	878.65	836.65	815.58	815.10	815.03	803.56
142	7.050	877.22	835.46	815.46	814.97	814.90	803.60
143	7.100	875.82	834.27	815.34	814.84	814.77	803.63
144	7.150	874.43	833.08	815.21	814.70	814.64	803.63
145	7.200	873.07	831.90	815.07	814.56	814.49	803.61
146	7.250	871.72	830.73	814.93	814.41	814.34	803.58
147	7.300	870.40	829.59	814.78	814.25	814.18	803.53
148	7.350	869.10	828.48	814.63	814.09	814.02	803.46
149	7.400	867.81	827.39	814.47	813.91	813.84	803.38
150	7.450	866.54	826.34	814.30	813.73	813.66	803.29
151	7.500	865.30	825.31	814.12	813.54	813.47	803.18
152	7.550	864.07	824.32	813.93	813.34	813.27	803.06
153	7.600	862.86	823.36	813.74	813.13	813.06	802.93
154	7.650	861.67	822.44	813.53	812.91	812.84	802.79
155	7.700	860.50	821.55	813.32	812.68	812.62	802.64
156	7.750	859.34	820.70	813.10	812.45	812.38	802.47
157	7.800	858.21	819.88	812.87	812.21	812.15	802.30
158	7.850	857.09	819.09	812.64	811.96	811.90	802.13
159	7.900	855.98	818.35	812.41	811.72	811.65	801.94
160	7.950	854.90	817.63	812.17	811.46	811.40	801.75
161	8.000	853.83	816.95	811.92	811.20	811.14	801.55
162	8.050	852.78	816.31	811.67	810.94	810.88	801.34
163	8.100	851.74	815.69	811.41	810.67	810.61	801.13
164	8.150	850.73	815.10	811.16	810.40	810.34	800.91
165	8.200	849.73	814.54	810.89	810.13	810.07	800.69
166	8.250	848.74	814.01	810.63	809.85	809.79	800.46
167	8.300	847.78	813.51	810.36	809.57	809.51	800.23
168	8.350	846.83	813.02	810.09	809.29	809.23	800.00
169	8.400	845.89	812.57	809.81	809.01	808.95	799.76
170	8.450	844.98	812.13	809.54	808.73	808.67	799.52
171	8.500	844.08	811.71	809.26	808.44	808.38	799.27
172	8.550	843.19	811.30	808.98	808.16	808.10	799.02
173	8.600	842.32	810.91	808.71	807.87	807.81	798.77
174	8.650	841.47	810.54	808.43	807.58	807.52	798.52
175	8.700	840.63	810.18	808.15	807.30	807.24	798.27
176	8.750	839.81	809.83	807.87	807.01	806.95	798.02
177	8.800	839.00	809.48	807.59	806.72	806.66	797.76
178	8.850	838.20	809.15	807.29	806.43	806.37	797.51
179	8.900	837.43	808.82	806.99	806.13	806.07	797.24
180	8.950	836.66	808.50	806.71	805.84	805.78	796.98
181	9.000	835.91	808.19	806.42	805.55	805.49	796.72
182	9.050	835.18	807.87	806.13	805.26	805.20	796.46
183	9.100	834.46	807.56	805.84	804.97	804.91	796.20
184	9.150	833.75	807.26	805.56	804.68	804.62	795.94
185	9.200	833.06	806.95	805.27	804.39	804.33	795.67
186	9.250	832.38	806.65	804.98	804.10	804.04	795.41
187	9.300	831.72	806.34	804.70	803.81	803.76	795.15
188	9.350	831.07	806.04	804.41	803.53	803.47	794.88
189	9.400	830.43	805.74	804.13	803.24	803.18	794.62
190	9.450	829.81	805.43	803.84	802.95	802.89	794.35
191	9.500	829.20	805.12	803.55	802.66	802.60	794.09
192	9.550	828.60	804.81	803.27	802.37	802.31	793.82
193	9.600	828.02	804.50	802.99	802.08	802.02	793.56
194	9.650	827.45	804.19	802.70	801.79	801.74	793.30
195	9.700	826.89	803.87	802.41	801.51	801.45	793.03
196	9.750	826.35	803.55	802.13	801.22	801.16	792.77
197	9.800	825.81	803.23	801.84	800.93	800.87	792.50
198	9.850	825.29	802.92	801.56	800.65	800.59	792.24
199	9.900	824.79	802.60	801.27	800.36	800.30	791.97
200	9.950	824.29	802.28	800.99	800.07	800.01	791.71
201	10.000	823.81	801.96	800.70	799.78	799.73	791.44
202	10.050	823.34	801.64	800.42	799.50	799.44	791.18
203	10.100	822.88	801.33	800.13	799.21	799.15	790.91
204	10.150	822.43	801.01	799.85	798.92	798.87	790.65
205	10.200	821.99	800.70	799.54	798.64	798.58	790.38
206	10.250	821.57	800.38	799.28	798.35	798.29	790.12
207	10.300	821.15	800.07	798.99	798.06	798.00	789.85
208	10.350	820.75	799.76	798.70	797.77	797.71	789.59
209	10.400	820.36	799.45	798.42	797.48	797.42	789.32
210	10.450	819.98	799.14	798.13	797.19	797.14	789.06
211	10.500	819.61	798.84	797.85	796.91	796.85	788.79
212	10.550	819.26	798.54	797.56	796.62	796.56	788.53
213	10.600	818.91	798.24	797.31	796.41	796.37	788.18
214	10.650	818.58	797.94	797.08	796.22	796.18	787.76
215	10.700	818.27	797.65	796.86	796.05	796.02	787.29
216	10.750	817.96	797.36	796.61	795.79	795.73	786.91
217	10.800	817.66	797.07	796.31	795.48	795.44	786.56
218	10.850	817.38	796.78	796.02	795.20	795.14	786.22
219	10.900	817.10	796.49	795.73	794.90	794.85	785.87
220	10.950	816.84	796.21	795.45	794.62	794.56	785.53
221	11.000	816.58	795.93	795.17	794.33	794.28	785.18
222	11.050	816.34	795.65	794.89	794.05	794.00	784.84
223	11.100	816.10	795.37	794.62	793.78	793.73	784.51
224	11.150	815.88	795.09	794.35	793.51	793.46	784.17
225	11.200	815.66	794.83	794.09	793.24	793.19	783.85
226	11.250	815.45	794.57	793.82	792.98	792.93	783.53
227	11.300	815.25	794.32	793.56	792.71	792.66	783.22
228	11.350	815.06	794.09	793.28	792.44	792.39	782.91
229	11.400	814.87	793.86	793.01	792.16	792.11	782.60
230	11.450	814.69	793.63	792.73	791.88	791.83	782.30
231	11.500	814.52	793.38	792.46	791.60	791.55	782.00
232	11.550	814.36	793.13	792.15	791.29	791.24	781.70
233	11.600	814.21	792.86	791.86	791.00	790.94	781.40
234	11.650	814.06	792.59	791.57	790.71	790.66	781.11

235	11.700	813.91	792.32	791.28	790.42	790.37	780.82
236	11.750	813.78	792.05	790.99	790.13	790.08	780.54
237	11.800	813.65	791.79	790.71	789.85	789.79	780.25
238	11.850	813.52	791.52	790.43	789.57	789.51	779.97
239	11.900	813.40	791.26	790.15	789.29	789.23	779.70
240	11.950	813.29	790.99	789.87	789.01	788.96	779.42
241	12.000	813.18	790.72	789.59	788.73	788.68	779.15
242	12.050	813.08	790.44	789.31	788.45	788.40	778.88
243	12.100	812.99	790.16	789.03	788.17	788.11	778.61
244	12.150	812.89	789.88	788.75	787.88	787.83	778.35
245	12.200	812.81	789.59	788.47	787.60	787.54	778.08
246	12.250	812.73	789.29	788.18	787.31	787.25	777.82
247	12.300	812.65	788.99	787.90	787.02	786.97	777.56
248	12.350	812.57	788.69	787.62	786.74	786.68	777.30
249	12.400	812.51	788.40	787.34	786.46	786.40	777.04
250	12.450	812.44	788.10	787.06	786.17	786.12	776.78
251	12.500	812.38	787.81	786.78	785.89	785.84	776.53
252	12.550	812.32	787.52	786.50	785.61	785.55	776.28
253	12.600	812.27	787.22	786.22	785.33	785.27	776.02
254	12.650	812.22	786.93	785.95	785.05	784.99	775.77
255	12.700	812.18	786.64	785.67	784.76	784.71	775.52
256	12.750	812.14	786.35	785.39	784.48	784.43	775.27
257	12.800	812.10	786.06	785.11	784.20	784.14	775.03
258	12.850	812.06	785.77	784.83	783.92	783.86	774.78
259	12.900	812.03	785.49	784.55	783.63	783.58	774.54
260	12.950	812.00	785.21	784.27	783.35	783.29	774.29
261	13.000	811.97	784.93	783.99	783.07	783.01	774.05
262	13.050	811.95	784.65	783.71	782.78	782.73	773.81
263	13.100	811.93	784.38	783.44	782.50	782.45	773.57
264	13.150	811.91	784.10	783.16	782.22	782.17	773.33
265	13.200	811.90	783.83	782.88	781.94	781.89	773.09
266	13.250	811.89	783.56	782.61	781.66	781.61	772.85
267	13.300	811.88	783.29	782.33	781.38	781.33	772.61
268	13.350	811.87	783.02	782.06	781.11	781.05	772.38
269	13.400	811.87	782.75	781.78	780.83	780.77	772.14
270	13.450	811.86	782.48	781.51	780.55	780.49	771.91
271	13.500	811.86	782.22	781.24	780.27	780.22	771.67
272	13.550	811.87	781.95	780.96	780.00	779.94	771.44
273	13.600	811.87	781.69	780.69	779.72	779.66	771.21
274	13.650	811.88	781.42	780.42	779.45	779.39	770.98
275	13.700	811.88	781.16	780.15	779.18	779.12	770.75
276	13.750	811.89	780.89	779.88	778.90	778.84	770.52
277	13.800	811.91	780.63	779.62	778.63	778.57	770.29
278	13.850	811.92	780.37	779.35	778.36	778.30	770.06
279	13.900	811.93	780.10	779.08	778.09	778.03	769.83
280	13.950	811.95	779.84	778.81	777.82	777.76	769.61
281	14.000	811.97	779.58	778.55	777.55	777.49	769.38
282	14.050	811.99	779.32	778.28	777.28	777.22	769.16
283	14.100	812.01	779.06	778.02	777.01	776.95	768.94
284	14.150	812.02	778.80	777.76	776.75	776.69	768.71
285	14.200	812.04	778.54	777.46	776.45	776.39	768.49
286	14.250	812.06	778.28	777.19	776.17	776.11	768.27
287	14.275	812.07	778.15	777.22	776.19	776.13	768.09
288	14.300	812.07	778.02	777.13	776.10	776.04	767.91
289	14.350	812.09	777.76	776.82	775.79	775.73	767.68
290	14.400	812.11	777.50	776.55	775.52	775.46	767.45
291	14.450	812.12	777.24	776.28	775.25	775.19	767.22
292	14.500	812.13	776.98	776.02	775.00	774.94	767.00
293	14.550	812.15	776.73	775.75	774.72	774.66	766.77
294	14.600	812.16	776.47	775.48	774.45	774.39	766.54
295	14.650	812.17	776.20	775.21	774.18	774.12	766.31
296	14.700	812.19	775.95	774.95	773.92	773.86	766.08
297	14.750	812.20	775.69	774.68	773.65	773.59	765.85
298	14.800	812.21	775.43	774.42	773.39	773.33	765.62
299	14.850	812.22	775.17	774.16	773.13	773.07	765.39
300	14.900	812.23	774.91	773.90	772.87	772.81	765.16
301	14.950	812.24	774.65	773.64	772.61	772.55	764.93
302	15.000	812.25	774.39	773.38	772.35	772.29	764.70
303	15.050	812.26	774.13	773.12	772.09	772.03	764.47
304	15.100	812.27	773.87	772.86	771.83	771.77	764.24
305	15.150	812.28	773.61	772.60	771.57	771.51	764.01
306	15.200	812.29	773.35	772.34	771.31	771.25	763.78
307	15.250	812.30	773.09	772.08	771.05	770.99	763.55
308	15.300	812.31	772.83	771.82	770.79	770.73	763.32
309	15.350	812.32	772.57	771.56	770.53	770.47	763.09
310	15.400	812.33	772.31	771.30	770.27	770.21	762.86
311	15.450	812.33	772.05	771.04	770.01	699.95	762.63
312	15.500	812.34	771.79	770.78	769.75	769.69	762.40
313	15.550	812.35	771.53	770.52	769.49	769.43	762.17
314	15.600	812.36	771.27	770.26	769.23	769.17	761.94
315	15.650	812.36	771.01	770.00	769.00	768.94	761.71
316	15.700	812.37	770.75	769.74	768.71	768.65	761.48
317	15.750	812.38	770.49	769.48	768.45	768.39	761.25
318	15.800	812.38	770.23	769.22	768.19	768.13	761.02
319	15.850	812.39	770.00	769.00	767.97	767.91	760.79
320	15.900	812.39	769.74	768.74	767.71	767.65	760.56
321	15.950	812.40	769.48	768.48	767.45	767.39	760.33
322	16.000	812.40	769.22	768.22	767.19	767.13	760.10
323	16.050	812.41	768.96	767.96	766.93	766.87	759.87
324	16.100	812.41	768.70	767.70	766.67	766.61	759.64
325	16.150	812.42	768.44	767.44	766.41	766.35	759.41
326	16.200	812.42	768.18	767.18	766.15	766.09	759.18
327	16.250	812.43	767.92	766.92	765.89	765.83	758.95
328	16.300	812.43	767.66	766.66	765.63	765.57	758.72
329	16.350	812.44	767.40	766.40	765.37	765.31	758.49

330	16.400	812.44	763.65	761.94	761.24	761.20	750.28
331	16.450	812.45	763.42	761.69	760.99	760.95	750.00
332	16.500	812.45	763.20	761.44	760.74	760.69	749.72
333	16.550	812.45	762.96	761.19	760.49	760.44	749.44
334	16.600	812.46	762.72	760.94	760.24	760.19	749.16
335	16.650	812.46	762.47	760.69	759.99	759.95	748.89
336	16.700	812.46	762.22	760.44	759.74	759.70	748.62
337	16.750	812.47	761.97	760.20	759.49	759.45	748.36
338	16.800	812.47	761.72	759.95	759.24	759.20	748.09
339	16.850	812.47	761.46	759.70	758.99	758.95	747.83
340	16.900	812.48	761.21	759.45	758.74	758.70	747.57
341	16.950	812.48	760.95	759.20	758.49	758.45	747.32
342	17.000	812.48	760.70	758.95	758.24	758.20	747.07
343	17.050	812.49	760.45	758.71	757.99	757.95	746.82
344	17.100	812.49	760.20	758.46	757.74	757.70	746.57
345	17.150	812.49	759.95	758.22	757.50	757.45	746.32
346	17.200	812.49	759.71	757.97	757.25	757.20	746.08
347	17.250	812.50	759.46	757.73	757.00	756.96	745.84
348	17.300	812.50	759.22	757.48	756.76	756.71	745.60
349	17.350	812.50	758.98	757.24	756.51	756.46	745.36
350	17.400	812.50	758.75	756.99	756.26	756.22	745.13
351	17.450	812.51	758.52	756.75	756.02	755.97	744.90
352	17.500	812.51	758.29	756.51	755.77	755.73	744.67
353	17.550	812.51	758.06	756.27	755.53	755.49	744.44
354	17.600	812.51	757.84	756.03	755.29	755.24	744.21
355	17.650	812.51	757.62	755.79	755.05	755.00	743.99
356	17.700	812.52	757.40	755.55	754.80	754.76	743.76
357	17.750	812.52	757.18	755.31	754.56	754.52	743.54
358	17.800	812.52	756.96	755.07	754.32	754.28	743.32
359	17.850	812.52	756.75	754.83	754.08	754.04	743.11
360	17.900	812.52	756.54	754.60	753.85	753.80	742.89
361	17.950	812.52	756.33	754.36	753.61	753.56	742.68
362	18.000	812.53	756.12	754.13	753.37	753.33	742.46
363	18.050	812.53	755.91	753.89	753.14	753.09	742.25
364	18.100	812.53	755.70	753.66	752.90	752.86	742.04
365	18.150	812.53	755.50	753.43	752.67	752.62	741.83
366	18.200	812.53	755.29	753.19	752.43	752.39	741.63
367	18.250	812.53	755.09	752.96	752.20	752.16	741.42
368	18.300	812.53	754.89	752.73	751.97	751.92	741.21
369	18.350	812.53	754.69	752.50	751.74	751.69	741.01
370	18.400	812.54	754.49	752.28	751.51	751.46	740.81
371	18.450	812.54	754.30	752.05	751.28	751.23	740.60
372	18.500	812.54	754.10	751.82	751.05	751.01	740.40
373	18.550	812.54	753.91	751.59	750.82	750.78	740.20
374	18.600	812.54	753.71	751.37	750.60	750.55	740.01
375	18.650	812.54	753.52	751.14	750.37	750.32	739.81
376	18.700	812.54	753.34	750.92	750.14	750.10	739.61
377	18.750	812.54	753.15	750.69	749.92	749.87	739.42
378	18.800	812.54	752.96	750.47	749.69	749.65	739.22
379	18.850	812.54	752.78	750.25	749.47	749.42	739.03
380	18.900	812.55	752.60	750.03	749.24	749.20	738.83
381	18.950	812.55	752.42	749.80	749.02	748.98	738.64
382	19.000	812.55	752.25	749.58	748.80	748.75	738.45
383	19.050	812.55	752.08	749.36	748.58	748.53	738.26
384	19.100	812.55	751.90	749.14	748.36	748.31	738.07
385	19.150	812.55	751.74	748.92	748.14	748.09	737.88
386	19.200	812.55	751.57	748.71	747.92	747.87	737.70
387	19.250	812.55	751.41	748.49	747.70	747.65	737.51
388	19.300	812.55	751.25	748.27	747.48	747.44	737.33
389	19.350	812.55	751.09	748.05	747.26	747.22	737.14
390	19.400	812.55	750.94	747.84	747.04	747.00	736.96
391	19.450	812.55	750.79	747.62	746.83	746.78	736.77
392	19.500	812.55	750.64	747.41	746.61	746.57	736.59
393	19.550	812.55	750.50	747.19	746.40	746.35	736.41
394	19.600	812.56	750.36	746.98	746.18	746.14	736.23
395	19.650	812.56	750.22	746.77	745.97	745.92	736.05
396	19.700	812.56	750.09	746.56	745.76	745.71	735.86
397	19.750	812.56	749.96	746.34	745.54	745.50	735.69
398	19.800	812.56	749.83	746.13	745.33	745.29	735.51
399	19.850	812.56	749.71	745.92	745.12	745.08	735.33
400	19.900	812.56	749.59	745.71	744.91	744.87	735.15
401	19.950	812.56	749.48	745.50	744.70	744.66	734.97
402	20.000	812.56	749.37	745.29	744.49	744.45	734.80
403	20.050	812.56	749.26	745.09	744.28	744.24	734.62
404	20.100	812.56	749.16	744.88	744.07	744.03	734.44
405	20.150	812.56	749.06	744.67	743.86	743.82	734.27
406	20.200	812.56	748.96	744.47	743.66	743.61	734.09
407	20.250	812.56	748.87	744.26	743.45	743.41	733.92
408	20.300	812.56	748.78	744.06	743.25	743.20	733.75
409	20.350	812.56	748.70	743.85	743.04	743.00	733.57
410	20.400	812.56	748.62	743.65	742.84	742.79	733.40
411	20.450	812.56	748.54	743.44	742.63	742.59	733.23
412	20.500	812.56	748.47	743.24	742.43	742.39	733.06
413	20.550	812.56	748.40	743.04	742.23	742.18	732.89
414	20.600	812.56	748.34	742.84	742.02	741.98	732.71
415	20.650	812.56	748.28	742.64	741.82	741.78	732.54
416	20.700	812.56	748.22	742.43	741.62	741.58	732.37
417	20.750	812.56	748.16	742.23	741.42	741.38	732.20
418	20.800	812.56	748.11	742.03	741.22	741.18	732.04
419	20.850	812.56	748.06	741.84	741.02	740.98	731.87
420	20.900	812.56	748.02	741.64	740.82	740.78	731.70
421	20.950	812.56	747.97	741.44	740.62	740.58	731.53
422	21.000	812.57	747.93	741.24	740.43	740.39	731.36
423	21.050	812.57	747.89	741.05	740.23	740.19	731.20
424	21.100	812.57	747.86	740.85	740.03	739.99	731.03

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425	21.150	812.57	747.83	740.65	739.84	739.80	730.86
426	21.200	812.57	747.80	740.46	739.64	739.60	730.70
427	21.250	812.57	747.77	740.26	739.45	739.41	730.53
428	21.300	812.57	747.74	740.07	739.25	739.21	730.37
429	21.350	812.57	747.72	739.87	739.06	739.02	730.20
430	21.400	812.57	747.69	739.68	738.87	738.82	730.04
431	21.450	812.57	747.67	739.49	738.67	738.63	729.87
432	21.500	812.57	747.65	739.30	738.48	738.44	729.71
433	21.550	812.57	747.63	739.10	738.29	738.25	729.54
434	21.600	812.57	747.62	738.91	738.10	738.05	729.38
435	21.650	812.57	747.60	738.72	737.90	737.86	729.22
436	21.700	812.57	747.58	738.53	737.71	737.67	729.05
437	21.750	812.57	747.57	738.34	737.52	737.48	728.89
438	21.800	812.57	747.56	738.15	737.33	737.29	728.73
439	21.850	812.57	747.55	737.96	737.14	737.10	728.57
440	21.900	812.57	747.54	737.77	736.95	736.91	728.40
441	21.950	812.57	747.53	737.58	736.76	736.72	728.24
442	22.000	812.57	747.52	737.39	736.58	736.53	728.08
443	22.050	812.57	747.51	737.21	736.39	736.35	727.91
444	22.100	812.57	747.50	737.02	736.20	736.16	727.75
445	22.150	812.57	747.49	736.83	736.01	735.97	727.59
446	22.200	812.57	747.49	736.64	735.83	735.78	727.43
447	22.250	812.57	747.48	736.46	735.64	735.60	727.27
448	22.300	812.57	747.47	736.27	735.46	735.41	727.10
449	22.350	812.57	747.47	736.09	735.27	735.23	726.94
450	22.400	812.57	747.46	735.90	735.08	735.04	726.78
451	22.450	812.57	747.46	735.72	734.90	734.86	726.62
452	22.500	812.57	747.45	735.53	734.72	734.67	726.45
453	22.550	812.57	747.45	735.35	734.53	734.49	726.29
454	22.600	812.57	747.45	735.16	734.35	734.30	726.13
455	22.650	812.57	747.44	734.98	734.16	734.12	725.97
456	22.700	812.57	747.44	734.79	733.98	733.93	725.80
457	22.750	812.57	747.44	734.61	733.80	733.75	725.64
458	22.800	812.57	747.43	734.42	733.61	733.57	725.48
459	22.850	812.57	747.43	734.24	733.43	733.38	725.31
460	22.900	812.57	747.43	734.06	733.24	733.20	725.15
461	22.950	812.57	747.43	733.87	733.06	733.02	724.98
462	23.000	812.57	747.42	733.69	732.88	732.83	724.82
463	23.050	812.57	747.42	733.50	732.69	732.65	724.65
464	23.100	812.57	747.42	733.32	732.51	732.46	724.49
465	23.150	812.57	747.42	733.13	732.33	732.28	724.32
466	23.200	812.57	747.42	732.95	732.14	732.10	724.15
467	23.250	812.57	747.41	732.76	731.96	731.91	723.99
468	23.300	812.57	747.41	732.58	731.77	731.73	723.82
469	23.350	812.57	747.41	732.39	731.59	731.54	723.65
470	23.400	812.57	747.41	732.20	731.40	731.35	723.48
471	23.450	812.57	747.41	732.01	731.21	731.17	723.31
472	23.500	812.57	747.41	731.82	731.03	730.98	723.13
473	23.550	812.57	747.41	731.63	730.84	730.79	722.96
474	23.600	812.57	747.41	731.44	730.65	730.60	722.79
475	23.650	812.57	747.41	731.25	730.46	730.41	722.61
476	23.700	812.57	747.40	731.06	730.27	730.22	722.43
477	23.750	812.57	747.40	730.86	730.07	730.03	722.26
478	23.800	812.57	747.40	730.67	729.88	729.83	722.08
479	23.850	812.57	747.40	730.47	729.69	729.64	721.90
480	23.900	812.57	747.40	730.27	729.49	729.44	721.71
481	23.950	812.57	747.40	730.07	729.29	729.24	721.53
482	24.000	812.57	747.40	729.87	729.09	729.04	721.34
483	24.050	812.57	747.40	729.66	728.89	728.84	721.16
484	24.100	812.57	747.40	729.46	728.69	728.64	720.97
485	24.150	812.57	747.40	729.25	728.48	728.43	720.77
486	24.200	812.57	747.40	729.04	728.28	728.23	720.58
487	24.250	812.57	747.40	728.82	728.07	728.02	720.39
488	24.300	812.57	747.40	728.61	727.86	727.81	720.19
489	24.350	812.57	747.40	728.40	727.65	727.60	720.00
490	24.400	812.57	747.40	728.18	727.44	727.39	719.81
491	24.450	812.57	747.40	727.97	727.22	727.18	719.62
492	24.500	812.57	747.40	727.75	727.01	726.96	719.43
493	24.550	812.57	747.40	727.53	726.79	726.74	719.23
494	24.600	812.57	747.40	727.30	726.57	726.53	719.04
495	24.650	812.57	747.40	727.08	726.36	726.31	718.84
496	24.700	812.57	747.40	726.86	726.13	726.08	718.64
497	24.750	812.57	747.40	726.63	725.91	725.86	718.44
498	24.800	812.57	747.39	726.40	725.69	725.64	718.24
499	24.850	812.57	747.39	726.18	725.46	725.41	718.04
500	24.900	812.57	747.39	725.95	725.24	725.19	717.84
501	24.950	812.57	747.39	725.72	725.01	724.96	717.63
502	25.000	812.57	747.39	725.49	724.78	724.73	717.43
503	25.050	812.57	747.39	725.25	724.56	724.50	717.22
504	25.100	812.57	747.39	725.02	724.33	724.27	717.01
505	25.150	812.57	747.39	724.79	724.10	724.04	716.80
506	25.200	812.57	747.39	724.55	723.86	723.81	716.59
507	25.250	812.57	747.39	724.32	723.63	723.58	716.38
508	25.300	812.57	747.39	724.08	723.40	723.35	716.16
509	25.350	812.57	747.39	723.85	723.17	723.12	715.95
510	25.400	812.57	747.39	723.61	722.93	722.88	715.73
511	25.450	812.57	747.39	723.38	722.70	722.65	715.51
512	25.500	812.57	747.39	723.14	722.47	722.41	715.29
513	25.550	812.57	747.39	722.90	722.23	722.18	715.07
514	25.600	812.57	747.39	722.66	722.00	721.94	714.85
515	25.650	812.57	747.39	722.42	721.76	721.71	714.62
516	25.700	812.57	747.39	722.19	721.53	721.47	714.39
517	25.750	812.57	747.39	721.95	721.29	721.24	714.17
518	25.800	812.57	747.39	721.71	721.06	721.00	713.94
519	25.850	812.57	747.39	721.47	720.82	720.77	713.71

520	25.900	812.57	747.39	721.23	720.58	720.53	713.47
521	25.950	812.57	747.39	720.99	720.35	720.29	713.24
522	26.000	812.57	747.39	720.76	720.11	720.06	713.00
523	26.050	812.57	747.39	720.52	719.88	719.82	712.76
524	26.100	812.57	747.39	720.28	719.64	719.59	712.53
525	26.150	812.57	747.39	720.04	719.41	719.35	712.29
526	26.200	812.57	747.39	719.80	719.17	719.11	712.04
527	26.250	812.57	747.39	719.57	718.93	718.88	711.80
528	26.300	812.57	747.39	719.33	718.70	718.64	711.56
529	26.350	812.57	747.39	719.09	718.46	718.41	711.31
530	26.400	812.57	747.39	718.85	718.23	718.17	711.06
531	26.450	812.57	747.39	718.62	718.00	717.94	710.81
532	26.500	812.57	747.39	718.38	717.76	717.71	710.56
533	26.550	812.57	747.39	718.15	717.53	717.47	710.31
534	26.600	812.57	747.39	717.91	717.29	717.24	710.05
535	26.650	812.57	747.39	717.67	717.06	717.00	709.80
536	26.700	812.57	747.39	717.44	716.83	716.77	709.54
537	26.750	812.57	747.39	717.21	716.60	716.54	709.28
538	26.800	812.57	747.39	716.97	716.36	716.31	709.03
539	26.850	812.57	747.39	716.74	716.13	716.08	708.76
540	26.900	812.57	747.39	716.50	715.90	715.84	708.50
541	26.950	812.57	747.39	716.27	715.67	715.61	708.24
542	27.000	812.57	747.39	716.04	715.44	715.38	707.97
543	27.050	812.57	747.39	715.81	715.21	715.15	707.71
544	27.100	812.57	747.39	715.57	714.98	714.92	707.44
545	27.150	812.57	747.39	715.34	714.75	714.69	707.18
546	27.200	812.57	747.39	715.11	714.52	714.47	706.91
547	27.250	812.57	747.39	714.88	714.30	714.24	706.64
548	27.300	812.57	747.39	714.66	714.07	714.01	706.37
549	27.350	812.57	747.39	714.43	713.84	713.78	706.10
550	27.400	812.57	747.39	714.20	713.62	713.56	705.83
551	27.450	812.57	747.39	713.97	713.39	713.33	705.56
552	27.500	812.57	747.39	713.75	713.17	713.11	705.29
553	27.550	812.57	747.39	713.52	712.94	712.88	705.02
554	27.600	812.57	747.39	713.29	712.72	712.66	704.75
555	27.650	812.57	747.39	713.07	712.50	712.44	704.48
556	27.700	812.57	747.39	712.85	712.28	712.22	704.21
557	27.750	812.57	747.39	712.63	712.06	712.00	703.95
558	27.800	812.57	747.39	712.40	711.83	711.78	703.68
559	27.850	812.57	747.39	712.18	711.62	711.56	703.42
560	27.900	812.57	747.39	711.96	711.40	711.34	703.15
561	27.950	812.57	747.39	711.74	711.18	711.12	702.89
562	28.000	812.57	747.39	711.52	710.96	710.90	702.63
563	28.050	812.57	747.39	711.31	710.75	710.69	702.37
564	28.100	812.57	747.39	711.09	710.53	710.47	702.12
565	28.150	812.57	747.39	710.88	710.32	710.26	701.87
566	28.200	812.57	747.39	710.66	710.11	710.05	701.62
567	28.250	812.57	747.39	710.45	709.90	709.84	701.37
568	28.300	812.57	747.39	710.24	709.69	709.62	701.13
569	28.350	812.57	747.39	710.02	709.48	709.41	700.89
570	28.400	812.57	747.39	709.81	709.27	709.21	700.65
571	28.450	812.57	747.39	709.60	709.06	709.00	700.42
572	28.500	812.57	747.39	709.39	708.85	708.79	700.18
573	28.550	812.57	747.39	709.19	708.65	708.58	699.95
574	28.600	812.57	747.39	708.98	708.44	708.38	699.72
575	28.650	812.57	747.39	708.78	708.24	708.18	699.49
576	28.700	812.57	747.39	708.57	708.04	707.97	699.26
577	28.750	812.57	747.39	708.37	707.83	707.77	699.04
578	28.800	812.57	747.39	708.17	707.63	707.57	698.82
579	28.850	812.57	747.39	707.96	707.43	707.37	698.59
580	28.900	812.57	747.39	707.76	707.24	707.17	698.37
581	28.950	812.57	747.39	707.57	707.04	706.98	698.15
582	29.000	812.57	747.39	707.37	706.84	706.78	697.94
583	29.050	812.57	747.39	707.17	706.65	706.58	697.72
584	29.100	812.57	747.39	706.98	706.45	706.39	697.50
585	29.150	812.57	747.39	706.78	706.26	706.20	697.29
586	29.200	812.57	747.39	706.59	706.07	706.01	697.08
587	29.250	812.57	747.39	706.40	705.88	705.82	696.87
588	29.300	812.57	747.39	706.21	705.69	705.63	696.66
589	29.350	812.57	747.39	706.02	705.50	705.44	696.45
590	29.400	812.57	747.39	705.83	705.31	705.25	696.24
591	29.450	812.57	747.39	705.64	705.13	705.07	696.03
592	29.500	812.57	747.39	705.45	704.94	704.88	695.83
593	29.550	812.57	747.39	705.27	704.76	704.70	695.62
594	29.600	812.57	747.39	705.09	704.58	704.52	695.42
595	29.650	812.57	747.39	704.90	704.40	704.34	695.22
596	29.700	812.57	747.39	704.72	704.22	704.16	695.02
597	29.750	812.57	747.39	704.54	704.04	703.98	694.82
598	29.800	812.57	747.39	704.36	703.86	703.80	694.62
599	29.850	812.57	747.39	704.19	703.69	703.62	694.42
600	29.900	812.57	747.39	704.01	703.51	703.45	694.22
601	29.950	812.57	747.39	703.83	703.34	703.28	694.02
602	30.000	812.57	747.39	703.66	703.17	703.10	693.83
603	30.050	812.57	747.39	703.49	703.00	702.93	693.63
604	30.100	812.57	747.39	703.32	702.83	702.76	693.44
605	30.150	812.57	747.39	703.15	702.66	702.59	693.25
606	30.200	812.57	747.39	702.98	702.49	702.43	693.06
607	30.250	812.57	747.39	702.81	702.32	702.26	692.87
608	30.300	812.57	747.39	702.64	702.16	702.10	692.68
609	30.350	812.57	747.39	702.48	702.00	701.93	692.49
610	30.400	812.57	747.39	702.31	701.83	701.77	692.30
611	30.450	812.57	747.39	702.15	701.67	701.61	692.11
612	30.500	812.57	747.39	701.99	701.51	701.45	691.93
613	30.550	812.57	747.39	701.83	701.35	701.29	691.74
614	30.600	812.57	747.39	701.67	701.20	701.13	691.56

615	30.650	812.57	747.39	701.51	701.04	700.98	691.38
616	30.700	812.57	747.39	701.36	700.89	700.82	691.20
617	30.750	812.57	747.39	701.20	700.73	700.67	691.02
618	30.800	812.57	747.39	701.05	700.58	700.52	690.84
619	30.850	812.57	747.39	700.89	700.43	700.36	690.67
620	30.900	812.57	747.39	700.74	700.28	700.22	690.49
621	30.950	812.57	747.39	700.59	700.13	700.07	690.32
622	31.000	812.57	747.39	700.44	699.98	699.92	690.14
623	31.050	812.57	747.39	700.29	699.84	699.77	689.97
624	31.100	812.57	747.39	700.15	699.69	699.63	689.80
625	31.150	812.57	747.39	700.00	699.55	699.48	689.63
626	31.200	812.57	747.39	699.86	699.40	699.34	689.46
627	31.250	812.57	747.39	699.72	699.26	699.20	689.30
628	31.300	812.57	747.39	699.57	699.12	699.06	689.13
629	31.350	812.57	747.39	699.43	698.98	698.92	688.97
630	31.400	812.57	747.39	699.29	698.85	698.78	688.80
631	31.450	812.57	747.39	699.16	698.71	698.65	688.64
632	31.500	812.57	747.39	699.02	698.58	698.51	688.48
633	31.550	812.57	747.39	698.88	698.44	698.38	688.32
634	31.600	812.57	747.39	698.75	698.31	698.25	688.17
635	31.650	812.57	747.39	698.62	698.18	698.11	688.01
636	31.700	812.57	747.39	698.49	698.05	697.98	687.86
637	31.750	812.57	747.39	698.35	697.92	697.86	687.70
638	31.800	812.57	747.39	698.22	697.79	697.73	687.55
639	31.850	812.57	747.39	698.10	697.66	697.60	687.40
640	31.900	812.57	747.39	697.97	697.54	697.48	687.26
641	31.950	812.57	747.39	697.84	697.41	697.35	687.11
642	32.000	812.57	747.39	697.72	697.29	697.23	686.96
643	32.050	812.57	747.39	697.60	697.17	697.11	686.82
644	32.100	812.57	747.39	697.47	697.05	696.99	686.68
645	32.150	812.57	747.39	697.35	696.93	696.87	686.54
646	32.200	812.57	747.39	697.23	696.81	696.75	686.40
647	32.250	812.57	747.39	697.11	696.69	696.63	686.26
648	32.300	812.57	747.39	697.00	696.58	696.51	686.13
649	32.350	812.57	747.39	696.88	696.46	696.40	685.99
650	32.400	812.57	747.39	696.76	696.35	696.29	685.86
651	32.450	812.57	747.39	696.65	696.24	696.17	685.73
652	32.500	812.57	747.39	696.54	696.12	696.06	685.60
653	32.550	812.57	747.39	696.42	696.01	695.95	685.47
654	32.600	812.57	747.39	696.31	695.90	695.84	685.34
655	32.650	812.57	747.39	696.20	695.80	695.73	685.22
656	32.700	812.57	747.39	696.09	695.69	695.63	685.09
657	32.750	812.57	747.39	695.99	695.58	695.52	684.97
658	32.800	812.57	747.39	695.88	695.48	695.42	684.85
659	32.850	812.57	747.39	695.78	695.37	695.31	684.73
660	32.900	812.57	747.39	695.67	695.27	695.21	684.61
661	32.950	812.57	747.39	695.57	695.17	695.11	684.49
662	33.000	812.57	747.39	695.47	695.07	695.01	684.37
663	33.050	812.57	747.39	695.36	694.97	694.91	684.26
664	33.100	812.57	747.39	695.26	694.87	694.81	684.15
665	33.150	812.57	747.39	695.17	694.77	694.71	684.03
666	33.200	812.57	747.39	695.07	694.68	694.62	683.92
667	33.250	812.57	747.39	694.97	694.58	694.52	683.81
668	33.300	812.57	747.39	694.88	694.49	694.43	683.71
669	33.350	812.57	747.39	694.78	694.40	694.34	683.60
670	33.400	812.57	747.39	694.69	694.30	694.24	683.49
671	33.450	812.57	747.39	694.59	694.21	694.15	683.39
672	33.500	812.57	747.39	694.50	694.12	694.06	683.29
673	33.550	812.57	747.39	694.41	694.03	693.97	683.19
674	33.600	812.57	747.39	694.32	693.94	693.89	683.09
675	33.650	812.57	747.39	694.23	693.86	693.80	682.99
676	33.700	812.57	747.39	694.15	693.77	693.71	682.89
677	33.750	812.57	747.39	694.06	693.69	693.63	682.79
678	33.800	812.57	747.39	693.97	693.60	693.54	682.70
679	33.850	812.57	747.39	693.89	693.52	693.46	682.60
680	33.900	812.57	747.39	693.81	693.44	693.38	682.51
681	33.950	812.57	747.39	693.72	693.36	693.30	682.42
682	34.000	812.57	747.39	693.64	693.27	693.22	682.33
683	34.050	812.57	747.39	693.56	693.20	693.14	682.24
684	34.100	812.57	747.39	693.48	693.12	693.06	682.15
685	34.150	812.57	747.39	693.40	693.04	692.98	682.06
686	34.200	812.57	747.39	693.32	692.96	692.90	681.97
687	34.250	812.57	747.39	693.25	692.89	692.83	681.89
688	34.300	812.57	747.39	693.17	692.81	692.75	681.80
689	34.350	812.57	747.39	693.09	692.74	692.68	681.72
690	34.400	812.57	747.39	693.02	692.66	692.61	681.64
691	34.450	812.57	747.39	692.94	692.59	692.53	681.56
692	34.500	812.57	747.39	692.87	692.52	692.46	681.48
693	34.550	812.57	747.39	692.80	692.45	692.39	681.40
694	34.600	812.57	747.39	692.73	692.38	692.32	681.32
695	34.650	812.57	747.39	692.66	692.31	692.25	681.25
696	34.700	812.57	747.39	692.59	692.24	692.18	681.17
697	34.750	812.57	747.39	692.52	692.18	692.12	681.10
698	34.800	812.57	747.39	692.45	692.11	692.05	681.02
699	34.850	812.57	747.39	692.38	692.04	691.99	680.95
700	34.900	812.57	747.39	692.32	691.98	691.92	680.88
701	34.950	812.57	747.39	692.25	691.91	691.86	680.81
702	35.000	812.57	747.39	692.19	691.85	691.79	680.74
703	35.050	812.57	747.39	692.12	691.79	691.73	680.67
704	35.100	812.57	747.39	692.06	691.73	691.67	680.60
705	35.150	812.57	747.39	692.00	691.66	691.61	680.53
706	35.200	812.57	747.39	691.94	691.60	691.55	680.46
707	35.250	812.57	747.39	691.88	691.54	691.49	680.40
708	35.300	812.57	747.39	691.82	691.49	691.43	680.33
709	35.350	812.57	747.39	691.76	691.43	691.37	680.27

710	35.400	812.57	747.39	691.70	691.37	691.31	680.21
711	35.450	812.57	747.39	691.64	691.31	691.26	680.14
712	35.500	812.57	747.39	691.58	691.26	691.20	680.08
713	35.550	812.57	747.39	691.52	691.20	691.15	680.02
714	35.600	812.57	747.39	691.47	691.15	691.09	679.96
715	35.650	812.57	747.39	691.41	691.09	691.04	679.90
716	35.700	812.57	747.39	691.36	691.04	690.98	679.84
717	35.750	812.57	747.39	691.30	690.99	690.93	679.79
718	35.800	812.57	747.39	691.25	690.93	690.88	679.73
719	35.850	812.57	747.39	691.20	690.88	690.83	679.67
720	35.900	812.57	747.39	691.15	690.83	690.78	679.62
721	35.950	812.57	747.39	691.10	690.78	690.73	679.56
722	36.000	812.57	747.39	691.04	690.73	690.68	679.51
723	36.050	812.57	747.39	690.99	690.68	690.63	679.45
724	36.100	812.57	747.39	690.94	690.63	690.58	679.40
725	36.150	812.57	747.39	690.90	690.59	690.53	679.35
726	36.200	812.57	747.39	690.85	690.54	690.48	679.30
727	36.250	812.57	747.39	690.80	690.49	690.44	679.25
728	36.300	812.57	747.39	690.75	690.45	690.39	679.19
729	36.350	812.57	747.39	690.71	690.40	690.35	679.14
730	36.400	812.57	747.39	690.66	690.36	690.30	679.10
731	36.450	812.57	747.39	690.61	690.31	690.26	679.05
732	36.500	812.57	747.39	690.57	690.27	690.21	679.00
733	36.550	812.57	747.39	690.52	690.22	690.17	678.95
734	36.600	812.57	747.39	690.48	690.18	690.13	678.90
735	36.650	812.57	747.39	690.44	690.14	690.09	678.86
736	36.700	812.57	747.39	690.39	690.10	690.04	678.81
737	36.750	812.57	747.39	690.35	690.06	690.00	678.77
738	36.800	812.57	747.39	690.31	690.02	689.96	678.72
739	36.850	812.57	747.39	690.27	689.98	689.92	678.68
740	36.900	812.57	747.39	690.23	689.94	689.88	678.63
741	36.950	812.57	747.39	690.19	689.90	689.84	678.59
742	37.000	812.57	747.39	690.15	689.86	689.80	678.55
743	37.050	812.57	747.39	690.11	689.82	689.77	678.51
744	37.100	812.57	747.39	690.07	689.78	689.73	678.46
745	37.150	812.57	747.39	690.03	689.74	689.69	678.42
746	37.200	812.57	747.39	689.99	689.71	689.65	678.38
747	37.250	812.57	747.39	689.96	689.67	689.62	678.34
748	37.300	812.57	747.39	689.92	689.63	689.58	678.30
749	37.350	812.57	747.39	689.88	689.60	689.55	678.26
750	37.400	812.57	747.39	689.84	689.56	689.51	678.22
751	37.450	812.57	747.39	689.81	689.53	689.48	678.19
752	37.500	812.57	747.39	689.77	689.49	689.44	678.15
753	37.550	812.57	747.39	689.74	689.46	689.41	678.11
754	37.600	812.57	747.39	689.70	689.43	689.37	678.07
755	37.650	812.57	747.39	689.67	689.39	689.34	678.03
756	37.700	812.57	747.39	689.64	689.36	689.31	678.00
757	37.750	812.57	747.39	689.60	689.33	689.28	677.96
758	37.800	812.57	747.39	689.57	689.30	689.24	677.93
759	37.850	812.57	747.39	689.54	689.27	689.21	677.89
760	37.900	812.57	747.39	689.50	689.23	689.18	677.86
761	37.950	812.57	747.39	689.47	689.20	689.15	677.82
762	38.000	812.57	747.39	689.44	689.17	689.12	677.79
763	38.050	812.57	747.39	689.41	689.14	689.09	677.75
764	38.100	812.57	747.39	689.38	689.11	689.06	677.72
765	38.150	812.57	747.39	689.35	689.08	689.03	677.68
766	38.200	812.57	747.39	689.32	689.05	689.00	677.65
767	38.250	812.57	747.39	689.29	689.02	688.97	677.62
768	38.300	812.57	747.39	689.26	689.00	688.94	677.59
769	38.350	812.57	747.39	689.23	688.97	688.92	677.55
770	38.400	812.57	747.39	689.20	688.94	688.89	677.52
771	38.450	812.57	747.39	689.17	688.91	688.86	677.49
772	38.500	812.57	747.39	689.15	688.89	688.83	677.46
773	38.550	812.57	747.39	689.12	688.86	688.81	677.43
774	38.600	812.57	747.39	689.09	688.83	688.78	677.40
775	38.650	812.57	747.39	689.06	688.81	688.75	677.37
776	38.700	812.57	747.39	689.04	688.78	688.73	677.34
777	38.750	812.57	747.39	689.01	688.75	688.70	677.31
778	38.800	812.57	747.39	688.98	688.73	688.68	677.28
779	38.850	812.57	747.39	688.96	688.70	688.65	677.25
780	38.900	812.57	747.39	688.93	688.68	688.63	677.22
781	38.950	812.57	747.39	688.91	688.65	688.60	677.19
782	39.000	812.57	747.39	688.88	688.63	688.58	677.16
783	39.050	812.57	747.39	688.86	688.61	688.55	677.14
784	39.100	812.57	747.39	688.83	688.58	688.53	677.11
785	39.150	812.57	747.39	688.81	688.56	688.51	677.08
786	39.200	812.57	747.39	688.78	688.53	688.48	677.05
787	39.250	812.57	747.39	688.76	688.51	688.46	677.03
788	39.300	812.57	747.39	688.73	688.49	688.44	677.00
789	39.350	812.57	747.39	688.71	688.47	688.41	676.97
790	39.400	812.57	747.39	688.69	688.44	688.39	676.94
791	39.450	812.57	747.39	688.67	688.42	688.37	676.92
792	39.500	812.57	747.39	688.64	688.40	688.35	676.89
793	39.550	812.57	747.39	688.62	688.38	688.33	676.87
794	39.600	812.57	747.39	688.60	688.36	688.31	676.84
795	39.650	812.57	747.39	688.58	688.34	688.28	676.82
796	39.700	812.57	747.39	688.55	688.31	688.26	676.79
797	39.750	812.57	747.39	688.53	688.29	688.24	676.77
798	39.800	812.57	747.39	688.51	688.27	688.22	676.74
799	39.850	812.57	747.39	688.49	688.25	688.20	676.72
800	39.900	812.57	747.39	688.47	688.23	688.18	676.69
801	39.950	812.57	747.39	688.45	688.21	688.16	676.67
802	40.000	812.57	747.39	688.43	688.19	688.14	676.64
803	40.050	812.57	747.39	688.41	688.17	688.12	676.62
804	40.100	812.57	747.39	688.39	688.15	688.10	676.60

805	40.150	812.57	747.39	688.37	688.13	688.08	676.57
806	40.200	812.57	747.39	688.35	688.12	688.07	676.55
807	40.250	812.57	747.39	688.33	688.10	688.05	676.53
808	40.300	812.57	747.39	688.31	688.08	688.03	676.50
809	40.350	812.57	747.39	688.29	688.06	688.01	676.48
810	40.400	812.57	747.39	688.27	688.04	687.99	676.46
811	40.450	812.57	747.39	688.25	688.02	687.97	676.43
812	40.500	812.57	747.39	688.23	688.01	687.96	676.41
813	40.550	812.57	747.39	688.22	687.99	687.94	676.39
814	40.600	812.57	747.39	688.20	687.97	687.92	676.37
815	40.650	812.57	747.39	688.18	687.95	687.90	676.35
816	40.700	812.57	747.39	688.16	687.94	687.89	676.32
817	40.750	812.57	747.39	688.14	687.92	687.87	676.30
818	40.800	812.57	747.39	688.13	687.90	687.85	676.28
819	40.850	812.57	747.39	688.11	687.89	687.84	676.26
820	40.900	812.57	747.39	688.09	687.87	687.82	676.24
821	40.950	812.57	747.39	688.08	687.85	687.80	676.22
822	41.000	812.57	747.39	688.06	687.84	687.79	676.20
823	41.050	812.57	747.39	688.04	687.82	687.77	676.18
824	41.100	812.57	747.39	688.03	687.81	687.76	676.16
825	41.150	812.57	747.39	688.01	687.79	687.74	676.14
826	41.200	812.57	747.39	687.99	687.77	687.72	676.12
827	41.250	812.57	747.39	687.98	687.76	687.71	676.10
828	41.300	812.57	747.39	687.96	687.74	687.69	676.08
829	41.350	812.57	747.39	687.95	687.73	687.68	676.06
830	41.400	812.57	747.39	687.93	687.71	687.66	676.04
831	41.450	812.57	747.39	687.91	687.70	687.65	676.02
832	41.500	812.57	747.39	687.90	687.68	687.63	676.00
833	41.550	812.57	747.39	687.88	687.67	687.62	675.98
834	41.600	812.57	747.39	687.87	687.65	687.60	675.96
835	41.650	812.57	747.39	687.85	687.64	687.59	675.94
836	41.700	812.57	747.39	687.84	687.63	687.58	675.92
837	41.750	812.57	747.39	687.82	687.61	687.56	675.90
838	41.800	812.57	747.39	687.81	687.60	687.55	675.89
839	41.850	812.57	747.39	687.79	687.59	687.53	675.87
840	41.900	812.57	747.39	687.78	687.57	687.52	675.85
841	41.950	812.57	747.39	687.77	687.56	687.51	675.83
842	42.000	812.57	747.39	687.75	687.54	687.49	675.81
843	42.050	812.57	747.39	687.74	687.53	687.48	675.79
844	42.100	812.57	747.39	687.72	687.52	687.47	675.78
845	42.150	812.57	747.39	687.71	687.50	687.45	675.76
846	42.200	812.57	747.39	687.70	687.49	687.44	675.74
847	42.250	812.57	747.39	687.68	687.48	687.43	675.72
848	42.300	812.57	747.39	687.67	687.46	687.41	675.71
849	42.350	812.57	747.39	687.66	687.45	687.40	675.69
850	42.400	812.57	747.39	687.64	687.44	687.39	675.67
851	42.450	812.57	747.39	687.63	687.43	687.38	675.65
852	42.500	812.57	747.39	687.62	687.41	687.36	675.64
853	42.550	812.57	747.39	687.60	687.40	687.35	675.62
854	42.600	812.57	747.39	687.59	687.39	687.34	675.60
855	42.650	812.57	747.39	687.58	687.38	687.33	675.59
856	42.700	812.57	747.39	687.57	687.37	687.32	675.57
857	42.750	812.57	747.39	687.55	687.35	687.30	675.55
858	42.800	812.57	747.39	687.54	687.34	687.29	675.54
859	42.850	812.57	747.39	687.53	687.33	687.28	675.52
860	42.900	812.57	747.39	687.52	687.32	687.27	675.51
861	42.950	812.57	747.39	687.51	687.31	687.26	675.49
862	43.000	812.57	747.39	687.49	687.30	687.25	675.47
863	43.050	812.57	747.39	687.48	687.28	687.24	675.46
864	43.100	812.57	747.39	687.47	687.27	687.22	675.44
865	43.150	812.57	747.39	687.46	687.26	687.21	675.43
866	43.200	812.57	747.39	687.45	687.25	687.20	675.41
867	43.250	812.57	747.39	687.44	687.24	687.19	675.39
868	43.300	812.57	747.39	687.42	687.23	687.18	675.38
869	43.350	812.57	747.39	687.41	687.22	687.17	675.36
870	43.400	812.57	747.39	687.40	687.21	687.16	675.35
871	43.450	812.57	747.39	687.39	687.20	687.15	675.33
872	43.500	812.57	747.39	687.38	687.19	687.14	675.32
873	43.550	812.57	747.39	687.37	687.18	687.13	675.30
874	43.600	812.57	747.39	687.36	687.17	687.12	675.29
875	43.650	812.57	747.39	687.35	687.16	687.11	675.27
876	43.700	812.57	747.39	687.34	687.15	687.10	675.26
877	43.750	812.57	747.39	687.33	687.13	687.09	675.24
878	43.800	812.57	747.39	687.32	687.12	687.08	675.23
879	43.850	812.57	747.39	687.31	687.11	687.07	675.22
880	43.900	812.57	747.39	687.30	687.11	687.06	675.20
881	43.950	812.57	747.39	687.28	687.10	687.05	675.19
882	44.000	812.57	747.39	687.27	687.09	687.04	675.17
883	44.050	812.57	747.39	687.26	687.08	687.03	675.16
884	44.100	812.57	747.39	687.25	687.07	687.02	675.14
885	44.150	812.57	747.39	687.24	687.06	687.01	675.13
886	44.200	812.57	747.39	687.23	687.05	687.00	675.12
887	44.250	812.57	747.39	687.22	687.04	686.99	675.10
888	44.300	812.57	747.39	687.22	687.03	686.98	675.09
889	44.350	812.57	747.39	687.21	687.02	686.97	675.07
890	44.400	812.57	747.39	687.20	687.01	686.96	675.06
891	44.450	812.57	747.39	687.19	687.00	686.95	675.05
892	44.500	812.57	747.39	687.18	686.99	686.94	675.03
893	44.550	812.57	747.39	687.17	686.98	686.93	675.02
894	44.600	812.57	747.39	687.16	686.97	686.93	675.01
895	44.650	812.57	747.39	687.15	686.97	686.92	674.99
896	44.700	812.57	747.39	687.14	686.96	686.91	674.98
897	44.750	812.57	747.39	687.13	686.95	686.90	674.97
898	44.800	812.57	747.39	687.12	686.94	686.89	674.95
899	44.850	812.57	747.39	687.11	686.93	686.88	674.94

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900	44.900	812.57	747.39	687.10	686.92	686.87	674.93
901	44.950	812.57	747.39	687.09	686.91	686.87	674.92
902	45.000	812.57	747.39	687.09	686.91	686.86	674.90
903	45.050	812.57	747.39	687.08	686.90	686.85	674.89
904	45.100	812.57	747.39	687.07	686.89	686.84	674.88
905	45.150	812.57	747.39	687.06	686.88	686.83	674.87
906	45.200	812.57	747.39	687.05	686.87	686.82	674.85
907	45.250	812.57	747.39	687.04	686.86	686.82	674.84
908	45.300	812.57	747.39	687.03	686.86	686.81	674.83
909	45.350	812.57	747.39	687.03	686.85	686.80	674.82
910	45.400	812.57	747.39	687.02	686.84	686.79	674.80
911	45.450	812.57	747.39	687.01	686.83	686.76	674.79
912	45.500	812.57	747.39	687.00	686.82	686.78	674.78
913	45.550	812.57	747.39	686.99	686.82	686.77	674.77
914	45.600	812.57	747.39	686.99	686.81	686.76	674.76
915	45.650	812.57	747.39	686.98	686.80	686.75	674.74
916	45.700	812.57	747.39	686.97	686.79	686.75	674.73
917	45.750	812.57	747.39	686.96	686.79	686.74	674.72
918	45.800	812.57	747.39	686.95	686.78	686.73	674.71
919	45.850	812.57	747.39	686.95	686.77	686.72	674.70
920	45.900	812.57	747.39	686.94	686.76	686.72	674.68
921	45.950	812.57	747.39	686.93	686.76	686.71	674.67
922	46.000	812.57	747.39	686.92	686.75	686.70	674.66
923	46.050	812.57	747.39	686.92	686.74	686.69	674.65
924	46.100	812.57	747.39	686.91	686.74	686.69	674.64
925	46.150	812.57	747.39	686.90	686.73	686.68	674.63
926	46.200	812.57	747.39	686.89	686.72	686.67	674.62
927	46.250	812.57	747.39	686.89	686.71	686.67	674.60
928	46.300	812.57	747.39	686.88	686.71	686.66	674.59
929	46.350	812.57	747.39	686.87	686.70	686.65	674.58
930	46.400	812.57	747.39	686.86	686.69	686.65	674.57
931	46.450	812.57	747.39	686.86	686.69	686.64	674.56
932	46.500	812.57	747.39	686.85	686.68	686.63	674.55
933	46.550	812.57	747.39	686.84	686.67	686.63	674.54
934	46.600	812.57	747.39	686.83	686.67	686.62	674.53
935	46.650	812.57	747.39	686.83	686.66	686.61	674.52
936	46.700	812.57	747.39	686.82	686.65	686.61	674.51
937	46.750	812.57	747.39	686.81	686.65	686.60	674.50
938	46.800	812.57	747.39	686.81	686.64	686.59	674.48
939	46.850	812.57	747.39	686.80	686.63	686.59	674.47
940	46.900	812.57	747.39	686.79	686.63	686.58	674.46
941	46.950	812.57	747.39	686.79	686.62	686.57	674.45
942	47.000	812.57	747.39	686.78	686.61	686.57	674.44
943	47.050	812.57	747.39	686.77	686.61	686.56	674.43
944	47.100	812.57	747.39	686.77	686.60	686.55	674.42
945	47.150	812.57	747.39	686.76	686.59	686.55	674.41
946	47.200	812.57	747.39	686.75	686.59	686.54	674.40
947	47.250	812.57	747.39	686.75	686.58	686.54	674.39
948	47.300	812.57	747.39	686.74	686.58	686.53	674.38
949	47.350	812.57	747.39	686.73	686.57	686.52	674.37
950	47.400	812.57	747.39	686.73	686.56	686.52	674.36
951	47.450	812.57	747.39	686.72	686.56	686.51	674.35
952	47.500	812.57	747.39	686.72	686.55	686.51	674.34
953	47.550	812.57	747.39	686.71	686.55	686.50	674.33
954	47.600	812.57	747.39	686.70	686.54	686.49	674.32
955	47.650	812.57	747.39	686.70	686.53	686.49	674.31
956	47.700	812.57	747.39	686.69	686.53	686.48	674.30
957	47.750	812.57	747.39	686.68	686.52	686.48	674.29
958	47.800	812.57	747.39	686.68	686.52	686.47	674.28
959	47.850	812.57	747.39	686.67	686.51	686.46	674.27
960	47.900	812.57	747.39	686.67	686.51	686.46	674.26
961	47.950	812.57	747.39	686.66	686.50	686.45	674.25
962	48.000	812.57	747.39	686.66	686.49	686.45	674.24
963	48.050	812.57	747.39	686.65	686.49	686.44	674.23
964	48.100	812.57	747.39	686.64	686.48	686.44	674.22
965	48.150	812.57	747.39	686.64	686.48	686.43	674.21
966	48.200	812.57	747.39	686.63	686.47	686.43	674.21
967	48.250	812.57	747.39	686.63	686.47	686.42	674.20
968	48.300	812.57	747.39	686.62	686.46	686.42	674.19
969	48.350	812.57	747.39	686.61	686.46	686.41	674.18
970	48.400	812.57	747.39	686.61	686.45	686.40	674.17
971	48.450	812.57	747.39	686.60	686.45	686.40	674.16
972	48.500	812.57	747.39	686.60	686.44	686.39	674.15
973	48.550	812.57	747.39	686.59	686.44	686.39	674.14
974	48.600	812.57	747.39	686.59	686.43	686.38	674.13
975	48.650	812.57	747.39	686.58	686.43	686.38	674.12
976	48.700	812.57	747.39	686.58	686.42	686.37	674.11
977	48.750	812.57	747.39	686.57	686.41	686.37	674.10
978	48.800	812.57	747.39	686.57	686.41	686.36	674.10
979	48.850	812.57	747.39	686.56	686.40	686.36	674.09
980	48.900	812.57	747.39	686.56	686.40	686.35	674.08
981	48.950	812.57	747.39	686.55	686.39	686.35	674.07
982	49.000	812.57	747.39	686.54	686.39	686.34	674.06
983	49.050	812.57	747.39	686.54	686.38	686.34	674.05
984	49.100	812.57	747.39	686.53	686.38	686.33	674.04
985	49.150	812.57	747.39	686.53	686.38	686.33	674.03
986	49.200	812.57	747.39	686.52	686.37	686.32	674.03
987	49.250	812.57	747.39	686.52	686.37	686.32	674.02
988	49.300	812.57	747.39	686.51	686.36	686.31	674.01
989	49.350	812.57	747.39	686.51	686.36	686.31	674.00
990	49.400	812.57	747.39	686.50	686.35	686.30	673.99
991	49.450	812.57	747.39	686.50	686.35	686.30	673.98
992	49.500	812.57	747.39	686.49	686.34	686.30	673.97
993	49.550	812.57	747.39	686.49	686.34	686.29	673.97
994	49.600	812.57	747.39	686.48	686.33	686.29	673.96

995	49.650	812.57	747.39	686.48	686.33	686.28	673.95
996	49.700	812.57	747.39	686.47	686.32	686.28	673.94
997	49.750	812.57	747.39	686.47	686.32	686.27	673.93
998	49.800	812.57	747.39	686.47	686.31	686.27	673.92
999	49.850	812.57	747.39	686.46	686.31	686.26	673.92
1000	49.900	812.57	747.39	686.46	686.31	686.26	673.91
1001	49.950	812.57	747.39	686.45	686.30	686.25	673.90

K	TTP(K)	OC(K,1), T=1, MTT)					
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1	.000	26.60	26.62	57.09	28.18	19.50	19.50
2	.050	26.60	26.60	60.65	13.61	19.50	19.50
3	.100	26.60	26.59	58.33	23.50	19.50	19.50
4	.150	26.60	26.60	59.06	17.28	19.50	19.50
5	.200	26.60	26.61	56.71	20.81	19.50	19.50
6	.250	26.60	26.62	56.70	18.83	19.50	19.50
7	.300	26.60	26.72	54.11	19.71	19.50	19.50
8	.350	26.60	26.95	52.69	19.18	19.50	19.50
9	.400	26.60	27.51	49.64	19.23	19.50	19.50
10	.450	26.75	28.58	47.30	19.14	19.50	19.50
11	.500	28.00	30.41	45.06	19.18	19.50	19.50
12	.550	30.39	33.18	44.15	19.39	19.50	19.50
13	.600	34.03	36.56	44.11	19.56	19.50	19.50
14	.650	39.04	39.81	44.53	19.70	19.50	19.50
15	.700	45.53	42.87	44.63	19.66	19.50	19.50
16	.750	53.61	46.94	44.26	19.58	19.50	19.50
17	.800	63.38	53.65	43.58	19.50	19.50	19.50
18	.850	74.93	63.81	42.87	19.48	19.50	19.50
19	.900	88.34	76.86	42.20	19.47	19.50	19.50
20	.950	103.68	91.55	41.47	19.46	19.50	19.50
21	1.000	121.04	107.24	40.65	19.43	19.50	19.50
22	1.050	139.14	123.96	39.88	19.43	19.50	19.50
23	1.100	159.27	141.73	39.34	19.46	19.50	19.50
24	1.150	181.78	160.94	39.15	19.53	19.50	19.50
25	1.200	206.43	182.32	39.42	19.64	19.50	19.50
26	1.250	233.35	206.08	40.31	19.77	19.50	19.50
27	1.300	262.58	232.24	41.93	19.94	19.50	19.50
28	1.350	294.14	261.02	44.45	20.13	19.50	19.50
29	1.400	328.06	292.42	48.05	20.34	19.50	19.50
30	1.450	364.35	326.32	55.47	24.92	24.27	24.27
31	1.500	403.03	362.59	69.52	36.81	36.26	36.26
32	1.550	444.10	401.07	87.52	51.60	50.80	50.80
33	1.600	487.56	441.64	107.59	68.03	67.22	67.22
34	1.650	533.41	484.20	128.82	84.03	82.85	82.85
35	1.700	581.62	528.76	151.76	101.15	100.02	100.02
36	1.750	632.19	575.39	177.45	119.68	118.23	118.23
37	1.800	685.08	624.06	195.74	121.86	118.82	118.82
38	1.850	740.27	674.84	210.69	121.53	119.41	119.41
39	1.900	797.73	727.73	229.22	122.91	120.03	120.03
40	1.950	857.41	782.69	247.51	123.14	120.65	120.65
41	2.000	919.27	839.71	266.43	124.04	121.29	121.29
42	2.050	984.58	899.05	285.45	124.53	121.92	121.92
43	2.100	1051.94	961.06	304.83	125.41	122.68	122.68
44	2.150	1121.30	1025.27	325.23	126.45	123.67	123.67
45	2.200	1192.58	1091.12	346.95	127.69	124.71	124.71
46	2.250	1265.71	1158.68	370.52	128.99	125.81	125.81
47	2.300	1340.62	1227.91	396.12	130.41	126.99	126.99
48	2.350	1417.22	1298.72	423.75	131.90	128.26	128.26
49	2.400	1495.42	1371.06	453.00	133.46	129.59	129.59
50	2.450	1575.14	1444.86	483.43	135.02	131.00	131.00
51	2.500	1656.28	1520.11	514.39	136.62	132.46	132.46
52	2.550	1738.75	1596.72	545.62	138.22	133.96	133.96
53	2.600	1822.43	1674.54	577.01	139.88	135.50	135.50
54	2.650	1907.23	1752.80	608.64	141.58	137.08	137.08
55	2.700	1993.04	1831.04	640.54	143.34	138.71	138.71
56	2.750	2079.75	1909.54	672.66	145.15	140.39	140.39
57	2.800	2167.24	1988.78	704.95	147.00	142.12	142.12
58	2.850	2255.40	2069.08	737.43	148.91	143.89	143.89
59	2.900	2344.11	2150.54	770.08	150.87	145.71	145.71
60	2.950	2433.25	2233.20	802.81	152.86	147.58	147.58
61	3.000	2522.69	2316.79	835.45	154.90	149.49	149.49
62	3.050	2612.32	2400.70	867.79	156.95	151.45	151.45
63	3.100	2702.01	2484.50	899.61	159.02	153.43	153.43
64	3.150	2791.59	2568.17	930.84	161.12	155.44	155.44
65	3.200	2880.91	2651.80	961.60	163.26	157.49	157.49
66	3.250	2969.82	2735.61	992.22	165.46	159.57	159.57
67	3.300	3058.21	2820.80	1026.06	167.29	161.62	161.62
68	3.350	3145.92	2906.53	1060.32	169.77	163.72	163.72
69	3.400	3232.81	2991.06	1093.20	172.03	165.89	165.89
70	3.450	3318.74	3075.67	1126.23	174.26	168.09	168.09
71	3.500	3403.56	3158.74	1158.71	176.66	170.32	170.32
72	3.550	3487.13	3240.33	1190.87	178.96	172.58	172.58
73	3.600	3569.30	3321.12	1222.75	181.41	174.88	174.88
74	3.650	3649.93	3400.05	1254.23	183.80	177.22	177.22
75	3.700	3728.87	3477.75	1285.01	186.25	179.58	179.58
76	3.750	3805.97	3553.84	1314.79	188.66	181.96	181.96
77	3.800	3881.09	3627.67	1343.42	191.09	184.35	184.35
78	3.850	3954.08	3700.00	1370.94	193.53	186.75	186.75
79	3.900	4024.79	3770.23	1397.42	195.97	189.16	189.16

80	3.950	4093.08	3837.93	1422.89	198.43	191.59	191.59
81	4.000	4158.79	3903.58	1447.65	201.59	194.76	194.76
82	4.050	4237.45	3966.77	1474.95	212.62	206.19	206.19
83	4.100	3919.70	3811.75	1505.57	229.64	223.11	223.11
84	4.150	3805.44	3700.78	1538.34	251.14	244.83	244.83
85	4.200	3694.54	3607.83	1573.75	277.60	271.29	271.29
86	4.250	3586.91	3510.53	1611.25	308.49	302.35	302.35
87	4.300	3482.46	3419.63	1650.23	343.88	337.87	337.87
88	4.350	3381.07	3335.23	1689.37	383.27	377.54	377.54
89	4.400	3282.65	3253.26	1726.86	426.20	420.81	420.81
90	4.450	3187.12	3174.32	1761.59	471.88	466.98	466.98
91	4.500	3094.37	3094.84	1800.35	517.11	513.37	513.37
92	4.550	3004.33	3015.18	1829.92	569.31	564.76	564.76
93	4.600	2916.91	2936.02	1861.73	619.95	616.71	616.71
94	4.650	2832.03	2858.34	1893.23	676.45	672.62	672.62
95	4.700	2749.61	2782.94	1926.24	735.13	732.17	732.17
96	4.750	2669.58	2709.73	1959.02	798.02	794.99	794.99
97	4.800	2591.85	2638.63	1992.09	863.66	861.22	861.22
98	4.850	2516.37	2569.54	2025.26	932.85	930.59	930.59
99	4.900	2443.06	2502.54	2059.00	1005.15	1003.32	1003.32
100	4.950	2371.87	2437.62	2093.37	1080.81	1079.27	1079.27
101	5.000	2302.71	2374.67	2128.54	1159.68	1158.52	1158.52
102	5.050	2235.54	2313.51	2164.49	1241.77	1240.97	1240.97
103	5.100	2170.29	2254.05	2203.32	1327.63	1327.45	1327.45
104	5.150	2106.90	2196.34	2244.16	1416.64	1416.76	1416.76
105	5.200	2045.33	2140.37	2284.22	1509.37	1509.81	1509.81
106	5.250	1985.51	2085.99	2325.97	1604.66	1605.64	1605.64
107	5.300	1927.40	2033.01	2368.47	1703.37	1704.65	1704.65
108	5.350	1870.94	1981.21	2412.19	1804.78	1806.61	1806.61
109	5.400	1816.08	1930.45	2456.92	1909.24	1911.48	1911.48
110	5.450	1762.79	1880.72	2502.95	2016.40	2019.18	2019.18
111	5.500	1711.01	1831.98	2550.51	2126.40	2129.67	2129.67
112	5.550	1660.71	1784.22	2599.96	2239.08	2242.92	2242.92
113	5.600	1611.82	1737.55	2651.60	2354.40	2358.83	2358.83
114	5.650	1564.33	1691.99	2705.94	2472.19	2477.27	2477.27
115	5.700	1518.18	1647.49	2763.73	2592.32	2598.12	2598.12
116	5.750	1473.33	1604.15	2825.89	2714.23	2720.88	2720.88
117	5.800	1429.76	1561.92	2893.75	2837.31	2844.97	2844.97
118	5.850	1387.41	1520.72	2967.66	2955.64	2964.03	2964.03
119	5.900	1346.26	1480.60	3043.23	3056.39	3064.88	3064.88
120	5.950	1306.27	1441.49	3079.90	3140.86	3146.41	3146.41
121	6.000	1267.40	1403.32	3069.26	3204.04	3207.94	3207.94
122	6.050	1229.64	1366.08	3045.19	3233.10	3236.38	3236.38
123	6.100	1192.93	1329.73	2994.79	3152.76	3148.40	3148.40
124	6.150	1157.26	1294.30	2919.37	3054.31	3055.74	3055.74
125	6.200	1122.59	1259.87	2845.18	2968.23	2968.44	2968.44
126	6.250	1088.90	1226.36	2763.49	2876.59	2877.38	2877.38
127	6.300	1056.16	1193.76	2677.63	2781.02	2790.75	2790.75
128	6.350	1024.34	1161.91	2589.28	2705.69	2706.57	2706.57
129	6.400	993.44	1130.77	2498.73	2624.97	2625.63	2625.63
130	6.450	963.43	1100.33	2409.07	2547.65	2548.85	2548.85
131	6.500	934.29	1070.63	2321.81	2475.77	2476.97	2476.97
132	6.550	906.00	1041.83	2240.03	2409.50	2410.87	2410.87
133	6.600	878.52	1013.98	2164.96	2349.60	2350.94	2350.94
134	6.650	851.85	987.12	2097.62	2295.93	2297.29	2297.29
135	6.700	825.94	961.24	2037.78	2248.23	2249.54	2249.54
136	6.750	800.78	936.15	1984.90	2205.95	2207.25	2207.25
137	6.800	776.36	911.78	1937.65	2168.39	2169.69	2169.69
138	6.850	752.64	887.96	1894.73	2134.78	2136.11	2136.11
139	6.900	729.60	864.74	1854.98	2104.31	2105.67	2105.67
140	6.950	707.24	842.19	1817.76	2076.54	2077.96	2077.96
141	7.000	685.57	820.33	1782.68	2051.09	2052.56	2052.56
142	7.050	664.44	798.84	1749.51	2027.96	2029.50	2029.50
143	7.100	643.96	777.67	1717.95	2006.71	2008.29	2008.29
144	7.150	624.08	756.22	1687.60	1987.06	1988.71	1988.71
145	7.200	604.78	734.39	1658.07	1968.79	1970.52	1970.52
146	7.250	586.04	712.18	1628.97	1951.65	1953.46	1953.46
147	7.300	567.85	689.84	1600.01	1935.46	1937.37	1937.37
148	7.350	550.18	667.78	1570.96	1920.06	1922.06	1922.06
149	7.400	533.03	646.33	1541.67	1905.26	1907.37	1907.37
150	7.450	516.38	625.59	1512.07	1890.99	1893.19	1893.19
151	7.500	500.21	605.39	1482.18	1877.12	1879.42	1879.42
152	7.550	484.52	585.51	1452.03	1863.61	1866.01	1866.01
153	7.600	469.29	565.91	1421.72	1850.41	1852.90	1852.90
154	7.650	454.50	546.68	1392.80	1836.82	1839.51	1839.51
155	7.700	440.15	527.98	1363.61	1823.90	1826.56	1826.56
156	7.750	426.22	509.91	1334.38	1811.21	1814.00	1814.00
157	7.800	412.70	492.35	1305.59	1798.78	1801.62	1801.62
158	7.850	399.58	475.14	1277.16	1786.64	1789.54	1789.54
159	7.900	386.85	458.31	1249.25	1774.75	1777.71	1777.71
160	7.950	374.49	442.06	1221.86	1763.13	1766.15	1766.15
161	8.000	362.49	426.50	1195.01	1751.75	1754.82	1754.82
162	8.050	350.86	411.52	1168.74	1740.59	1743.71	1743.71
163	8.100	339.59	397.02	1143.03	1729.64	1732.80	1732.80
164	8.150	328.66	382.99	1117.94	1718.87	1722.08	1722.08
165	8.200	318.06	369.45	1093.48	1708.31	1711.55	1711.55
166	8.250	307.79	356.40	1069.71	1697.93	1701.20	1701.20
167	8.300	297.84	343.85	1046.71	1687.77	1691.06	1691.06
168	8.350	288.20	331.80	1024.54	1677.82	1681.14	1681.14
169	8.400	278.85	320.24	1003.26	1668.11	1671.45	1671.45
170	8.450	269.80	309.19	982.89	1658.65	1662.00	1662.00
171	8.500	261.03	298.62	963.44	1649.40	1652.76	1652.76
172	8.550	252.54	288.48	944.86	1640.39	1643.76	1643.76
173	8.600	244.31	278.75	927.18	1631.59	1634.96	1634.96
174	8.650	236.35	269.44	910.34	1623.00	1626.37	1626.37

175	8.700	228.64	260.52	894.35	1614.59	1617.97	1617.97
176	8.750	221.18	252.00	879.17	1606.39	1609.76	1609.76
177	8.800	213.95	243.87	864.81	1598.37	1601.74	1601.74
178	8.850	206.86	236.09	851.46	1589.44	1592.89	1592.89
179	8.900	200.19	228.46	844.06	1580.55	1584.06	1584.06
180	8.950	193.64	221.53	833.44	1572.95	1576.29	1576.29
181	9.000	187.31	214.71	824.40	1564.77	1568.29	1568.29
182	9.050	181.19	208.17	815.44	1557.29	1560.63	1560.63
183	9.100	175.26	201.91	807.18	1549.68	1553.13	1553.13
184	9.150	169.54	195.91	799.22	1542.42	1545.78	1545.78
185	9.200	164.00	190.15	791.65	1535.22	1538.63	1538.63
186	9.250	158.65	184.62	784.25	1528.19	1531.57	1531.57
187	9.300	153.47	179.31	776.98	1521.20	1524.59	1524.59
188	9.350	148.48	174.21	769.67	1514.23	1517.62	1517.62
189	9.400	143.65	169.31	762.33	1507.24	1510.63	1510.63
190	9.450	138.99	164.65	754.95	1500.25	1503.64	1503.64
191	9.500	134.49	160.23	747.67	1493.29	1496.69	1496.69
192	9.550	130.14	156.05	740.55	1486.41	1489.80	1489.80
193	9.600	125.95	152.05	733.65	1479.62	1483.01	1483.01
194	9.650	121.90	148.16	726.92	1472.88	1476.26	1476.26
195	9.700	117.99	144.30	720.30	1466.18	1469.55	1469.55
196	9.750	114.22	140.45	713.73	1459.50	1462.87	1462.87
197	9.800	110.59	136.66	707.24	1452.85	1456.22	1456.22
198	9.850	107.09	133.01	700.79	1446.25	1449.61	1449.61
199	9.900	103.71	129.54	694.43	1439.68	1443.05	1443.05
200	9.950	100.45	126.22	688.11	1433.15	1436.51	1436.51
201	10.000	97.32	123.00	681.80	1426.65	1430.01	1430.01
202	10.050	94.30	119.84	675.50	1420.15	1423.50	1423.50
203	10.100	91.39	116.80	669.14	1413.63	1416.98	1416.98
204	10.150	88.59	113.82	662.70	1407.11	1410.45	1410.45
205	10.200	85.90	110.93	656.17	1400.56	1403.90	1403.90
206	10.250	83.31	108.13	649.53	1394.01	1397.35	1397.35
207	10.300	80.82	105.41	642.93	1387.46	1390.80	1390.80
208	10.350	78.42	102.78	636.43	1381.14	1384.48	1384.48
209	10.400	76.12	100.22	630.09	1374.87	1378.19	1378.19
210	10.450	73.90	97.72	623.84	1368.60	1371.92	1371.92
211	10.500	71.78	95.28	617.70	1362.34	1365.64	1365.64
212	10.550	69.76	92.94	611.65	1356.07	1359.36	1359.36
213	10.600	67.83	90.74	605.54	1331.09	1332.74	1332.74
214	10.650	65.99	88.66	599.46	1293.71	1296.16	1296.16
215	10.700	64.24	86.67	593.40	1254.08	1255.54	1255.54
216	10.750	62.56	84.75	587.45	1240.91	1245.28	1245.28
217	10.800	60.96	82.89	581.61	1237.98	1240.67	1240.67
218	10.850	59.44	81.12	575.85	1232.11	1235.81	1235.81
219	10.900	57.98	79.44	570.17	1228.04	1231.07	1231.07
220	10.950	56.59	77.86	564.67	1223.01	1226.38	1226.38
221	11.000	55.27	76.35	559.36	1218.66	1221.75	1221.75
222	11.050	54.01	74.89	554.98	1214.06	1217.22	1217.22
223	11.100	52.80	73.43	550.41	1209.75	1212.76	1212.76
224	11.150	51.65	71.88	546.81	1205.43	1208.42	1208.42
225	11.200	50.56	70.16	543.48	1201.20	1204.13	1204.13
226	11.250	49.52	68.22	540.27	1196.90	1199.85	1199.85
227	11.300	48.52	66.15	537.94	1192.57	1195.57	1195.57
228	11.350	47.58	64.25	535.81	1188.11	1191.16	1191.16
229	11.400	46.67	62.93	533.77	1183.59	1186.68	1186.68
230	11.450	45.81	62.49	531.90	1179.10	1182.19	1182.19
231	11.500	45.00	62.76	530.47	1174.65	1177.72	1177.72
232	11.550	44.22	63.20	529.35	1170.98	1172.62	1172.62
233	11.600	43.48	63.18	528.32	1165.21	1168.10	1168.10
234	11.650	42.77	62.45	527.35	1160.15	1163.51	1163.51
235	11.700	42.10	61.29	526.42	1155.86	1158.88	1158.88
236	11.750	41.47	60.14	525.51	1151.20	1154.37	1154.37
237	11.800	40.86	59.31	524.62	1146.82	1149.85	1149.85
238	11.850	40.29	58.79	523.79	1142.37	1145.42	1145.42
239	11.900	39.75	58.41	523.02	1137.99	1140.99	1140.99
240	11.950	39.23	58.06	522.29	1133.60	1136.60	1136.60
241	12.000	38.74	57.72	521.59	1129.24	1132.24	1132.24
242	12.050	38.28	57.42	520.94	1124.80	1127.82	1127.82
243	12.100	37.85	57.19	520.33	1120.33	1123.37	1123.37
244	12.150	37.43	57.06	519.75	1115.82	1118.87	1118.87
245	12.200	37.05	57.01	519.20	1111.32	1114.37	1114.37
246	12.250	36.68	56.97	518.68	1106.85	1109.89	1109.89
247	12.300	36.34	56.79	518.19	1102.42	1105.44	1105.44
248	12.350	36.01	56.37	517.62	1098.01	1101.02	1101.02
249	12.400	35.71	55.75	517.09	1093.63	1096.62	1096.62
250	12.450	35.43	55.07	516.50	1089.29	1092.24	1092.24
251	12.500	35.16	54.52	515.95	1084.92	1087.87	1087.87
252	12.550	34.91	54.15	515.41	1080.57	1083.51	1083.51
253	12.600	34.68	53.91	514.87	1076.28	1079.23	1079.23
254	12.650	34.47	53.68	514.38	1071.97	1074.90	1074.90
255	12.700	34.27	53.39	513.85	1067.63	1070.56	1070.56
256	12.750	34.09	53.03	513.28	1063.31	1066.24	1066.24
257	12.800	33.93	52.62	512.68	1059.03	1061.96	1061.96
258	12.850	33.77	52.22	512.05	1054.73	1057.65	1057.65
259	12.900	33.64	51.82	511.39	1050.41	1053.33	1053.33
260	12.950	33.51	51.45	510.70	1046.12	1049.03	1049.03
261	13.000	33.40	51.12	510.00	1041.84	1044.73	1044.73
262	13.050	33.30	50.82	509.28	1037.58	1040.46	1040.46
263	13.100	33.22	50.54	508.54	1033.34	1036.21	1036.21
264	13.150	33.14	50.29	507.79	1029.12	1031.97	1031.97
265	13.200	33.08	50.07	507.03	1024.92	1027.76	1027.76
266	13.250	33.03	49.88	506.28	1020.73	1023.56	1023.56
267	13.300	32.99	49.72	505.54	1016.55	1019.37	1019.37
268	13.350	32.96	49.56	504.81	1012.40	1015.20	1015.20
269	13.400	32.94	49.41	504.08	1008.25	1011.04	1011.04

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270	13.450	32.93	49.26	420.24	1004.13	1006.91	1006.91
271	13.500	32.93	49.12	417.24	1000.03	1002.79	1002.79
272	13.550	32.93	49.00	414.32	995.95	998.70	998.70
273	13.600	32.95	48.89	411.49	991.89	994.62	994.62
274	13.650	32.98	48.82	408.69	987.85	990.56	990.56
275	13.700	33.01	48.76	405.95	983.82	986.52	986.52
276	13.750	33.05	48.72	403.24	979.82	982.53	982.50
277	13.800	33.10	48.68	400.56	975.83	978.49	978.49
278	13.850	33.16	48.65	397.93	971.86	974.51	974.51
279	13.900	33.23	48.63	395.32	967.90	970.53	970.53
280	13.950	33.30	48.60	392.72	963.96	966.58	966.58
281	14.000	33.38	48.58	390.15	960.04	962.64	962.64
282	14.050	33.46	48.58	387.61	956.13	958.71	958.71
283	14.100	33.54	48.55	385.11	952.25	954.81	954.81
284	14.150	33.61	48.53	382.62	948.38	950.93	950.93
285	14.200	33.69	48.50	384.80	943.51	946.58	946.58
286	14.250	33.76	48.48	382.95	938.64	941.66	941.66
287	14.275	33.79	48.46	381.57	936.68	939.68	939.68
288	14.300	33.83	48.45	380.21	934.71	937.71	937.71
289	14.350	33.90	48.41	377.59	929.82	932.82	932.82
290	14.400	33.96	48.38	375.08	924.92	927.92	927.92
291	14.450	34.03	48.35	372.52	920.03	923.03	923.03
292	14.500	34.09	48.31	370.00	915.13	918.13	918.13
293	14.550	34.15	48.31	367.49	910.24	913.24	913.24
294	14.600	34.20	48.40	364.99	905.35	908.35	908.35
295	14.650	34.26	48.83	362.49	900.46	903.46	903.46
296	14.700	34.32	50.06	360.00	895.57	898.57	898.57
297	14.750	34.37	52.74	357.50	890.68	893.68	893.68
298	14.800	34.42	57.36	355.00	885.79	888.79	888.79
299	14.850	34.47	63.65	352.50	880.89	883.89	883.89
300	14.900	34.52	70.32	350.00	876.00	879.00	879.00
301	14.950	34.56	75.58	347.50	871.11	874.11	874.11
302	15.000	34.61	77.99	345.00	866.22	869.22	869.22
303	15.050	34.65	76.98	342.50	861.33	864.33	864.33
304	15.100	34.69	72.67	340.00	856.44	859.44	859.44
305	15.150	34.73	65.75	337.50	851.55	854.55	854.55
306	15.200	34.77	57.74	335.00	846.66	849.66	849.66
307	15.250	34.81	51.24	332.50	841.77	844.77	844.77
308	15.300	34.85	48.59	330.00	836.88	839.88	839.88
309	15.350	34.88	49.66	327.50	831.99	834.99	834.99
310	15.400	34.92	51.76	325.00	827.10	830.10	830.10
311	15.450	34.95	52.28	322.50	822.21	825.21	825.21
312	15.500	34.99	50.74	320.00	817.32	820.32	820.32
313	15.550	35.02	48.31	317.50	812.43	815.43	815.43
314	15.600	35.05	46.29	315.00	807.54	810.54	810.54
315	15.650	35.08	45.22	312.50	802.65	805.65	805.65
316	15.700	35.11	44.76	310.00	797.76	800.76	800.76
317	15.750	35.14	44.28	307.50	792.87	795.87	795.87
318	15.800	35.16	43.52	305.00	787.98	790.98	790.98
319	15.850	35.19	42.70	302.50	783.09	786.09	786.09
320	15.900	35.21	42.12	300.00	778.20	781.20	781.20
321	15.950	35.24	41.93	297.50	773.31	776.31	776.31
322	16.000	35.26	42.06	295.00	768.42	771.42	771.42
323	16.050	35.29	42.41	292.50	763.53	766.53	766.53
324	16.100	35.31	42.81	290.00	758.64	761.64	761.64
325	16.150	35.33	43.17	287.50	753.75	756.75	756.75
326	16.200	35.35	43.45	285.00	748.86	751.86	751.86
327	16.250	35.37	43.65	282.50	743.97	746.97	746.97
328	16.300	35.39	43.76	280.00	739.08	742.08	742.08
329	16.350	35.41	43.84	277.50	734.19	737.19	737.19
330	16.400	35.43	43.92	275.00	729.30	732.30	732.30
331	16.450	35.45	44.05	272.50	724.41	727.41	727.41
332	16.500	35.46	44.22	270.00	719.52	722.52	722.52
333	16.550	35.48	44.41	267.50	714.63	717.63	717.63
334	16.600	35.50	44.60	265.00	709.74	712.74	712.74
335	16.650	35.51	44.73	262.50	704.85	707.85	707.85
336	16.700	35.53	44.81	260.00	700.00	703.00	703.00
337	16.750	35.54	44.84	257.50	695.11	698.11	698.11
338	16.800	35.56	44.81	255.00	690.22	693.22	693.22
339	16.850	35.57	44.74	252.50	685.33	688.33	688.33
340	16.900	35.59	44.64	250.00	680.44	683.44	683.44
341	16.950	35.60	44.52	247.50	675.55	678.55	678.55
342	17.000	35.61	44.39	245.00	670.66	673.66	673.66
343	17.050	35.62	44.25	242.50	665.77	668.77	668.77
344	17.100	35.64	44.10	240.00	660.88	663.88	663.88
345	17.150	35.65	43.95	237.50	655.99	658.99	658.99
346	17.200	35.66	43.79	235.00	651.10	654.10	654.10
347	17.250	35.67	43.62	232.50	646.21	649.21	649.21
348	17.300	35.68	43.45	230.00	641.32	644.32	644.32
349	17.350	35.69	43.26	227.50	636.43	639.43	639.43
350	17.400	35.70	43.07	225.00	631.54	634.54	634.54
351	17.450	35.71	42.88	222.50	626.65	629.65	629.65
352	17.500	35.72	42.70	220.00	621.76	624.76	624.76
353	17.550	35.73	42.52	217.50	616.87	619.87	619.87
354	17.600	35.73	42.35	215.00	611.98	614.98	614.98
355	17.650	35.74	42.19	212.50	607.09	610.09	610.09
356	17.700	35.75	42.03	210.00	602.20	605.20	605.20
357	17.750	35.76	41.89	207.50	597.31	600.31	600.31
358	17.800	35.77	41.74	205.00	592.42	595.42	595.42
359	17.850	35.77	41.60	202.50	587.53	590.53	590.53
360	17.900	35.78	41.47	200.00	582.64	585.64	585.64
361	17.950	35.79	41.33	197.50	577.75	580.75	580.75
362	18.000	35.79	41.20	195.00	572.86	575.86	575.86
363	18.050	35.80	41.07	192.50	567.97	570.97	570.97
364	18.100	35.81	40.94	190.00	563.08	566.08	566.08

365	18.150	35.81	40.02	217.99	495.61	497.10	497.10
366	18.200	35.82	40.69	216.71	493.37	494.84	494.84
367	18.250	35.82	40.57	215.43	491.14	492.61	492.61
368	18.300	35.83	40.44	214.18	489.93	490.38	490.38
369	18.350	35.84	40.32	212.82	486.72	488.16	488.16
370	18.400	35.84	40.19	211.67	484.53	485.96	485.96
371	18.450	35.85	40.07	210.43	482.34	483.76	483.76
372	18.500	35.85	39.95	209.20	480.17	481.57	481.57
373	18.550	35.86	39.82	207.97	478.01	479.40	479.40
374	18.600	35.86	39.70	206.74	475.86	477.24	477.24
375	18.650	35.86	39.59	205.52	473.71	475.08	475.08
376	18.700	35.87	39.46	204.31	471.58	472.95	472.95
377	18.750	35.87	39.34	203.09	469.46	470.82	470.82
378	18.800	35.88	39.22	201.88	467.33	468.69	468.69
379	18.850	35.88	39.11	200.67	465.25	466.58	466.58
380	18.900	35.88	38.99	199.47	463.16	464.48	464.48
381	18.950	35.89	38.87	198.27	461.08	462.39	462.39
382	19.000	35.89	38.76	197.08	459.01	460.31	460.31
383	19.050	35.89	38.65	195.88	456.94	458.23	458.23
384	19.100	35.90	38.54	194.70	454.89	456.17	456.17
385	19.150	35.90	38.43	193.53	452.85	454.12	454.12
386	19.200	35.90	38.32	192.37	450.82	452.08	452.08
387	19.250	35.91	38.22	191.21	448.79	450.04	450.04
388	19.300	35.91	38.11	190.06	446.78	448.02	448.02
389	19.350	35.91	38.01	188.92	444.78	446.01	446.01
390	19.400	35.92	37.92	187.80	442.79	444.01	444.01
391	19.450	35.92	37.82	186.68	440.81	442.02	442.02
392	19.500	35.92	37.73	185.56	438.83	440.03	440.03
393	19.550	35.92	37.64	184.47	436.87	438.06	438.06
394	19.600	35.93	37.56	183.37	434.92	436.10	436.10
395	19.650	35.93	37.47	182.29	432.97	434.14	434.14
396	19.700	35.93	37.40	181.21	431.04	432.20	432.20
397	19.750	35.93	37.32	180.15	429.11	430.26	430.26
398	19.800	35.94	37.24	179.09	427.19	428.34	428.34
399	19.850	35.94	37.17	178.04	425.29	426.42	426.42
400	19.900	35.94	37.10	177.01	423.39	424.51	424.51
401	19.950	35.94	37.04	175.98	421.50	422.61	422.61
402	20.000	35.94	36.98	174.96	419.62	420.73	420.73
403	20.050	35.94	36.92	173.96	417.75	418.84	418.84
404	20.100	35.95	36.86	172.95	415.89	416.97	416.97
405	20.150	35.95	36.81	171.97	414.03	415.11	415.11
406	20.200	35.95	36.75	170.99	412.19	413.26	413.26
407	20.250	35.95	36.70	170.02	410.35	411.41	411.41
408	20.300	35.95	36.66	169.05	408.53	409.58	409.58
409	20.350	35.95	36.61	168.11	406.70	407.75	407.75
410	20.400	35.96	36.57	167.16	404.90	405.93	405.93
411	20.450	35.96	36.53	166.23	403.10	404.12	404.12
412	20.500	35.96	36.49	165.31	401.30	402.32	402.32
413	20.550	35.96	36.46	164.39	399.52	400.53	400.53
414	20.600	35.96	36.42	163.49	397.75	398.75	398.75
415	20.650	35.96	36.39	162.59	395.98	396.97	396.97
416	20.700	35.96	36.36	161.70	394.22	395.21	395.21
417	20.750	35.96	36.33	160.82	392.47	393.45	393.45
418	20.800	35.97	36.31	159.95	390.73	391.70	391.70
419	20.850	35.97	36.28	159.09	388.99	389.95	389.95
420	20.900	35.97	36.26	158.24	387.27	388.22	388.22
421	20.950	35.97	36.24	157.40	385.55	386.49	386.49
422	21.000	35.97	36.22	156.56	383.84	384.77	384.77
423	21.050	35.97	36.20	155.74	382.14	383.06	383.06
424	21.100	35.97	36.19	154.93	380.44	381.36	381.36
425	21.150	35.97	36.17	154.12	378.75	379.66	379.66
426	21.200	35.97	36.16	153.32	377.06	377.97	377.97
427	21.250	35.97	36.14	152.53	375.38	376.29	376.29
428	21.300	35.98	36.13	151.74	373.71	374.62	374.62
429	21.350	35.98	36.12	150.97	372.05	372.95	372.95
430	21.400	35.98	36.11	150.20	370.40	371.29	371.29
431	21.450	35.98	36.10	149.45	368.75	369.64	369.64
432	21.500	35.98	36.09	148.69	367.10	367.99	367.99
433	21.550	35.98	36.08	147.94	365.47	366.35	366.35
434	21.600	35.98	36.07	147.18	363.83	364.72	364.72
435	21.650	35.98	36.07	146.43	362.21	363.09	363.09
436	21.700	35.98	36.06	145.69	360.59	361.46	361.46
437	21.750	35.98	36.06	144.96	358.98	359.85	359.85
438	21.800	35.98	36.05	144.25	357.38	358.24	358.24
439	21.850	35.98	36.05	143.56	355.78	356.64	356.64
440	21.900	35.98	36.04	142.89	354.19	355.05	355.05
441	21.950	35.98	36.04	142.23	352.61	353.46	353.46
442	22.000	35.98	36.03	141.59	351.03	351.88	351.88
443	22.050	35.98	36.03	140.98	349.47	350.31	350.31
444	22.100	35.99	36.03	140.37	347.90	348.74	348.74
445	22.150	35.99	36.02	139.78	346.35	347.18	347.18
446	22.200	35.99	36.02	139.21	344.80	345.63	345.63
447	22.250	35.99	36.02	138.65	343.25	344.08	344.08
448	22.300	35.99	36.02	138.11	341.72	342.54	342.54
449	22.350	35.99	36.01	137.58	340.19	341.01	341.01
450	22.400	35.99	36.01	137.06	338.66	339.48	339.48
451	22.450	35.99	36.01	136.56	337.14	337.96	337.96
452	22.500	35.99	36.01	136.07	335.62	336.43	336.43
453	22.550	35.99	36.01	135.60	334.11	334.92	334.92
454	22.600	35.99	36.01	135.14	332.60	333.41	333.41
455	22.650	35.99	36.01	134.70	331.09	331.90	331.90
456	22.700	35.99	36.01	134.28	329.60	330.40	330.40
457	22.750	35.99	36.00	133.87	328.10	328.90	328.90
458	22.800	35.99	36.00	133.48	326.61	327.41	327.41
459	22.850	35.99	36.00	133.11	325.12	325.92	325.92

460	22.900	35.99	36.00	132.76	323.63	324.43	324.43
461	22.950	35.99	36.00	132.43	322.15	322.94	322.94
462	23.000	35.99	36.00	132.12	320.66	321.45	321.45
463	23.050	35.99	36.00	131.83	319.18	319.97	319.97
464	23.100	35.99	36.00	131.56	317.70	318.49	318.49
465	23.150	35.99	36.00	131.32	316.22	317.01	317.01
466	23.200	35.99	36.00	131.12	314.75	315.53	315.53
467	23.250	35.99	36.00	130.93	313.27	314.05	314.05
468	23.300	35.99	36.00	130.77	311.78	312.57	312.57
469	23.350	35.99	36.00	130.65	310.30	311.09	311.09
470	23.400	35.99	36.00	130.56	308.82	309.61	309.61
471	23.450	35.99	36.00	130.50	307.33	308.12	308.12
472	23.500	35.99	36.00	130.48	305.84	306.63	306.63
473	23.550	35.99	36.00	130.51	304.36	305.15	305.15
474	23.600	35.99	36.00	130.57	302.86	303.65	303.65
475	23.650	35.99	36.00	130.68	301.36	302.16	302.16
476	23.700	35.99	36.00	130.83	299.85	300.65	300.65
477	23.750	36.00	36.00	131.02	298.33	299.14	299.14
478	23.800	36.00	36.00	131.27	296.81	297.62	297.62
479	23.850	36.00	36.00	131.56	295.28	296.09	296.09
480	23.900	36.00	36.00	131.91	293.75	294.56	294.56
481	23.950	36.00	36.00	132.30	292.20	293.01	293.01
482	24.000	36.00	36.00	132.73	290.64	291.46	291.46
483	24.050	36.00	36.00	133.21	289.07	289.90	289.90
484	24.100	36.00	36.00	133.72	287.49	288.33	288.33
485	24.150	36.00	36.00	134.26	285.91	286.75	286.75
486	24.200	36.00	36.00	134.80	284.31	285.15	285.15
487	24.250	36.00	36.00	135.35	282.71	283.55	283.55
488	24.300	36.00	36.00	135.86	281.08	281.93	281.93
489	24.350	36.00	36.00	136.31	279.43	280.28	280.28
490	24.400	36.00	36.00	136.70	277.78	278.63	278.63
491	24.450	36.00	36.00	137.07	276.15	277.01	277.01
492	24.500	36.00	36.00	137.42	274.52	275.38	275.38
493	24.550	36.00	36.00	137.71	272.87	273.74	273.74
494	24.600	36.00	36.00	137.95	271.22	272.09	272.09
495	24.650	36.00	36.00	138.15	269.55	270.43	270.43
496	24.700	36.00	36.00	138.31	267.88	268.76	268.76
497	24.750	36.00	36.00	138.42	266.21	267.09	267.09
498	24.800	36.00	36.00	138.51	264.53	265.41	265.41
499	24.850	36.00	36.00	138.55	262.85	263.73	263.73
500	24.900	36.00	36.00	138.57	261.16	262.05	262.05
501	24.950	36.00	36.00	138.55	259.48	260.36	260.36
502	25.000	36.00	36.00	138.50	257.79	258.67	258.67
503	25.050	36.00	36.00	138.41	256.10	256.99	256.99
504	25.100	36.00	36.00	138.31	254.41	255.30	255.30
505	25.150	36.00	36.00	138.16	252.72	253.60	253.60
506	25.200	36.00	36.00	138.00	251.03	251.91	251.91
507	25.250	36.00	36.00	137.80	249.34	250.22	250.22
508	25.300	36.00	36.00	137.58	247.64	248.53	248.53
509	25.350	36.00	36.00	137.35	245.95	246.83	246.83
510	25.400	36.00	36.00	137.06	244.26	245.15	245.15
511	25.450	36.00	36.00	136.77	242.57	243.45	243.45
512	25.500	36.00	36.00	136.45	240.89	241.77	241.77
513	25.550	36.00	36.00	136.12	239.20	240.08	240.08
514	25.600	36.00	36.00	135.76	237.52	238.40	238.40
515	25.650	36.00	36.00	135.39	235.85	236.72	236.72
516	25.700	36.00	36.00	134.99	234.17	235.04	235.04
517	25.750	36.00	36.00	134.54	232.45	233.31	233.31
518	25.800	36.00	36.00	134.10	230.79	231.67	231.67
519	25.850	36.00	36.00	133.65	229.11	229.96	229.96
520	25.900	36.00	36.00	133.19	227.46	228.34	228.34
521	25.950	36.00	36.00	132.71	225.79	226.64	226.64
522	26.000	36.00	36.00	132.18	224.10	224.96	224.96
523	26.050	36.00	36.00	131.66	222.46	223.31	223.31
524	26.100	36.00	36.00	131.14	220.81	221.66	221.66
525	26.150	36.00	36.00	130.60	219.18	220.02	220.02
526	26.200	36.00	36.00	130.06	217.54	218.39	218.39
527	26.250	36.00	36.00	129.50	215.92	216.76	216.76
528	26.300	36.00	36.00	128.93	214.30	215.13	215.13
529	26.350	36.00	36.00	128.35	212.68	213.51	213.51
530	26.400	36.00	36.00	127.76	211.08	211.90	211.90
531	26.450	36.00	36.00	127.16	209.48	210.30	210.30
532	26.500	36.00	36.00	126.55	207.88	208.70	208.70
533	26.550	36.00	36.00	125.93	206.30	207.11	207.11
534	26.600	36.00	36.00	125.30	204.72	205.53	205.53
535	26.650	36.00	36.00	124.66	203.14	203.95	203.95
536	26.700	36.00	36.00	124.02	201.57	202.37	202.37
537	26.750	36.00	36.00	123.33	199.96	200.75	200.75
538	26.800	36.00	36.00	122.67	198.43	199.23	199.23
539	26.850	36.00	36.00	122.01	196.86	197.64	197.64
540	26.900	36.00	36.00	121.33	195.34	196.14	196.14
541	26.950	36.00	36.00	120.65	193.79	194.55	194.55
542	27.000	36.00	36.00	119.96	192.27	193.07	193.07
543	27.050	36.00	36.00	119.27	190.74	191.50	191.50
544	27.100	36.00	36.00	118.58	189.24	190.03	190.03
545	27.150	36.00	36.00	117.88	187.73	188.47	188.47
546	27.200	36.00	36.00	117.15	186.20	186.97	186.97
547	27.250	36.00	36.00	116.44	184.73	185.48	185.48
548	27.300	36.00	36.00	115.74	183.24	183.99	183.99
549	27.350	36.00	36.00	115.02	181.78	182.52	182.52
550	27.400	36.00	36.00	114.31	180.32	181.05	181.05
551	27.450	36.00	36.00	113.60	178.87	179.60	179.60
552	27.500	36.00	36.00	112.88	177.42	178.15	178.15
553	27.550	36.00	36.00	112.19	176.03	176.76	176.76
554	27.600	36.00	36.00	111.47	174.58	175.29	175.29

555	27.650	36.00	36.00	110.74	173.18	173.91	173.91
556	27.700	36.00	36.00	110.02	171.76	172.46	172.46
557	27.750	36.00	36.00	109.29	170.37	171.09	171.09
558	27.800	36.00	36.00	108.59	169.01	169.70	169.70
559	27.850	36.00	36.00	107.87	167.62	168.32	168.32
560	27.900	36.00	36.00	107.14	166.26	166.94	166.94
561	27.950	36.00	36.00	106.42	164.89	165.57	165.57
562	28.000	36.00	36.00	105.69	163.54	164.22	164.22
563	28.050	36.00	36.00	104.97	162.20	162.87	162.87
564	28.100	36.00	36.00	104.25	160.87	161.54	161.54
565	28.150	36.00	36.00	103.53	159.55	160.21	160.21
566	28.200	36.00	36.00	102.81	158.24	158.89	158.89
567	28.250	36.00	36.00	102.10	156.94	157.59	157.59
568	28.300	36.00	36.00	101.38	155.65	156.29	156.29
569	28.350	36.00	36.00	100.67	154.37	155.01	155.01
570	28.400	36.00	36.00	99.96	153.10	153.73	153.73
571	28.450	36.00	36.00	99.26	151.84	152.47	152.47
572	28.500	36.00	36.00	98.56	150.59	151.21	151.21
573	28.550	36.00	36.00	97.86	149.35	149.97	149.97
574	28.600	36.00	36.00	97.16	148.12	148.73	148.73
575	28.650	36.00	36.00	96.46	146.90	147.51	147.51
576	28.700	36.00	36.00	95.77	145.70	146.30	146.30
577	28.750	36.00	36.00	95.09	144.50	145.09	145.09
578	28.800	36.00	36.00	94.40	143.31	143.90	143.90
579	28.850	36.00	36.00	93.72	142.13	142.72	142.72
580	28.900	36.00	36.00	93.05	140.97	141.55	141.55
581	28.950	36.00	36.00	92.37	139.81	140.38	140.38
582	29.000	36.00	36.00	91.70	138.66	139.23	139.23
583	29.050	36.00	36.00	91.05	137.55	138.12	138.12
584	29.100	36.00	36.00	90.39	136.41	136.96	136.96
585	29.150	36.00	36.00	89.73	135.30	135.86	135.86
586	29.200	36.00	36.00	89.09	134.21	134.75	134.75
587	29.250	36.00	36.00	88.44	133.11	133.65	133.65
588	29.300	36.00	36.00	87.79	132.02	132.56	132.56
589	29.350	36.00	36.00	87.15	130.94	131.47	131.47
590	29.400	36.00	36.00	86.52	129.88	130.40	130.40
591	29.450	36.00	36.00	85.88	128.82	129.34	129.34
592	29.500	36.00	36.00	85.26	127.77	128.29	128.29
593	29.550	36.00	36.00	84.63	126.73	127.25	127.25
594	29.600	36.00	36.00	84.01	125.71	126.21	126.21
595	29.650	36.00	36.00	83.40	124.69	125.19	125.19
596	29.700	36.00	36.00	82.79	123.68	124.18	124.18
597	29.750	36.00	36.00	82.19	122.69	123.18	123.18
598	29.800	36.00	36.00	81.59	121.70	122.19	122.19
599	29.850	36.00	36.00	80.99	120.72	121.20	121.20
600	29.900	36.00	36.00	80.40	119.75	120.23	120.23
601	29.950	36.00	36.00	79.82	118.80	119.27	119.27
602	30.000	36.00	36.00	79.24	117.85	118.31	118.31
603	30.050	36.00	36.00	78.67	116.91	117.37	117.37
604	30.100	36.00	36.00	78.10	115.98	116.44	116.44
605	30.150	36.00	36.00	77.53	115.06	115.51	115.51
606	30.200	36.00	36.00	76.98	114.15	114.60	114.60
607	30.250	36.00	36.00	76.42	113.25	113.69	113.69
608	30.300	36.00	36.00	75.88	112.36	112.80	112.80
609	30.350	36.00	36.00	75.33	111.48	111.91	111.91
610	30.400	36.00	36.00	74.80	110.61	111.04	111.04
611	30.450	36.00	36.00	74.26	109.75	110.17	110.17
612	30.500	36.00	36.00	73.74	108.89	109.31	109.31
613	30.550	36.00	36.00	73.22	108.05	108.46	108.46
614	30.600	36.00	36.00	72.70	107.21	107.62	107.62
615	30.650	36.00	36.00	72.19	106.39	106.79	106.79
616	30.700	36.00	36.00	71.68	105.57	105.97	105.97
617	30.750	36.00	36.00	71.18	104.76	105.15	105.15
618	30.800	36.00	36.00	70.68	103.96	104.35	104.35
619	30.850	36.00	36.00	70.19	103.17	103.55	103.55
620	30.900	36.00	36.00	69.71	102.39	102.77	102.77
621	30.950	36.00	36.00	69.23	101.61	101.99	101.99
622	31.000	36.00	36.00	68.75	100.85	101.22	101.22
623	31.050	36.00	36.00	68.28	100.09	100.46	100.46
624	31.100	36.00	36.00	67.82	99.34	99.71	99.71
625	31.150	36.00	36.00	67.36	98.60	98.96	98.96
626	31.200	36.00	36.00	66.91	97.87	98.23	98.23
627	31.250	36.00	36.00	66.46	97.15	97.50	97.50
628	31.300	36.00	36.00	66.01	96.43	96.78	96.78
629	31.350	36.00	36.00	65.57	95.73	96.07	96.07
630	31.400	36.00	36.00	65.14	95.03	95.37	95.37
631	31.450	36.00	36.00	64.71	94.34	94.68	94.68
632	31.500	36.00	36.00	64.28	93.66	93.99	93.99
633	31.550	36.00	36.00	63.86	92.98	93.31	93.31
634	31.600	36.00	36.00	63.45	92.32	92.64	92.64
635	31.650	36.00	36.00	63.04	91.66	91.98	91.98
636	31.700	36.00	36.00	62.64	91.01	91.32	91.32
637	31.750	36.00	36.00	62.24	90.36	90.68	90.68
638	31.800	36.00	36.00	61.84	89.73	90.04	90.04
639	31.850	36.00	36.00	61.45	89.10	89.40	89.40
640	31.900	36.00	36.00	61.07	88.48	88.78	88.78
641	31.950	36.00	36.00	60.69	87.87	88.16	88.16
642	32.000	36.00	36.00	60.31	87.26	87.55	87.55
643	32.050	36.00	36.00	59.94	86.66	86.95	86.95
644	32.100	36.00	36.00	59.58	86.07	86.36	86.36
645	32.150	36.00	36.00	59.22	85.49	85.77	85.77
646	32.200	36.00	36.00	58.86	84.91	85.19	85.19
647	32.250	36.00	36.00	58.51	84.34	84.62	84.62
648	32.300	36.00	36.00	58.16	83.78	84.05	84.05
649	32.350	36.00	36.00	57.82	83.22	83.49	83.49

650	32.400	36.00	36.00	57.48	82.67	82.94	82.94
651	32.450	36.00	36.00	57.15	82.13	82.39	82.39
652	32.500	36.00	36.00	56.82	81.60	81.85	81.85
653	32.550	36.00	36.00	56.49	81.07	81.32	81.32
654	32.600	36.00	36.00	56.17	80.54	80.80	80.80
655	32.650	36.00	36.00	55.86	80.03	80.28	80.28
656	32.700	36.00	36.00	55.54	79.52	79.77	79.77
657	32.750	36.00	36.00	55.24	79.02	79.26	79.26
658	32.800	36.00	36.00	54.94	78.52	78.76	78.76
659	32.850	36.00	36.00	54.64	78.03	78.27	78.27
660	32.900	36.00	36.00	54.34	77.55	77.78	77.78
661	32.950	36.00	36.00	54.05	77.07	77.30	77.30
662	33.000	36.00	36.00	53.77	76.60	76.83	76.83
663	33.050	36.00	36.00	53.48	76.13	76.36	76.36
664	33.100	36.00	36.00	53.21	75.67	75.90	75.90
665	33.150	36.00	36.00	52.93	75.22	75.44	75.44
666	33.200	36.00	36.00	52.66	74.77	74.99	74.99
667	33.250	36.00	36.00	52.40	74.33	74.54	74.54
668	33.300	36.00	36.00	52.13	73.89	74.10	74.10
669	33.350	36.00	36.00	51.87	73.46	73.67	73.67
670	33.400	36.00	36.00	51.62	73.04	73.24	73.24
671	33.450	36.00	36.00	51.37	72.62	72.82	72.82
672	33.500	36.00	36.00	51.12	72.21	72.41	72.41
673	33.550	36.00	36.00	50.88	71.80	71.99	71.99
674	33.600	36.00	36.00	50.64	71.39	71.59	71.59
675	33.650	36.00	36.00	50.40	71.00	71.19	71.19
676	33.700	36.00	36.00	50.17	70.61	70.79	70.79
677	33.750	36.00	36.00	49.94	70.22	70.40	70.40
678	33.800	36.00	36.00	49.72	69.84	70.02	70.02
679	33.850	36.00	36.00	49.50	69.46	69.64	69.64
680	33.900	36.00	36.00	49.28	69.09	69.27	69.27
681	33.950	36.00	36.00	49.06	68.72	68.90	68.90
682	34.000	36.00	36.00	48.85	68.36	68.53	68.53
683	34.050	36.00	36.00	48.64	68.00	68.17	68.17
684	34.100	36.00	36.00	48.44	67.65	67.82	67.82
685	34.150	36.00	36.00	48.24	67.30	67.47	67.47
686	34.200	36.00	36.00	48.04	66.96	67.12	67.12
687	34.250	36.00	36.00	47.84	66.62	66.78	66.78
688	34.300	36.00	36.00	47.65	66.29	66.45	66.45
689	34.350	36.00	36.00	47.46	65.96	66.11	66.11
690	34.400	36.00	36.00	47.28	65.63	65.79	65.79
691	34.450	36.00	36.00	47.09	65.31	65.47	65.47
692	34.500	36.00	36.00	46.91	65.00	65.15	65.15
693	34.550	36.00	36.00	46.74	64.68	64.83	64.83
694	34.600	36.00	36.00	46.56	64.38	64.52	64.52
695	34.650	36.00	36.00	46.39	64.07	64.22	64.22
696	34.700	36.00	36.00	46.22	63.77	63.92	63.92
697	34.750	36.00	36.00	46.06	63.48	63.62	63.62
698	34.800	36.00	36.00	45.89	63.19	63.33	63.33
699	34.850	36.00	36.00	45.73	62.90	63.04	63.04
700	34.900	36.00	36.00	45.58	62.62	62.75	62.75
701	34.950	36.00	36.00	45.42	62.34	62.47	62.47
702	35.000	36.00	36.00	45.27	62.06	62.19	62.19
703	35.050	36.00	36.00	45.12	61.79	61.92	61.92
704	35.100	36.00	36.00	44.97	61.52	61.65	61.65
705	35.150	36.00	36.00	44.83	61.26	61.38	61.38
706	35.200	36.00	36.00	44.69	61.00	61.12	61.12
707	35.250	36.00	36.00	44.55	60.74	60.86	60.86
708	35.300	36.00	36.00	44.41	60.48	60.61	60.61
709	35.350	36.00	36.00	44.27	60.23	60.35	60.35
710	35.400	36.00	36.00	44.14	59.99	60.11	60.11
711	35.450	36.00	36.00	44.01	59.74	59.86	59.86
712	35.500	36.00	36.00	43.88	59.50	59.62	59.62
713	35.550	36.00	36.00	43.76	59.27	59.38	59.38
714	35.600	36.00	36.00	43.63	59.03	59.14	59.14
715	35.650	36.00	36.00	43.51	58.80	58.91	58.91
716	35.700	36.00	36.00	43.39	58.57	58.68	58.68
717	35.750	36.00	36.00	43.27	58.35	58.46	58.46
718	35.800	36.00	36.00	43.16	58.13	58.23	58.23
719	35.850	36.00	36.00	43.05	57.91	58.02	58.02
720	35.900	36.00	36.00	42.94	57.69	57.80	57.80
721	35.950	36.00	36.00	42.82	57.48	57.58	57.58
722	36.000	36.00	36.00	42.72	57.27	57.37	57.37
723	36.050	36.00	36.00	42.61	57.07	57.17	57.17
724	36.100	36.00	36.00	42.51	56.86	56.96	56.96
725	36.150	36.00	36.00	42.41	56.66	56.76	56.76
726	36.200	36.00	36.00	42.31	56.46	56.56	56.56
727	36.250	36.00	36.00	42.21	56.27	56.36	56.36
728	36.300	36.00	36.00	42.11	56.07	56.17	56.17
729	36.350	36.00	36.00	42.02	55.88	55.98	55.98
730	36.400	36.00	36.00	41.92	55.70	55.79	55.79
731	36.450	36.00	36.00	41.83	55.51	55.60	55.60
732	36.500	36.00	36.00	41.74	55.33	55.42	55.42
733	36.550	36.00	36.00	41.65	55.15	55.23	55.23
734	36.600	36.00	36.00	41.57	54.97	55.05	55.05
735	36.650	36.00	36.00	41.48	54.79	54.88	54.88
736	36.700	36.00	36.00	41.40	54.62	54.70	54.70
737	36.750	36.00	36.00	41.32	54.45	54.53	54.53
738	36.800	36.00	36.00	41.24	54.28	54.36	54.36
739	36.850	36.00	36.00	41.16	54.11	54.19	54.19
740	36.900	36.00	36.00	41.08	53.95	54.03	54.03
741	36.950	36.00	36.00	41.00	53.79	53.87	53.87
742	37.000	36.00	36.00	40.93	53.63	53.70	53.70
743	37.050	36.00	36.00	40.85	53.47	53.55	53.55
744	37.100	36.00	36.00	40.78	53.31	53.39	53.39

745	37.150	36.00	36.00	40.71	53.16	53.23	53.23
746	37.200	36.00	36.00	40.64	53.01	53.08	53.08
747	37.250	36.00	36.00	40.57	52.86	52.93	52.93
748	37.300	36.00	36.00	40.50	52.71	52.78	52.78
749	37.350	36.00	36.00	40.44	52.56	52.63	52.63
750	37.400	36.00	36.00	40.37	52.42	52.49	52.49
751	37.450	36.00	36.00	40.31	52.28	52.35	52.35
752	37.500	36.00	36.00	40.25	52.14	52.20	52.20
753	37.550	36.00	36.00	40.18	52.00	52.06	52.06
754	37.600	36.00	36.00	40.12	51.86	51.93	51.93
755	37.650	36.00	36.00	40.06	51.73	51.79	51.79
756	37.700	36.00	36.00	40.01	51.59	51.66	51.66
757	37.750	36.00	36.00	39.95	51.46	51.52	51.52
758	37.800	36.00	36.00	39.89	51.33	51.39	51.39
759	37.850	36.00	36.00	39.84	51.20	51.26	51.26
760	37.900	36.00	36.00	39.78	51.08	51.14	51.14
761	37.950	36.00	36.00	39.73	50.95	51.01	51.01
762	38.000	36.00	36.00	39.68	50.83	50.89	50.89
763	38.050	36.00	36.00	39.63	50.70	50.76	50.76
764	38.100	36.00	36.00	39.58	50.58	50.64	50.64
765	38.150	36.00	36.00	39.53	50.46	50.52	50.52
766	38.200	36.00	36.00	39.48	50.35	50.40	50.40
767	38.250	36.00	36.00	39.43	50.23	50.29	50.29
768	38.300	36.00	36.00	39.38	50.12	50.17	50.17
769	38.350	36.00	36.00	39.33	50.00	50.06	50.06
770	38.400	36.00	36.00	39.29	49.89	49.94	49.94
771	38.450	36.00	36.00	39.25	49.78	49.83	49.83
772	38.500	36.00	36.00	39.20	49.67	49.72	49.72
773	38.550	36.00	36.00	39.16	49.56	49.61	49.61
774	38.600	36.00	36.00	39.12	49.45	49.51	49.51
775	38.650	36.00	36.00	39.07	49.35	49.40	49.40
776	38.700	36.00	36.00	39.03	49.25	49.30	49.30
777	38.750	36.00	36.00	38.99	49.14	49.19	49.19
778	38.800	36.00	36.00	38.95	49.04	49.09	49.09
779	38.850	36.00	36.00	38.92	48.94	48.99	48.99
780	38.900	36.00	36.00	38.88	48.84	48.89	48.89
781	38.950	36.00	36.00	38.84	48.74	48.79	48.79
782	39.000	36.00	36.00	38.80	48.65	48.69	48.69
783	39.050	36.00	36.00	38.77	48.55	48.60	48.60
784	39.100	36.00	36.00	38.73	48.45	48.50	48.50
785	39.150	36.00	36.00	38.70	48.36	48.41	48.41
786	39.200	36.00	36.00	38.66	48.27	48.31	48.31
787	39.250	36.00	36.00	38.63	48.18	48.22	48.22
788	39.300	36.00	36.00	38.59	48.09	48.13	48.13
789	39.350	36.00	36.00	38.56	48.00	48.04	48.04
790	39.400	36.00	36.00	38.53	47.91	47.95	47.95
791	39.450	36.00	36.00	38.50	47.82	47.86	47.86
792	39.500	36.00	36.00	38.47	47.73	47.77	47.77
793	39.550	36.00	36.00	38.44	47.65	47.69	47.69
794	39.600	36.00	36.00	38.41	47.56	47.60	47.60
795	39.650	36.00	36.00	38.38	47.48	47.52	47.52
796	39.700	36.00	36.00	38.35	47.40	47.44	47.44
797	39.750	36.00	36.00	38.32	47.31	47.35	47.35
798	39.800	36.00	36.00	38.29	47.23	47.27	47.27
799	39.850	36.00	36.00	38.27	47.15	47.19	47.19
800	39.900	36.00	36.00	38.24	47.07	47.11	47.11
801	39.950	36.00	36.00	38.21	46.99	47.03	47.03
802	40.000	36.00	36.00	38.18	46.92	46.95	46.95
803	40.050	36.00	36.00	38.16	46.84	46.88	46.88
804	40.100	36.00	36.00	38.13	46.76	46.80	46.80
805	40.150	36.00	36.00	38.11	46.69	46.73	46.73
806	40.200	36.00	36.00	38.08	46.61	46.65	46.65
807	40.250	36.00	36.00	38.06	46.54	46.58	46.58
808	40.300	36.00	36.00	38.04	46.47	46.50	46.50
809	40.350	36.00	36.00	38.01	46.40	46.43	46.43
810	40.400	36.00	36.00	37.99	46.33	46.36	46.36
811	40.450	36.00	36.00	37.97	46.25	46.29	46.29
812	40.500	36.00	36.00	37.94	46.18	46.22	46.22
813	40.550	36.00	36.00	37.92	46.12	46.15	46.15
814	40.600	36.00	36.00	37.90	46.05	46.08	46.08
815	40.650	36.00	36.00	37.88	45.98	46.01	46.01
816	40.700	36.00	36.00	37.86	45.91	45.94	45.94
817	40.750	36.00	36.00	37.84	45.85	45.88	45.88
818	40.800	36.00	36.00	37.82	45.78	45.81	45.81
819	40.850	36.00	36.00	37.80	45.72	45.75	45.75
820	40.900	36.00	36.00	37.78	45.65	45.68	45.68
821	40.950	36.00	36.00	37.76	45.59	45.62	45.62
822	41.000	36.00	36.00	37.74	45.52	45.55	45.55
823	41.050	36.00	36.00	37.72	45.46	45.49	45.49
824	41.100	36.00	36.00	37.70	45.40	45.43	45.43
825	41.150	36.00	36.00	37.68	45.34	45.37	45.37
826	41.200	36.00	36.00	37.67	45.28	45.31	45.31
827	41.250	36.00	36.00	37.65	45.22	45.25	45.25
828	41.300	36.00	36.00	37.63	45.16	45.19	45.19
829	41.350	36.00	36.00	37.61	45.10	45.13	45.13
830	41.400	36.00	36.00	37.60	45.04	45.07	45.07
831	41.450	36.00	36.00	37.58	44.98	45.01	45.01
832	41.500	36.00	36.00	37.56	44.93	44.95	44.95
833	41.550	36.00	36.00	37.55	44.87	44.90	44.90
834	41.600	36.00	36.00	37.53	44.81	44.84	44.84
835	41.650	36.00	36.00	37.52	44.76	44.78	44.78
836	41.700	36.00	36.00	37.50	44.70	44.73	44.73
837	41.750	36.00	36.00	37.49	44.65	44.67	44.67
838	41.800	36.00	36.00	37.47	44.59	44.62	44.62
839	41.850	36.00	36.00	37.46	44.54	44.57	44.57

840	41.900	36.00	36.00	37.44	44.49	44.51	44.51
841	41.950	36.00	36.00	37.43	44.43	44.46	44.46
842	42.000	36.00	36.00	37.41	44.38	44.41	44.41
843	42.050	36.00	36.00	37.40	44.33	44.35	44.35
844	42.100	36.00	36.00	37.38	44.28	44.30	44.30
845	42.150	36.00	36.00	37.37	44.23	44.25	44.25
846	42.200	36.00	36.00	37.36	44.18	44.20	44.20
847	42.250	36.00	36.00	37.34	44.13	44.15	44.15
848	42.300	36.00	36.00	37.33	44.08	44.10	44.10
849	42.350	36.00	36.00	37.32	44.03	44.05	44.05
850	42.400	36.00	36.00	37.31	43.98	44.00	44.00
851	42.450	36.00	36.00	37.29	43.93	43.96	43.96
852	42.500	36.00	36.00	37.28	43.89	43.91	43.91
853	42.550	36.00	36.00	37.27	43.84	43.86	43.86
854	42.600	36.00	36.00	37.26	43.79	43.81	43.81
855	42.650	36.00	36.00	37.24	43.74	43.77	43.77
856	42.700	36.00	36.00	37.23	43.70	43.72	43.72
857	42.750	36.00	36.00	37.22	43.65	43.68	43.68
858	42.800	36.00	36.00	37.21	43.61	43.63	43.63
859	42.850	36.00	36.00	37.20	43.56	43.58	43.58
860	42.900	36.00	36.00	37.19	43.52	43.54	43.54
861	42.950	36.00	36.00	37.18	43.47	43.50	43.50
862	43.000	36.00	36.00	37.17	43.43	43.45	43.45
863	43.050	36.00	36.00	37.15	43.39	43.41	43.41
864	43.100	36.00	36.00	37.14	43.34	43.37	43.37
865	43.150	36.00	36.00	37.13	43.30	43.32	43.32
866	43.200	36.00	36.00	37.12	43.26	43.28	43.28
867	43.250	36.00	36.00	37.11	43.22	43.24	43.24
868	43.300	36.00	36.00	37.10	43.18	43.20	43.20
869	43.350	36.00	36.00	37.09	43.13	43.15	43.15
870	43.400	36.00	36.00	37.08	43.09	43.11	43.11
871	43.450	36.00	36.00	37.07	43.05	43.07	43.07
872	43.500	36.00	36.00	37.07	43.01	43.03	43.03
873	43.550	36.00	36.00	37.06	42.97	42.99	42.99
874	43.600	36.00	36.00	37.05	42.93	42.95	42.95
875	43.650	36.00	36.00	37.04	42.89	42.91	42.91
876	43.700	36.00	36.00	37.03	42.86	42.87	42.87
877	43.750	36.00	36.00	37.02	42.82	42.84	42.84
878	43.800	36.00	36.00	37.01	42.78	42.80	42.80
879	43.850	36.00	36.00	37.00	42.74	42.76	42.76
880	43.900	36.00	36.00	36.99	42.70	42.72	42.72
881	43.950	36.00	36.00	36.98	42.67	42.68	42.68
882	44.000	36.00	36.00	36.98	42.63	42.65	42.65
883	44.050	36.00	36.00	36.97	42.59	42.61	42.61
884	44.100	36.00	36.00	36.96	42.56	42.57	42.57
885	44.150	36.00	36.00	36.95	42.52	42.54	42.54
886	44.200	36.00	36.00	36.94	42.48	42.50	42.50
887	44.250	36.00	36.00	36.94	42.45	42.46	42.46
888	44.300	36.00	36.00	36.93	42.41	42.43	42.43
889	44.350	36.00	36.00	36.92	42.38	42.39	42.39
890	44.400	36.00	36.00	36.91	42.34	42.36	42.36
891	44.450	36.00	36.00	36.90	42.31	42.32	42.32
892	44.500	36.00	36.00	36.90	42.27	42.29	42.29
893	44.550	36.00	36.00	36.89	42.24	42.26	42.26
894	44.600	36.00	36.00	36.88	42.21	42.22	42.22
895	44.650	36.00	36.00	36.88	42.17	42.19	42.19
896	44.700	36.00	36.00	36.87	42.14	42.15	42.15
897	44.750	36.00	36.00	36.86	42.11	42.12	42.12
898	44.800	36.00	36.00	36.85	42.07	42.09	42.09
899	44.850	36.00	36.00	36.85	42.04	42.06	42.06
900	44.900	36.00	36.00	36.84	42.01	42.02	42.02
901	44.950	36.00	36.00	36.83	41.98	41.99	41.99
902	45.000	36.00	36.00	36.83	41.94	41.96	41.96
903	45.050	36.00	36.00	36.82	41.91	41.93	41.93
904	45.100	36.00	36.00	36.81	41.88	41.90	41.90
905	45.150	36.00	36.00	36.81	41.85	41.87	41.87
906	45.200	36.00	36.00	36.80	41.82	41.83	41.83
907	45.250	36.00	36.00	36.79	41.79	41.80	41.80
908	45.300	36.00	36.00	36.79	41.76	41.77	41.77
909	45.350	36.00	36.00	36.78	41.73	41.74	41.74
910	45.400	36.00	36.00	36.78	41.70	41.71	41.71
911	45.450	36.00	36.00	36.77	41.67	41.68	41.68
912	45.500	36.00	36.00	36.76	41.64	41.65	41.65
913	45.550	36.00	36.00	36.76	41.61	41.62	41.62
914	45.600	36.00	36.00	36.75	41.58	41.60	41.60
915	45.650	36.00	36.00	36.75	41.55	41.57	41.57
916	45.700	36.00	36.00	36.74	41.52	41.54	41.54
917	45.750	36.00	36.00	36.73	41.49	41.51	41.51
918	45.800	36.00	36.00	36.73	41.47	41.48	41.48
919	45.850	36.00	36.00	36.72	41.44	41.45	41.45
920	45.900	36.00	36.00	36.72	41.41	41.42	41.42
921	45.950	36.00	36.00	36.71	41.38	41.40	41.40
922	46.000	36.00	36.00	36.71	41.36	41.37	41.37
923	46.050	36.00	36.00	36.70	41.33	41.34	41.34
924	46.100	36.00	36.00	36.70	41.30	41.31	41.31
925	46.150	36.00	36.00	36.69	41.27	41.29	41.29
926	46.200	36.00	36.00	36.69	41.25	41.26	41.26
927	46.250	36.00	36.00	36.68	41.22	41.23	41.23
928	46.300	36.00	36.00	36.68	41.20	41.21	41.21
929	46.350	36.00	36.00	36.67	41.17	41.18	41.18
930	46.400	36.00	36.00	36.67	41.14	41.16	41.16
931	46.450	36.00	36.00	36.66	41.12	41.13	41.13
932	46.500	36.00	36.00	36.66	41.09	41.10	41.10
933	46.550	36.00	36.00	36.65	41.07	41.08	41.08
934	46.600	36.00	36.00	36.65	41.04	41.05	41.05

935	46.650	36.00	36.00	36.64	41.02	41.03	41.03
936	46.700	36.00	36.00	36.64	40.99	41.00	41.00
937	46.750	36.00	36.00	36.63	40.97	40.98	40.98
938	46.800	36.00	36.00	36.63	40.94	40.95	40.95
939	46.850	36.00	36.00	36.62	40.92	40.93	40.93
940	46.900	36.00	36.00	36.62	40.89	40.90	40.90
941	46.950	36.00	36.00	36.61	40.87	40.88	40.88
942	47.000	36.00	36.00	36.61	40.85	40.86	40.86
943	47.050	36.00	36.00	36.61	40.82	40.83	40.83
944	47.100	36.00	36.00	36.60	40.80	40.81	40.81
945	47.150	36.00	36.00	36.60	40.77	40.79	40.79
946	47.200	36.00	36.00	36.59	40.75	40.76	40.76
947	47.250	36.00	36.00	36.59	40.73	40.74	40.74
948	47.300	36.00	36.00	36.58	40.70	40.72	40.72
949	47.350	36.00	36.00	36.58	40.68	40.69	40.69
950	47.400	36.00	36.00	36.58	40.66	40.67	40.67
951	47.450	36.00	36.00	36.57	40.64	40.65	40.65
952	47.500	36.00	36.00	36.57	40.61	40.63	40.63
953	47.550	36.00	36.00	36.56	40.59	40.60	40.60
954	47.600	36.00	36.00	36.56	40.57	40.58	40.58
955	47.650	36.00	36.00	36.56	40.55	40.56	40.56
956	47.700	36.00	36.00	36.55	40.53	40.54	40.54
957	47.750	36.00	36.00	36.55	40.51	40.52	40.52
958	47.800	36.00	36.00	36.54	40.48	40.49	40.49
959	47.850	36.00	36.00	36.54	40.46	40.47	40.47
960	47.900	36.00	36.00	36.54	40.44	40.45	40.45
961	47.950	36.00	36.00	36.53	40.42	40.43	40.43
962	48.000	36.00	36.00	36.53	40.40	40.41	40.41
963	48.050	36.00	36.00	36.53	40.38	40.39	40.39
964	48.100	36.00	36.00	36.52	40.36	40.37	40.37
965	48.150	36.00	36.00	36.52	40.34	40.35	40.35
966	48.200	36.00	36.00	36.52	40.32	40.33	40.33
967	48.250	36.00	36.00	36.51	40.30	40.31	40.31
968	48.300	36.00	36.00	36.51	40.28	40.29	40.29
969	48.350	36.00	36.00	36.51	40.26	40.27	40.27
970	48.400	36.00	36.00	36.50	40.24	40.25	40.25
971	48.450	36.00	36.00	36.50	40.22	40.23	40.23
972	48.500	36.00	36.00	36.50	40.20	40.21	40.21
973	48.550	36.00	36.00	36.49	40.18	40.19	40.19
974	48.600	36.00	36.00	36.49	40.16	40.17	40.17
975	48.650	36.00	36.00	36.49	40.14	40.15	40.15
976	48.700	36.00	36.00	36.48	40.12	40.13	40.13
977	48.750	36.00	36.00	36.48	40.10	40.11	40.11
978	48.800	36.00	36.00	36.48	40.08	40.09	40.09
979	48.850	36.00	36.00	36.47	40.06	40.07	40.07
980	48.900	36.00	36.00	36.47	40.04	40.05	40.05
981	48.950	36.00	36.00	36.47	40.03	40.03	40.03
982	49.000	36.00	36.00	36.46	40.01	40.02	40.02
983	49.050	36.00	36.00	36.46	39.99	40.00	40.00
984	49.100	36.00	36.00	36.46	39.97	39.98	39.98
985	49.150	36.00	36.00	36.45	39.95	39.96	39.96
986	49.200	36.00	36.00	36.45	39.93	39.94	39.94
987	49.250	36.00	36.00	36.45	39.92	39.93	39.93
988	49.300	36.00	36.00	36.45	39.90	39.91	39.91
989	49.350	36.00	36.00	36.44	39.88	39.89	39.89
990	49.400	36.00	36.00	36.44	39.86	39.87	39.87
991	49.450	36.00	36.00	36.44	39.85	39.85	39.85
992	49.500	36.00	36.00	36.43	39.83	39.84	39.84
993	49.550	36.00	36.00	36.43	39.81	39.82	39.82
994	49.600	36.00	36.00	36.43	39.79	39.80	39.80
995	49.650	36.00	36.00	36.43	39.78	39.79	39.79
996	49.700	36.00	36.00	36.42	39.76	39.77	39.77
997	49.750	36.00	36.00	36.42	39.74	39.75	39.75
998	49.800	36.00	36.00	36.42	39.73	39.74	39.74
999	49.850	36.00	36.00	36.42	39.71	39.72	39.72
1000	49.900	36.00	36.00	36.41	39.69	39.70	39.70
1001	49.950	36.00	36.00	36.41	39.68	39.69	39.69

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 1
BELOW JOCASSEE HYDRO-M1 AT MILE .10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1089.97 FEET
FLOOD STAGE = 363.00 FEET
MAX STAGE = 343.97 FEET AT TIME = .000 HOURS
MAX FLOW = 4158789 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	344.0	26600	*					
2	338.1	919270	*					
4	268.1	4158789	*					
6	166.0	1267405	*					
8	107.8	362495	*					
10	77.8	97320	*					
12	67.2	38744	*					
14	66.0	33377	*					
16	66.4	35263	*					
18	66.3	35794	*					
20	66.6	35943	*					
22	66.6	35984	*					
24	66.6	35996	*					
26	66.6	35996	*					
28	66.6	35996	*					
30	66.6	35996	*					
32	66.6	35996	*					
34	66.6	35996	*					
36	66.6	35996	*					
38	66.6	35996	*					
40	66.6	35996	*					
42	66.6	35996	*					
44	66.6	35996	*					
46	66.6	35996	*					
48	66.6	35996	*					

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 13
BELOW JOCASSEE HYDRO-M1 AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 875.67 FEET
FLOOD STAGE = 69.00 FEET
MAX STAGE = 144.67 FEET AT TIME = 4.550 HOURS
MAX FLOW = 3906715 CFS AT TIME = 4.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	65.0	26616	*					
2	75.3	839706	*					
4	138.0	3903582	*					
6	127.3	1403324	*					
8	86.0	426496	*					
10	71.0	123003	*					
12	59.7	57719	*					
14	48.6	48580	*					
16	34.2	42064	*					
18	25.1	41196	*					
20	18.4	36976	*					
22	16.3	36033	*					
24	16.4	35999	*					
26	16.4	35996	*					
28	16.4	35996	*					
30	16.4	35996	*					
32	16.4	35996	*					
34	16.4	35996	*					
36	16.4	35996	*					
38	16.4	35996	*					
40	16.4	35996	*					
42	16.4	35996	*					
44	16.4	35996	*					
46	16.4	35996	*					
48	16.4	35996	*					

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE STATION NUMBER 73
BELOW JOCASSEE HYDRO-MI AT MILE 13.90
GAGE ZERO = 648.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.25 FEET
FLOOD STAGE = 152.00 FEET
MAX STAGE = 174.25 FEET AT TIME = 5.200 HOURS
MAX FLOW = 3079901 CFS AT TIME = 5.950 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	147.9	57092						
1	147.8	40651						
2	149.6	266430						
3	156.4	835451						
4	166.8	1447652						
5	174.1	2128539						
6	169.3	3069258						
7	167.6	1782684						
8	163.9	1195007						
9	158.4	824395						
10	152.7	681803						
11	147.2	533363						
12	141.6	509794						
13	138.0	449757						
14	130.5	390145						
15	121.5	392029						
16	116.0	276288						
17	111.0	254018						
18	106.1	221964						
19	101.6	197077						
20	97.3	174958						
21	93.2	156563						
22	89.4	141595						
23	85.7	132115						
24	81.9	132732						
25	77.5	138497						
26	72.8	132177						
27	68.0	119959						
28	63.5	105692						
29	59.4	91701						
30	55.7	79240						
31	52.4	68752						
32	49.7	60311						
33	47.5	53764						
34	45.6	48851						
35	44.2	45269						
36	43.0	42717						
37	42.1	40926						
38	41.4	39677						
39	40.9	38802						
40	40.4	38185						
41	40.1	37740						
42	39.8	37412						
43	39.5	37166						
44	39.3	36976						
45	39.1	36826						
46	38.9	36707						
47	38.8	36610						
48	38.7	36530						
49	38.5	36463						

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 74
 BELOW JOCASSEE HYDRO-M1 AT MILE 14.10
 GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.58 FEET
 FLOOD STAGE = 152.60 FEET
 MAX STAGE = 175.18 FEET AT TIME = 5.150 HOURS
 MAX FLOW = 3233099 CFS AT TIME = 6.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.5	28180	.	.	.	.	.	.
2	150.2	124037	.	.	.	.	.	.
4	167.7	201586	.	.	.	.	.	.
6	169.3	3204044	.	.	.	.	.	.
8	163.8	1751754	.	.	.	.	.	.
10	152.4	1426640	.	.	.	.	.	.
12	141.3	1129241	.	.	.	.	.	.
14	130.2	960043	.	.	.	.	.	.
16	116.0	602641	.	.	.	.	.	.
18	104.0	502398	.	.	.	.	.	.
20	97.1	419620	.	.	.	.	.	.
22	89.2	351034	.	.	.	.	.	.
24	81.7	290639	.	.	.	.	.	.
26	72.7	224099	.	.	.	.	.	.
28	63.6	163539	.	.	.	.	.	.
30	55.8	117846	.	.	.	.	.	.
32	49.9	87259	.	.	.	.	.	.
34	45.9	68356	.	.	.	.	.	.
36	43.3	57272	.	.	.	.	.	.
38	41.8	50823	.	.	.	.	.	.
40	40.8	46917	.	.	.	.	.	.
42	40.1	44381	.	.	.	.	.	.
44	39.7	42620	.	.	.	.	.	.
46	39.3	41356	.	.	.	.	.	.
48	39.1	40399	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 75
 BELOW JOCASSEE HYDRO-M1 AT MILE 14.20
 GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 822.52 FEET
 FLOOD STAGE = 153.00 FEET
 MAX STAGE = 175.52 FEET AT TIME = 5.100 HOURS
 MAX FLOW = 3236375 CFS AT TIME = 6.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	148.9	19500	.	.	.	.	.	.
2	150.6	121286	.	.	.	.	.	.
4	168.1	194758	.	.	.	.	.	.
6	169.4	3207936	.	.	.	.	.	.
8	164.1	1754822	.	.	.	.	.	.
10	152.7	1430007	.	.	.	.	.	.
12	141.7	1132241	.	.	.	.	.	.
14	130.5	962638	.	.	.	.	.	.
16	116.3	604731	.	.	.	.	.	.
18	106.3	503927	.	.	.	.	.	.
20	97.4	420725	.	.	.	.	.	.
22	89.5	351882	.	.	.	.	.	.
24	82.0	291463	.	.	.	.	.	.
26	73.1	224958	.	.	.	.	.	.
28	63.9	164215	.	.	.	.	.	.
30	56.1	118311	.	.	.	.	.	.
32	50.2	87552	.	.	.	.	.	.
34	46.2	68530	.	.	.	.	.	.
36	43.7	57373	.	.	.	.	.	.
38	42.1	50885	.	.	.	.	.	.
40	41.1	46954	.	.	.	.	.	.
42	40.5	44406	.	.	.	.	.	.
44	40.0	42646	.	.	.	.	.	.
46	39.7	41369	.	.	.	.	.	.
48	39.4	40409	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE STATION NUMBER 76
BELOW JOCASSEE HYDRO-M1 AT MILE 14.80
GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 803.63 FEET
FLOOD STAGE = 23.00 FEET
MAX STAGE = 157.63 FEET AT TIME = 7.150 HOURS
MAX FLOW = 3236375 CFS AT TIME = 6.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	21.2	19500	.	.	.	.	.	.
2	35.0	121286	.	.	.	.	.	.
4	48.0	194758	.	.	.	.	.	.
6	142.8	3207936	.	.	.	.	.	.
8	155.5	1754822	.	.	.	.	.	.
10	145.4	1430007	.	.	.	.	.	.
12	133.1	1132241	.	.	.	.	.	.
14	123.4	962638	.	.	.	.	.	.
16	106.7	604731	.	.	.	.	.	.
18	96.5	503927	.	.	.	.	.	.
20	88.8	420725	.	.	.	.	.	.
22	82.1	351882	.	.	.	.	.	.
24	75.3	291463	.	.	.	.	.	.
26	67.0	224958	.	.	.	.	.	.
28	56.6	164215	.	.	.	.	.	.
30	47.8	118311	.	.	.	.	.	.
32	41.0	87552	.	.	.	.	.	.
34	36.3	68530	.	.	.	.	.	.
36	33.5	57373	.	.	.	.	.	.
38	31.8	50885
40	30.6	46954
42	29.8	44406
44	29.2	42646
46	28.7	41369
48	28.2	40409

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ATTACHMENT 7
JOSD23 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH
PRODUCED BY THE DAM BREAK OF

JOCASSEE HYDRO-M1

ON

JOC/KEO FAILURE

ANALYSIS BY

SD FAILURE: OPTION 12
JOSD23 09162008 SCFall JOC81108/K0798 W/
FPC B L RIVER CANAL CCE QT CURVE 900' 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATAWBA PROJECT

*** SUMMARY OF INPUT DATA ***

INPUT CONTROL PARAMETERS FOR JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF DYNAMIC ROUTING REACHES	KKN	1
TYPE OF RESERVOIR ROUTING	KUI	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KDMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEH	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9	NPRT	0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES) SA (K)	ELEVATION (FT) HSA (K)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1108.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	919.00
WIDTH OF BASE OF BREACH	FEET	BB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HY	1000.50
ELEVATION OF TOP OF DAM	FEET	HD	1125.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDG	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	798.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	798.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19500.00

DAM NUMBER 3

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	658.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40875.	1.0
44081.	3.0
47314.	5.0
52201.	8.0
55476.	10.0
58759.	12.0
61227.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
47307.	.2
98699.	.5
102810.	2.0
111097.	4.0
119450.	6.0
136248.	10.0
144639.	12.0

QTTL(K, 1):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

QSPILL (K, 3) CFS	HEAD (K, 3) FEET
0.	.0
78750.	.5
157500.	1.0
315000.	2.0
353000.	6.0
400000.	8.0
480000.	12.0
563000.	16.0

DNF (INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.
TEH (TIME AT WHICH COMPUTATIONS TERMINATE) = 50.0000 HRS.
BREX (BREACH EXPONENT) = .000
MUD (MUD FLOW OPTION) = 0
INF (TYPE OF WAVE FRONT TRACKING) = 0
KPRES (WETTED PERIMETER OPTION) = 0
KSL (LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-M1
.....

500.00 500.00 500.00 500.00 36000.00 36000.00 36000.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000 1.0000 7.0000 8.0000 14.0000 30.0000 140.0000

CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	MTT	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNR	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)
.....

1 3 9 10 11 12

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
.....

LOCATION OF CROSS-SECTION	MILE	XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION	FEET	FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH	FEET	HS(K,I)
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BS(K,I)
(ACTIVE FLOW PORTION)		
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BSS(K,I)
(OFF-CHANNEL PORTION)		
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		K

CROSS-SECTION NUMBER 1

XS(I) = .100 FSTG(I) = 1109.00

HS ...	746.0	780.0	840.0	940.0	1000.0	1100.0	1140.0
BS ...	.0	600.0	900.0	1400.0	1800.0	2600.0	2750.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2

XS(I) = .130 FSTG(I) = 800.00

HS ...	745.0	760.0	800.0	820.0	840.0	900.0	940.0
BS ...	.0	1000.0	1500.0	1600.0	1800.0	2000.0	2200.0
BSS ...	.0	.0	541.0	900.0	1184.0	2897.0	4000.0

CROSS-SECTION NUMBER 3

XS(I) = 1.320 FSTG(I) = 800.00

HS ...	731.0	740.0	760.0	800.0	820.0	840.0	900.0
BS ...	.0	250.0	1300.0	2000.0	2200.0	2400.0	2600.0
BSS ...	.0	.0	.0	541.0	900.0	1184.0	2897.0

CROSS-SECTION NUMBER 4

XS(I) = 2.910 FSTG(I) = 800.00

HS ...	715.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	700.0	1700.0	1850.0	2100.0	2800.0
BSS ...	.0	.0	.0	3359.0	5100.0	6807.0	12826.0

CROSS-SECTION NUMBER 5

XS(I) = 3.820 FSTG(I) = 800.00

HS ...	710.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	500.0	800.0	850.0	925.0	2300.0
BSS ...	.0	.0	.0	3771.0	5780.0	7764.0	14858.0

CROSS-SECTION NUMBER 6

XS(I) = 6.470 FSTG(I) = 800.00

HS ...	693.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	500.0	600.0	1000.0	1150.0	1300.0	1900.0
BSS ...	.0	.0	.0	412.0	680.0	957.0	2032.0

CROSS-SECTION NUMBER 7

XS(I) = 8.210 FSTG(I) = 800.00

HS ...	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	1600.0	1850.0	2000.0	2300.0	2425.0	2700.0
BSS ...	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8

XS(I) = 10.480 FSTG(I) = 800.00

HS ...	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	2400.0	3700.0	4000.0	4400.0	4660.0	4950.0
BSS ...	.0	.0	.0	.0	1426.0	2860.0	4300.0

CROSS-SECTION NUMBER 9

XS(I) = 13.900 FSTG(I) = 800.00

HS ...	648.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10

XS(I) = 14.100 FSTG(I) = 800.00

HS ...	647.4	680.0	740.0	780.0	800.0	820.0	840.0
BS0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11

XS(I) = 14.200 FSTG(I) = 800.00

HS ...	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12

XS(I) = 14.800 FSTG(I) = 669.00

HS ...	646.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS ...	.0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13

XS(I) = 16.400 FSTG(I) = 667.00

HS ...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS ...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14
.....

XS(I) = 17.800 FSTG(I) = 665.00

HS ...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS ...	.0	400.0	700.0	800.0	1800.0	2400.0	4000.0
BSS ...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15
.....

XS(I) = 20.300 FSTG(I) = 661.40

HS ...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS ...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS ...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16
.....

XS(I) = 21.900 FSTG(I) = 660.60

HS ...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS ...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS ...	.0	.0	.0	1217.0	2400.0	5000.0	6007.0

CROSS-SECTION NUMBER 17
.....

XS(I) = 25.100 FSTG(I) = 660.00

HS ...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS ...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS ...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18
.....

XS(I) = 26.700 FSTG(I) = 660.00

HS ...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS ...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19
.....

XS(I) = 29.200 FSTG(I) = 660.00

HS ...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	250.0	600.0	800.0	4700.0	6000.0	7000.0
BSS ...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20
.....

XS(I) = 31.500 FSTG(I) = 660.00

HS ...	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	1400.0	2000.0	2400.0	2800.0	3000.0
BSS ...	.0	.0	.0	2330.0	3150.0	4320.0

CROSS-SECTION NUMBER 21
.....

XS(I) = 36.800 FSTG(I) = 660.00

HS ...	589.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	600.0	1500.0	1700.0	2200.0	2900.0
BSS ...	.0	.0	.0	50.0	3664.0	5720.0

CROSS-SECTION NUMBER 22
.....

XS(I) = 40.100 FSTG(I) = 660.00

HS ...	583.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	500.0	600.0	800.0	900.0	1100.0
BSS ...	.0	.0	.0	50.0	384.0	1900.0

CROSS-SECTION NUMBER 23
.....

XS(I) = 41.100 FSTG(I) = 660.00

HS ...	540.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	1500.0	1900.0	2000.0	2150.0	2350.0
BSS ...	.0	.0	.0	50.0	10358.0	15200.0

CROSS-SECTION NUMBER 24
.....

XS(I) = 42.800 FSTG(I) = 660.00

HS ...	520.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	2000.0	4300.0	5700.0	11000.0	13000.0
BSS ...	.0	.0	3500.0	4000.0	34673.0	68200.0

CROSS-SECTION NUMBER 25
.....

XS(I) = 49.900 FSTG(I) = 660.00

HS ...	497.0	500.0	600.0	640.0	660.0	680.0
BS ...	.0	500.0	3500.0	4200.0	10000.0	10700.0
BSS ...	.0	.0	1000.0	1800.0	18239.0	29500.0

CROSS-SECTION NUMBER 26
.....

XS(I) = 53.900 FSTG(I) = 660.00

HS ...	490.0	540.0	600.0	620.0	640.0	660.0
BS ...	.0	1500.0	17000.0	14000.0	14700.0	15000.0
BSS ...	.0	.0	.0	50.0	100.0	1500.0

CROSS-SECTION NUMBER 27

XS(1) = 54.400 FSTG(1) = 496.80

HS	...	485.0	500.0	520.0	540.0	560.0	580.0	600.0
BS	...	.0	1000.0	1100.0	1200.0	1250.0	2100.0	2300.0
BSS	...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28

XS(1) = 55.700 FSTG(1) = 482.00

HS	...	474.0	480.0	500.0	520.0	540.0	580.0	600.0
BS	...	.0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS	...	.0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29

XS(1) = 69.700 FSTG(1) = 477.00

HS	...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS	...	.0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS	...	.0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30

XS(1) = 72.300 FSTG(1) = 477.00

HS	...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS	...	.0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS	...	.0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31

XS(1) = 79.900 FSTG(1) = 477.00

HS	...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS	...	.0	1500.0	1800.0	2000.0	2200.0	3800.0	6000.0
BSS	...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANNING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
 (CH(R,I), R=1, NCS) WHERE I = REACH NUMBER

REACH 1	...	.030	.030	.030	.030	.030	.030	.030
REACH 2	...	.030	.030	.035	.040	.050	.070	.080
REACH 3	...	.030	.030	.030	.035	.040	.050	.080
REACH 4	...	.030	.030	.030	.035	.040	.050	.080
REACH 5	...	.030	.030	.030	.035	.040	.050	.080
REACH 6	...	.030	.030	.030	.030	.035	.050	.080
REACH 7	...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.060	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.050	.060	.080
REACH 27 ...	.030	.030	.030	.035	.050	.060	.080
REACH 28 ...	.030	.030	.030	.035	.050	.060	.080
REACH 29 ...	.030	.030	.030	.035	.050	.060	.080
REACH 30 ...	.030	.030	.030	.035	.050	.060	.080

CROSS-SECTIONAL VARIABLES FOR JOC/NEO FAILURE
BELOW JOCASSEE HYDRO-MI

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FXC(I)

REACH NUMBER	DXM(I)	FXC(I)
1	-101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.500	.000
8	.200	.000
9	.500	.000
10	1.500	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

1

DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-MI

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET QLL		.000
INITIAL SIZE OF TIME STEP	HOUR	DTIM	.0500
DOWNSTREAM BOUNDARY PARAMETER	FEET	YDN	.000200
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPM	SDM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOUR	TFI	.00

NPLD= 1

III= 1 NXPI(K,III)= 9 NXPNI(K,III)= 10 NQLPI(K)= 0 PWELV(K,III)= 720.10 PCWR(K,III)= 3.20 FEO(K)= 794.61 QMINP(K)= .00

(PSA(I,K),I=1,8)
58854.00 353603.00 485177.00 535128.00 644168.00 703866.00 767786.00 908172.00

(PEL(I,K),I=1,8)
720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(OPU(I,K),I=1,ITEN)
.00 .00 .00 .00 .00 .00 .00 .00

(COFF(I,K),I=1,8)
.00 .00 .00 .00 .00 .00 .00 .00

(HCFF(I,K),I=1,8)
900.00 .00 .00 .00 .00 .00 .00 .00

NPM= 0

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) = 183 (MAXIMUM ALLOWABLE = 250)

*** SUMMARY OF OUTPUT DATA ***

CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESSAGE
1	.10	746.00	1	.03	33.33	
2	.13	745.00	2	1.19	11.76	
3	1.32	731.00	3	1.59	10.06	
4	2.91	715.00	4	.91	5.49	
5	3.82	710.00	5	2.65	6.42	
6	6.47	693.00	6	1.74	7.47	
7	8.21	680.00	7	2.27	3.52	
8	10.48	672.00	8	3.42	7.02	
9	13.90	648.00	9	.20	3.00	
10	14.10	647.40	10	.10	4.00	
11	14.20	647.00	11	.60	1.67	
12	14.80	646.00	12	1.60	.63	
13	16.40	645.00	13	1.40	.71	
14	17.80	644.00	14	2.50	4.40	
15	20.30	633.00	15	1.60	3.12	
16	21.90	628.00	16	3.20	2.50	
17	25.10	620.00	17	1.60	3.75	
18	26.70	614.00	18	2.50	2.80	
19	29.20	607.00	19	2.30	3.04	
20	31.50	600.00	20	5.30	2.08	
21	36.80	589.00	21	3.30	1.82	
22	40.10	583.00	22	1.00	43.00	
23	41.10	540.00	23	1.70	11.76	
24	42.80	520.00	24	7.10	3.24	
25	49.90	497.00	25	4.00	1.75	
26	53.90	490.00	26	.90	10.00	
27	54.40	485.00	27	1.30	8.46	
28	55.70	474.00	28	14.00	4.93	
29	69.70	405.00	29	2.60	6.92	
30	72.30	387.00	30	7.60	7.50	
31	79.90	330.00				

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1
IDAM(2) = 75
IDAM(3) = 140

SNC(K,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS

NN(NS) 183

NUMBER OF TIME STEPS

NNU 7

ROUTING COMPLETED.

KTIME= 1004 ALLOWABLE KTIME=9999 TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/NEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.....
.100	1107.98	2240696	.000	5.32	1109.00	.00
.130	843.28	2240696	4.650	18.43	800.00	1.60
.238	842.93	2228978	4.650	18.15	800.00	1.60
.346	842.60	2217092	4.650	17.81	800.00	1.60
.455	842.29	2204997	4.700	17.43	800.00	1.60
.563	841.99	2192725	4.700	17.01	800.00	1.60
.671	841.70	2180285	4.700	16.55	800.00	1.65
.779	841.42	2171612	4.700	16.07	800.00	1.65
.887	841.15	2163495	4.700	15.56	800.00	1.65
.995	840.88	2154791	4.750	15.04	800.00	1.65
1.104	840.61	2145572	4.750	14.50	800.00	1.70
1.212	840.33	2135911	4.750	13.97	800.00	1.70
1.320	840.03	2125890	4.750	13.43	800.00	1.70
1.426	839.80	2115301	4.750	13.44	800.00	1.70
1.532	839.56	2103496	4.800	13.45	800.00	1.70
1.638	839.33	2090494	4.800	13.46	800.00	1.70
1.744	839.09	2076319	4.800	13.47	800.00	1.70
1.850	838.85	2060997	4.800	13.47	800.00	1.75
1.956	838.60	2044560	4.800	13.49	800.00	1.75
2.062	838.35	2027150	4.800	13.50	800.00	1.75
2.168	838.10	2011944	4.800	13.51	800.00	1.75
2.274	837.84	1995575	4.800	13.51	800.00	1.75
2.380	837.57	1978071	4.800	13.52	800.00	1.75
2.486	837.30	1959458	4.800	13.52	800.00	1.80
2.592	837.02	1939773	4.800	13.53	800.00	1.80
2.698	836.73	1919063	4.850	13.53	800.00	1.80
2.804	836.43	1897389	4.850	13.53	800.00	1.80
2.910	836.12	1874824	4.850	13.53	800.00	1.80
3.013	834.20	1818382	4.850	15.93	800.00	1.85
3.117	830.88	1779294	4.950	19.82	800.00	1.90
3.220	824.70	1751946	5.850	27.61	800.00	2.00
4.024	823.88	1737762	5.950	26.91	800.00	2.05
4.228	823.12	1727988	5.950	26.30	800.00	2.10
4.432	822.42	1720959	6.000	25.77	800.00	2.15
4.635	821.76	1714912	6.050	25.32	800.00	2.15
4.839	821.13	1708825	6.050	25.05	800.00	2.20
5.043	820.55	1702659	6.100	24.80	800.00	2.25
5.247	819.99	1696329	6.100	24.54	800.00	2.30
5.451	819.46	1690058	6.100	24.29	800.00	2.35
5.655	818.95	1684049	6.100	24.04	800.00	2.40
5.858	818.47	1678402	6.100	23.78	800.00	2.50
6.062	818.00	1673164	6.100	23.52	800.00	2.55
6.266	817.56	1668391	6.100	23.26	800.00	2.60
6.470	817.13	1664146	6.100	23.00	800.00	2.65
6.687	816.69	1659880	6.050	18.20	800.00	2.60
6.905	816.40	1651491	6.050	15.11	800.00	2.55
7.122	816.89	1641035	6.000	12.90	800.00	2.55
7.340	819.06	1627171	6.000	11.21	800.00	2.55

PROFILE OF CRESTS AND TIMES FOR JOC/NEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.....
7.557	819.15	1609454	6.000	9.86	800.00	2.55
7.775	819.21	1587377	6.000	8.75	800.00	2.55
7.992	819.23	1560670	5.950	7.81	800.00	2.55
8.210	819.24	1528811	5.950	7.00	800.00	2.55
8.777	819.22	1420777	5.950	5.98	800.00	2.55
9.345	819.18	1723327	5.900	5.67	800.00	2.55
9.912	819.14	1803601	5.900	5.48	800.00	2.55
10.480	819.09	1870901	5.900	5.25	800.00	2.55
10.681	819.06	1892849	5.900	4.90	800.00	2.55
10.882	819.03	1914182	5.900	4.64	800.00	2.55
11.084	819.00	1934917	5.900	4.74	800.00	2.55
11.285	818.96	1955070	5.900	4.84	800.00	2.55
11.486	818.92	1974637	5.900	4.96	800.00	2.55
11.687	818.89	1993581	5.900	5.08	800.00	2.55
11.888	818.85	2011849	5.850	5.21	800.00	2.60
12.089	818.80	2029385	5.850	5.35	800.00	2.60
12.291	818.76	2046135	5.850	5.50	800.00	2.60
12.492	818.71	2062074	5.850	5.67	800.00	2.60
12.693	818.66	2077217	5.850	5.85	800.00	2.60
12.894	818.61	2091420	5.850	6.04	800.00	2.60
13.095	818.55	2105792	5.850	6.28	800.00	2.60

13.296	818.48	2119701	5.850	6.53	800.00	2.60
13.498	818.41	2132991	5.850	6.81	800.00	2.60
13.699	818.34	2145700	5.800	7.12	800.00	2.60
13.900	818.25	2157744	5.800	7.48	800.00	2.60
14.100	818.39	2019343	5.800	10.81	800.00	2.60
14.200	818.37	2025934	5.800	10.87	800.00	2.60
14.500	795.20	2025934	8.000	17.66	669.00	1.90
14.900	794.99	2970888	8.000	16.93	668.88	1.95
15.000	794.78	2916034	8.000	16.24	668.75	1.95
15.100	794.57	2861564	8.000	15.67	668.63	1.95
15.200	794.35	2807641	8.000	15.21	668.50	1.95
15.300	794.14	2754409	8.050	14.82	668.38	1.95
15.400	793.93	2701994	8.050	14.57	668.25	2.00
15.500	793.71	2651157	8.050	14.35	668.13	2.00
15.600	793.50	2614625	8.050	14.13	668.00	2.00
15.700	793.29	2572342	8.050	13.91	667.88	2.00
15.800	793.07	2530493	8.050	13.70	667.75	2.00
15.900	792.86	2489234	8.050	13.51	667.63	2.00
16.000	792.65	2448702	8.100	13.32	667.50	2.05
16.100	792.44	2409004	8.100	13.13	667.38	2.05
16.200	792.24	2370234	8.100	12.96	667.25	2.05
16.300	792.03	2332469	8.100	12.79	667.13	2.05
16.400	791.83	2295548	8.100	12.62	667.00	2.05
16.500	791.59	2268344	8.100	12.51	666.86	2.05
16.600	791.36	2236750	8.100	12.41	666.71	2.05
16.700	791.11	2204787	8.100	12.31	666.57	2.05
16.800	790.87	2172485	8.150	12.20	666.43	2.10

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	790.61	2139872	8.150	12.10	668.29	2.10
17.000	790.35	2106977	8.150	12.00	668.14	2.10
17.100	790.08	2073826	8.150	11.90	668.00	2.10
17.200	789.81	2043635	8.150	11.81	667.86	2.10
17.300	789.53	2014187	8.150	11.71	667.71	2.10
17.400	789.24	1984497	8.150	11.61	667.57	2.15
17.500	788.94	1954583	8.150	11.52	667.43	2.15
17.600	788.64	1924463	8.150	11.42	667.29	2.15
17.700	788.32	1897732	8.150	11.33	667.14	2.15
17.800	788.00	1874605	8.150	11.23	667.00	2.15
18.113	786.74	1822899	8.200	11.56	664.55	2.20
18.425	785.22	1792874	8.200	12.01	664.10	2.25
18.738	783.34	1774008	8.250	12.61	663.65	2.25
19.050	781.00	1761968	8.250	13.46	663.20	2.30
19.363	777.97	1753368	8.250	14.68	662.75	2.35
19.675	773.90	1746217	8.300	16.57	662.30	2.35
19.988	768.19	1739970	8.350	19.58	661.85	2.40
20.300	759.74	1735725	8.400	24.47	661.40	2.40
21.900	735.01	1704916	10.100	22.89	660.60	2.65
25.100	717.05	1436955	12.550	17.43	660.00	4.10
25.633	714.51	1380583	12.800	16.11	660.00	4.50
26.167	711.75	1324568	13.100	14.15	660.00	4.85
26.700	709.12	1292149	13.500	11.57	660.00	5.15
29.200	697.53	1233664	16.000	16.67	660.00	7.20
29.775	695.38	1219420	16.300	11.73	660.00	7.20
30.350	693.57	1203211	16.600	10.37	660.00	7.30
30.925	692.06	1185614	16.800	9.11	660.00	7.35
31.500	690.74	1167902	17.000	7.92	660.00	7.45
34.150	684.89	1103871	17.900	7.50	660.00	8.10
36.800	679.12	1062056	19.300	7.81	660.00	8.95
40.100	670.61	1036804	30.550	22.24	660.00	15.75
41.100	671.05	1025542	29.100	6.04	660.00	12.00
42.800	671.04	941760	29.150	2.06	660.00	11.95
43.814	671.02	865011	29.200	1.83	660.00	12.00
44.829	671.00	793131	29.250	1.62	660.00	12.00
45.843	670.98	725856	29.300	1.45	660.00	12.05
46.857	670.96	664042	29.350	1.29	660.00	12.05
47.871	670.94	607807	29.350	1.16	660.00	12.05
48.886	670.93	561591	29.350	1.04	660.00	12.05
49.900	670.91	525574	29.350	.94	660.00	12.05
50.900	670.91	498972	29.350	.59	660.00	12.05
51.900	670.91	483841	29.350	.45	660.00	12.05
52.900	670.90	477127	29.350	.37	660.00	12.05
53.900	670.90	475522	29.400	.33	660.00	12.05
54.400	513.70	475522	28.400	21.96	496.80	.10
55.050	500.39	475503	30.150	20.76	489.40	.30
55.700	499.25	475392	30.200	11.02	482.00	.35
56.200	497.10	475262	30.350	11.31	481.82	.60

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
56.700	494.97	475120	30.550	11.00	481.64	.90
57.200	492.85	474964	30.750	10.98	481.46	1.25
57.700	490.74	474792	30.950	10.96	481.29	1.85
58.200	488.63	474606	31.100	10.93	481.11	14.40
58.700	486.52	474407	31.300	10.91	480.93	15.50
59.200	484.42	474199	31.500	10.88	480.75	19.10
59.700	482.32	473981	31.700	10.85	480.57	22.95
60.200	480.23	473755	31.900	10.81	480.39	.00
60.700	478.14	473525	32.100	10.78	480.21	.00
61.200	476.04	473295	32.250	10.74	480.04	.00
61.700	473.96	473068	32.450	10.70	479.86	.00
62.200	471.87	472841	32.650	10.66	479.68	.00
62.700	469.78	472623	32.800	10.62	479.50	.00
63.200	467.69	472415	32.950	10.58	479.32	.00
63.700	465.60	472219	33.100	10.54	479.14	.00
64.200	463.50	472039	33.250	10.50	478.96	.00
64.700	461.40	471876	33.400	10.46	478.79	.00
65.200	459.29	471730	33.500	10.43	478.61	.00
65.700	457.17	471604	33.600	10.39	478.43	.00
66.200	455.04	471497	33.700	10.37	478.25	.00
66.700	452.88	471410	33.800	10.35	478.07	.00
67.200	450.70	471341	33.850	10.35	477.89	.00
67.700	448.47	471289	33.950	10.37	477.71	.00
68.200	446.19	471251	34.000	10.41	477.54	.00
68.700	443.83	471225	34.000	10.49	477.36	.00
69.200	441.35	471200	34.050	10.64	477.18	.00
69.700	438.68	471197	34.100	10.90	477.00	.00
70.220	435.40	471189	34.100	11.79	477.00	.00
70.740	431.82	471184	34.150	12.64	477.00	.00
71.260	428.15	471179	34.200	13.28	477.00	.00
71.780	424.33	471175	34.250	13.71	477.00	.00
72.300	420.30	471172	34.250	14.06	477.00	.00
73.386	411.89	471166	34.350	14.15	477.00	.00
74.471	403.50	471160	34.400	14.21	477.00	.00
75.557	395.16	471152	34.550	14.22	477.00	.00
76.643	387.55	471135	34.700	13.74	477.00	.00
77.729	382.52	471105	34.850	11.91	477.00	.00
78.814	380.12	471076	34.900	11.04	477.00	.00
79.900	379.05	471065	34.850	7.71	477.00	.00

K	TTP(K)	YC(K, I), I=1,NTT)
1	.000	1107.97
2	.050	1107.95
3	.100	1107.94
4	.150	1107.92
5	.200	1107.91
6	.250	1107.89
7	.300	1107.88
8	.350	1107.86
9	.400	1107.85
10	.450	1107.83
11	.500	1107.82
12	.550	1107.80
13	.600	1107.78
14	.650	1107.76
15	.700	1107.74
16	.750	1107.71
17	.800	1107.69
18	.850	1107.66
19	.900	1107.62
20	.950	1107.58
21	1.000	1107.54
22	1.050	1107.49
23	1.100	1107.43
24	1.150	1107.36
25	1.200	1107.31
26	1.250	1107.24
27	1.300	1107.16
28	1.350	1107.07
29	1.400	1106.97
30	1.450	1106.87
31	1.500	1106.75
32	1.550	1106.62
33	1.600	1106.49
34	1.650	1106.34
35	1.700	1106.18
36	1.750	1106.00
37	1.800	1105.81
38	1.850	1105.61
39	1.900	1105.39
40	1.950	1105.16
41	2.000	1104.91

42	2.050	1104.65	802.31	798.36	798.35	798.35	675.68
43	2.100	1104.36	802.69	798.47	798.46	798.45	677.74
44	2.150	1104.06	803.10	798.59	798.59	798.59	678.98
45	2.200	1103.73	803.54	798.75	798.75	798.76	679.59
46	2.250	1103.39	803.99	798.91	798.92	798.92	680.04
47	2.300	1103.02	804.48	799.07	799.08	799.08	680.41
48	2.350	1102.64	804.99	799.23	799.24	799.24	680.74
49	2.400	1102.23	805.53	799.40	799.41	799.41	681.08
50	2.450	1101.80	806.10	799.56	799.57	799.57	681.41
51	2.500	1101.34	806.69	799.72	799.73	799.73	681.76
52	2.550	1100.86	807.30	799.89	799.90	799.90	682.09
53	2.600	1100.36	807.94	800.06	800.08	800.08	682.42
54	2.650	1099.83	808.60	800.25	800.27	800.27	682.75
55	2.700	1099.28	809.28	800.46	800.48	800.48	683.07
56	2.750	1098.70	809.97	800.68	800.70	800.70	683.38
57	2.800	1098.09	810.69	800.90	800.93	800.93	683.69
58	2.850	1097.45	811.43	801.14	801.17	801.17	683.99
59	2.900	1096.79	812.19	801.39	801.42	801.42	684.29
60	2.950	1096.10	812.98	801.63	801.67	801.67	684.58
61	3.000	1095.38	813.79	801.99	801.93	801.93	684.86
62	3.050	1094.63	814.63	802.15	802.20	802.20	685.14
63	3.100	1093.84	815.49	802.42	802.47	802.47	685.42
64	3.150	1093.03	816.37	802.70	802.75	802.75	685.70
65	3.200	1092.19	817.28	802.98	803.04	803.04	685.97
66	3.250	1091.32	818.20	803.27	803.34	803.33	686.23
67	3.300	1090.41	819.13	803.57	803.64	803.64	686.50
68	3.350	1089.47	820.09	803.87	803.95	803.95	686.76
69	3.400	1088.50	821.06	804.18	804.26	804.26	687.02
70	3.450	1087.49	822.05	804.50	804.59	804.59	687.27
71	3.500	1086.45	823.06	804.83	804.92	804.92	687.53
72	3.550	1085.38	824.10	805.16	805.26	805.26	687.78
73	3.600	1084.27	825.15	805.49	805.59	805.59	688.03
74	3.650	1083.13	826.23	805.83	805.94	805.94	688.28
75	3.700	1081.95	827.32	806.18	806.29	806.29	688.53
76	3.750	1080.73	828.42	806.53	806.65	806.65	688.77
77	3.800	1079.48	829.54	806.89	807.02	807.02	689.02
78	3.850	1078.20	830.67	807.25	807.39	807.39	689.27
79	3.900	1076.87	831.81	807.63	807.77	807.77	689.51
80	3.950	1075.51	832.96	808.00	808.15	808.15	689.76
81	4.000	1074.11	834.12	808.38	808.54	808.53	690.00
82	4.050	1072.71	835.14	808.77	808.93	808.93	690.25
83	4.100	1071.31	835.89	809.16	809.32	809.32	690.49
84	4.150	1069.94	836.53	809.55	809.73	809.73	690.74
85	4.200	1068.50	837.17	809.95	810.13	810.13	690.98
86	4.250	1067.24	837.74	810.36	810.55	810.55	691.23
87	4.300	1065.92	838.24	810.77	810.96	810.96	691.47
88	4.350	1064.61	838.68	811.18	811.38	811.38	691.72
89	4.400	1063.32	839.03	811.59	811.79	811.79	691.96
90	4.450	1062.04	839.32	811.98	812.18	812.18	692.21
91	4.500	1060.78	839.54	812.35	812.56	812.56	692.45
92	4.550	1059.53	839.72	812.71	812.92	812.92	692.68
93	4.600	1058.30	839.85	813.05	813.26	813.26	692.92
94	4.650	1057.08	839.95	813.39	813.60	813.60	693.15
95	4.700	1055.87	840.01	813.74	813.94	813.94	693.38
96	4.750	1054.68	840.03	814.08	814.28	814.28	693.61
97	4.800	1053.50	840.02	814.41	814.61	814.61	693.83
98	4.850	1052.34	839.98	814.74	814.94	814.94	694.05
99	4.900	1051.19	839.91	815.06	815.25	815.25	694.25
100	4.950	1050.05	839.80	815.36	815.56	815.55	694.73
101	5.000	1048.92	839.67	815.66	815.85	815.84	695.17
102	5.050	1047.80	839.51	815.94	816.13	816.12	695.69
103	5.100	1046.70	839.33	816.21	816.40	816.39	696.31
104	5.150	1045.61	839.13	816.47	816.65	816.65	697.03
105	5.200	1044.53	838.92	816.71	816.89	816.89	697.87
106	5.250	1043.47	838.69	816.94	817.11	817.11	698.83
107	5.300	1042.41	838.45	817.13	817.31	817.30	699.90
108	5.350	1041.37	838.20	817.33	817.50	817.49	701.13
109	5.400	1040.33	837.94	817.50	817.67	817.66	702.50
110	5.450	1039.31	837.67	817.66	817.83	817.82	704.03
111	5.500	1038.30	837.40	817.81	817.98	817.96	705.67
112	5.550	1037.30	837.12	817.94	818.10	818.09	707.47
113	5.600	1036.31	836.83	818.04	818.20	818.19	709.41
114	5.650	1035.33	836.55	818.13	818.29	818.27	711.49
115	5.700	1034.37	836.26	818.19	818.35	818.32	713.72
116	5.750	1033.41	835.97	818.24	818.38	818.36	716.07
117	5.800	1032.46	835.67	818.25	818.39	818.37	718.55
118	5.850	1031.52	835.39	818.25	818.37	818.35	721.19
119	5.900	1030.60	835.10	818.21	818.33	818.30	723.97
120	5.950	1029.68	834.81	818.15	818.26	818.22	726.83
121	6.000	1028.77	834.53	818.06	818.15	818.11	729.68
122	6.050	1027.87	834.25	817.94	818.01	817.97	732.47
123	6.100	1026.98	833.97	817.79	817.84	817.80	735.21
124	6.150	1026.11	833.70	817.60	817.64	817.58	737.90
125	6.200	1025.24	833.43	817.38	817.39	817.33	740.56
126	6.250	1024.37	833.15	817.12	817.10	817.04	743.18
127	6.300	1023.52	832.88	816.82	816.77	816.70	745.78
128	6.350	1022.68	832.61	816.47	816.38	816.30	748.37
129	6.400	1021.84	832.37	816.06	815.93	815.84	750.95
130	6.450	1021.02	832.06	815.57	815.40	815.30	753.55
131	6.500	1020.20	831.78	814.97	814.75	814.64	756.18
132	6.550	1019.39	831.50	814.34	814.05	813.92	758.85
133	6.600	1018.59	831.22	813.99	813.57	813.38	761.58
134	6.650	1017.80	830.93	813.62	812.93	812.77	764.39
135	6.700	1017.02	830.64	813.19	812.25	812.07	767.29
136	6.750	1016.24	830.34	812.72	811.50	811.29	770.29

137	6.800	1015.47	830.03	812.20	810.68	810.45	773.37
138	6.850	1014.74	829.71	811.67	809.86	809.62	776.43
139	6.900	1013.96	829.38	811.17	809.12	808.88	779.37
140	6.950	1013.21	829.05	810.70	808.50	808.27	782.08
141	7.000	1012.48	828.70	810.40	808.41	808.28	784.10
142	7.050	1011.75	828.33	810.23	808.37	808.20	785.79
143	7.100	1011.02	827.96	810.01	808.26	808.14	787.24
144	7.150	1010.31	827.57	809.81	808.19	808.05	788.51
145	7.200	1009.60	827.16	809.61	808.08	807.96	789.61
146	7.250	1008.90	826.74	809.41	807.99	807.86	790.57
147	7.300	1008.21	826.29	809.21	807.86	807.75	791.41
148	7.350	1007.52	825.83	809.00	807.73	807.63	792.14
149	7.400	1006.84	825.35	808.80	807.58	807.49	792.75
150	7.450	1006.17	824.85	808.59	807.43	807.34	793.27
151	7.500	1005.50	824.34	808.39	807.28	807.19	793.71
152	7.550	1004.84	823.80	808.19	807.13	807.05	794.07
153	7.600	1004.19	823.26	808.00	806.98	806.90	794.36
154	7.650	1003.54	822.72	807.81	806.83	806.75	794.60
155	7.700	1002.90	822.16	807.64	806.69	806.62	794.79
156	7.750	1002.27	821.61	807.47	806.55	806.48	794.93
157	7.800	1001.64	821.04	807.30	806.41	806.34	795.05
158	7.850	1001.02	820.47	807.13	806.27	806.20	795.12
159	7.900	1000.40	819.91	806.96	806.12	806.05	795.17
160	7.950	999.79	819.34	806.79	805.97	805.90	795.20
161	8.000	999.19	818.79	806.63	805.82	805.75	795.20
162	8.050	998.59	818.26	806.46	805.67	805.60	795.19
163	8.100	998.00	817.74	806.28	805.51	805.44	795.16
164	8.150	997.41	817.24	806.11	805.35	805.28	795.11
165	8.200	996.83	816.76	805.93	805.18	805.11	795.05
166	8.250	996.26	816.30	805.75	805.00	804.94	794.97
167	8.300	995.69	815.84	805.57	804.82	804.76	794.89
168	8.350	995.13	815.40	805.38	804.64	804.57	794.79
169	8.400	994.57	814.97	805.19	804.45	804.38	794.68
170	8.450	994.02	814.55	805.00	804.25	804.19	794.56
171	8.500	993.48	814.14	804.80	804.06	804.00	794.43
172	8.550	992.94	813.74	804.61	803.86	803.80	794.30
173	8.600	992.40	813.35	804.41	803.66	803.60	794.15
174	8.650	991.88	812.97	804.21	803.46	803.40	794.00
175	8.700	991.35	812.60	804.01	803.26	803.20	793.85
176	8.750	990.83	812.23	803.81	803.06	802.99	793.69
177	8.800	990.32	811.88	803.60	802.85	802.79	793.53
178	8.850	989.81	811.53	803.40	802.64	802.58	793.36
179	8.900	989.31	811.18	803.20	802.44	802.38	793.19
180	8.950	988.81	810.84	802.99	802.23	802.17	793.02
181	9.000	988.32	810.51	802.79	802.02	801.96	792.84
182	9.050	987.83	810.18	802.58	801.81	801.75	792.66
183	9.100	987.35	809.86	802.38	801.60	801.54	792.48
184	9.150	986.87	809.54	802.17	801.39	801.33	792.30
185	9.200	986.40	809.22	801.96	801.18	801.12	792.12
186	9.250	985.93	808.91	801.75	800.97	800.91	791.93
187	9.300	985.46	808.60	801.54	800.76	800.70	791.75
188	9.350	985.00	808.30	801.33	800.54	800.48	791.56
189	9.400	984.55	807.99	801.12	800.33	800.27	791.37
190	9.450	984.10	807.69	800.91	800.12	800.06	791.18
191	9.500	983.65	807.40	800.70	799.90	799.84	790.99
192	9.550	983.21	807.10	800.49	799.69	799.63	790.80
193	9.600	982.77	806.81	800.28	799.47	799.41	790.61
194	9.650	982.34	806.51	800.06	799.26	799.19	790.42
195	9.700	981.91	806.22	799.85	799.04	798.98	790.23
196	9.750	981.49	805.93	799.64	798.82	798.76	790.03
197	9.800	981.07	805.64	799.42	798.60	798.54	789.84
198	9.850	980.65	805.36	799.23	798.44	798.40	789.58
199	9.900	980.24	805.07	799.06	798.31	798.26	789.27
200	9.950	979.83	804.79	798.90	798.17	798.13	788.93
201	9.975	979.63	804.64	798.78	798.09	798.05	788.73
202	10.000	979.43	804.50	798.59	797.91	797.86	788.54
203	10.050	979.03	804.22	798.33	797.65	797.59	788.24
204	10.100	978.63	803.94	798.19	797.50	797.45	787.96
205	10.150	978.24	803.66	797.95	797.25	797.19	787.68
206	10.200	977.85	803.38	797.74	797.04	796.99	787.40
207	10.250	977.46	803.10	797.53	796.82	796.77	787.12
208	10.300	977.08	802.83	797.32	796.61	796.55	786.84
209	10.350	976.71	802.55	797.11	796.40	796.34	786.56
210	10.400	976.33	802.28	796.90	796.18	796.13	786.29
211	10.450	975.96	802.01	796.69	795.97	795.92	786.02
212	10.500	975.60	801.74	796.48	795.75	795.70	785.76
213	10.550	975.24	801.48	796.26	795.53	795.48	785.50
214	10.600	974.88	801.22	796.04	795.31	795.25	785.24
215	10.650	974.52	800.96	795.83	795.08	795.03	784.99
216	10.700	974.17	800.71	795.61	794.86	794.81	784.74
217	10.750	973.82	800.46	795.39	794.64	794.59	784.50
218	10.800	973.48	800.20	795.18	794.42	794.37	784.25
219	10.850	973.13	799.94	794.96	794.20	794.15	784.01
220	10.900	972.80	799.68	794.74	793.98	793.92	783.78
221	10.950	972.46	799.42	794.53	793.76	793.70	783.54
222	11.000	972.13	799.17	794.31	793.54	793.48	783.31
223	11.050	971.80	798.92	794.09	793.31	793.26	783.08
224	11.100	971.47	798.67	793.87	793.09	793.04	782.86
225	11.150	971.15	798.42	793.65	792.87	792.82	782.63
226	11.200	970.83	798.18	793.44	792.65	792.59	782.41
227	11.250	970.52	797.93	793.22	792.43	792.37	782.19
228	11.300	970.20	797.69	792.99	792.19	792.14	781.97
229	11.350	969.89	797.43	792.74	791.95	791.89	781.76
230	11.400	969.59	797.19	792.51	791.72	791.66	781.54
231	11.450	969.28	796.94	792.28	791.48	791.42	781.33

232	11.500	968.98	796.69	792.05	791.25	791.19	781.12
233	11.550	968.68	796.45	791.81	791.02	790.96	780.91
234	11.600	968.39	796.20	791.56	790.78	790.72	780.70
235	11.650	968.10	795.96	791.35	790.55	790.49	780.49
236	11.700	967.81	795.71	791.12	790.31	790.26	780.29
237	11.750	967.52	795.47	790.88	790.08	790.02	780.08
238	11.800	967.24	795.23	790.65	789.84	789.78	779.88
239	11.850	966.96	794.98	790.41	789.60	789.55	779.68
240	11.900	966.68	794.74	790.18	789.36	789.31	779.48
241	11.950	966.40	794.49	789.94	789.12	789.06	779.28
242	12.000	966.13	794.25	789.70	788.88	788.82	779.08
243	12.050	965.86	794.00	789.47	788.64	788.59	778.88
244	12.100	965.59	793.75	789.23	788.40	788.34	778.68
245	12.150	965.33	793.50	788.99	788.16	788.10	778.48
246	12.200	965.06	793.24	788.75	787.92	787.86	778.29
247	12.250	964.80	792.99	788.52	787.68	787.62	778.09
248	12.300	964.55	792.73	788.28	787.44	787.38	777.89
249	12.350	964.29	792.48	788.04	787.20	787.14	777.70
250	12.400	964.04	792.23	787.81	786.96	786.90	777.51
251	12.450	963.79	791.97	787.57	786.72	786.66	777.31
252	12.500	963.54	791.72	787.33	786.48	786.42	777.12
253	12.550	963.30	791.47	787.10	786.24	786.18	776.93
254	12.600	963.06	791.21	786.86	786.00	785.94	776.74
255	12.650	962.81	790.96	786.62	785.76	785.70	776.54
256	12.700	962.58	790.71	786.39	785.51	785.45	776.35
257	12.750	962.34	790.45	786.15	785.27	785.21	776.16
258	12.800	962.11	790.20	785.91	785.03	784.97	775.97
259	12.850	961.88	789.95	785.67	784.79	784.73	775.79
260	12.900	961.65	789.70	785.44	784.55	784.49	775.60
261	12.950	961.42	789.44	785.20	784.31	784.25	775.41
262	13.000	961.20	789.19	784.96	784.07	784.01	775.22
263	13.050	960.97	788.94	784.72	783.83	783.76	775.03
264	13.100	960.76	788.69	784.48	783.58	783.52	774.84
265	13.150	960.54	788.44	784.25	783.34	783.28	774.66
266	13.200	960.32	788.20	784.01	783.10	783.04	774.47
267	13.250	960.11	787.95	783.77	782.86	782.80	774.28
268	13.300	959.90	787.70	783.54	782.62	782.56	774.10
269	13.350	959.69	787.45	783.30	782.38	782.32	773.91
270	13.400	959.48	787.21	783.06	782.14	782.07	773.72
271	13.450	959.27	786.96	782.82	781.90	781.83	773.54
272	13.500	959.07	786.71	782.59	781.66	781.59	773.35
273	13.550	958.87	786.47	782.35	781.41	781.35	773.17
274	13.600	958.67	786.22	782.11	781.17	781.11	772.98
275	13.650	958.47	785.98	781.88	780.93	780.87	772.80
276	13.700	958.28	785.73	781.64	780.69	780.63	772.61
277	13.750	958.08	785.49	781.41	780.45	780.39	772.43
278	13.800	957.89	785.25	781.17	780.21	780.15	772.24
279	13.850	957.70	785.01	780.93	779.97	779.91	772.06
280	13.900	957.52	784.76	780.70	779.73	779.67	771.87
281	13.950	957.33	784.52	780.46	779.49	779.43	771.69
282	14.000	957.15	784.28	780.23	779.25	779.19	771.50
283	14.050	956.96	784.04	779.99	779.02	778.95	771.32
284	14.100	956.78	783.80	779.76	778.78	778.71	771.14
285	14.150	956.60	783.56	779.52	778.54	778.47	770.95
286	14.200	956.42	783.32	779.29	778.30	778.23	770.77
287	14.250	956.25	783.08	779.05	778.06	777.99	770.59
288	14.300	956.07	782.84	778.82	777.82	777.76	770.40
289	14.350	955.90	782.61	778.58	777.58	777.52	770.22
290	14.400	955.73	782.37	778.35	777.35	777.28	770.03
291	14.450	955.56	782.13	778.12	777.12	777.06	769.84
292	14.500	955.39	781.89	777.88	776.85	776.79	769.63
293	14.550	955.30	781.78	777.26	775.04	775.27	768.74
294	14.600	955.26	781.72	775.56	773.31	774.94	768.64
295	14.650	955.22	781.66	775.04	774.93	775.19	768.55
296	14.700	955.05	781.42	774.91	774.79	774.52	768.12
297	14.750	954.97	781.30	774.80	774.72	774.84	767.95
298	14.800	954.89	781.19	774.79	774.71	774.55	767.75
299	14.850	954.72	780.95	774.67	774.54	774.57	767.38
300	14.900	954.56	780.72	774.57	774.45	774.36	767.01
301	14.950	954.40	780.48	774.46	774.25	774.23	766.63
302	15.000	954.24	780.25	774.27	774.03	773.96	766.25
303	15.050	954.08	780.01	774.05	773.72	773.68	765.86
304	15.100	953.92	779.78	773.75	773.37	773.31	765.47
305	15.150	953.77	779.55	773.40	772.92	772.87	765.07
306	15.200	953.61	779.30	772.99	772.44	772.38	764.68
307	15.250	953.46	779.04	772.59	771.96	771.91	764.30
308	15.300	953.30	778.75	772.24	771.57	771.52	763.93
309	15.350	953.15	778.40	771.97	771.28	771.23	763.58
310	15.400	953.00	777.99	771.73	771.05	771.00	763.23
311	15.450	952.85	777.52	771.51	770.83	770.78	762.89
312	15.500	952.71	777.01	771.27	770.60	770.55	762.55
313	15.550	952.56	776.49	771.04	770.37	770.32	762.22
314	15.600	952.41	776.01	770.81	770.14	770.09	761.90
315	15.650	952.27	775.60	770.58	769.92	769.87	761.58
316	15.700	952.13	775.26	770.36	769.69	769.64	761.26
317	15.750	951.98	774.98	770.13	769.46	769.41	760.96
318	15.800	951.84	774.72	769.89	769.22	769.17	760.65
319	15.850	951.70	774.46	769.64	768.97	768.92	760.35
320	15.900	951.56	774.19	769.39	768.71	768.66	760.05
321	15.950	951.43	773.94	769.13	768.45	768.39	759.77
322	16.000	951.29	773.68	768.87	768.18	768.12	759.48
323	16.050	951.15	773.41	768.61	767.90	767.85	759.19
324	16.100	951.02	773.15	768.34	767.63	767.58	758.91
325	16.150	950.89	772.88	768.08	767.36	767.31	758.63
326	16.200	950.75	772.63	767.82	767.09	767.04	758.35

327	16.100	950.62	772.37	767.56	766.83	766.77	758.07
328	16.150	950.49	772.13	767.30	766.57	766.51	757.80
329	16.200	950.36	771.89	767.05	766.31	766.26	757.54
330	16.250	950.23	771.66	766.80	766.06	766.00	757.27
331	16.300	950.11	771.43	766.55	765.81	765.75	757.01
332	16.350	949.98	771.20	766.30	765.55	765.50	756.75
333	16.400	949.86	770.98	766.05	765.30	765.25	756.49
334	16.450	949.73	770.75	765.80	765.05	764.99	756.23
335	16.500	949.61	770.53	765.55	764.79	764.74	755.98
336	16.550	949.48	770.30	765.30	764.54	764.48	755.73
337	16.600	949.36	770.07	765.04	764.28	764.23	755.48
338	16.650	949.24	769.85	764.79	764.03	763.97	755.23
339	16.700	949.12	769.62	764.54	763.78	763.72	754.99
340	16.750	949.00	769.40	764.29	763.52	763.47	754.74
341	16.800	948.89	769.17	764.04	763.27	763.21	754.50
342	16.850	948.77	768.95	763.80	763.02	762.96	754.26
343	16.900	948.65	768.73	763.55	762.77	762.71	754.02
344	16.950	948.54	768.50	763.30	762.52	762.46	753.79
345	17.000	948.42	768.28	763.05	762.27	762.21	753.55
346	17.050	948.31	768.06	762.81	762.02	761.96	753.32
347	17.100	948.20	767.83	762.56	761.77	761.71	753.09
348	17.150	948.09	767.61	762.31	761.52	761.46	752.86
349	17.200	947.97	767.39	762.07	761.27	761.21	752.63
350	17.250	947.86	767.17	761.82	761.02	760.96	752.40
351	17.300	947.76	766.95	761.57	760.77	760.71	752.18
352	17.350	947.65	766.73	761.33	760.52	760.46	751.96
353	17.400	947.54	766.51	761.08	760.27	760.22	751.73
354	17.450	947.43	766.30	760.84	760.02	759.97	751.51
355	17.500	947.33	766.08	760.59	759.78	759.72	751.29
356	17.550	947.22	765.86	760.35	759.53	759.47	751.07
357	17.600	947.12	765.65	760.11	759.28	759.23	750.85
358	17.650	947.01	765.44	759.86	759.04	758.98	750.64
359	17.700	946.91	765.22	759.62	758.79	758.73	750.42
360	17.750	946.81	765.01	759.38	758.54	758.49	750.21
361	17.800	946.71	764.80	759.13	758.30	758.24	749.99
362	17.850	946.61	764.59	758.89	758.05	757.99	749.78
363	17.900	946.51	764.38	758.65	757.81	757.75	749.57
364	17.950	946.41	764.17	758.41	757.57	757.51	749.36
365	18.000	946.31	763.97	758.17	757.32	757.27	749.15
366	18.050	946.21	763.76	757.93	757.08	757.03	748.94
367	18.100	946.11	763.56	757.70	756.84	756.78	748.74
368	18.150	946.02	763.36	757.46	756.60	756.55	748.53
369	18.200	945.92	763.16	757.22	756.36	756.31	748.33
370	18.250	945.83	762.96	756.99	756.12	756.07	748.12
371	18.300	945.73	762.76	756.75	755.89	755.83	747.92
372	18.350	945.64	762.56	756.51	755.65	755.59	747.72
373	18.400	945.55	762.37	756.28	755.41	755.35	747.52
374	18.450	945.46	762.18	756.05	755.18	755.12	747.32
375	18.500	945.36	761.98	755.81	754.94	754.88	747.12
376	18.550	945.27	761.79	755.58	754.70	754.65	746.92
377	18.600	945.18	761.61	755.35	754.47	754.41	746.73
378	18.650	945.09	761.42	755.12	754.23	754.18	746.53
379	18.700	945.01	761.23	754.88	754.00	753.94	746.34
380	18.750	944.92	761.05	754.65	753.77	753.71	746.14
381	18.800	944.83	760.87	754.42	753.54	753.48	745.95
382	18.850	944.74	760.69	754.19	753.30	753.25	745.76
383	18.900	944.66	760.51	753.96	753.07	753.01	745.56
384	18.950	944.57	760.34	753.74	752.84	752.78	745.37
385	19.000	944.49	760.16	753.51	752.61	752.55	745.18
386	19.050	944.40	759.99	753.28	752.38	752.32	744.99
387	19.100	944.32	759.82	753.05	752.15	752.10	744.80
388	19.150	944.24	759.65	752.83	751.92	751.87	744.61
389	19.200	944.15	759.49	752.60	751.70	751.64	744.43
390	19.250	944.07	759.32	752.38	751.47	751.41	744.24
391	19.300	943.99	759.16	752.15	751.24	751.18	744.05
392	19.350	943.91	759.00	751.93	751.02	750.96	743.87
393	19.400	943.83	758.84	751.70	750.79	750.73	743.68
394	19.450	943.75	758.68	751.48	750.57	750.51	743.49
395	19.500	943.67	758.53	751.26	750.34	750.28	743.31
396	19.550	943.59	758.37	751.04	750.12	750.06	743.12
397	19.600	943.51	758.22	750.82	749.89	749.84	742.94
398	19.650	943.44	758.08	750.60	749.67	749.61	742.76
399	19.700	943.36	757.93	750.38	749.45	749.39	742.57
400	19.750	943.28	757.78	750.16	749.23	749.17	742.39
401	19.800	943.21	757.64	749.94	749.01	748.95	742.21
402	19.850	943.13	757.50	749.72	748.79	748.73	742.03
403	19.900	943.06	757.36	749.50	748.57	748.51	741.85
404	19.950	942.98	757.23	749.28	748.35	748.29	741.66
405	20.000	942.91	757.09	749.07	748.13	748.07	741.48
406	20.050	942.84	756.96	748.85	747.91	747.85	741.30
407	20.100	942.77	756.83	748.63	747.69	747.63	741.12
408	20.150	942.69	756.70	748.42	747.47	747.42	740.95
409	20.200	942.62	756.58	748.20	747.26	747.20	740.77
410	20.250	942.55	756.45	747.99	747.04	746.99	740.59
411	20.300	942.48	756.33	747.77	746.83	746.77	740.41
412	20.350	942.41	756.21	747.56	746.61	746.56	740.23
413	20.400	942.34	756.09	747.35	746.40	746.34	740.05
414	20.450	942.27	755.98	747.14	746.18	746.13	739.88
415	20.500	942.20	755.87	746.92	745.97	745.91	739.70
416	20.550	942.14	755.76	746.71	745.76	745.70	739.52
417	20.600	942.07	755.65	746.50	745.55	745.49	739.35
418	20.650	942.00	755.54	746.29	745.33	745.28	739.17
419	20.700	941.93	755.44	746.08	745.12	745.07	739.00
420	20.750	941.87	755.34	745.87	744.91	744.86	738.82
421	20.800	941.80	755.24	745.66	744.70	744.65	738.65

422	20.850	941.74	755.14	745.46	744.49	744.44	738.47
423	20.900	941.67	755.04	745.25	744.29	744.23	738.30
424	20.950	941.61	754.95	745.04	744.08	744.02	738.12
425	21.000	941.55	754.86	744.84	743.87	743.81	737.95
426	21.050	941.48	754.77	744.63	743.66	743.61	737.78
427	21.100	941.42	754.68	744.42	743.46	743.40	737.61
428	21.150	941.36	754.59	744.22	743.25	743.20	737.43
429	21.200	941.29	754.51	744.01	743.04	742.99	737.26
430	21.250	941.23	754.43	743.81	742.84	742.78	737.09
431	21.300	941.17	754.35	743.61	742.63	742.58	736.92
432	21.350	941.11	754.27	743.40	742.43	742.38	736.75
433	21.400	941.05	754.19	743.20	742.23	742.17	736.58
434	21.450	940.99	754.12	743.00	742.02	741.97	736.41
435	21.500	940.93	754.04	742.80	741.82	741.77	736.24
436	21.550	940.87	753.97	742.60	741.62	741.57	736.07
437	21.600	940.81	753.90	742.39	741.42	741.36	735.90
438	21.650	940.75	753.83	742.19	741.22	741.16	735.73
439	21.700	940.70	753.77	741.99	741.02	740.96	735.56
440	21.750	940.64	753.70	741.80	740.82	740.77	735.39
441	21.800	940.58	753.64	741.60	740.62	740.57	735.23
442	21.850	940.53	753.58	741.40	740.42	740.37	735.06
443	21.900	940.47	753.51	741.20	740.22	740.17	734.89
444	21.950	940.41	753.46	741.00	740.02	739.97	734.73
445	22.000	940.36	753.40	740.81	739.83	739.77	734.56
446	22.050	940.30	753.34	740.61	739.63	739.58	734.39
447	22.100	940.25	753.28	740.41	739.43	739.38	734.23
448	22.150	940.19	753.23	740.22	739.24	739.18	734.06
449	22.200	940.14	753.18	740.02	739.04	738.99	733.89
450	22.250	940.09	753.12	739.83	738.85	738.79	733.73
451	22.300	940.03	753.07	739.63	738.65	738.60	733.57
452	22.350	939.98	753.02	739.44	738.46	738.40	733.40
453	22.400	939.93	752.97	739.25	738.26	738.21	733.24
454	22.450	939.87	752.93	739.05	738.07	738.02	733.07
455	22.500	939.82	752.88	738.86	737.88	737.82	732.91
456	22.550	939.77	752.83	738.67	737.68	737.63	732.74
457	22.600	939.72	752.79	738.47	737.49	737.44	732.58
458	22.650	939.67	752.74	738.28	737.30	737.24	732.42
459	22.700	939.62	752.70	738.09	737.11	737.05	732.25
460	22.750	939.57	752.66	737.90	736.91	736.86	732.09
461	22.800	939.52	752.62	737.71	736.72	736.67	731.93
462	22.850	939.47	752.58	737.52	736.53	736.48	731.76
463	22.900	939.42	752.54	737.33	736.34	736.29	731.60
464	22.950	939.37	752.50	737.14	736.15	736.10	731.44
465	23.000	939.32	752.46	736.95	735.96	735.90	731.28
466	23.050	939.27	752.42	736.76	735.77	735.71	731.11
467	23.100	939.23	752.38	736.57	735.58	735.53	730.95
468	23.150	939.18	752.34	736.38	735.39	735.34	730.79
469	23.200	939.13	752.31	736.19	735.20	735.15	730.63
470	23.250	939.08	752.27	736.00	735.01	734.96	730.46
471	23.300	939.04	752.24	735.81	734.82	734.77	730.30
472	23.350	938.99	752.20	735.62	734.64	734.58	730.14
473	23.400	938.95	752.17	735.43	734.45	734.39	729.98
474	23.450	938.90	752.14	735.24	734.26	734.20	729.82
475	23.500	938.85	752.10	735.06	734.07	734.01	729.66
476	23.550	938.81	752.07	734.87	733.88	733.83	729.49
477	23.600	938.77	752.04	734.68	733.70	733.64	729.33
478	23.650	938.72	752.01	734.49	733.51	733.45	729.17
479	23.700	938.68	751.97	734.30	733.32	733.26	729.01
480	23.750	938.63	751.94	734.11	733.13	733.07	728.85
481	23.800	938.59	751.91	733.92	732.94	732.89	728.68
482	23.850	938.55	751.88	733.73	732.75	732.70	728.52
483	23.900	938.50	751.85	733.54	732.57	732.51	728.36
484	23.950	938.46	751.82	733.35	732.38	732.32	728.19
485	24.000	938.42	751.79	733.16	732.19	732.13	728.03
486	24.050	938.38	751.77	732.97	732.00	731.94	727.87
487	24.100	938.33	751.74	732.78	731.81	731.75	727.70
488	24.150	938.29	751.71	732.59	731.62	731.56	727.54
489	24.200	938.25	751.68	732.40	731.43	731.37	727.37
490	24.250	938.21	751.65	732.20	731.23	731.17	727.21
491	24.300	938.17	751.63	732.01	731.04	730.98	727.04
492	24.350	938.13	751.60	731.81	730.85	730.79	726.88
493	24.400	938.09	751.57	731.61	730.65	730.59	726.71
494	24.450	938.05	751.55	731.42	730.46	730.40	726.54
495	24.500	938.01	751.52	731.22	730.26	730.20	726.37
496	24.550	937.97	751.49	731.02	730.06	730.00	726.20
497	24.600	937.93	751.47	730.81	729.86	729.80	726.03
498	24.650	937.89	751.44	730.61	729.66	729.60	725.86
499	24.700	937.85	751.42	730.40	729.46	729.40	725.69
500	24.750	937.81	751.39	730.19	729.25	729.19	725.52
501	24.800	937.78	751.37	729.98	729.05	728.99	725.34
502	24.850	937.74	751.34	729.77	728.84	728.78	725.17
503	24.900	937.70	751.32	729.56	728.63	728.57	724.99
504	24.950	937.66	751.29	729.34	728.42	728.36	724.81
505	25.000	937.63	751.27	729.12	728.20	728.14	724.63
506	25.050	937.59	751.25	728.90	727.99	727.93	724.45
507	25.100	937.55	751.22	728.68	727.77	727.71	724.27
508	25.150	937.52	751.20	728.46	727.56	727.49	724.09
509	25.200	937.48	751.18	728.23	727.34	727.27	723.90
510	25.250	937.44	751.15	728.01	727.12	727.05	723.71
511	25.300	937.41	751.13	727.78	726.89	726.83	723.52
512	25.350	937.37	751.11	727.55	726.67	726.61	723.33
513	25.400	937.34	751.09	727.32	726.44	726.38	723.14
514	25.450	937.30	751.06	727.09	726.22	726.15	722.95
515	25.500	937.27	751.04	726.86	725.99	725.93	722.75
516	25.550	937.23	751.02	726.63	725.76	725.70	722.55

517	25.600	937.20	751.00	726.39	725.53	725.46	722.35
518	25.650	937.16	750.98	726.15	725.30	725.23	722.14
519	25.700	937.13	750.96	725.92	725.06	725.00	721.93
520	25.750	937.10	750.93	725.68	724.83	724.76	721.73
521	25.800	937.06	750.91	725.44	724.59	724.53	721.51
522	25.850	937.03	750.89	725.20	724.36	724.30	721.30
523	25.900	937.00	750.87	724.97	724.13	724.07	721.08
524	25.950	936.96	750.85	724.73	723.90	723.83	720.85
525	26.000	936.93	750.83	724.48	723.66	723.59	720.63
526	26.050	936.90	750.81	724.24	723.42	723.35	720.41
527	26.100	936.87	750.79	724.00	723.18	723.11	720.18
528	26.150	936.83	750.77	723.76	722.94	722.88	719.96
529	26.200	936.80	750.75	723.52	722.71	722.64	719.73
530	26.250	936.77	750.73	723.28	722.47	722.40	719.51
531	26.300	936.74	750.71	723.03	722.23	722.16	719.29
532	26.350	936.71	750.69	722.79	721.99	721.92	719.06
533	26.400	936.68	750.67	722.55	721.75	721.68	718.83
534	26.450	936.65	750.65	722.30	721.51	721.44	718.60
535	26.500	936.62	750.63	722.06	721.27	721.20	718.37
536	26.550	936.59	750.61	721.82	721.03	720.96	718.14
537	26.600	936.56	750.60	721.57	720.79	720.72	717.91
538	26.650	936.53	750.58	721.33	720.55	720.48	717.67
539	26.700	936.50	750.56	721.09	720.31	720.24	717.44
540	26.750	936.47	750.54	720.84	720.07	720.00	717.20
541	26.800	936.44	750.52	720.60	719.83	719.76	716.96
542	26.850	936.41	750.50	720.36	719.59	719.52	716.72
543	26.900	936.38	750.49	720.11	719.35	719.28	716.48
544	26.950	936.35	750.47	719.87	719.11	719.04	716.24
545	27.000	936.32	750.45	719.63	718.87	718.80	716.00
546	27.050	936.29	750.43	719.39	718.63	718.56	715.76
547	27.100	936.26	750.41	719.14	718.39	718.32	715.51
548	27.150	936.24	750.40	718.90	718.15	718.08	715.27
549	27.200	936.21	750.38	718.66	717.91	717.84	715.02
550	27.250	936.18	750.36	718.42	717.68	717.60	714.77
551	27.300	936.15	750.35	718.18	717.44	717.37	714.52
552	27.350	936.12	750.33	717.94	717.20	717.13	714.27
553	27.400	936.10	750.31	717.71	716.97	716.89	714.01
554	27.450	936.07	750.29	717.47	716.73	716.66	713.76
555	27.500	936.04	750.28	717.23	716.50	716.42	713.50
556	27.550	936.02	750.26	716.99	716.26	716.19	713.25
557	27.600	935.99	750.24	716.76	716.03	715.95	712.99
558	27.650	935.96	750.23	716.52	715.79	715.72	712.73
559	27.700	935.94	750.21	716.28	715.56	715.49	712.47
560	27.750	935.91	750.20	716.05	715.33	715.26	712.20
561	27.800	935.89	750.18	715.82	715.10	715.02	711.94
562	27.850	935.86	750.16	715.58	714.87	714.79	711.67
563	27.900	935.83	750.15	715.35	714.63	714.56	711.41
564	27.950	935.81	750.13	715.12	714.40	714.33	711.14
565	28.000	935.78	750.12	714.89	714.18	714.10	710.87
566	28.050	935.76	750.10	714.65	713.95	713.87	710.60
567	28.100	935.73	750.09	714.42	713.72	713.64	710.33
568	28.150	935.71	750.07	714.20	713.49	713.42	710.05
569	28.200	935.68	750.05	713.97	713.27	713.19	709.78
570	28.250	935.66	750.04	713.74	713.04	712.97	709.50
571	28.300	935.64	750.02	713.51	712.82	712.74	709.23
572	28.350	935.61	750.01	713.29	712.59	712.52	708.95
573	28.400	935.59	749.99	713.06	712.37	712.29	708.67
574	28.450	935.56	749.98	712.84	712.15	712.07	708.39
575	28.500	935.54	749.96	712.62	711.93	711.85	708.11
576	28.550	935.52	749.95	712.39	711.71	711.63	707.83
577	28.600	935.49	749.93	712.17	711.49	711.41	707.55
578	28.650	935.47	749.92	711.95	711.27	711.19	707.27
579	28.700	935.45	749.91	711.73	711.05	710.98	706.99
580	28.750	935.42	749.89	711.52	710.84	710.76	706.70
581	28.800	935.40	749.88	711.30	710.62	710.55	706.42
582	28.850	935.38	749.86	711.08	710.41	710.33	706.14
583	28.900	935.35	749.85	710.87	710.20	710.12	705.85
584	28.950	935.33	749.83	710.65	709.99	709.91	705.57
585	29.000	935.31	749.82	710.44	709.77	709.70	705.29
586	29.050	935.29	749.81	710.23	709.56	709.49	705.01
587	29.100	935.27	749.79	710.02	709.36	709.28	704.73
588	29.150	935.24	749.78	709.81	709.15	709.07	704.44
589	29.200	935.22	749.77	709.60	708.94	708.86	704.16
590	29.250	935.20	749.75	709.39	708.74	708.66	703.89
591	29.300	935.18	749.74	709.19	708.53	708.46	703.61
592	29.350	935.16	749.73	708.98	708.33	708.25	703.33
593	29.400	935.14	749.71	708.78	708.13	708.05	703.06
594	29.450	935.12	749.70	708.58	707.93	707.85	702.79
595	29.500	935.09	749.69	708.37	707.73	707.65	702.53
596	29.550	935.07	749.67	708.17	707.53	707.45	702.26
597	29.600	935.05	749.66	707.98	707.34	707.26	702.00
598	29.650	935.03	749.65	707.78	707.14	707.06	701.74
599	29.700	935.01	749.63	707.58	706.95	706.87	701.49
600	29.750	934.99	749.62	707.39	706.75	706.67	701.24
601	29.800	934.97	749.61	707.19	706.56	706.48	700.99
602	29.850	934.95	749.60	707.00	706.37	706.29	700.75
603	29.900	934.93	749.58	706.81	706.18	706.10	700.50
604	29.950	934.91	749.57	706.62	705.99	705.91	700.26
605	30.000	934.89	749.56	706.43	705.80	705.72	700.02
606	30.050	934.87	749.55	706.24	705.62	705.54	699.79
607	30.100	934.85	749.53	706.05	705.43	705.35	699.56
608	30.150	934.83	749.52	705.87	705.25	705.17	699.33
609	30.200	934.81	749.51	705.68	705.07	704.99	699.10
610	30.250	934.79	749.50	705.50	704.88	704.80	698.87
611	30.300	934.78	749.49	705.32	704.71	704.62	698.65

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612	30.330	934.76	749.47	705.14	704.53	704.45	698.42
613	30.400	934.74	749.46	704.96	704.35	704.27	698.20
614	30.450	934.72	749.45	704.78	704.17	704.09	697.98
615	30.500	934.70	749.44	704.60	704.00	703.92	697.76
616	30.550	934.68	749.43	704.43	703.83	703.75	697.55
617	30.600	934.66	749.41	704.25	703.65	703.57	697.33
618	30.650	934.65	749.40	704.08	703.48	703.40	697.12
619	30.700	934.63	749.39	703.91	703.31	703.23	696.91
620	30.750	934.61	749.38	703.74	703.15	703.06	696.70
621	30.800	934.59	749.37	703.57	702.98	702.90	696.49
622	30.850	934.57	749.36	703.40	702.81	702.73	696.28
623	30.900	934.56	749.35	703.24	702.65	702.57	696.07
624	30.950	934.54	749.34	703.07	702.48	702.40	695.87
625	31.000	934.52	749.32	702.91	702.32	702.24	695.66
626	31.050	934.51	749.31	702.74	702.16	702.08	695.46
627	31.100	934.49	749.30	702.58	702.00	701.92	695.26
628	31.150	934.47	749.29	702.42	701.84	701.76	695.06
629	31.200	934.45	749.28	702.26	701.69	701.61	694.86
630	31.250	934.44	749.27	702.11	701.53	701.45	694.66
631	31.300	934.42	749.26	701.95	701.38	701.30	694.47
632	31.350	934.40	749.25	701.80	701.23	701.14	694.27
633	31.400	934.39	749.24	701.64	701.07	700.99	694.08
634	31.450	934.37	749.23	701.49	700.92	700.84	693.89
635	31.500	934.35	749.22	701.34	700.77	700.69	693.70
636	31.550	934.34	749.21	701.19	700.63	700.54	693.50
637	31.600	934.32	749.20	701.04	700.48	700.40	693.32
638	31.650	934.31	749.19	700.89	700.33	700.25	693.13
639	31.700	934.29	749.18	700.74	700.19	700.11	692.94
640	31.750	934.27	749.17	700.60	700.05	699.97	692.75
641	31.800	934.26	749.16	700.46	699.90	699.82	692.57
642	31.850	934.24	749.15	700.31	699.76	699.68	692.39
643	31.900	934.23	749.14	700.17	699.62	699.54	692.21
644	31.950	934.21	749.13	700.03	699.48	699.40	692.03
645	32.000	934.20	749.12	699.89	699.35	699.27	691.85
646	32.050	934.18	749.11	699.76	699.21	699.13	691.67
647	32.100	934.17	749.10	699.62	699.08	699.00	691.50
648	32.150	934.15	749.09	699.48	698.94	698.86	691.32
649	32.200	934.14	749.08	699.35	698.81	698.73	691.15
650	32.250	934.12	749.07	699.22	698.68	698.60	690.98
651	32.300	934.11	749.06	699.09	698.55	698.47	690.81
652	32.350	934.09	749.05	698.95	698.42	698.34	690.64
653	32.400	934.08	749.04	698.83	698.30	698.22	690.47
654	32.450	934.06	749.03	698.70	698.17	698.09	690.30
655	32.500	934.05	749.02	698.57	698.05	697.96	690.14
656	32.550	934.03	749.01	698.44	697.92	697.84	689.97
657	32.600	934.02	749.00	698.32	697.80	697.72	689.81
658	32.650	934.00	748.99	698.20	697.68	697.60	689.65
659	32.700	933.99	748.98	698.07	697.56	697.48	689.49
660	32.750	933.98	748.98	697.95	697.44	697.36	689.33
661	32.800	933.96	748.97	697.83	697.32	697.24	689.17
662	32.850	933.95	748.96	697.71	697.20	697.12	689.02
663	32.900	933.93	748.95	697.60	697.09	697.01	688.86
664	32.950	933.92	748.94	697.48	696.97	696.89	688.71
665	33.000	933.91	748.93	697.36	696.86	696.78	688.56
666	33.050	933.89	748.92	697.25	696.75	696.67	688.41
667	33.100	933.88	748.91	697.14	696.63	696.56	688.26
668	33.150	933.87	748.91	697.02	696.52	696.44	688.12
669	33.200	933.85	748.90	696.91	696.42	696.34	687.97
670	33.250	933.84	748.89	696.80	696.31	696.23	687.83
671	33.300	933.83	748.88	696.69	696.20	696.12	687.69
672	33.350	933.81	748.87	696.59	696.09	696.01	687.55
673	33.400	933.80	748.86	696.48	695.99	695.91	687.41
674	33.450	933.79	748.85	696.37	695.89	695.81	687.27
675	33.500	933.77	748.85	696.27	695.78	695.70	687.14
676	33.550	933.76	748.84	696.17	695.68	695.60	687.00
677	33.600	933.75	748.83	696.06	695.58	695.50	686.87
678	33.650	933.74	748.82	695.96	695.48	695.40	686.74
679	33.700	933.72	748.81	695.86	695.38	695.30	686.61
680	33.750	933.71	748.81	695.76	695.28	695.20	686.48
681	33.800	933.70	748.80	695.66	695.19	695.11	686.36
682	33.850	933.69	748.79	695.56	695.09	695.01	686.23
683	33.900	933.67	748.78	695.47	695.00	694.92	686.11
684	33.950	933.66	748.77	695.37	694.90	694.82	685.99
685	34.000	933.65	748.77	695.28	694.81	694.73	685.86
686	34.050	933.64	748.76	695.18	694.72	694.64	685.75
687	34.100	933.63	748.75	695.09	694.63	694.55	685.63
688	34.150	933.61	748.74	695.00	694.54	694.46	685.51
689	34.200	933.60	748.73	694.91	694.45	694.37	685.40
690	34.250	933.59	748.73	694.82	694.36	694.28	685.28
691	34.300	933.58	748.72	694.73	694.27	694.19	685.17
692	34.350	933.57	748.71	694.64	694.19	694.11	685.06
693	34.400	933.56	748.70	694.55	694.10	694.02	684.95
694	34.450	933.54	748.70	694.47	694.02	693.94	684.84
695	34.500	933.53	748.69	694.38	693.93	693.86	684.73
696	34.550	933.52	748.68	694.30	693.85	693.77	684.63
697	34.600	933.51	748.68	694.21	693.77	693.69	684.52
698	34.650	933.50	748.67	694.13	693.69	693.61	684.42
699	34.700	933.49	748.66	694.05	693.61	693.53	684.32
700	34.750	933.48	748.65	693.97	693.53	693.45	684.22
701	34.800	933.47	748.65	693.89	693.45	693.37	684.12
702	34.850	933.46	748.64	693.81	693.37	693.29	684.02
703	34.900	933.44	748.63	693.73	693.29	693.22	683.92
704	34.950	933.43	748.63	693.65	693.22	693.14	683.83
705	35.000	933.42	748.62	693.58	693.14	693.07	683.73
706	35.050	933.41	748.61	693.50	693.07	692.99	683.64

707	35.100	933.40	740.60	693.42	693.00	692.92	683.55
708	35.150	933.39	740.60	693.35	692.92	692.85	683.45
709	35.200	933.38	740.59	693.28	692.85	692.77	683.36
710	35.250	933.37	740.58	693.20	692.78	692.70	683.27
711	35.300	933.36	740.58	693.13	692.71	692.63	683.19
712	35.350	933.35	740.57	693.06	692.64	692.56	683.10
713	35.400	933.34	740.56	692.99	692.57	692.49	683.01
714	35.450	933.33	740.56	692.92	692.50	692.43	682.93
715	35.500	933.32	740.55	692.85	692.43	692.36	682.85
716	35.550	933.31	740.54	692.78	692.37	692.29	682.76
717	35.600	933.30	740.54	692.71	692.30	692.23	682.68
718	35.650	933.29	740.53	692.65	692.24	692.16	682.60
719	35.700	933.28	740.52	692.58	692.17	692.10	682.52
720	35.750	933.27	740.52	692.52	692.11	692.03	682.44
721	35.800	933.26	740.51	692.45	692.04	691.97	682.37
722	35.850	933.25	740.51	692.39	691.98	691.91	682.29
723	35.900	933.24	740.50	692.32	691.92	691.85	682.21
724	35.950	933.23	740.49	692.26	691.86	691.78	682.14
725	36.000	933.22	740.49	692.20	691.80	691.72	682.07
726	36.050	933.21	740.48	692.14	691.74	691.66	681.99
727	36.100	933.20	740.47	692.07	691.68	691.60	681.92
728	36.150	933.19	740.47	692.01	691.62	691.55	681.85
729	36.200	933.18	740.46	691.95	691.56	691.49	681.78
730	36.250	933.17	740.46	691.90	691.50	691.43	681.71
731	36.300	933.17	740.45	691.84	691.45	691.37	681.64
732	36.350	933.16	740.44	691.78	691.39	691.32	681.57
733	36.400	933.15	740.44	691.72	691.33	691.26	681.51
734	36.450	933.14	740.43	691.67	691.28	691.21	681.44
735	36.500	933.13	740.43	691.61	691.22	691.15	681.38
736	36.550	933.12	740.42	691.55	691.17	691.10	681.31
737	36.600	933.11	740.41	691.50	691.12	691.04	681.25
738	36.650	933.10	740.41	691.44	691.06	690.99	681.19
739	36.700	933.09	740.40	691.39	691.01	690.94	681.12
740	36.750	933.09	740.40	691.34	690.96	690.89	681.06
741	36.800	933.08	740.39	691.28	690.91	690.84	681.00
742	36.850	933.07	740.39	691.23	690.86	690.79	680.94
743	36.900	933.06	740.38	691.18	690.81	690.74	680.88
744	36.950	933.05	740.37	691.13	690.76	690.69	680.83
745	37.000	933.04	740.37	691.08	690.71	690.64	680.77
746	37.050	933.03	740.36	691.03	690.66	690.59	680.71
747	37.100	933.03	740.36	690.98	690.61	690.54	680.66
748	37.150	933.02	740.35	690.93	690.56	690.49	680.60
749	37.200	933.01	740.35	690.88	690.52	690.45	680.54
750	37.250	933.00	740.34	690.83	690.47	690.40	680.49
751	37.300	932.99	740.34	690.79	690.42	690.35	680.44
752	37.350	932.98	740.33	690.74	690.38	690.31	680.38
753	37.400	932.98	740.33	690.69	690.33	690.26	680.33
754	37.450	932.97	740.32	690.65	690.29	690.22	680.28
755	37.500	932.96	740.32	690.60	690.24	690.17	680.23
756	37.550	932.95	740.31	690.56	690.20	690.13	680.18
757	37.600	932.94	740.30	690.51	690.16	690.09	680.13
758	37.650	932.94	740.30	690.47	690.11	690.04	680.08
759	37.700	932.93	740.29	690.42	690.07	690.00	680.03
760	37.750	932.92	740.29	690.38	690.03	689.96	679.98
761	37.800	932.91	740.28	690.34	689.99	689.92	679.93
762	37.850	932.91	740.28	690.29	689.95	689.88	679.88
763	37.900	932.90	740.27	690.25	689.91	689.84	679.84
764	37.950	932.89	740.27	690.21	689.86	689.79	679.79
765	38.000	932.88	740.26	690.17	689.82	689.75	679.74
766	38.050	932.88	740.26	690.13	689.78	689.72	679.70
767	38.100	932.87	740.25	690.09	689.75	689.68	679.65
768	38.150	932.86	740.25	690.05	689.71	689.64	679.61
769	38.200	932.85	740.24	690.01	689.67	689.60	679.56
770	38.250	932.85	740.24	689.97	689.63	689.56	679.52
771	38.300	932.84	740.23	689.93	689.59	689.52	679.47
772	38.350	932.83	740.23	689.89	689.55	689.49	679.43
773	38.400	932.83	740.23	689.85	689.52	689.45	679.39
774	38.450	932.82	740.22	689.81	689.48	689.41	679.35
775	38.500	932.81	740.22	689.78	689.44	689.37	679.30
776	38.550	932.80	740.21	689.74	689.41	689.34	679.26
777	38.600	932.80	740.21	689.70	689.37	689.30	679.22
778	38.650	932.79	740.20	689.66	689.34	689.27	679.18
779	38.700	932.78	740.20	689.63	689.30	689.23	679.14
780	38.750	932.78	740.19	689.59	689.27	689.20	679.10
781	38.800	932.77	740.19	689.56	689.23	689.16	679.06
782	38.850	932.76	740.18	689.52	689.20	689.13	679.02
783	38.900	932.76	740.18	689.49	689.16	689.10	678.98
784	38.950	932.75	740.17	689.45	689.13	689.06	678.94
785	39.000	932.74	740.17	689.42	689.10	689.03	678.91
786	39.050	932.74	740.17	689.38	689.06	689.00	678.87
787	39.100	932.73	740.16	689.35	689.03	688.96	678.83
788	39.150	932.72	740.16	689.32	689.00	688.93	678.79
789	39.200	932.72	740.15	689.28	688.97	688.90	678.76
790	39.250	932.71	740.15	689.25	688.94	688.87	678.72
791	39.300	932.70	740.14	689.22	688.90	688.84	678.68
792	39.350	932.70	740.14	689.19	688.87	688.81	678.65
793	39.400	932.69	740.14	689.15	688.84	688.78	678.61
794	39.450	932.68	740.13	689.12	688.81	688.74	678.58
795	39.500	932.68	740.13	689.09	688.78	688.71	678.54
796	39.550	932.67	740.12	689.06	688.75	688.68	678.51
797	39.600	932.67	740.12	689.03	688.72	688.66	678.47
798	39.650	932.66	740.12	689.00	688.69	688.63	678.44
799	39.700	932.65	740.11	688.97	688.66	688.60	678.40
800	39.750	932.65	740.11	688.94	688.63	688.57	678.37
801	39.800	932.64	740.10	688.91	688.61	688.54	678.34

802	39.850	932.63	748.10	688.88	688.58	688.51	678.30
803	39.900	932.63	748.09	688.85	688.55	688.48	678.27
804	39.950	932.62	748.09	688.82	688.52	688.45	678.24
805	40.000	932.62	748.09	688.79	688.49	688.43	678.21
806	40.050	932.61	748.08	688.76	688.47	688.40	678.17
807	40.100	932.60	748.08	688.74	688.44	688.37	678.14
808	40.150	932.60	748.08	688.71	688.41	688.34	678.11
809	40.200	932.59	748.07	688.68	688.38	688.32	678.08
810	40.250	932.59	748.07	688.65	688.36	688.29	678.05
811	40.300	932.58	748.06	688.62	688.33	688.27	678.02
812	40.350	932.58	748.06	688.60	688.31	688.24	677.99
813	40.400	932.57	748.06	688.57	688.28	688.21	677.96
814	40.450	932.56	748.05	688.54	688.25	688.19	677.93
815	40.500	932.56	748.05	688.52	688.23	688.16	677.90
816	40.550	932.55	748.04	688.49	688.20	688.14	677.87
817	40.600	932.55	748.04	688.47	688.18	688.11	677.84
818	40.650	932.54	748.04	688.44	688.15	688.09	677.81
819	40.700	932.54	748.03	688.41	688.13	688.06	677.78
820	40.750	932.53	748.03	688.39	688.10	688.04	677.75
821	40.800	932.53	748.03	688.36	688.08	688.01	677.72
822	40.850	932.52	748.02	688.34	688.06	687.99	677.69
823	40.900	932.52	748.02	688.31	688.03	687.97	677.66
824	40.950	932.51	748.02	688.29	688.01	687.94	677.64
825	41.000	932.50	748.01	688.26	687.98	687.92	677.61
826	41.050	932.50	748.01	688.24	687.96	687.90	677.58
827	41.100	932.49	748.01	688.22	687.94	687.87	677.55
828	41.150	932.49	748.00	688.19	687.91	687.85	677.52
829	41.200	932.48	748.00	688.17	687.89	687.83	677.50
830	41.250	932.48	747.99	688.15	687.87	687.80	677.47
831	41.300	932.47	747.99	688.12	687.85	687.78	677.44
832	41.350	932.47	747.99	688.10	687.82	687.76	677.42
833	41.400	932.46	747.98	688.08	687.80	687.74	677.39
834	41.450	932.46	747.98	688.05	687.78	687.72	677.36
835	41.500	932.45	747.98	688.03	687.76	687.69	677.34
836	41.550	932.45	747.97	688.01	687.74	687.67	677.31
837	41.600	932.44	747.97	687.99	687.72	687.65	677.29
838	41.650	932.44	747.97	687.96	687.69	687.63	677.26
839	41.700	932.43	747.96	687.94	687.67	687.61	677.23
840	41.750	932.43	747.96	687.92	687.65	687.59	677.21
841	41.800	932.42	747.96	687.90	687.63	687.57	677.18
842	41.850	932.42	747.96	687.88	687.61	687.55	677.16
843	41.900	932.41	747.95	687.86	687.59	687.53	677.13
844	41.950	932.41	747.95	687.84	687.57	687.51	677.11
845	42.000	932.41	747.95	687.82	687.55	687.49	677.08
846	42.050	932.40	747.94	687.79	687.53	687.47	677.06
847	42.100	932.40	747.94	687.77	687.51	687.45	677.04
848	42.150	932.39	747.94	687.75	687.49	687.43	677.01
849	42.200	932.39	747.93	687.73	687.47	687.41	676.99
850	42.250	932.38	747.93	687.71	687.45	687.39	676.96
851	42.300	932.38	747.93	687.69	687.43	687.37	676.94
852	42.350	932.37	747.92	687.67	687.41	687.35	676.92
853	42.400	932.37	747.92	687.65	687.39	687.33	676.89
854	42.450	932.36	747.92	687.63	687.38	687.31	676.87
855	42.500	932.36	747.91	687.61	687.36	687.29	676.85
856	42.550	932.36	747.91	687.60	687.34	687.28	676.82
857	42.600	932.35	747.91	687.58	687.32	687.26	676.80
858	42.650	932.35	747.91	687.56	687.30	687.24	676.78
859	42.700	932.34	747.90	687.54	687.28	687.22	676.76
860	42.750	932.34	747.90	687.52	687.27	687.20	676.73
861	42.800	932.33	747.90	687.50	687.25	687.19	676.71
862	42.850	932.33	747.89	687.48	687.23	687.17	676.69
863	42.900	932.33	747.89	687.46	687.21	687.15	676.67
864	42.950	932.32	747.89	687.45	687.20	687.13	676.64
865	43.000	932.32	747.89	687.43	687.18	687.12	676.62
866	43.050	932.31	747.88	687.41	687.16	687.10	676.60
867	43.100	932.31	747.88	687.39	687.14	687.08	676.58
868	43.150	932.30	747.88	687.37	687.13	687.06	676.56
869	43.200	932.30	747.88	687.36	687.11	687.05	676.54
870	43.250	932.30	747.87	687.34	687.09	687.03	676.51
871	43.300	932.29	747.87	687.32	687.08	687.01	676.49
872	43.350	932.29	747.87	687.31	687.06	687.00	676.47
873	43.400	932.28	747.86	687.29	687.04	686.98	676.45
874	43.450	932.28	747.86	687.27	687.03	686.97	676.43
875	43.500	932.28	747.86	687.25	687.01	686.95	676.41
876	43.550	932.27	747.86	687.24	686.99	686.93	676.39
877	43.600	932.27	747.85	687.22	686.98	686.92	676.37
878	43.650	932.26	747.85	687.20	686.96	686.90	676.35
879	43.700	932.26	747.85	687.19	686.95	686.89	676.33
880	43.750	932.26	747.85	687.17	686.93	686.87	676.31
881	43.800	932.25	747.84	687.16	686.92	686.85	676.29
882	43.850	932.25	747.84	687.14	686.90	686.84	676.27
883	43.900	932.25	747.84	687.12	686.89	686.82	676.25
884	43.950	932.24	747.84	687.11	686.87	686.81	676.23
885	44.000	932.24	747.83	687.09	686.86	686.79	676.21
886	44.050	932.23	747.83	687.08	686.84	686.78	676.19
887	44.100	932.23	747.83	687.06	686.83	686.76	676.17
888	44.150	932.23	747.83	687.05	686.81	686.75	676.15
889	44.200	932.22	747.82	687.03	686.80	686.73	676.13
890	44.250	932.22	747.82	687.02	686.78	686.72	676.11
891	44.300	932.22	747.82	687.00	686.77	686.71	676.10
892	44.350	932.21	747.82	686.99	686.75	686.69	676.08
893	44.400	932.21	747.81	686.97	686.74	686.68	676.06
894	44.450	932.21	747.81	686.96	686.72	686.66	676.04
895	44.500	932.20	747.81	686.94	686.71	686.65	676.02
896	44.550	932.20	747.81	686.93	686.70	686.63	676.00

897	44.600	932.19	747.80	686.91	686.68	686.62	675.98
898	44.650	932.19	747.80	686.90	686.67	686.61	675.97
899	44.700	932.19	747.80	686.88	686.65	686.59	675.95
900	44.750	932.18	747.80	686.87	686.64	686.58	675.93
901	44.800	932.18	747.79	686.86	686.63	686.57	675.91
902	44.850	932.18	747.79	686.84	686.61	686.55	675.90
903	44.900	932.17	747.79	686.83	686.60	686.54	675.88
904	44.950	932.17	747.79	686.81	686.59	686.53	675.86
905	45.000	932.17	747.79	686.80	686.57	686.51	675.84
906	45.050	932.16	747.78	686.79	686.56	686.50	675.82
907	45.100	932.16	747.78	686.77	686.55	686.49	675.81
908	45.150	932.16	747.78	686.76	686.54	686.47	675.79
909	45.200	932.15	747.78	686.75	686.52	686.46	675.77
910	45.250	932.15	747.77	686.73	686.51	686.45	675.76
911	45.300	932.15	747.77	686.72	686.50	686.44	675.74
912	45.350	932.14	747.77	686.71	686.48	686.42	675.72
913	45.400	932.14	747.77	686.69	686.47	686.41	675.71
914	45.450	932.14	747.77	686.68	686.46	686.40	675.69
915	45.500	932.14	747.76	686.67	686.45	686.39	675.67
916	45.550	932.13	747.76	686.65	686.43	686.37	675.66
917	45.600	932.13	747.76	686.64	686.42	686.36	675.64
918	45.650	932.13	747.76	686.63	686.41	686.35	675.62
919	45.700	932.12	747.76	686.62	686.40	686.34	675.61
920	45.750	932.12	747.75	686.60	686.39	686.33	675.59
921	45.800	932.12	747.75	686.59	686.37	686.31	675.57
922	45.850	932.11	747.75	686.58	686.36	686.30	675.56
923	45.900	932.11	747.75	686.57	686.35	686.29	675.54
924	45.950	932.11	747.75	686.55	686.34	686.28	675.53
925	46.000	932.11	747.74	686.54	686.33	686.27	675.51
926	46.050	932.10	747.74	686.53	686.32	686.26	675.49
927	46.100	932.10	747.74	686.52	686.30	686.24	675.48
928	46.150	932.10	747.74	686.51	686.29	686.23	675.46
929	46.200	932.09	747.74	686.50	686.28	686.22	675.45
930	46.250	932.09	747.73	686.48	686.27	686.21	675.43
931	46.300	932.09	747.73	686.47	686.26	686.20	675.42
932	46.350	932.08	747.73	686.46	686.25	686.19	675.40
933	46.400	932.08	747.73	686.45	686.24	686.18	675.39
934	46.450	932.08	747.73	686.44	686.23	686.17	675.37
935	46.500	932.08	747.72	686.43	686.22	686.16	675.36
936	46.550	932.07	747.72	686.42	686.21	686.15	675.34
937	46.600	932.07	747.72	686.40	686.19	686.14	675.33
938	46.650	932.07	747.72	686.39	686.18	686.12	675.31
939	46.700	932.07	747.72	686.38	686.17	686.11	675.30
940	46.750	932.06	747.71	686.37	686.16	686.10	675.28
941	46.800	932.06	747.71	686.36	686.15	686.09	675.27
942	46.850	932.06	747.71	686.35	686.14	686.08	675.25
943	46.900	932.05	747.71	686.34	686.13	686.07	675.24
944	46.950	932.05	747.71	686.33	686.12	686.06	675.22
945	47.000	932.05	747.71	686.32	686.11	686.05	675.21
946	47.050	932.05	747.70	686.31	686.10	686.04	675.20
947	47.100	932.04	747.70	686.30	686.09	686.03	675.18
948	47.150	932.04	747.70	686.29	686.08	686.02	675.17
949	47.200	932.04	747.70	686.28	686.07	686.01	675.15
950	47.250	932.04	747.70	686.26	686.06	686.00	675.14
951	47.300	932.03	747.70	686.25	686.05	685.99	675.13
952	47.350	932.03	747.69	686.24	686.04	685.98	675.11
953	47.400	932.03	747.69	686.23	686.03	685.97	675.10
954	47.450	932.03	747.69	686.22	686.02	685.96	675.08
955	47.500	932.02	747.69	686.21	686.01	685.95	675.07
956	47.550	932.02	747.69	686.20	686.00	685.94	675.06
957	47.600	932.02	747.68	686.19	685.99	685.93	675.04
958	47.650	932.02	747.68	686.18	685.98	685.93	675.03
959	47.700	932.01	747.68	686.17	685.97	685.92	675.02
960	47.750	932.01	747.68	686.17	685.97	685.91	675.00
961	47.800	932.01	747.68	686.16	685.96	685.90	674.99
962	47.850	932.01	747.68	686.15	685.95	685.89	674.98
963	47.900	932.00	747.68	686.14	685.94	685.88	674.96
964	47.950	932.00	747.67	686.13	685.93	685.87	674.95
965	48.000	932.00	747.67	686.12	685.92	685.86	674.94
966	48.050	932.00	747.67	686.11	685.91	685.85	674.93
967	48.100	932.00	747.67	686.10	685.90	685.84	674.91
968	48.150	931.99	747.67	686.09	685.89	685.83	674.90
969	48.200	931.99	747.67	686.08	685.88	685.83	674.89
970	48.250	931.99	747.66	686.07	685.88	685.82	674.87
971	48.300	931.99	747.66	686.06	685.87	685.81	674.86
972	48.350	931.98	747.66	686.05	685.86	685.80	674.85
973	48.400	931.98	747.66	686.04	685.85	685.79	674.84
974	48.450	931.98	747.66	686.04	685.84	685.78	674.82
975	48.500	931.98	747.66	686.03	685.83	685.77	674.81
976	48.550	931.97	747.65	686.02	685.82	685.77	674.80
977	48.600	931.97	747.65	686.01	685.82	685.76	674.79
978	48.650	931.97	747.65	686.00	685.81	685.75	674.77
979	48.700	931.97	747.65	685.99	685.80	685.74	674.76
980	48.750	931.97	747.65	685.98	685.79	685.73	674.75
981	48.800	931.96	747.65	685.97	685.78	685.72	674.74
982	48.850	931.96	747.65	685.97	685.77	685.72	674.72
983	48.900	931.96	747.64	685.96	685.77	685.71	674.71
984	48.950	931.96	747.64	685.95	685.76	685.70	674.70
985	49.000	931.96	747.64	685.94	685.75	685.69	674.69
986	49.050	931.95	747.64	685.93	685.74	685.68	674.68
987	49.100	931.95	747.64	685.92	685.73	685.68	674.67
988	49.150	931.95	747.64	685.92	685.73	685.67	674.65
989	49.200	931.95	747.64	685.91	685.72	685.66	674.64
990	49.250	931.95	747.63	685.90	685.71	685.65	674.63
991	49.300	931.94	747.63	685.89	685.70	685.64	674.62

992	49.350	931.94	747.63	685.88	685.69	685.64	674.61
993	49.400	931.94	747.63	685.88	685.69	685.63	674.60
994	49.450	931.94	747.63	685.87	685.68	685.62	674.58
995	49.500	931.94	747.63	685.86	685.67	685.61	674.57
996	49.550	931.93	747.63	685.85	685.66	685.61	674.56
997	49.600	931.93	747.63	685.84	685.66	685.60	674.55
998	49.650	931.93	747.62	685.84	685.65	685.59	674.54
999	49.700	931.93	747.62	685.83	685.64	685.58	674.53
1000	49.750	931.93	747.62	685.82	685.63	685.58	674.52
1001	49.800	931.92	747.62	685.81	685.63	685.57	674.50
1002	49.850	931.92	747.62	685.81	685.62	685.56	674.49
1003	49.900	931.92	747.62	685.80	685.61	685.56	674.48
1004	49.950	931.92	747.62	685.79	685.61	685.55	674.47

K	TTP (H)	QC (K, I), I=1,NTT					
1	.000	26.60	26.62	112.97	41.90	19.50	19.50
2	.050	28.60	26.61	121.23	2.78	19.50	19.50
3	.100	28.60	26.60	109.03	32.45	19.50	19.50
4	.150	28.60	26.60	104.18	12.04	19.50	19.50
5	.200	26.60	26.62	94.44	24.47	19.50	19.50
6	.250	26.60	26.70	99.16	15.86	19.50	19.50
7	.300	26.60	26.97	90.04	21.47	19.50	19.50
8	.350	26.66	27.73	89.61	17.53	19.50	19.50
9	.400	27.15	29.59	76.08	19.37	19.50	19.50
10	.450	28.10	33.20	69.04	18.14	19.50	19.50
11	.500	29.56	38.58	62.65	18.91	19.50	19.50
12	.550	31.57	44.40	61.33	19.26	19.50	19.50
13	.600	34.18	48.26	62.83	19.93	19.50	19.50
14	.650	37.44	48.15	66.02	20.22	19.50	19.50
15	.700	41.40	44.22	67.67	20.02	19.50	19.50
16	.750	46.08	39.79	67.26	19.71	19.50	19.50
17	.800	51.53	38.82	65.28	19.41	19.50	19.50
18	.850	57.78	46.97	63.16	19.37	19.50	19.50
19	.900	64.86	58.97	61.37	19.38	19.50	19.50
20	.950	72.80	70.90	59.56	19.38	19.50	19.50
21	1.000	81.64	79.98	57.39	19.30	19.50	19.50
22	1.050	90.06	86.88	54.95	19.24	19.50	19.50
23	1.100	99.42	93.30	52.58	19.21	19.50	19.50
24	1.150	109.74	100.36	50.41	19.23	19.50	19.50
25	1.200	121.05	108.62	48.60	19.27	19.50	19.50
26	1.250	133.37	118.11	47.29	19.35	19.50	19.50
27	1.300	146.70	129.00	46.71	19.47	19.50	19.50
28	1.350	161.07	141.81	47.08	19.66	19.50	19.50
29	1.400	176.49	156.73	48.55	19.89	19.50	19.50
30	1.450	192.97	173.59	50.96	20.09	19.50	19.50
31	1.500	210.53	192.01	53.82	20.20	19.50	19.50
32	1.550	229.16	211.35	56.54	20.20	19.50	19.50
33	1.600	248.88	231.10	58.83	20.12	19.50	19.50
34	1.650	269.70	251.05	60.97	20.08	19.50	19.50
35	1.700	291.61	271.37	63.68	20.17	19.50	19.50
36	1.750	314.61	292.38	67.69	20.37	19.50	19.50
37	1.800	338.71	314.47	73.33	20.64	19.50	19.50
38	1.850	363.91	337.87	82.37	23.90	22.77	22.77
39	1.900	390.19	362.64	100.17	38.82	38.25	38.25
40	1.950	417.56	388.64	123.56	57.77	56.67	56.67
41	2.000	446.01	415.71	146.92	75.91	74.90	74.90
42	2.050	476.85	443.95	170.26	93.41	92.15	92.15
43	2.100	508.74	473.74	193.40	110.67	109.54	109.54
44	2.150	541.66	504.73	212.39	120.32	118.44	118.44
45	2.200	575.41	536.37	224.86	120.87	118.90	118.90
46	2.250	610.56	568.82	236.19	121.17	119.34	119.34
47	2.300	646.50	602.20	248.24	121.74	119.79	119.79
48	2.350	683.41	636.43	259.95	122.12	120.24	120.24
49	2.400	721.26	671.59	271.63	122.61	120.69	120.69
50	2.450	760.04	707.72	282.98	123.03	121.13	121.13
51	2.500	799.71	744.76	294.32	123.51	121.58	121.58
52	2.550	840.26	782.76	306.15	124.05	122.04	122.04
53	2.600	881.65	821.72	319.13	124.79	122.65	122.65
54	2.650	923.86	861.56	333.69	125.76	123.44	123.44
55	2.700	966.87	902.26	349.80	126.80	124.30	124.30
56	2.750	1010.62	943.68	367.14	127.86	125.21	125.21
57	2.800	1055.11	985.70	385.34	128.94	126.17	126.17
58	2.850	1100.28	1028.24	404.02	130.03	127.17	127.17
59	2.900	1146.12	1071.23	422.97	131.12	128.19	128.19
60	2.950	1192.57	1114.69	442.12	132.24	129.24	129.24
61	3.000	1239.62	1158.64	461.45	133.40	130.32	130.32
62	3.050	1287.21	1203.14	481.04	134.59	131.43	131.43
63	3.100	1335.31	1248.21	500.88	135.81	132.57	132.57
64	3.150	1383.88	1293.86	520.91	137.07	133.74	133.74
65	3.200	1432.88	1340.09	541.13	138.36	134.94	134.94
66	3.250	1482.27	1386.85	561.55	139.67	136.17	136.17
67	3.300	1532.01	1434.05	582.12	141.02	137.43	137.43
68	3.350	1582.06	1481.63	602.87	142.40	138.73	138.73
69	3.400	1632.38	1529.16	623.79	143.83	140.06	140.06
70	3.450	1682.91	1576.43	644.85	145.27	141.42	141.42
71	3.500	1733.62	1623.61	666.06	146.76	142.82	142.82
72	3.550	1784.46	1670.93	687.32	148.27	144.24	144.24
73	3.600	1835.40	1718.48	711.63	149.42	145.63	145.63

74	3.650	1886.37	1766.24	734.51	151.41	147.09	147.09
75	3.700	1937.35	1814.26	757.67	152.62	148.57	148.57
76	3.750	1988.28	1862.52	780.72	154.46	150.09	150.09
77	3.800	2039.13	1910.95	803.65	155.90	151.63	151.63
78	3.850	2089.83	1959.40	826.27	157.63	153.19	153.19
79	3.900	2140.36	2007.75	848.56	159.21	154.77	154.77
80	3.950	2190.66	2055.92	870.47	160.90	156.37	156.37
81	4.000	2240.70	2103.84	892.09	162.56	157.99	157.99
82	4.050	2290.57	2151.89	913.49	164.28	159.63	159.63
83	4.100	2340.22	2201.59	934.71	166.01	161.30	161.30
84	4.150	2389.62	2251.07	955.70	167.76	162.99	162.99
85	4.200	2438.75	2300.02	976.43	169.53	164.70	164.70
86	4.250	2487.60	2348.05	996.86	171.31	166.43	166.43
87	4.300	2536.15	2396.98	1016.73	173.09	168.17	168.17
88	4.350	2584.38	2445.43	1035.35	174.82	169.92	169.92
89	4.400	2632.28	2493.58	1051.61	176.44	171.64	171.64
90	4.450	2679.83	2541.57	1067.20	177.90	173.30	173.30
91	4.500	2727.01	2589.66	1082.37	179.22	174.88	174.88
92	4.550	2773.81	2637.77	1097.16	180.50	176.38	176.38
93	4.600	2820.29	2685.50	1111.61	181.83	177.82	177.82
94	4.650	2866.44	2732.94	1125.82	183.26	179.24	179.24
95	4.700	2912.28	2780.14	1139.79	184.70	180.67	180.67
96	4.750	2957.81	2827.07	1153.43	186.07	182.09	182.09
97	4.800	3003.01	2873.81	1166.83	187.39	183.49	183.49
98	4.850	3047.88	2920.26	1180.00	188.69	184.86	184.86
99	4.900	3092.41	2966.43	1192.94	189.95	186.17	186.17
100	4.950	3136.60	3012.31	1205.65	191.24	187.42	187.42
101	5.000	3180.45	3057.90	1218.13	192.45	188.61	188.61
102	5.050	3223.95	3103.21	1230.40	193.59	189.72	189.72
103	5.100	3267.10	3148.26	1242.45	194.67	190.77	190.77
104	5.150	3310.00	3193.07	1254.28	195.69	191.77	191.77
105	5.200	3352.64	3237.64	1265.90	196.67	192.72	192.72
106	5.250	3395.02	3281.97	1277.31	197.60	193.63	193.63
107	5.300	3437.14	3326.07	1288.51	198.48	194.50	194.50
108	5.350	3478.99	3369.94	1299.50	199.31	195.33	195.33
109	5.400	3520.57	3413.58	1310.28	200.09	196.13	196.13
110	5.450	3561.88	3456.99	1320.85	200.82	196.90	196.90
111	5.500	3602.91	3499.18	1331.21	201.50	197.63	197.63
112	5.550	3643.66	3541.14	1341.36	202.13	198.33	198.33
113	5.600	3684.13	3582.87	1351.30	202.71	198.99	198.99
114	5.650	3724.32	3624.38	1361.03	203.24	199.61	199.61
115	5.700	3764.23	3665.67	1370.55	203.72	200.19	200.19
116	5.750	3803.86	3706.74	1379.86	204.15	200.72	200.72
117	5.800	3843.21	3747.59	1388.96	204.53	201.21	201.21
118	5.850	3882.28	3788.22	1397.85	204.86	201.66	201.66
119	5.900	3921.07	3828.63	1406.53	205.14	202.07	202.07
120	5.950	3959.58	3868.82	1415.00	205.37	202.44	202.44
121	6.000	3997.81	3908.79	1423.26	205.55	202.77	202.77
122	6.050	4035.76	3948.54	1431.31	205.68	203.06	203.06
123	6.100	4073.43	3988.07	1439.15	205.76	203.31	203.31
124	6.150	4110.82	4027.38	1446.78	205.79	203.52	203.52
125	6.200	4147.93	4066.47	1454.20	205.77	203.69	203.69
126	6.250	4184.76	4105.34	1461.51	205.70	203.82	203.82
127	6.300	4221.31	4143.99	1468.71	205.58	203.91	203.91
128	6.350	4257.58	4182.42	1475.80	205.41	203.96	203.96
129	6.400	4293.57	4220.63	1482.78	205.19	203.97	203.97
130	6.450	4329.28	4258.63	1489.65	204.92	203.94	203.94
131	6.500	4364.71	4296.42	1496.40	204.59	203.87	203.87
132	6.550	4400.86	4333.91	1503.03	204.21	203.77	203.77
133	6.600	4436.73	4371.19	1509.54	203.78	203.63	203.63
134	6.650	4472.32	4408.26	1515.93	203.30	203.45	203.45
135	6.700	4507.63	4445.12	1522.20	202.77	203.22	203.22
136	6.750	4542.66	4481.74	1528.35	202.19	202.94	202.94
137	6.800	4577.41	4518.19	1534.38	201.56	202.61	202.61
138	6.850	4611.88	4554.47	1540.29	200.88	202.23	202.23
139	6.900	4646.07	4590.58	1546.08	200.15	201.80	201.80
140	6.950	4680.00	4626.51	1551.75	199.37	201.32	201.32
141	7.000	4713.66	4662.26	1557.29	198.54	200.79	200.79
142	7.050	4747.05	4697.83	1562.70	197.66	200.21	200.21
143	7.100	4780.16	4733.22	1568.00	196.72	199.58	199.58
144	7.150	4812.99	4768.49	1573.18	195.73	198.90	198.90
145	7.200	4845.54	4803.62	1578.24	194.69	198.17	198.17
146	7.250	4877.81	4838.61	1583.18	193.60	197.39	197.39
147	7.300	4909.80	4873.46	1588.00	192.46	196.56	196.56
148	7.350	4941.51	4908.17	1592.70	191.27	195.68	195.68
149	7.400	4972.94	4942.74	1597.28	190.03	194.75	194.75
150	7.450	5004.10	4977.17	1601.74	188.74	193.77	193.77
151	7.500	5034.98	5011.46	1606.08	187.40	192.74	192.74
152	7.550	5065.58	5045.61	1610.30	186.01	191.66	191.66
153	7.600	5095.89	5079.62	1614.40	184.57	190.53	190.53
154	7.650	5125.91	5113.49	1618.38	183.08	189.35	189.35
155	7.700	5155.64	5147.26	1622.23	181.54	188.12	188.12
156	7.750	5185.08	5180.91	1625.95	180.05	186.84	186.84
157	7.800	5214.23	5214.44	1629.54	178.51	185.51	185.51
158	7.850	5243.09	5247.87	1633.00	176.92	184.13	184.13
159	7.900	5271.66	5281.14	1636.33	175.28	182.70	182.70
160	7.950	5300.00	5314.35	1639.53	173.59	181.22	181.22
161	8.000	5328.11	5347.41	1642.60	171.85	179.69	179.69
162	8.050	5355.89	5380.32	1645.54	170.06	178.11	178.11
163	8.100	5383.34	5413.08	1648.35	168.22	176.48	176.48
164	8.150	5410.46	5445.69	1651.03	166.33	174.80	174.80
165	8.200	5437.25	5478.15	1653.58	164.39	173.07	173.07
166	8.250	5463.71	5510.46	1656.00	162.40	171.29	171.29
167	8.300	5489.84	5542.61	1658.29	160.36	169.46	169.46
168	8.350	5515.64	5574.61	1660.45	158.27	167.58	167.58

169	8.400	631.98	672.29	1176.16	1661.24	1663.48	1663.48
170	8.450	624.19	663.19	1162.48	1649.50	1651.77	1651.77
171	8.500	616.53	654.34	1149.10	1638.42	1640.73	1640.73
172	8.550	608.99	645.78	1136.08	1628.00	1630.33	1630.33
173	8.600	601.56	637.46	1123.53	1618.15	1620.51	1620.51
174	8.650	594.25	629.30	1111.46	1608.86	1611.23	1611.23
175	8.700	587.06	621.24	1099.89	1600.05	1602.43	1602.43
176	8.750	579.98	613.29	1088.75	1591.66	1594.05	1594.05
177	8.800	573.01	605.48	1078.05	1583.65	1586.06	1586.06
178	8.850	566.14	597.85	1067.67	1575.97	1578.39	1578.39
179	8.900	559.38	590.40	1057.63	1568.55	1570.98	1570.98
180	8.950	552.73	583.13	1047.87	1561.36	1563.80	1563.80
181	9.000	546.18	576.02	1038.37	1554.38	1556.83	1556.83
182	9.050	539.73	569.05	1029.13	1547.60	1550.06	1550.06
183	9.100	533.38	562.21	1020.10	1540.97	1543.44	1543.44
184	9.150	527.12	555.48	1011.25	1534.49	1536.96	1536.96
185	9.200	520.96	548.86	1002.60	1528.11	1530.59	1530.59
186	9.250	514.90	542.37	994.11	1521.85	1524.34	1524.34
187	9.300	508.93	536.01	985.80	1515.67	1518.17	1518.17
188	9.350	503.04	529.79	977.63	1509.60	1512.10	1512.10
189	9.400	497.25	523.67	969.64	1503.60	1506.11	1506.11
190	9.450	491.55	517.66	961.79	1497.67	1500.18	1500.18
191	9.500	485.93	511.74	954.10	1491.89	1494.42	1494.42
192	9.550	480.39	505.94	946.57	1486.24	1488.76	1488.76
193	9.600	474.94	500.24	939.15	1480.60	1483.12	1483.12
194	9.650	469.57	494.65	931.83	1474.99	1477.52	1477.52
195	9.700	464.28	489.15	924.61	1469.42	1471.95	1471.95
196	9.750	459.07	483.72	917.42	1463.87	1466.39	1466.39
197	9.800	453.93	478.37	910.27	1458.32	1460.85	1460.85
198	9.850	448.87	473.12	899.42	1458.16	1459.45	1459.45
199	9.900	443.89	467.95	883.78	1451.02	1452.83	1452.83
200	9.950	438.98	462.87	867.23	1382.64	1383.93	1383.93
201	9.975	436.55	460.36	864.79	1361.22	1363.55	1363.55
202	10.000	434.15	457.86	874.38	1342.81	1348.27	1348.27
203	10.050	429.38	452.91	874.80	1342.23	1343.70	1343.70
204	10.100	424.68	448.03	857.28	1339.42	1341.25	1341.25
205	10.150	420.06	443.21	854.60	1332.91	1336.59	1336.59
206	10.200	415.50	438.47	846.29	1331.86	1333.24	1333.24
207	10.250	411.01	433.79	840.47	1326.09	1329.41	1329.41
208	10.300	406.58	429.17	834.38	1323.80	1325.67	1325.67
209	10.350	402.22	424.60	829.19	1319.19	1321.99	1321.99
210	10.400	397.92	420.08	823.91	1316.06	1318.26	1318.26
211	10.450	393.68	415.59	818.77	1312.04	1314.60	1314.60
212	10.500	389.51	411.14	812.76	1308.44	1310.86	1310.86
213	10.550	385.39	406.70	806.21	1304.50	1307.06	1307.06
214	10.600	381.34	402.26	799.27	1300.63	1303.17	1303.17
215	10.650	377.34	397.85	792.86	1296.80	1299.33	1299.33
216	10.700	373.40	393.57	787.19	1293.02	1295.51	1295.51
217	10.750	369.52	389.54	782.11	1289.29	1291.75	1291.75
218	10.800	365.69	385.83	777.06	1285.52	1287.99	1287.99
219	10.850	361.91	382.32	771.86	1281.73	1284.21	1284.21
220	10.900	358.19	378.73	766.53	1277.96	1280.46	1280.46
221	10.950	354.53	374.88	761.35	1274.18	1276.66	1276.66
222	11.000	350.91	370.81	756.33	1270.40	1272.88	1272.88
223	11.050	347.35	366.76	751.57	1266.63	1269.10	1269.10
224	11.100	343.84	363.00	746.78	1262.87	1265.33	1265.33
225	11.150	340.37	359.52	742.12	1259.11	1261.57	1261.57
226	11.200	336.96	356.14	737.52	1255.35	1257.81	1257.81
227	11.250	333.59	352.74	732.94	1251.62	1254.08	1254.08
228	11.300	330.27	349.30	730.39	1247.28	1249.95	1249.95
229	11.350	327.00	345.90	730.44	1242.99	1245.78	1245.78
230	11.400	323.77	342.57	727.57	1239.74	1242.07	1242.07
231	11.450	320.59	339.30	725.84	1235.19	1237.96	1237.96
232	11.500	317.46	336.07	723.54	1231.85	1234.06	1234.06
233	11.550	314.36	332.90	721.40	1227.47	1230.11	1230.11
234	11.600	311.31	329.77	719.00	1223.73	1226.22	1226.22
235	11.650	308.30	326.67	716.55	1219.76	1222.33	1222.33
236	11.700	305.34	323.61	713.77	1215.87	1218.40	1218.40
237	11.750	302.41	320.58	710.66	1211.90	1214.47	1214.47
238	11.800	299.53	317.61	707.14	1207.88	1210.55	1210.55
239	11.850	296.68	314.70	703.22	1203.89	1206.58	1206.58
240	11.900	293.88	311.85	699.04	1199.98	1202.58	1202.58
241	11.950	291.11	309.07	694.79	1195.99	1198.59	1198.59
242	12.000	288.38	306.37	690.63	1192.00	1194.59	1194.59
243	12.050	285.69	303.75	686.56	1188.03	1190.61	1190.61
244	12.100	283.04	301.21	682.54	1184.07	1186.65	1186.65
245	12.150	280.42	298.69	678.52	1180.11	1182.68	1182.68
246	12.200	277.83	296.16	674.52	1176.15	1178.72	1178.72
247	12.250	275.29	293.59	670.54	1172.20	1174.76	1174.76
248	12.300	272.77	290.99	666.63	1168.26	1170.82	1170.82
249	12.350	270.30	288.39	662.74	1164.34	1166.88	1166.88
250	12.400	267.85	285.85	658.88	1160.41	1162.95	1162.95
251	12.450	265.44	283.37	655.02	1156.49	1159.03	1159.03
252	12.500	263.06	280.94	651.15	1152.57	1155.10	1155.10
253	12.550	260.71	278.53	647.26	1148.70	1151.24	1151.24
254	12.600	258.40	276.14	643.33	1144.76	1147.28	1147.28
255	12.650	256.11	273.78	639.38	1140.88	1143.41	1143.41
256	12.700	253.86	271.44	635.42	1136.99	1139.51	1139.51
257	12.750	251.64	269.13	631.43	1133.08	1135.60	1135.60
258	12.800	249.44	266.85	627.45	1129.19	1131.70	1131.70
259	12.850	247.28	264.59	623.48	1125.29	1127.81	1127.81
260	12.900	245.15	262.36	619.54	1121.41	1123.91	1123.91
261	12.950	243.04	260.15	615.61	1117.53	1120.03	1120.03
262	13.000	240.96	257.97	611.72	1113.66	1116.15	1116.15
263	13.050	238.91	255.82	607.84	1109.80	1112.28	1112.28

264	13.100	236.89	253.69	603.99	1105.93	1108.41	1108.41
265	13.150	234.89	251.60	600.15	1102.08	1104.56	1104.56
266	13.200	232.92	249.53	596.33	1098.24	1100.71	1100.71
267	13.250	230.98	247.50	592.54	1094.40	1096.86	1096.86
268	13.300	229.06	245.48	588.78	1090.56	1093.02	1093.02
269	13.350	227.17	243.50	585.04	1086.74	1089.20	1089.20
270	13.400	225.31	241.53	581.35	1082.93	1085.37	1085.37
271	13.450	223.46	239.59	577.68	1079.12	1081.56	1081.56
272	13.500	221.65	237.68	574.03	1075.32	1077.76	1077.76
273	13.550	219.85	235.78	570.39	1071.53	1073.96	1073.96
274	13.600	218.08	233.92	566.79	1067.75	1070.17	1070.17
275	13.650	216.34	232.07	563.21	1063.97	1066.39	1066.39
276	13.700	214.61	230.25	559.65	1060.20	1062.61	1062.61
277	13.750	212.91	228.46	556.11	1056.44	1058.84	1058.84
278	13.800	211.23	226.69	552.59	1052.69	1055.09	1055.09
279	13.850	209.58	224.94	549.09	1048.95	1051.34	1051.34
280	13.900	207.94	223.22	545.61	1045.21	1047.60	1047.60
281	13.950	206.33	221.52	542.15	1041.49	1043.86	1043.86
282	14.000	204.74	219.83	538.72	1037.76	1040.13	1040.13
283	14.050	203.17	218.17	535.30	1034.06	1036.41	1036.41
284	14.100	201.61	216.52	531.90	1030.36	1032.71	1032.71
285	14.150	200.07	214.89	528.54	1026.67	1029.00	1029.00
286	14.200	198.55	213.28	525.18	1022.98	1025.31	1025.31
287	14.250	197.05	211.69	521.84	1019.31	1021.62	1021.62
288	14.300	195.57	210.12	518.53	1015.64	1017.95	1017.95
289	14.350	194.10	208.56	515.24	1011.99	1014.28	1014.28
290	14.400	192.65	207.02	511.84	1007.66	1009.89	1009.89
291	14.450	191.21	205.50	508.05	1002.21	1004.37	1004.37
292	14.500	189.79	203.99	511.39	992.89	995.77	995.77
293	14.525	189.09	203.24	798.35	781.80	831.88	831.88
294	14.538	188.74	202.87	764.55	858.67	827.67	827.67
295	14.550	188.39	202.50	819.76	806.06	831.04	831.04
296	14.600	187.00	201.02	822.70	832.66	822.22	822.22
297	14.625	186.31	200.29	826.84	823.63	826.63	826.63
298	14.650	185.62	199.56	818.91	820.04	822.69	822.69
299	14.700	184.27	198.11	809.96	823.60	823.03	823.03
300	14.750	182.92	196.68	790.30	817.47	820.19	820.19
301	14.800	181.59	195.27	760.65	818.04	818.73	818.73
302	14.850	180.28	193.87	727.29	812.03	815.29	815.29
303	14.900	178.98	192.48	685.44	809.44	811.76	811.76
304	14.950	177.70	191.14	638.50	802.77	806.80	806.80
305	15.000	176.42	189.88	584.10	797.29	801.27	801.27
306	15.050	175.17	188.66	531.79	790.32	795.00	795.00
307	15.100	173.92	188.33	491.43	785.19	789.10	789.10
308	15.150	172.69	188.64	471.45	781.24	784.37	784.37
309	15.200	171.48	190.00	467.67	778.59	780.76	780.76
310	15.250	170.27	192.18	470.76	775.96	777.89	777.89
311	15.300	169.08	194.42	473.15	773.18	775.11	775.11
312	15.350	167.90	195.65	473.77	770.25	772.29	772.29
313	15.400	166.74	195.00	473.81	767.39	769.40	769.40
314	15.450	165.59	192.08	474.07	764.58	766.55	766.55
315	15.500	164.45	187.20	474.39	761.81	763.75	763.75
316	15.550	163.32	181.48	474.18	759.00	760.95	760.95
317	15.600	162.20	176.53	472.63	756.09	758.08	758.08
318	15.650	161.10	173.51	469.42	753.06	755.15	755.15
319	15.700	160.00	172.28	464.64	749.88	752.05	752.05
320	15.750	158.92	171.76	458.68	746.59	748.83	748.83
321	15.800	157.85	171.06	452.14	743.31	745.59	745.59
322	15.850	156.79	170.05	445.55	739.97	742.26	742.26
323	15.900	155.75	168.89	439.24	736.63	738.91	738.91
324	15.950	154.71	167.70	433.38	733.32	735.58	735.58
325	16.000	153.68	166.49	428.10	730.03	732.27	732.27
326	16.050	152.67	165.24	423.52	726.80	729.01	729.01
327	16.100	151.67	163.91	419.71	723.63	725.80	725.80
328	16.150	150.67	162.51	416.64	720.53	722.65	722.65
329	16.200	149.69	161.10	414.13	717.47	719.55	719.55
330	16.250	148.72	159.76	411.92	714.43	716.48	716.48
331	16.300	147.75	158.51	409.75	711.39	713.43	713.43
332	16.350	146.80	157.36	407.41	708.35	710.39	710.39
333	16.400	145.85	156.30	404.88	705.30	707.33	707.33
334	16.450	144.92	155.29	402.17	702.24	704.28	704.28
335	16.500	144.00	154.32	399.38	699.23	701.27	701.27
336	16.550	143.08	153.35	396.59	696.21	698.22	698.22
337	16.600	142.18	152.40	393.82	693.17	695.18	695.18
338	16.650	141.28	151.42	391.09	690.15	692.15	692.15
339	16.700	140.39	150.44	388.42	687.13	689.12	689.12
340	16.750	139.51	149.46	385.79	684.14	686.11	686.11
341	16.800	138.64	148.49	383.22	681.15	683.11	683.11
342	16.850	137.78	147.52	380.71	678.18	680.13	680.13
343	16.900	136.93	146.58	378.24	675.22	677.16	677.16
344	16.950	136.09	145.64	375.80	672.31	674.23	674.23
345	17.000	135.25	144.72	373.39	669.38	671.29	671.29
346	17.050	134.43	143.81	370.96	666.44	668.34	668.34
347	17.100	133.61	142.90	368.51	663.50	665.39	665.39
348	17.150	132.80	141.99	366.07	660.58	662.46	662.46
349	17.200	132.00	141.09	363.61	657.66	659.53	659.53
350	17.250	131.20	140.19	361.16	654.76	656.62	656.62
351	17.300	130.42	139.29	358.71	651.86	653.71	653.71
352	17.350	129.64	138.42	356.26	648.98	650.82	650.82
353	17.400	128.87	137.55	353.82	646.10	647.93	647.93
354	17.450	128.11	136.68	351.39	643.23	645.05	645.05
355	17.500	127.35	135.82	348.96	640.37	642.18	642.18
356	17.550	126.60	134.96	346.55	637.52	639.32	639.32
357	17.600	125.86	134.11	344.14	634.68	636.47	636.47
358	17.650	125.13	133.26	341.76	631.85	633.63	633.63

359	17.700	124.40	132.42	339.37	629.03	630.79	630.79
360	17.750	123.68	131.58	337.00	626.21	627.97	627.97
361	17.800	122.97	130.76	334.65	623.41	625.16	625.16
362	17.850	122.27	129.94	332.39	620.69	622.43	622.43
363	17.900	121.57	129.12	330.23	617.91	619.62	619.62
364	17.950	120.88	128.31	328.16	615.13	616.84	616.84
365	18.000	120.19	127.50	326.20	612.48	614.16	614.16
366	18.050	119.51	126.71	324.26	609.73	611.40	611.40
367	18.100	118.84	125.92	322.32	607.06	608.73	608.73
368	18.150	118.18	125.13	320.40	604.34	605.98	605.98
369	18.200	117.52	124.37	318.48	601.68	603.33	603.33
370	18.250	116.86	123.61	316.58	599.05	600.67	600.67
371	18.300	116.22	122.85	314.67	596.38	598.00	598.00
372	18.350	115.58	122.09	312.77	593.74	595.34	595.34
373	18.400	114.94	121.33	310.88	591.11	592.70	592.70
374	18.450	114.32	120.58	308.99	588.48	590.06	590.06
375	18.500	113.69	119.84	307.12	585.87	587.44	587.44
376	18.550	113.08	119.10	305.25	583.27	584.83	584.83
377	18.600	112.47	118.37	303.39	580.68	582.23	582.23
378	18.650	111.86	117.65	301.54	578.10	579.64	579.64
379	18.700	111.26	116.94	299.72	575.53	577.06	577.06
380	18.750	110.67	116.23	297.90	572.98	574.49	574.49
381	18.800	110.08	115.53	296.10	570.43	571.94	571.94
382	18.850	109.50	114.84	294.31	567.90	569.39	569.39
383	18.900	108.92	114.15	292.53	565.37	566.86	566.86
384	18.950	108.35	113.46	290.76	562.86	564.34	564.34
385	19.000	107.79	112.78	289.00	560.36	561.83	561.83
386	19.050	107.22	112.11	287.25	557.87	559.32	559.32
387	19.100	106.67	111.47	285.51	555.39	556.83	556.83
388	19.150	106.12	110.82	283.80	552.98	554.41	554.41
389	19.200	105.57	110.18	282.09	550.49	551.90	551.90
390	19.250	105.03	109.54	280.38	548.07	549.49	549.49
391	19.300	104.50	108.90	278.70	545.61	547.00	547.00
392	19.350	103.97	108.27	277.01	543.21	544.60	544.60
393	19.400	103.44	107.65	275.35	540.77	542.14	542.14
394	19.450	102.92	107.04	273.68	538.34	539.71	539.71
395	19.500	102.40	106.44	272.02	535.95	537.31	537.31
396	19.550	101.89	105.84	270.39	533.57	534.92	534.92
397	19.600	101.39	105.24	268.76	531.20	532.53	532.53
398	19.650	100.88	104.64	267.15	528.83	530.16	530.16
399	19.700	100.39	104.06	265.55	526.49	527.80	527.80
400	19.750	99.89	103.48	263.96	524.14	525.45	525.45
401	19.800	99.40	102.91	262.37	521.81	523.11	523.11
402	19.850	98.92	102.35	260.81	519.49	520.78	520.78
403	19.900	98.44	101.79	259.25	517.18	518.46	518.46
404	19.950	97.97	101.23	257.70	514.88	516.15	516.15
405	20.000	97.49	100.68	256.17	512.59	513.85	513.85
406	20.050	97.03	100.14	254.64	510.31	511.56	511.56
407	20.100	96.56	99.61	253.13	508.04	509.28	509.28
408	20.150	96.11	99.08	251.62	505.78	507.01	507.01
409	20.200	95.65	98.56	250.13	503.53	504.75	504.75
410	20.250	95.20	98.04	248.64	501.29	502.50	502.50
411	20.300	94.75	97.52	247.18	499.06	500.27	500.27
412	20.350	94.31	97.01	245.72	496.84	498.04	498.04
413	20.400	93.87	96.51	244.27	494.63	495.82	495.82
414	20.450	93.44	96.01	242.83	492.43	493.61	493.61
415	20.500	93.01	95.52	241.40	490.24	491.41	491.41
416	20.550	92.58	95.04	239.98	488.06	489.22	489.22
417	20.600	92.16	94.56	238.57	485.89	487.04	487.04
418	20.650	91.74	94.08	237.18	483.72	484.86	484.86
419	20.700	91.32	93.61	235.80	481.57	482.70	482.70
420	20.750	90.91	93.15	234.42	479.43	480.55	480.55
421	20.800	90.50	92.69	233.06	477.29	478.41	478.41
422	20.850	90.09	92.23	231.70	475.17	476.28	476.28
423	20.900	89.69	91.78	230.36	473.05	474.15	474.15
424	20.950	89.29	91.34	229.03	470.95	472.04	472.04
425	21.000	88.90	90.90	227.70	468.86	469.93	469.93
426	21.050	88.51	90.46	226.40	466.76	467.84	467.84
427	21.100	88.12	90.03	225.10	464.69	465.75	465.75
428	21.150	87.74	89.61	223.79	462.55	463.60	463.60
429	21.200	87.35	89.19	222.50	460.32	461.58	461.58
430	21.250	86.96	88.77	221.24	458.45	459.47	459.47
431	21.300	86.60	88.36	219.98	456.43	457.47	457.47
432	21.350	86.23	87.95	218.74	454.38	455.38	455.38
433	21.400	85.86	87.55	217.50	452.37	453.40	453.40
434	21.450	85.50	87.15	216.28	450.34	451.33	451.33
435	21.500	85.13	86.76	215.06	448.35	449.36	449.36
436	21.550	84.78	86.37	213.87	446.33	447.31	447.31
437	21.600	84.42	85.98	212.67	444.37	445.36	445.36
438	21.650	84.07	85.60	211.49	442.37	443.33	443.33
439	21.700	83.72	85.22	210.32	440.41	441.39	441.39
440	21.750	83.37	84.85	209.17	438.43	439.38	439.38
441	21.800	83.03	84.48	208.03	436.49	437.46	437.46
442	21.850	82.69	84.11	206.89	434.53	435.46	435.46
443	21.900	82.35	83.75	205.76	432.61	433.55	433.55
444	21.950	82.01	83.39	204.65	430.66	431.58	431.58
445	22.000	81.68	83.03	203.54	428.75	429.69	429.69
446	22.050	81.35	82.68	202.45	426.81	427.72	427.72
447	22.100	81.02	82.33	201.35	424.92	425.84	425.84
448	22.150	80.70	81.99	200.28	422.99	423.89	423.89
449	22.200	80.38	81.64	199.19	421.04	421.95	421.95
450	22.250	80.06	81.31	198.13	419.22	420.13	420.13
451	22.300	79.74	80.97	197.09	417.32	418.21	418.21
452	22.350	79.43	80.64	196.02	415.39	416.29	416.29
453	22.400	79.12	80.31	194.99	413.52	414.41	414.41

454	22.450	78.81	79.98	193.96	411.65	412.54	412.54
455	22.500	78.50	79.66	192.93	409.80	410.68	410.68
456	22.550	78.20	79.34	191.91	407.95	408.83	408.83
457	22.600	77.90	79.03	190.90	406.10	406.98	406.98
458	22.650	77.60	78.71	189.90	404.26	405.14	405.14
459	22.700	77.30	78.40	188.92	402.43	403.31	403.31
460	22.750	77.01	78.10	187.95	400.61	401.48	401.48
461	22.800	76.72	77.79	186.99	398.79	399.66	399.66
462	22.850	76.43	77.49	186.06	396.98	397.84	397.84
463	22.900	76.14	77.19	185.14	395.18	396.04	396.04
464	22.950	75.86	76.89	184.24	393.38	394.23	394.23
465	23.000	75.58	76.60	183.35	391.59	392.44	392.44
466	23.050	75.30	76.31	182.49	389.80	390.65	390.65
467	23.100	75.02	76.02	181.64	388.03	388.87	388.87
468	23.150	74.75	75.73	180.80	386.25	387.09	387.09
469	23.200	74.47	75.45	179.98	384.48	385.32	385.32
470	23.250	74.20	75.17	179.18	382.72	383.55	383.55
471	23.300	73.94	74.89	178.40	380.96	381.79	381.79
472	23.350	73.67	74.61	177.64	379.20	380.03	380.03
473	23.400	73.41	74.34	176.90	377.46	378.28	378.28
474	23.450	73.14	74.07	176.17	375.71	376.54	376.54
475	23.500	72.88	73.80	175.47	373.97	374.79	374.79
476	23.550	72.63	73.53	174.79	372.23	373.05	373.05
477	23.600	72.37	73.27	174.12	370.50	371.31	371.31
478	23.650	72.12	73.01	173.48	368.76	369.58	369.58
479	23.700	71.87	72.75	172.86	367.04	367.85	367.85
480	23.750	71.62	72.49	172.27	365.31	366.12	366.12
481	23.800	71.37	72.23	171.70	363.58	364.40	364.40
482	23.850	71.12	71.98	171.16	361.86	362.67	362.67
483	23.900	70.88	71.73	170.64	360.14	360.95	360.95
484	23.950	70.64	71.48	170.16	358.41	359.22	359.22
485	24.000	70.40	71.23	169.70	356.69	357.50	357.50
486	24.050	70.16	70.99	169.28	354.96	355.77	355.77
487	24.100	69.92	70.74	168.89	353.23	354.04	354.04
488	24.150	69.69	70.50	168.53	351.51	352.32	352.32
489	24.200	69.46	70.26	168.21	349.77	350.58	350.58
490	24.250	69.23	70.03	167.93	348.04	348.85	348.85
491	24.300	69.00	69.79	167.69	346.30	347.11	347.11
492	24.350	68.77	69.56	167.50	344.55	345.37	345.37
493	24.400	68.55	69.33	167.35	342.80	343.62	343.62
494	24.450	68.32	69.10	167.25	341.04	341.86	341.86
495	24.500	68.10	68.87	167.20	339.28	340.10	340.10
496	24.550	67.88	68.64	167.20	337.50	338.32	338.32
497	24.600	67.66	68.42	167.24	335.71	336.54	336.54
498	24.650	67.45	68.20	167.34	333.91	334.75	334.75
499	24.700	67.23	67.97	167.50	332.11	332.95	332.95
500	24.750	67.02	67.76	167.70	330.29	331.14	331.14
501	24.800	66.81	67.54	167.95	328.44	329.31	329.31
502	24.850	66.60	67.32	168.28	326.68	327.55	327.55
503	24.900	66.39	67.11	168.63	324.83	325.68	325.68
504	24.950	66.18	66.90	168.93	322.93	323.80	323.80
505	25.000	65.98	66.69	169.30	321.11	321.99	321.99
506	25.050	65.78	66.48	169.66	319.23	320.09	320.09
507	25.100	65.57	66.27	169.96	317.37	318.26	318.26
508	25.150	65.37	66.06	170.22	315.48	316.34	316.34
509	25.200	65.17	65.86	170.37	313.53	314.41	314.41
510	25.250	64.98	65.66	170.52	311.67	312.56	312.56
511	25.300	64.78	65.46	170.64	309.75	310.63	310.63
512	25.350	64.59	65.26	170.65	307.79	308.68	308.68
513	25.400	64.39	65.06	170.67	305.90	306.81	306.81
514	25.450	64.20	64.86	170.68	303.97	304.86	304.86
515	25.500	64.01	64.67	170.55	301.99	302.90	302.90
516	25.550	63.83	64.48	170.41	300.04	300.94	300.94
517	25.600	63.64	64.28	170.25	298.08	298.99	298.99
518	25.650	63.45	64.09	170.06	296.13	297.04	297.04
519	25.700	63.27	63.91	169.85	294.19	295.10	295.10
520	25.750	63.09	63.72	169.60	292.25	293.16	293.16
521	25.800	62.90	63.53	169.32	290.28	291.19	291.19
522	25.850	62.72	63.35	168.87	288.16	289.04	289.04
523	25.900	62.55	63.16	168.34	286.03	286.94	286.94
524	25.950	62.37	62.98	167.87	284.01	284.91	284.91
525	26.000	62.19	62.80	167.44	282.03	282.95	282.95
526	26.050	62.02	62.62	167.03	280.10	281.01	281.01
527	26.100	61.84	62.45	166.58	278.14	279.04	279.04
528	26.150	61.67	62.27	166.05	276.12	277.02	277.02
529	26.200	61.50	62.09	165.46	274.09	274.98	274.98
530	26.250	61.33	61.92	164.86	272.06	272.96	272.96
531	26.300	61.16	61.75	164.25	270.07	270.97	270.97
532	26.350	61.00	61.58	163.67	268.12	269.01	269.01
533	26.400	60.83	61.41	163.08	266.18	267.07	267.07
534	26.450	60.67	61.24	162.48	264.25	265.15	265.15
535	26.500	60.50	61.07	161.88	262.35	263.24	263.24
536	26.550	60.34	60.90	161.26	260.45	261.33	261.33
537	26.600	60.18	60.74	160.63	258.55	259.43	259.43
538	26.650	60.02	60.58	159.97	256.66	257.54	257.54
539	26.700	59.86	60.41	159.30	254.77	255.64	255.64
540	26.750	59.70	60.25	158.62	252.89	253.76	253.76
541	26.800	59.55	60.09	157.91	251.01	251.87	251.87
542	26.850	59.39	59.93	157.20	249.14	250.00	250.00
543	26.900	59.24	59.78	156.48	247.28	248.14	248.14
544	26.950	59.09	59.62	155.75	245.43	246.28	246.28
545	27.000	58.93	59.46	155.01	243.59	244.43	244.43
546	27.050	58.78	59.31	154.26	241.74	242.59	242.59
547	27.100	58.63	59.16	153.49	239.91	240.75	240.75
548	27.150	58.49	59.01	152.72	238.08	238.92	238.92

549	27.200	58.34	58.86	151.93	236.27	237.11	237.11
550	27.250	58.19	58.71	151.10	234.40	235.22	235.22
551	27.300	58.05	58.56	150.27	232.59	233.43	233.43
552	27.350	57.90	58.41	149.45	230.78	231.58	231.58
553	27.400	57.76	58.26	148.60	228.95	229.76	229.76
554	27.450	57.62	58.12	147.76	227.16	227.97	227.97
555	27.500	57.48	57.97	146.93	225.39	226.20	226.20
556	27.550	57.34	57.83	146.10	223.64	224.44	224.44
557	27.600	57.20	57.69	145.26	221.89	222.69	222.69
558	27.650	57.06	57.55	144.42	220.15	220.94	220.94
559	27.700	56.92	57.41	143.56	218.41	219.20	219.20
560	27.750	56.79	57.27	142.67	216.63	217.40	217.40
561	27.800	56.65	57.13	141.78	214.92	215.71	215.71
562	27.850	56.52	56.99	140.92	213.19	213.95	213.95
563	27.900	56.39	56.86	140.05	211.51	212.30	212.30
564	27.950	56.25	56.72	139.18	209.81	210.56	210.56
565	28.000	56.12	56.59	138.27	208.09	208.85	208.85
566	28.050	55.99	56.45	137.38	206.42	207.17	207.17
567	28.100	55.86	56.32	136.51	204.76	205.51	205.51
568	28.150	55.74	56.19	135.63	203.12	203.86	203.86
569	28.200	55.61	56.06	134.75	201.48	202.22	202.22
570	28.250	55.48	55.93	133.88	199.86	200.59	200.59
571	28.300	55.36	55.80	133.00	198.25	198.97	198.97
572	28.350	55.23	55.67	132.12	196.64	197.36	197.36
573	28.400	55.11	55.55	131.25	195.05	195.76	195.76
574	28.450	54.98	55.42	130.37	193.47	194.17	194.17
575	28.500	54.86	55.29	129.49	191.89	192.59	192.59
576	28.550	54.74	55.17	128.61	190.33	191.02	191.02
577	28.600	54.62	55.05	127.73	188.78	189.47	189.47
578	28.650	54.50	54.93	126.86	187.24	187.93	187.93
579	28.700	54.38	54.80	125.99	185.71	186.39	186.39
580	28.750	54.27	54.68	125.08	184.14	184.80	184.80
581	28.800	54.15	54.56	124.19	182.65	183.33	183.33
582	28.850	54.03	54.44	123.37	181.19	181.85	181.85
583	28.900	53.92	54.33	122.48	179.65	180.30	180.30
584	28.950	53.80	54.21	121.61	178.20	178.87	178.87
585	29.000	53.69	54.09	120.79	176.78	177.42	177.42
586	29.050	53.58	53.98	119.95	175.33	175.97	175.97
587	29.100	53.46	53.86	119.09	173.89	174.53	174.53
588	29.150	53.35	53.75	118.24	172.47	173.09	173.09
589	29.200	53.24	53.63	117.40	171.05	171.67	171.67
590	29.250	53.13	53.52	116.56	169.65	170.26	170.26
591	29.300	53.02	53.41	115.72	168.26	168.87	168.87
592	29.350	52.91	53.30	114.89	166.88	167.48	167.48
593	29.400	52.81	53.19	114.06	165.51	166.11	166.11
594	29.450	52.70	53.08	113.23	164.15	164.75	164.75
595	29.500	52.59	52.97	112.41	162.81	163.40	163.40
596	29.550	52.49	52.86	111.60	161.48	162.08	162.08
597	29.600	52.38	52.76	110.79	160.16	160.74	160.74
598	29.650	52.28	52.65	109.99	158.85	159.42	159.42
599	29.700	52.18	52.55	109.19	157.56	158.12	158.12
600	29.750	52.07	52.44	108.40	156.28	156.84	156.84
601	29.800	51.97	52.34	107.61	155.01	155.56	155.56
602	29.850	51.87	52.23	106.87	153.80	154.36	154.36
603	29.900	51.77	52.13	106.10	152.53	153.06	153.06
604	29.950	51.67	52.03	105.32	151.31	151.87	151.87
605	30.000	51.57	51.93	104.57	150.08	150.60	150.60
606	30.050	51.47	51.83	103.81	148.88	149.42	149.42
607	30.100	51.38	51.73	103.09	147.72	148.23	148.23
608	30.150	51.28	51.63	102.35	146.52	147.04	147.04
609	30.200	51.18	51.53	101.60	145.35	145.86	145.86
610	30.250	51.09	51.43	100.87	144.18	144.69	144.69
611	30.300	50.99	51.33	100.14	143.03	143.53	143.53
612	30.350	50.90	51.24	99.42	141.89	142.39	142.39
613	30.400	50.80	51.14	98.71	140.77	141.26	141.26
614	30.450	50.71	51.05	98.00	139.65	140.13	140.13
615	30.500	50.62	50.95	97.30	138.54	139.02	139.02
616	30.550	50.53	50.86	96.60	137.45	137.92	137.92
617	30.600	50.44	50.77	95.91	136.37	136.84	136.84
618	30.650	50.34	50.67	95.23	135.29	135.76	135.76
619	30.700	50.25	50.58	94.55	134.23	134.69	134.69
620	30.750	50.17	50.49	93.88	133.18	133.64	133.64
621	30.800	50.08	50.40	93.21	132.15	132.60	132.60
622	30.850	49.99	50.31	92.55	131.12	131.56	131.56
623	30.900	49.90	50.22	91.90	130.10	130.54	130.54
624	30.950	49.81	50.13	91.26	129.10	129.53	129.53
625	31.000	49.73	50.04	90.62	128.10	128.53	128.53
626	31.050	49.64	49.95	89.99	127.12	127.54	127.54
627	31.100	49.56	49.87	89.36	126.14	126.57	126.57
628	31.150	49.47	49.78	88.74	125.18	125.60	125.60
629	31.200	49.39	49.69	88.13	124.23	124.64	124.64
630	31.250	49.31	49.61	87.52	123.29	123.69	123.69
631	31.300	49.22	49.52	86.92	122.36	122.76	122.76
632	31.350	49.14	49.44	86.32	121.43	121.83	121.83
633	31.400	49.06	49.36	85.73	120.52	120.92	120.92
634	31.450	48.98	49.27	85.15	119.62	120.01	120.01
635	31.500	48.90	49.19	84.58	118.73	119.12	119.12
636	31.550	48.82	49.11	84.01	117.85	118.23	118.23
637	31.600	48.74	49.03	83.44	116.98	117.36	117.36
638	31.650	48.66	48.95	82.88	116.12	116.49	116.49
639	31.700	48.58	48.87	82.35	115.29	115.66	115.66
640	31.750	48.50	48.79	81.81	114.44	114.79	114.79
641	31.800	48.42	48.71	81.26	113.61	113.98	113.98
642	31.850	48.35	48.63	80.74	112.80	113.15	113.15
643	31.900	48.27	48.55	80.22	111.98	112.33	112.33

644	31.950	48.19	48.47	79.69	111.18	111.52	111.52
645	32.000	48.12	48.40	79.17	110.38	110.72	110.72
646	32.050	48.04	48.32	78.66	109.59	109.93	109.93
647	32.100	47.97	48.24	78.16	108.81	109.15	109.15
648	32.150	47.90	48.17	77.66	108.04	108.37	108.37
649	32.200	47.82	48.09	77.16	107.28	107.61	107.61
650	32.250	47.75	48.02	76.67	106.53	106.85	106.85
651	32.300	47.68	47.94	76.19	105.79	106.11	106.11
652	32.350	47.61	47.87	75.72	105.06	105.37	105.37
653	32.400	47.53	47.80	75.25	104.33	104.64	104.64
654	32.450	47.46	47.72	74.78	103.61	103.92	103.92
655	32.500	47.39	47.65	74.32	102.91	103.21	103.21
656	32.550	47.32	47.58	73.87	102.21	102.51	102.51
657	32.600	47.25	47.51	73.42	101.52	101.81	101.81
658	32.650	47.18	47.44	72.98	100.83	101.13	101.13
659	32.700	47.11	47.37	72.55	100.16	100.45	100.45
660	32.750	47.05	47.30	72.11	99.49	99.78	99.78
661	32.800	46.98	47.23	71.69	98.84	99.12	99.12
662	32.850	46.91	47.16	71.27	98.19	98.46	98.46
663	32.900	46.84	47.09	70.85	97.54	97.82	97.82
664	32.950	46.78	47.02	70.44	96.91	97.18	97.18
665	33.000	46.71	46.95	70.04	96.28	96.55	96.55
666	33.050	46.65	46.89	69.64	95.66	95.93	95.93
667	33.100	46.58	46.82	69.25	95.05	95.31	95.31
668	33.150	46.52	46.75	68.86	94.45	94.71	94.71
669	33.200	46.45	46.69	68.47	93.85	94.11	94.11
670	33.250	46.39	46.62	68.09	93.26	93.51	93.51
671	33.300	46.32	46.56	67.72	92.68	92.93	92.93
672	33.350	46.26	46.49	67.35	92.10	92.35	92.35
673	33.400	46.20	46.43	66.99	91.53	91.78	91.78
674	33.450	46.14	46.37	66.63	90.97	91.21	91.21
675	33.500	46.07	46.30	66.27	90.42	90.66	90.66
676	33.550	46.01	46.24	65.92	89.87	90.10	90.10
677	33.600	45.95	46.18	65.57	89.33	89.56	89.56
678	33.650	45.89	46.11	65.23	88.79	89.02	89.02
679	33.700	45.83	46.05	64.90	88.27	88.49	88.49
680	33.750	45.77	45.99	64.56	87.75	87.97	87.97
681	33.800	45.71	45.93	64.23	87.23	87.45	87.45
682	33.850	45.65	45.87	63.91	86.72	86.94	86.94
683	33.900	45.59	45.81	63.59	86.22	86.43	86.43
684	33.950	45.54	45.75	63.28	85.72	85.94	85.94
685	34.000	45.48	45.69	62.97	85.23	85.44	85.44
686	34.050	45.42	45.63	62.66	84.75	84.96	84.96
687	34.100	45.36	45.57	62.36	84.27	84.48	84.48
688	34.150	45.31	45.52	62.06	83.80	84.00	84.00
689	34.200	45.25	45.46	61.76	83.33	83.53	83.53
690	34.250	45.19	45.40	61.47	82.87	83.07	83.07
691	34.300	45.14	45.34	61.19	82.42	82.61	82.61
692	34.350	45.08	45.29	60.90	81.97	82.16	82.16
693	34.400	45.03	45.23	60.62	81.53	81.72	81.72
694	34.450	44.97	45.17	60.35	81.09	81.28	81.28
695	34.500	44.92	45.12	60.08	80.66	80.84	80.84
696	34.550	44.86	45.06	59.81	80.23	80.41	80.41
697	34.600	44.81	45.01	59.55	79.81	79.99	79.99
698	34.650	44.76	44.95	59.29	79.39	79.57	79.57
699	34.700	44.70	44.90	59.03	78.98	79.15	79.15
700	34.750	44.65	44.85	58.78	78.57	78.75	78.75
701	34.800	44.60	44.79	58.53	78.17	78.34	78.34
702	34.850	44.55	44.74	58.28	77.77	77.94	77.94
703	34.900	44.50	44.69	58.04	77.38	77.55	77.55
704	34.950	44.44	44.63	57.80	77.00	77.16	77.16
705	35.000	44.39	44.58	57.56	76.62	76.78	76.78
706	35.050	44.34	44.53	57.33	76.24	76.40	76.40
707	35.100	44.29	44.48	57.10	75.87	76.02	76.02
708	35.150	44.24	44.43	56.87	75.50	75.66	75.66
709	35.200	44.19	44.38	56.65	75.14	75.29	75.29
710	35.250	44.14	44.33	56.43	74.78	74.93	74.93
711	35.300	44.09	44.28	56.21	74.42	74.57	74.57
712	35.350	44.04	44.23	56.00	74.07	74.22	74.22
713	35.400	44.00	44.18	55.79	73.73	73.87	73.87
714	35.450	43.95	44.13	55.58	73.39	73.53	73.53
715	35.500	43.90	44.08	55.37	73.05	73.19	73.19
716	35.550	43.85	44.03	55.17	72.72	72.86	72.86
717	35.600	43.81	43.98	54.97	72.39	72.53	72.53
718	35.650	43.76	43.93	54.77	72.06	72.20	72.20
719	35.700	43.71	43.89	54.58	71.74	71.88	71.88
720	35.750	43.67	43.84	54.39	71.42	71.56	71.56
721	35.800	43.62	43.79	54.20	71.11	71.24	71.24
722	35.850	43.57	43.75	54.01	70.80	70.93	70.93
723	35.900	43.53	43.70	53.83	70.50	70.63	70.63
724	35.950	43.48	43.65	53.65	70.19	70.32	70.32
725	36.000	43.44	43.61	53.47	69.90	70.02	70.02
726	36.050	43.39	43.56	53.29	69.60	69.73	69.73
727	36.100	43.35	43.52	53.12	69.31	69.43	69.43
728	36.150	43.30	43.47	52.95	69.02	69.14	69.14
729	36.200	43.26	43.43	52.78	68.74	68.86	68.86
730	36.250	43.22	43.38	52.61	68.46	68.58	68.58
731	36.300	43.17	43.34	52.45	68.18	68.30	68.30
732	36.350	43.13	43.29	52.28	67.91	68.02	68.02
733	36.400	43.09	43.25	52.12	67.64	67.75	67.75
734	36.450	43.05	43.21	51.97	67.37	67.48	67.48
735	36.500	43.00	43.16	51.81	67.10	67.22	67.22
736	36.550	42.96	43.12	51.66	66.84	66.95	66.95
737	36.600	42.92	43.08	51.51	66.59	66.69	66.69
738	36.650	42.88	43.04	51.36	66.33	66.44	66.44

739	36.700	42.84	42.99	51.21	66.08	66.18	66.18
740	36.750	42.80	42.95	51.06	65.83	65.93	65.93
741	36.800	42.76	42.91	50.97	65.59	65.69	65.69
742	36.850	42.72	42.87	50.78	65.34	65.44	65.44
743	36.900	42.68	42.83	50.64	65.10	65.20	65.20
744	36.950	42.64	42.79	50.50	64.86	64.96	64.96
745	37.000	42.60	42.75	50.36	64.63	64.73	64.73
746	37.050	42.56	42.71	50.23	64.39	64.49	64.49
747	37.100	42.52	42.67	50.10	64.16	64.26	64.26
748	37.150	42.48	42.63	49.97	63.94	64.03	64.03
749	37.200	42.44	42.59	49.84	63.71	63.81	63.81
750	37.250	42.40	42.55	49.71	63.49	63.59	63.59
751	37.300	42.37	42.51	49.59	63.27	63.37	63.37
752	37.350	42.33	42.47	49.46	63.06	63.15	63.15
753	37.400	42.29	42.43	49.34	62.84	62.93	62.93
754	37.450	42.25	42.39	49.22	62.63	62.72	62.72
755	37.500	42.22	42.36	49.10	62.42	62.51	62.51
756	37.550	42.18	42.32	48.98	62.21	62.30	62.30
757	37.600	42.14	42.28	48.87	62.01	62.09	62.09
758	37.650	42.10	42.24	48.75	61.81	61.89	61.89
759	37.700	42.07	42.21	48.64	61.60	61.69	61.69
760	37.750	42.03	42.17	48.53	61.41	61.49	61.49
761	37.800	42.00	42.13	48.42	61.21	61.29	61.29
762	37.850	41.96	42.10	48.31	61.02	61.10	61.10
763	37.900	41.93	42.06	48.20	60.83	60.91	60.91
764	37.950	41.89	42.02	48.09	60.64	60.72	60.72
765	38.000	41.86	41.99	47.99	60.45	60.53	60.53
766	38.050	41.82	41.95	47.88	60.26	60.34	60.34
767	38.100	41.79	41.92	47.78	60.08	60.16	60.16
768	38.150	41.75	41.88	47.68	59.90	59.98	59.98
769	38.200	41.72	41.85	47.58	59.72	59.80	59.80
770	38.250	41.68	41.81	47.48	59.54	59.62	59.62
771	38.300	41.65	41.78	47.38	59.37	59.44	59.44
772	38.350	41.62	41.74	47.29	59.19	59.27	59.27
773	38.400	41.58	41.71	47.19	59.02	59.09	59.09
774	38.450	41.55	41.68	47.10	58.85	58.92	58.92
775	38.500	41.52	41.64	47.01	58.68	58.75	58.75
776	38.550	41.49	41.61	46.91	58.51	58.59	58.59
777	38.600	41.45	41.58	46.82	58.35	58.42	58.42
778	38.650	41.42	41.54	46.73	58.19	58.26	58.26
779	38.700	41.39	41.51	46.65	58.02	58.09	58.09
780	38.750	41.36	41.48	46.56	57.86	57.93	57.93
781	38.800	41.33	41.45	46.47	57.71	57.77	57.77
782	38.850	41.29	41.41	46.39	57.55	57.62	57.62
783	38.900	41.26	41.38	46.30	57.40	57.46	57.46
784	38.950	41.23	41.35	46.22	57.24	57.31	57.31
785	39.000	41.20	41.32	46.14	57.09	57.15	57.15
786	39.050	41.17	41.29	46.06	56.94	57.00	57.00
787	39.100	41.14	41.26	45.97	56.79	56.85	56.85
788	39.150	41.11	41.22	45.89	56.64	56.71	56.71
789	39.200	41.08	41.19	45.82	56.50	56.56	56.56
790	39.250	41.05	41.16	45.74	56.35	56.41	56.41
791	39.300	41.02	41.13	45.66	56.21	56.27	56.27
792	39.350	40.99	41.10	45.59	56.07	56.13	56.13
793	39.400	40.96	41.07	45.51	55.93	55.99	55.99
794	39.450	40.93	41.04	45.44	55.79	55.85	55.85
795	39.500	40.90	41.01	45.36	55.65	55.71	55.71
796	39.550	40.87	40.98	45.29	55.52	55.57	55.57
797	39.600	40.84	40.95	45.22	55.38	55.44	55.44
798	39.650	40.82	40.92	45.15	55.25	55.30	55.30
799	39.700	40.79	40.90	45.08	55.12	55.17	55.17
800	39.750	40.76	40.87	45.01	54.98	55.04	55.04
801	39.800	40.73	40.84	44.94	54.85	54.91	54.91
802	39.850	40.70	40.81	44.87	54.73	54.78	54.78
803	39.900	40.68	40.78	44.80	54.60	54.65	54.65
804	39.950	40.65	40.75	44.73	54.47	54.53	54.53
805	40.000	40.62	40.73	44.67	54.35	54.40	54.40
806	40.050	40.59	40.70	44.60	54.22	54.28	54.28
807	40.100	40.57	40.67	44.54	54.10	54.15	54.15
808	40.150	40.54	40.64	44.47	53.98	54.03	54.03
809	40.200	40.51	40.62	44.41	53.86	53.91	53.91
810	40.250	40.49	40.59	44.35	53.74	53.79	53.79
811	40.300	40.46	40.56	44.29	53.62	53.67	53.67
812	40.350	40.43	40.53	44.22	53.51	53.56	53.56
813	40.400	40.41	40.51	44.16	53.39	53.44	53.44
814	40.450	40.38	40.48	44.10	53.27	53.32	53.32
815	40.500	40.36	40.46	44.04	53.16	53.21	53.21
816	40.550	40.33	40.43	43.98	53.05	53.10	53.10
817	40.600	40.31	40.40	43.93	52.94	52.98	52.98
818	40.650	40.28	40.38	43.87	52.83	52.87	52.87
819	40.700	40.26	40.35	43.81	52.72	52.76	52.76
820	40.750	40.23	40.33	43.76	52.61	52.65	52.65
821	40.800	40.21	40.30	43.70	52.50	52.54	52.54
822	40.850	40.18	40.28	43.64	52.39	52.44	52.44
823	40.900	40.16	40.25	43.59	52.29	52.33	52.33
824	40.950	40.13	40.23	43.53	52.18	52.23	52.23
825	41.000	40.11	40.20	43.48	52.08	52.12	52.12
826	41.050	40.08	40.18	43.43	51.97	52.02	52.02
827	41.100	40.06	40.15	43.37	51.87	51.91	51.91
828	41.150	40.04	40.13	43.32	51.77	51.81	51.81
829	41.200	40.01	40.10	43.27	51.67	51.71	51.71
830	41.250	39.99	40.08	43.22	51.57	51.61	51.61
831	41.300	39.97	40.06	43.17	51.47	51.51	51.51
832	41.350	39.94	40.03	43.12	51.37	51.41	51.41
833	41.400	39.92	40.01	43.07	51.27	51.32	51.32

834	41.450	39.90	39.98	43.02	51.18	51.22	51.22
835	41.500	39.87	39.96	42.97	51.08	51.12	51.12
836	41.550	39.85	39.94	42.92	50.99	51.03	51.03
837	41.600	39.83	39.91	42.87	50.89	50.93	50.93
838	41.650	39.81	39.89	42.82	50.80	50.84	50.84
839	41.700	39.78	39.87	42.77	50.71	50.75	50.75
840	41.750	39.76	39.85	42.73	50.62	50.66	50.66
841	41.800	39.74	39.82	42.68	50.53	50.56	50.56
842	41.850	39.72	39.80	42.64	50.44	50.47	50.47
843	41.900	39.70	39.78	42.59	50.35	50.38	50.38
844	41.950	39.68	39.76	42.54	50.26	50.30	50.30
845	42.000	39.65	39.74	42.50	50.17	50.21	50.21
846	42.050	39.63	39.71	42.45	50.08	50.12	50.12
847	42.100	39.61	39.69	42.41	50.00	50.03	50.03
848	42.150	39.59	39.67	42.37	49.91	49.95	49.95
849	42.200	39.57	39.65	42.32	49.82	49.86	49.86
850	42.250	39.55	39.63	42.28	49.74	49.78	49.78
851	42.300	39.53	39.61	42.24	49.66	49.69	49.69
852	42.350	39.51	39.59	42.20	49.57	49.61	49.61
853	42.400	39.49	39.56	42.15	49.49	49.53	49.53
854	42.450	39.47	39.54	42.11	49.41	49.44	49.44
855	42.500	39.45	39.52	42.07	49.33	49.36	49.36
856	42.550	39.43	39.50	42.03	49.25	49.28	49.28
857	42.600	39.41	39.48	41.99	49.17	49.20	49.20
858	42.650	39.39	39.46	41.95	49.09	49.12	49.12
859	42.700	39.37	39.44	41.91	49.01	49.04	49.04
860	42.750	39.35	39.42	41.87	48.93	48.96	48.96
861	42.800	39.33	39.40	41.83	48.85	48.89	48.89
862	42.850	39.31	39.38	41.79	48.78	48.81	48.81
863	42.900	39.29	39.36	41.75	48.70	48.73	48.73
864	42.950	39.27	39.34	41.72	48.62	48.66	48.66
865	43.000	39.25	39.32	41.68	48.55	48.58	48.58
866	43.050	39.23	39.30	41.64	48.47	48.51	48.51
867	43.100	39.21	39.29	41.60	48.40	48.43	48.43
868	43.150	39.19	39.27	41.57	48.33	48.36	48.36
869	43.200	39.18	39.25	41.53	48.26	48.29	48.29
870	43.250	39.16	39.23	41.49	48.18	48.21	48.21
871	43.300	39.14	39.21	41.46	48.11	48.14	48.14
872	43.350	39.12	39.19	41.42	48.04	48.07	48.07
873	43.400	39.10	39.17	41.38	47.97	48.00	48.00
874	43.450	39.08	39.15	41.35	47.90	47.93	47.93
875	43.500	39.07	39.14	41.31	47.83	47.86	47.86
876	43.550	39.05	39.12	41.28	47.76	47.79	47.79
877	43.600	39.03	39.10	41.24	47.69	47.72	47.72
878	43.650	39.01	39.08	41.21	47.62	47.65	47.65
879	43.700	39.00	39.06	41.18	47.56	47.59	47.59
880	43.750	38.98	39.05	41.14	47.49	47.52	47.52
881	43.800	38.96	39.03	41.11	47.42	47.45	47.45
882	43.850	38.94	39.01	41.08	47.36	47.39	47.39
883	43.900	38.93	38.99	41.04	47.29	47.32	47.32
884	43.950	38.91	38.98	41.01	47.23	47.25	47.25
885	44.000	38.89	38.96	40.98	47.16	47.19	47.19
886	44.050	38.88	38.94	40.95	47.10	47.13	47.13
887	44.100	38.86	38.92	40.92	47.03	47.06	47.06
888	44.150	38.84	38.91	40.88	46.97	47.00	47.00
889	44.200	38.83	38.89	40.85	46.91	46.93	46.93
890	44.250	38.81	38.87	40.82	46.85	46.87	46.87
891	44.300	38.79	38.86	40.79	46.78	46.81	46.81
892	44.350	38.78	38.84	40.76	46.72	46.75	46.75
893	44.400	38.76	38.82	40.73	46.66	46.69	46.69
894	44.450	38.75	38.81	40.70	46.60	46.63	46.63
895	44.500	38.73	38.79	40.67	46.54	46.57	46.57
896	44.550	38.71	38.78	40.64	46.48	46.51	46.51
897	44.600	38.70	38.76	40.61	46.42	46.45	46.45
898	44.650	38.68	38.74	40.58	46.36	46.39	46.39
899	44.700	38.67	38.73	40.55	46.31	46.33	46.33
900	44.750	38.65	38.71	40.52	46.25	46.27	46.27
901	44.800	38.64	38.70	40.49	46.19	46.21	46.21
902	44.850	38.62	38.68	40.47	46.13	46.16	46.16
903	44.900	38.61	38.66	40.44	46.08	46.10	46.10
904	44.950	38.59	38.65	40.41	46.02	46.04	46.04
905	45.000	38.58	38.63	40.38	45.96	45.99	45.99
906	45.050	38.56	38.62	40.36	45.91	45.93	45.93
907	45.100	38.55	38.60	40.33	45.85	45.88	45.88
908	45.150	38.53	38.59	40.30	45.80	45.82	45.82
909	45.200	38.52	38.57	40.27	45.74	45.77	45.77
910	45.250	38.50	38.56	40.25	45.69	45.71	45.71
911	45.300	38.49	38.54	40.22	45.64	45.66	45.66
912	45.350	38.47	38.53	40.19	45.58	45.61	45.61
913	45.400	38.46	38.51	40.17	45.53	45.55	45.55
914	45.450	38.45	38.50	40.14	45.48	45.50	45.50
915	45.500	38.43	38.49	40.12	45.42	45.45	45.45
916	45.550	38.42	38.47	40.09	45.37	45.40	45.40
917	45.600	38.40	38.46	40.06	45.32	45.34	45.34
918	45.650	38.39	38.44	40.04	45.27	45.29	45.29
919	45.700	38.38	38.43	40.01	45.22	45.24	45.24
920	45.750	38.36	38.41	39.99	45.17	45.19	45.19
921	45.800	38.35	38.40	39.96	45.12	45.14	45.14
922	45.850	38.33	38.39	39.94	45.07	45.09	45.09
923	45.900	38.32	38.37	39.92	45.02	45.04	45.04
924	45.950	38.31	38.36	39.89	44.97	44.99	44.99
925	46.000	38.29	38.35	39.87	44.92	44.94	44.94
926	46.050	38.28	38.33	39.84	44.87	44.89	44.89
927	46.100	38.27	38.32	39.82	44.83	44.85	44.85
928	46.150	38.26	38.31	39.80	44.78	44.80	44.80

929	46.200	38.24	38.29	39.77	44.73	44.75	44.75
930	46.250	38.23	38.28	39.75	44.68	44.70	44.70
931	46.300	38.22	38.27	39.73	44.64	44.66	44.66
932	46.350	38.20	38.25	39.70	44.59	44.61	44.61
933	46.400	38.19	38.24	39.68	44.54	44.56	44.56
934	46.450	38.18	38.23	39.66	44.50	44.52	44.52
935	46.500	38.17	38.21	39.64	44.45	44.47	44.47
936	46.550	38.15	38.20	39.61	44.41	44.43	44.43
937	46.600	38.14	38.19	39.59	44.36	44.38	44.38
938	46.650	38.13	38.18	39.57	44.32	44.34	44.34
939	46.700	38.12	38.16	39.55	44.27	44.29	44.29
940	46.750	38.10	38.15	39.53	44.23	44.25	44.25
941	46.800	38.09	38.14	39.50	44.19	44.21	44.21
942	46.850	38.08	38.13	39.48	44.14	44.16	44.16
943	46.900	38.07	38.11	39.46	44.10	44.12	44.12
944	46.950	38.06	38.10	39.44	44.06	44.08	44.08
945	47.000	38.04	38.09	39.42	44.01	44.03	44.03
946	47.050	38.03	38.08	39.40	43.97	43.99	43.99
947	47.100	38.02	38.07	39.38	43.93	43.95	43.95
948	47.150	38.01	38.05	39.36	43.89	43.91	43.91
949	47.200	38.00	38.04	39.34	43.85	43.86	43.86
950	47.250	37.99	38.03	39.32	43.80	43.82	43.82
951	47.300	37.97	38.02	39.30	43.76	43.78	43.78
952	47.350	37.96	38.01	39.28	43.72	43.74	43.74
953	47.400	37.95	38.00	39.26	43.68	43.70	43.70
954	47.450	37.94	37.98	39.24	43.64	43.66	43.66
955	47.500	37.93	37.97	39.22	43.60	43.62	43.62
956	47.550	37.92	37.96	39.20	43.56	43.58	43.58
957	47.600	37.91	37.95	39.18	43.52	43.54	43.54
958	47.650	37.90	37.94	39.16	43.48	43.50	43.50
959	47.700	37.89	37.93	39.14	43.45	43.46	43.46
960	47.750	37.87	37.92	39.12	43.41	43.42	43.42
961	47.800	37.86	37.91	39.10	43.37	43.38	43.38
962	47.850	37.85	37.89	39.09	43.33	43.35	43.35
963	47.900	37.84	37.88	39.07	43.29	43.31	43.31
964	47.950	37.83	37.87	39.05	43.25	43.27	43.27
965	48.000	37.82	37.86	39.03	43.22	43.23	43.23
966	48.050	37.81	37.85	39.01	43.18	43.20	43.20
967	48.100	37.80	37.84	38.99	43.14	43.16	43.16
968	48.150	37.79	37.83	38.98	43.11	43.12	43.12
969	48.200	37.78	37.82	38.96	43.07	43.08	43.08
970	48.250	37.77	37.81	38.94	43.03	43.05	43.05
971	48.300	37.76	37.80	38.92	43.00	43.01	43.01
972	48.350	37.75	37.79	38.91	42.96	42.98	42.98
973	48.400	37.74	37.78	38.89	42.93	42.94	42.94
974	48.450	37.73	37.77	38.87	42.89	42.90	42.90
975	48.500	37.72	37.76	38.85	42.85	42.87	42.87
976	48.550	37.71	37.75	38.84	42.82	42.83	42.83
977	48.600	37.70	37.74	38.82	42.78	42.80	42.80
978	48.650	37.69	37.73	38.80	42.75	42.76	42.76
979	48.700	37.68	37.72	38.79	42.72	42.73	42.73
980	48.750	37.67	37.71	38.77	42.68	42.70	42.70
981	48.800	37.66	37.70	38.75	42.65	42.66	42.66
982	48.850	37.65	37.69	38.74	42.61	42.63	42.63
983	48.900	37.64	37.68	38.72	42.58	42.59	42.59
984	48.950	37.63	37.67	38.70	42.55	42.56	42.56
985	49.000	37.62	37.66	38.69	42.51	42.53	42.53
986	49.050	37.61	37.65	38.67	42.48	42.50	42.50
987	49.100	37.60	37.64	38.66	42.45	42.46	42.46
988	49.150	37.60	37.63	38.64	42.42	42.43	42.43
989	49.200	37.59	37.62	38.62	42.38	42.40	42.40
990	49.250	37.58	37.61	38.61	42.35	42.37	42.37
991	49.300	37.57	37.60	38.59	42.32	42.33	42.33
992	49.350	37.56	37.59	38.58	42.29	42.30	42.30
993	49.400	37.55	37.58	38.56	42.26	42.27	42.27
994	49.450	37.54	37.58	38.55	42.22	42.24	42.24
995	49.500	37.53	37.57	38.53	42.19	42.21	42.21
996	49.550	37.52	37.56	38.52	42.16	42.18	42.18
997	49.600	37.51	37.55	38.50	42.13	42.15	42.15
998	49.650	37.51	37.54	38.49	42.10	42.11	42.11
999	49.700	37.50	37.53	38.47	42.07	42.08	42.08
1000	49.750	37.49	37.52	38.46	42.04	42.05	42.05
1001	49.800	37.48	37.51	38.44	42.01	42.02	42.02
1002	49.850	37.47	37.50	38.43	41.98	41.99	41.99
1003	49.900	37.46	37.50	38.42	41.95	41.96	41.96
1004	49.950	37.45	37.49	38.40	41.92	41.93	41.93

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 1
BELOW JOCASSEE HYDRO-MI AT MILE .10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1107.97 FEET
FLOOD STAGE = 363.00 FEET
MAX STAGE = 361.97 FEET AT TIME = .000 HOURS
MAX FLOW = 2240696 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	500000	1000000	1500000	2000000	2500000
0	362.0	26600	.	.	.	.	.	.
2	358.9	446006	.	.	.	.	.	.
4	328.1	2240696	.	.	.	.	.	.
6	282.8	1204176	.	.	.	.	.	.
8	253.2	698966	.	.	.	.	.	.
10	233.4	434145	.	.	.	.	.	.
12	220.1	288381	.	.	.	.	.	.
14	211.1	204738	.	.	.	.	.	.
16	204.9	153685	.	.	.	.	.	.
18	200.3	120192	.	.	.	.	.	.
20	196.9	97494	.	.	.	.	.	.
22	194.4	81679	.	.	.	.	.	.
24	192.4	70398	.	.	.	.	.	.
26	190.9	62192	.	.	.	.	.	.
28	189.8	56123	.	.	.	.	.	.
30	188.9	51571	.	.	.	.	.	.
32	188.2	48119	.	.	.	.	.	.
34	187.7	45477	.	.	.	.	.	.
36	187.2	43438	.	.	.	.	.	.
38	186.9	41856	.	.	.	.	.	.
40	186.6	40621	.	.	.	.	.	.
42	186.4	39653	.	.	.	.	.	.
44	186.2	38893	.	.	.	.	.	.
46	186.1	38295	.	.	.	.	.	.
48	186.0	37821	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 13
BELOW JOCASSEE HYDRO-MI AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 840.03 FEET
FLOOD STAGE = 69.00 FEET
MAX STAGE = 109.03 FEET AT TIME = 4.750 HOURS
MAX FLOW = 2125891 CFS AT TIME = 4.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	500000	1000000	1500000	2000000	2500000
0	67.0	26622	.	.	.	.	.	.
2	70.9	415711	.	.	.	.	.	.
4	103.1	2103840	.	.	.	.	.	.
6	103.5	1237855	.	.	.	.	.	.
8	87.8	752644	.	.	.	.	.	.
10	73.5	457859	.	.	.	.	.	.
12	63.2	306367	.	.	.	.	.	.
14	53.3	219830	.	.	.	.	.	.
16	41.9	166493	.	.	.	.	.	.
18	33.0	127505	.	.	.	.	.	.
20	26.1	100683	.	.	.	.	.	.
22	22.4	83031	.	.	.	.	.	.
24	20.8	71232	.	.	.	.	.	.
26	19.8	62801	.	.	.	.	.	.
28	19.1	56386	.	.	.	.	.	.
30	18.6	51926	.	.	.	.	.	.
32	18.1	48385	.	.	.	.	.	.
34	17.8	45691	.	.	.	.	.	.
36	17.5	43607	.	.	.	.	.	.
38	17.3	41988	.	.	.	.	.	.
40	17.1	40725	.	.	.	.	.	.
42	16.9	39735	.	.	.	.	.	.
44	16.8	38958	.	.	.	.	.	.
46	16.7	38346	.	.	.	.	.	.
48	16.7	37862	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KED FAILURE ... STATION NUMBER 73
BELOW JOCASSEE HYDRO-M1 AT MILE 13.90

GAGE ZERO = 648.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 819.25 FEET
FLOOD STAGE = 152.00 FEET
MAX STAGE = 170.75 FEET AT TIME = 5.800 HOURS
MAX FLOW = 2157744 CFS AT TIME = 6.900 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	500000	1000000	1500000	2000000	2500000
0	149.6	112973	.	.	.	.	.	.
1	149.5	57388	.	.	.	.	.	.
2	150.3	146922	.	.	.	.	.	.
3	153.9	461452	.	.	.	.	.	.
4	160.4	892094	.	.	.	.	.	.
5	167.7	1084387	.	.	.	.	.	.
6	170.1	1384525	.	.	.	.	.	.
7	162.4	2116671	.	.	.	.	.	.
8	158.6	1281968	.	.	.	.	.	.
9	154.8	1038373	.	.	.	.	.	.
10	150.6	874382	.	.	.	.	.	.
11	146.3	756348	.	.	.	.	.	.
12	141.7	690627	.	.	.	.	.	.
13	137.0	611723	.	.	.	.	.	.
14	132.2	538722	.	.	.	.	.	.
15	125.4	584104	.	.	.	.	.	.
16	120.1	428095	.	.	.	.	.	.
17	115.1	373390	.	.	.	.	.	.
18	110.2	326196	.	.	.	.	.	.
19	105.5	288995	.	.	.	.	.	.
20	101.1	256168	.	.	.	.	.	.
21	96.8	227702	.	.	.	.	.	.
22	92.8	203543	.	.	.	.	.	.
23	88.9	183354	.	.	.	.	.	.
24	85.2	169701	.	.	.	.	.	.
25	81.1	169305	.	.	.	.	.	.
26	76.5	167443	.	.	.	.	.	.
27	71.6	155009	.	.	.	.	.	.
28	66.9	138266	.	.	.	.	.	.
29	62.4	120791	.	.	.	.	.	.
30	58.4	104565	.	.	.	.	.	.
31	54.9	90616	.	.	.	.	.	.
32	51.9	79171	.	.	.	.	.	.
33	49.4	70038	.	.	.	.	.	.
34	47.3	62964	.	.	.	.	.	.
35	45.6	57561	.	.	.	.	.	.
36	44.2	53468	.	.	.	.	.	.
37	43.1	50364	.	.	.	.	.	.
38	42.2	47987	.	.	.	.	.	.
39	41.4	46137	.	.	.	.	.	.
40	40.8	44668	.	.	.	.	.	.
41	40.3	43480	.	.	.	.	.	.
42	39.8	42499	.	.	.	.	.	.
43	39.4	41677	.	.	.	.	.	.
44	39.1	40980	.	.	.	.	.	.
45	38.8	40383	.	.	.	.	.	.
46	38.5	39867	.	.	.	.	.	.
47	38.3	39420	.	.	.	.	.	.
48	38.1	39030	.	.	.	.	.	.
49	37.9	38698	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 74
BELOW JOCASSEE HYDRO-M1 AT MILE 14.10
GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 818.39 FEET
FLOOD STAGE = 152.60 FEET
MAX STAGE = 170.99 FEET AT TIME = 5.800 HOURS
MAX FLOW = 3019344 CFS AT TIME = 6.950 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	150.3	41899	.	.	.	.	.	.
2	150.9	75909	.	.	.	.	.	.
4	161.1	162562	.	.	.	.	.	.
6	170.8	980445	.	.	.	.	.	.
8	158.4	1784774	.	.	.	.	.	.
10	150.5	1342806	.	.	.	.	.	.
12	141.5	1192001	.	.	.	.	.	.
14	131.9	1037764	.	.	.	.	.	.
16	120.0	730029	.	.	.	.	.	.
18	109.9	612475	.	.	.	.	.	.
20	100.7	512587	.	.	.	.	.	.
22	92.4	428750	.	.	.	.	.	.
24	84.6	356687	.	.	.	.	.	.
26	76.3	282030	.	.	.	.	.	.
28	66.8	208084	.	.	.	.	.	.
30	58.4	150076	.	.	.	.	.	.
32	51.9	110374	.	.	.	.	.	.
34	47.4	85232	.	.	.	.	.	.
36	44.4	69895	.	.	.	.	.	.
38	42.4	60447	.	.	.	.	.	.
40	41.1	54347	.	.	.	.	.	.
42	40.2	50169	.	.	.	.	.	.
44	39.5	47161	.	.	.	.	.	.
46	38.9	44923	.	.	.	.	.	.
48	38.5	43216	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 75
BELOW JOCASSEE HYDRO-M1 AT MILE 14.20
GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 818.37 FEET
FLOOD STAGE = 153.00 FEET
MAX STAGE = 171.37 FEET AT TIME = 5.800 HOURS
MAX FLOW = 3025935 CFS AT TIME = 6.950 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	150.7	19500	.	.	.	.	.	.
2	151.2	74897	.	.	.	.	.	.
4	161.5	157991	.	.	.	.	.	.
6	171.1	981918	.	.	.	.	.	.
8	158.8	1786550	.	.	.	.	.	.
10	150.9	1348266	.	.	.	.	.	.
12	141.8	1194594	.	.	.	.	.	.
14	132.2	1040131	.	.	.	.	.	.
16	120.3	732275	.	.	.	.	.	.
18	110.3	614163	.	.	.	.	.	.
20	101.1	513848	.	.	.	.	.	.
22	92.8	429686	.	.	.	.	.	.
24	85.1	357496	.	.	.	.	.	.
26	76.6	282942	.	.	.	.	.	.
28	67.1	208845	.	.	.	.	.	.
30	58.7	150593	.	.	.	.	.	.
32	52.3	110717	.	.	.	.	.	.
34	47.7	85441	.	.	.	.	.	.
36	44.7	70021	.	.	.	.	.	.
38	42.8	60527	.	.	.	.	.	.
40	41.4	54400	.	.	.	.	.	.
42	40.5	50206	.	.	.	.	.	.
44	39.8	47189	.	.	.	.	.	.
46	39.3	44943	.	.	.	.	.	.
48	38.9	43232	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 76
BELOW JOCASSEE HYDRO-M1 AT MILE 14.80

GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 795.20 FEET
FLOOD STAGE = 23.00 FEET
MAX STAGE = 149.20 FEET AT TIME = 8.020 HOURS
MAX FLOW = 3025935 CFS AT TIME = 6.950 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	21.2	19500	.	.	.	.	.	.
2	27.9	74897	.	.	.	.	.	.
4	44.0	157991	.	.	.	.	.	.
6	83.7	981918	.	.	.	.	.	.
8	149.2	1786550	.	.	.	.	.	.
10	142.5	1348266	.	.	.	.	.	.
12	133.1	1194594	.	.	.	.	.	.
14	125.5	1040131	.	.	.	.	.	.
16	112.6	732275	.	.	.	.	.	.
18	103.2	614163	.	.	.	.	.	.
20	95.5	513848	.	.	.	.	.	.
22	88.6	429686	.	.	.	.	.	.
24	82.0	357496	.	.	.	.	.	.
26	74.6	282947	.	.	.	.	.	.
28	64.9	208845	.	.	.	.	.	.
30	54.0	150593	.	.	.	.	.	.
32	45.8	110717	.	.	.	.	.	.
34	39.9	85441	.	.	.	.	.	.
36	36.1	70021	.	.	.	.	.	.
38	33.7	60527	.	.	.	.	.	.
40	32.2	54400	.	.	.	.	.	.
42	31.1	50206	.	.	.	.	.	.
44	30.2	47189	.	.	.	.	.	.
46	29.5	44943	.	.	.	.	.	.
48	28.9	43232	.	.	.	.	.	.

ATTACHMENT 8
JOSD22 SCENARIO OUTPUT

ANALYSIS OF THE DOWNSTREAM FLOOD HYDROGRAPH

PRODUCED BY THE DAM BREAK OF

JOCASSEE HYDRO-M1

ON

JOC/KEO FAILURE

ANALYSIS BY

SD FAILURE OPTION 12
JOSD22 09162008 SDFall JOC91090/K9797 W/
FPC @ L RIVER CANAL COE QT CURVE 900 4HR

BASED ON PROCEDURE DEVELOPED BY
DANNY L. FREAD, PH.D., SR. RESEARCH HYDROLOGIST

QUALITY CONTROL TESTING AND OTHER SUPPORT BY
JANICE M. LEWIS, RESEARCH HYDROLOGIST

HYDROLOGIC RESEARCH LABORATORY
W23, OFFICE OF HYDROLOGY
NOAA, NATIONAL WEATHER SERVICE
SILVER SPRING, MARYLAND 20910

MODIFIED FOR DUKE CATAWBA PROJECT

*** **
*** SUMMARY OF INPUT DATA ***
*** **

INPUT CONTROL PARAMETERS FOR JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
*****	*****	*****
NUMBER OF DYNAMIC ROUTING REACHES	KKN	1
TYPE OF RESERVOIR ROUTING	KUI	1
MULTIPLE DAM INDICATOR	MULDAM	3
PRINTING INSTRUCTIONS FOR INPUT SUMMARY	KOMP	3
NO. OF RESERVOIR INFLOW HYDROGRAPH POINTS	ITEH	7
INTERVAL OF CROSS-SECTION INFO PRINTED OUT WHEN JNK=9 NPRT		0
FLOOD-PLAIN MODEL PARAMETER	KFLP	0
METRIC INPUT/OUTPUT OPTION	METRIC	0

IDAM= 1

IDAM= 11

IDAM= 26

JOCASSEE HYDRO-M1 RESERVOIR	
TABLE OF ELEVATION VS SURFACE AREA	
SURFACE AREA (ACRES)	ELEVATION (FT)
SA (K)	HSA (K)
7500.0	1123.00
7250.0	1110.00
6250.0	1060.00
5300.0	1020.00
4350.0	980.00
2450.0	900.00
650.0	820.00
.0	760.00

DAM NUMBER 1

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	1090.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	919.00
WIDTH OF BASE OF BREACH	FEET	BB	250.00
TIME TO MAXIMUM BREACH SIZE	HR	TYH	4.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1000.50
ELEVATION OF TOP OF DAM	FEET	HD	1125.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	1110.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	1030.00
DISCHARGE THRU TURBINES	CFS	QT	26600.00

DAM NUMBER 2

JOCASSEE HYDRO-M1 RESERVOIR AND BREACH PARAMETERS			
PARAMETER	UNITS	VARIABLE	VALUE

ELEVATION OF WATER SURFACE	FEET	YO	797.00
SIDE SLOPE OF BREACH		Z	1.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	670.00
WIDTH OF BASE OF BREACH	FEET	BB	500.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	2.00
ELEVATION OF WATER WHEN BREACHED	FEET	HF	815.50
ELEVATION OF TOP OF DAM	FEET	HD	815.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	797.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	17700.00
DISCHARGE THRU TURBINES	CFS	QT	19300.00

DAM NUMBER 3

JOCASSEE HYDRO-MI RESERVOIR AND BREACH PARAMETERS

PARAMETER	UNITS	VARIABLE	VALUE
ELEVATION OF WATER SURFACE	FEET	YO	658.00
SIDE SLOPE OF BREACH		Z	.00
ELEVATION OF BOTTOM OF BREACH	FEET	YBMIN	480.00
WIDTH OF BASE OF BREACH	FEET	BB	200.00
TIME TO MAXIMUM BREACH SIZE	HR	TFH	.10
ELEVATION OF WATER WHEN BREACHED	FEET	HF	1679.00
ELEVATION OF TOP OF DAM	FEET	HD	679.00
ELEVATION OF UNCONTROLLED SPILLWAY CREST	FEET	HSP	660.00
ELEVATION OF CENTER OF GATE OPENINGS	FEET	HGT	.00
DISCHARGE COEF. FOR UNCONTROLLED SPILLWAY		CS	.00
DISCHARGE COEF. FOR GATE FLOW		CG	.00
DISCHARGE COEF. FOR UNCONTROLLED WEIR FLOW		CDO	53500.00
DISCHARGE THRU TURBINES	CFS	QT	-17500.00

QSPILL(K, 1) CFS	HEAD(K, 1) FEET
0.	.0
40875.	1.0
44081.	3.0
47314.	5.0
52701.	8.0
55476.	10.0
58759.	12.0
61722.	14.0

QSPILL(K, 2) CFS	HEAD(K, 2) FEET
0.	.0
47307.	.2
98699.	.5
102810.	2.0
111097.	4.0
119450.	6.0
136248.	10.0
144639.	12.0

QTT(L,K):
17500.00 250000.00 250000.00 100000.00 17500.00 17500.00 17500.00

QSPILL(K, 3) CFS	HEAD(K, 3) FEET
0.	0
78750.	.5
157500.	1.0
315000.	2.0
472500.	6.0
630000.	8.0
787500.	12.0
945000.	16.0

DNF(INTERVAL BETWEEN INPUT HYDROGRAPH ORDINATES) = .00 HRS.
TEN(TIME AT WHICH COMPUTATIONS TERMINATE) = 50.0000 HRS.
BREX(BREACH EXPONENT) = .000
MUD(MUD FLOW OPTION) = 0
INF(TYPE OF WAVE FRONT TRACKING) = 0
KPRES(NETTED PERIMETER OPTION) = 0
KSL(LANDSLIDE PARAMETER) = 0

INFLOW HYDROGRAPH TO JOCASSEE HYDRO-M1
.....

500.00 500.00 500.00 500.00 36000.00 36000.00 36000.00

TIME OF INFLOW HYDROGRAPH ORDINATES

.0000 1.0000 7.0000 8.0000 14.0000 30.0000 140.0000

CROSS-SECTIONAL PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	VARIABLE	VALUE
NUMBER OF CROSS-SECTIONS	NS	31
MAXIMUM NUMBER OF TOP WIDTHS	NCS	7
NUMBER OF CROSS-SECTIONAL HYDROGRAPHS TO PLOT	NTT	-6
TYPE OF OUTPUT OTHER THAN HYDROGRAPH PLOTS	JNK	9
CROSS-SECTIONAL SMOOTHING PARAMETER	KSA	0
DOWNSTREAM SUPERCRITICAL OR NOT	KSUPC	0
NO. OF LATERAL INFLOW HYDROGRAPHS	LQ	0
NO. OF POINTS IN GATE CONTROL CURVE	KCG	0

NUMBER OF FLOOD PLAIN COMPARTMENTS = 1

NUMBER OF CROSS-SECTION WHERE HYDROGRAPH DESIRED
(MAX NUMBER OF HYDROGRAPHS = 6)
.....

1 3 9 10 11 12

CROSS-SECTIONAL VARIABLES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE
.....

LOCATION OF CROSS-SECTION	MILE	XS(I)
ELEVATION(MSL) OF FLOODING AT CROSS-SECTION	FEET	FSTG(I)
ELEV CORRESPONDING TO EACH TOP WIDTH	FEET	HS(N, I)
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BS(N, I)
(ACTIVE FLOW PORTION)		
TOP WIDTH CORRESPONDING TO EACH ELEV	FEET	BSS(N, I)
(OFF-CHANNEL PORTION)		
NUMBER OF CROSS-SECTION		I
NUMBER OF ELEVATION LEVEL		K

CROSS-SECTION NUMBER 1

XS(I) = .100 FSTG(I) = 1109.00

HS ...	746.0	780.0	840.0	940.0	1000.0	1100.0	1140.0
BS ...	.0	600.0	900.0	1400.0	1800.0	2600.0	2750.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 2

XS(I) = .130 FSTG(I) = 800.00

HS ...	745.0	760.0	800.0	820.0	840.0	900.0	940.0
BS ...	.0	1000.0	1500.0	1600.0	1800.0	2000.0	2200.0
BSS ...	.0	.0	541.0	900.0	1184.0	2897.0	4000.0

CROSS-SECTION NUMBER 3

XS(I) = 1.320 FSTG(I) = 800.00

HS ...	731.0	740.0	760.0	800.0	820.0	840.0	900.0
BS ...	.0	250.0	1300.0	2000.0	2200.0	2400.0	2600.0
BSS ...	.0	.0	.0	541.0	900.0	1184.0	2897.0

CROSS-SECTION NUMBER 4

XS(I) = 2.910 FSTG(I) = 800.00

HS ...	715.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	700.0	1700.0	1850.0	2100.0	2800.0
BSS ...	.0	.0	.0	3359.0	5100.0	6807.0	12826.0

CROSS-SECTION NUMBER 5

XS(I) = 3.820 FSTG(I) = 800.00

HS ...	710.0	720.0	740.0	800.0	820.0	840.0	900.0
BS ...	.0	200.0	500.0	800.0	850.0	925.0	2300.0
BSS ...	.0	.0	.0	3771.0	5780.0	7764.0	14838.0

CROSS-SECTION NUMBER 6

XS(I) = 6.470 FSTG(I) = 800.00

HS ...	693.0	720.0	740.0	800.0	820.0	840.0	900.0
BS0	500.0	600.0	1000.0	1150.0	1300.0	1900.0
BSS0	.0	.0	412.0	680.0	957.0	2032.0

CROSS-SECTION NUMBER 7

XS(I) = 0.210 FSTG(I) = 800.00

HS ...	680.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	1600.0	1850.0	2000.0	2300.0	2425.0	2700.0
BSS ...	.0	.0	.0	.0	8701.0	15300.0	22100.0

CROSS-SECTION NUMBER 8

XS(I) = 10.480 FSTG(I) = 800.00

HS ...	672.0	720.0	740.0	760.0	800.0	820.0	840.0
BS ...	.0	2400.0	3700.0	4000.0	4400.0	4660.0	4950.0
BSS ...	.0	.0	.0	.0	1426.0	2860.0	4300.0

CROSS-SECTION NUMBER 9

XS(I) = 13.900 FSTG(I) = 800.00

HS ...	648.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 10

XS(I) = 14.100 FSTG(I) = 800.00

HS ...	647.4	680.0	740.0	780.0	800.0	820.0	840.0
BS0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 11

XS(I) = 14.200 FSTG(I) = 800.00

HS ...	647.0	680.0	740.0	780.0	800.0	820.0	840.0
BS ...	.0	500.0	1600.0	3400.0	4000.0	4040.0	4200.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 12

XS(I) = 14.800 FSTG(I) = 669.00

HS ...	646.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	225.0	600.0	800.0	1100.0	3500.0	5000.0
BSS ...	.0	.0	.0	250.0	350.0	3116.0	3110.0

CROSS-SECTION NUMBER 13

XS(I) = 16.400 FSTG(I) = 667.00

HS ...	645.0	660.0	680.0	700.0	720.0	760.0	815.0
BS ...	.0	500.0	1000.0	1300.0	1600.0	2200.0	3100.0
BSS ...	.0	.0	.0	100.0	100.0	2016.0	3309.0

CROSS-SECTION NUMBER 14
.....

XS(I) = 17.800 FSTG(I) = 665.00

HS ...	644.0	660.0	680.0	700.0	720.0	760.0	810.0
BS ...	.0	400.0	700.0	800.0	1800.0	2400.0	4000.0
BSS ...	.0	.0	100.0	100.0	1000.0	1600.0	1500.0

CROSS-SECTION NUMBER 15
.....

XS(I) = 20.300 FSTG(I) = 661.40

HS ...	633.0	660.0	680.0	700.0	720.0	760.0	800.0
BS ...	.0	400.0	500.0	650.0	750.0	1000.0	1700.0
BSS ...	.0	.0	.0	50.0	50.0	200.0	300.0

CROSS-SECTION NUMBER 16
.....

XS(I) = 21.900 FSTG(I) = 660.60

HS ...	628.0	660.0	680.0	700.0	720.0	760.0	780.0
BS ...	.0	500.0	1000.0	1100.0	1200.0	1700.0	2000.0
BSS ...	.0	.0	.0	1217.0	2400.0	5000.0	6007.0

CROSS-SECTION NUMBER 17
.....

XS(I) = 25.100 FSTG(I) = 660.00

HS ...	620.0	640.0	660.0	680.0	700.0	720.0	740.0
BS ...	.0	300.0	1400.0	1500.0	1700.0	2000.0	3000.0
BSS ...	.0	.0	.0	.0	9240.0	12350.0	15400.0

CROSS-SECTION NUMBER 18
.....

XS(I) = 26.700 FSTG(I) = 640.00

HS ...	614.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	200.0	1000.0	1300.0	1800.0	3000.0	5000.0
BSS ...	.0	.0	.0	1770.0	9150.0	25712.0	30000.0

CROSS-SECTION NUMBER 19
.....

XS(I) = 29.200 FSTG(I) = 660.00

HS ...	607.0	620.0	640.0	660.0	680.0	700.0	740.0
BS ...	.0	250.0	600.0	800.0	4700.0	6000.0	7000.0
BSS ...	.0	.0	.0	.0	500.0	1000.0	2000.0

CROSS-SECTION NUMBER 20

XS(I) = 31.500 FSTG(I) = 660.00

HS ...	600.0	620.0	640.0	660.0	670.0	680.0	700.0
BS ...	.0	1400.0	2000.0	2400.0	2800.0	3000.0	4000.0
BSS ...	.0	.0	.0	2330.0	3150.0	4320.0	5764.0

CROSS-SECTION NUMBER 21

XS(I) = 36.800 FSTG(I) = 660.00

HS ...	589.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	600.0	1500.0	1700.0	2200.0	2900.0	3500.0
BSS ...	.0	.0	.0	50.0	3664.0	5720.0	9808.0

CROSS-SECTION NUMBER 22

XS(I) = 40.100 FSTG(I) = 660.00

HS ...	583.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	600.0	800.0	900.0	1100.0	1200.0
BSS ...	.0	.0	.0	50.0	384.0	1900.0	3444.0

CROSS-SECTION NUMBER 23

XS(I) = 41.100 FSTG(I) = 660.00

HS ...	540.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	1500.0	1900.0	2000.0	2150.0	2350.0	3100.0
BSS ...	.0	.0	.0	50.0	10358.0	15200.0	20109.0

CROSS-SECTION NUMBER 24

XS(I) = 42.800 FSTG(I) = 660.00

HS ...	520.0	600.0	620.0	640.0	660.0	680.0	700.0
BS ...	.0	2000.0	4300.0	5700.0	11000.0	13000.0	14000.0
BSS ...	.0	.0	3500.0	4000.0	34673.0	68200.0	101803.0

CROSS-SECTION NUMBER 25

XS(I) = 49.900 FSTG(I) = 660.00

HS ...	497.0	500.0	600.0	640.0	660.0	680.0	700.0
BS ...	.0	500.0	3500.0	4200.0	10000.0	10700.0	11200.0
BSS ...	.0	.0	1000.0	1800.0	18239.0	29500.0	40619.0

CROSS-SECTION NUMBER 26

XS(I) = 53.900 FSTG(I) = 660.00

HS ...	490.0	540.0	600.0	620.0	640.0	660.0	680.0
BS ...	.0	1500.0	12000.0	14000.0	14700.0	15000.0	16200.0
BSS ...	.0	.0	.0	50.0	100.0	1500.0	2400.0

CROSS-SECTION NUMBER 27
.....

XS(I) = 54.400 FSTG(I) = 496.80

HS ...	485.0	500.0	520.0	540.0	560.0	580.0	600.0
BS ...	.0	1000.0	1100.0	1200.0	1250.0	2100.0	2300.0
BSS ...	.0	.0	.0	.0	.0	.0	.0

CROSS-SECTION NUMBER 28
.....

XS(I) = 55.700 FSTG(I) = 482.00

HS ...	474.0	480.0	500.0	520.0	540.0	580.0	600.0
BS ...	.0	1900.0	2000.0	2200.0	2700.0	3700.0	4200.0
BSS ...	.0	.0	4340.0	33000.0	61000.0	117360.0	.0

CROSS-SECTION NUMBER 29
.....

XS(I) = 69.700 FSTG(I) = 477.00

HS ...	405.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	650.0	1800.0	2600.0	3300.0	3800.0	5200.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	300.0

CROSS-SECTION NUMBER 30
.....

XS(I) = 72.300 FSTG(I) = 477.00

HS ...	387.0	410.0	430.0	450.0	480.0	500.0	520.0
BS ...	.0	1500.0	1800.0	2100.0	2500.0	3300.0	3800.0
BSS ...	.0	.0	200.0	200.0	200.0	200.0	200.0

CROSS-SECTION NUMBER 31
.....

XS(I) = 79.900 FSTG(I) = 477.00

HS ...	330.0	350.0	400.0	430.0	450.0	480.0	500.0
BS ...	.0	1500.0	1800.0	2000.0	2200.0	3800.0	6000.0
BSS ...	.0	.0	.0	.0	200.0	1000.0	1000.0

MANING N ROUGHNESS COEFFICIENTS FOR THE GIVEN REACHES
(ICM(K,I),K=1,NCS) WHERE I = REACH NUMBER
.....

REACH 1 ...	.030	.030	.030	.030	.030	.030	.030
REACH 2 ...	.030	.030	.035	.040	.050	.070	.080
REACH 3 ...	.030	.030	.030	.035	.040	.050	.080
REACH 4 ...	.030	.030	.030	.035	.040	.050	.080
REACH 5 ...	.030	.030	.030	.035	.040	.050	.080
REACH 6 ...	.030	.030	.030	.030	.035	.050	.080
REACH 7 ...	.030	.030	.030	.030	.035	.050	.080

REACH 8 ...	.030	.030	.030	.030	.035	.050	.080
REACH 9 ...	.030	.030	.030	.035	.040	.050	.080
REACH 10 ...	.030	.030	.030	.035	.040	.050	.080
REACH 11 ...	.030	.030	.030	.035	.040	.050	.080
REACH 12 ...	.030	.030	.030	.035	.040	.050	.080
REACH 13 ...	.030	.030	.035	.050	.060	.070	.080
REACH 14 ...	.030	.030	.035	.050	.060	.070	.080
REACH 15 ...	.030	.030	.035	.050	.060	.070	.080
REACH 16 ...	.030	.030	.030	.035	.050	.060	.080
REACH 17 ...	.030	.030	.030	.035	.050	.060	.080
REACH 18 ...	.030	.030	.030	.035	.050	.060	.080
REACH 19 ...	.030	.030	.030	.035	.050	.060	.080
REACH 20 ...	.030	.030	.030	.035	.035	.060	.080
REACH 21 ...	.030	.030	.030	.035	.035	.060	.080
REACH 22 ...	.030	.030	.030	.035	.035	.060	.080
REACH 23 ...	.030	.030	.030	.035	.035	.060	.080
REACH 24 ...	.030	.030	.030	.035	.035	.060	.080
REACH 25 ...	.030	.030	.030	.035	.035	.060	.080
REACH 26 ...	.030	.030	.030	.035	.050	.060	.080
REACH 27 ...	.030	.030	.030	.035	.050	.060	.080
REACH 28 ...	.030	.030	.030	.035	.050	.060	.080
REACH 29 ...	.030	.030	.030	.035	.050	.060	.080
REACH 30 ...	.030	.030	.030	.035	.050	.060	.080

CROSS-SECTIONAL VARIABLES FOR JOC/KED FAILURE
BELOW JOCASSEE HYDRO-E1

PARAMETER	UNITS	VARIABLE
MINIMUM COMPUTATIONAL DISTANCE USED BETWEEN CROSS-SECTIONS	MILE	DXM(I)
CONTRACTION - EXPANSION COEFFICIENTS BETWEEN CROSS-SECTIONS		FXC(I)

REACH NUMBER	DXM(I)	FXC(I)
1	101.000	.000
2	.100	.000
3	.100	.000
4	.300	.000
5	.200	.000
6	.200	.000
7	.500	.000
8	.200	.000
9	.500	.000
10	1.500	.000
11	101.000	.000

12	.100	.000
13	.100	.000
14	.300	.000
15	2.500	.000
16	2.500	.000
17	.500	.000
18	2.000	.000
19	.500	.000
20	2.000	.000
21	3.000	.000
22	1.000	.000
23	1.000	.000
24	1.000	.000
25	1.000	.000
26	101.000	.000
27	.500	.000
28	.500	.000
29	.500	.000
30	1.000	.000

1

DOWNSTREAM FLOW PARAMETERS FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

PARAMETER	UNITS	VARIABLE	VALUE
MAX DISCHARGE AT DOWNSTREAM EXTREMITY	CFS	QMAXD	.0
MAX LATERAL OUTFLOW PRODUCING LOSSES	CFS /FEET	QLL	.000
INITIAL SIZE OF TIME STEP	HOURL	DTIM	.0500
DOWNSTREAM BOUNDARY PARAMETER	FEET	YDN	.000200
SLOPE OF CHANNEL DOWNSTREAM OF DAM	FPN	SOM	.00
THETA WEIGHTING FACTOR		THETA	.00
CONVERGENCE CRITERION FOR STAGE	FEET	EPSY	.010
TIME AT WHICH DAM STARTS TO FAIL	HOURL	TFI	.00

NPLD= 1

III= 1 NXPI(K,III)= 9 NXPN(K,III)= 10 NQLP(K)= 0 PMELV(K,III)= 720.10 PCMR(K,III)= 3.20 PEO(K)= 794.61 QMINP(K)= .00

(PSA(I,K),I=1,8)
58854.00 353605.00 485177.00 535128.00 644168.00 703866.00 767766.00 908172.00

(PEL(I,K),I=1,8)
720.00 780.00 795.00 800.00 810.00 815.00 820.00 830.00

(QPU(I,K),I=1,ITEH)
.00 .00 .00 .00 .00 .00 .00 .00

(COFF(I,K),I=1,8)
.00 .00 .00 .00 .00 .00 .00 .00

(HCFF(I,K),I=1,8)
900.00 .00 .00 .00 .00 .00 .00 .00

NPM= 0

TOTAL NUMBER OF CROSS SECTIONS (ORIGINAL+INTERPOLATED) (N) = 183 (MAXIMUM ALLOWABLE = 250)

*** SUMMARY OF OUTPUT DATA ***

CROSS-SECTION NO.	MILE	BOTTOM ELEVATION FEET	REACH NO.	REACH LENGTH MILE	SLOPE FPM	MESSAGE
1	.10	746.00				
2	.13	745.00	1	.03	33.33	
3	1.32	731.00	2	1.19	11.76	
4	2.91	715.00	3	1.59	10.06	
5	3.82	710.00	4	.91	5.49	
6	6.47	693.00	5	2.65	6.42	
7	8.21	680.00	6	1.74	7.47	
8	10.48	672.00	7	2.27	3.52	
9	13.90	648.00	8	3.42	7.02	
10	14.10	647.40	9	.20	3.00	
11	14.20	647.00	10	.10	4.00	
12	14.80	646.00	11	.60	1.67	
13	16.40	645.00	12	1.60	.63	
14	17.80	644.00	13	1.40	.71	
15	20.30	633.00	14	2.50	4.40	
16	21.90	628.00	15	1.60	3.12	
17	25.10	620.00	16	3.20	2.50	
18	26.70	614.00	17	1.60	3.75	
19	29.20	607.00	18	2.50	2.80	
20	31.50	600.00	19	2.30	3.04	
21	36.80	589.00	20	5.30	2.08	
22	40.10	583.00	21	3.30	1.82	
23	41.10	540.00	22	1.00	43.00	
24	42.80	520.00	23	1.70	11.76	
25	49.90	497.00	24	7.10	3.24	
26	53.90	490.00	25	4.00	1.75	
27	54.40	485.00	26	.50	10.00	
28	55.70	474.00	27	1.30	8.46	
29	69.70	405.00	28	14.00	4.93	
30	72.30	387.00	29	2.60	6.92	
31	79.90	330.00	30	7.60	7.50	

RE-NUMBERED VALUES FOR IDAM

IDAM(1) = 1

IDAM(2) = 75

IDAM(3) = 140

SNC(K,1)= 1.00 1.00 1.00 1.00 1.00 1.00 1.00

NUMBER OF INTERMEDIATE STATIONS

NN(NS) 183

NUMBER OF TIME STEPS

NNU 7

ROUTING COMPLETED.

KTIME= 1004

ALLOWABLE KTIME=9999

TT= 50.0

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.....
.100	1089.98	1933764	.000	4.92	1109.00	.00
.130	835.35	1933764	4.650	17.94	800.00	2.05
.238	835.02	1923094	4.650	17.68	800.00	2.05
.346	834.71	1912363	4.650	17.36	800.00	2.05
.455	834.40	1901566	4.700	16.99	800.00	2.10
.563	834.11	1890699	4.700	16.58	800.00	2.10
.671	833.84	1882266	4.700	16.13	800.00	2.10
.779	833.58	1875865	4.700	15.64	800.00	2.10
.887	833.34	1868844	4.750	15.13	800.00	2.15
.995	833.11	1861269	4.750	14.59	800.00	2.15
1.104	832.88	1853206	4.750	14.05	800.00	2.15
1.212	832.65	1844719	4.750	13.49	800.00	2.15
1.320	832.42	1835878	4.750	12.94	800.00	2.15
1.426	832.21	1826544	4.750	12.39	800.00	2.20
1.532	832.00	1816183	4.750	12.93	800.00	2.20
1.638	831.79	1804814	4.750	12.92	800.00	2.20
1.744	831.58	1792460	4.800	12.93	800.00	2.20
1.850	831.37	1779145	4.800	12.93	800.00	2.20
1.956	831.15	1764899	4.800	12.93	800.00	2.20
2.062	830.93	1752627	4.800	12.93	800.00	2.25
2.168	830.71	1739634	4.800	12.93	800.00	2.25
2.274	830.48	1725661	4.800	12.92	800.00	2.25
2.380	830.25	1710776	4.800	12.92	800.00	2.25
2.486	830.01	1694850	4.800	12.91	800.00	2.25
2.592	829.76	1678066	4.800	12.90	800.00	2.30
2.698	829.51	1660416	4.800	12.90	800.00	2.30
2.804	829.24	1641938	4.800	12.89	800.00	2.30
2.910	828.97	1622693	4.800	12.89	800.00	2.30
3.013	828.76	1576694	4.850	15.12	800.00	2.35
3.117	824.35	1545641	4.950	18.68	800.00	2.40
3.820	819.76	1526438	6.700	25.57	800.00	2.55
4.024	819.41	1517037	6.700	24.92	800.00	2.60
4.228	819.08	1510618	6.700	24.36	800.00	2.60
4.432	818.77	1505395	6.700	23.88	800.00	2.65
4.635	818.47	1500187	6.700	23.57	800.00	2.70
4.839	818.18	1494980	6.700	23.27	800.00	2.75
5.043	817.90	1489478	6.700	22.97	800.00	2.80
5.247	817.64	1483863	6.700	22.68	800.00	2.90
5.451	817.38	1478400	6.700	22.36	800.00	2.95
5.655	817.14	1473269	6.700	22.06	800.00	3.00
5.858	816.91	1468536	6.700	21.75	800.00	3.05
6.062	816.69	1464221	6.700	21.43	800.00	3.15
6.266	816.48	1460337	6.700	21.13	800.00	3.20
6.470	816.28	1456910	6.700	20.81	800.00	3.30
6.687	816.77	1452813	6.650	16.54	800.00	3.15
6.905	817.04	1448926	6.650	13.76	800.00	3.10
7.122	817.20	1438591	6.650	11.75	800.00	3.10
7.340	817.29	1427380	6.600	10.21	800.00	3.05

PROFILE OF CRESTS AND TIMES FOR JOC/KEO FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
.....
7.557	817.35	1412973	6.600	8.98	800.00	3.05
7.775	817.38	1394993	6.600	7.97	800.00	3.05
7.992	817.40	1373013	6.600	7.12	800.00	3.05
8.210	817.41	1346643	6.660	6.38	800.00	3.05
8.777	817.41	1329332	6.550	5.85	800.00	3.05
9.345	817.39	1432862	6.550	5.67	800.00	3.05
9.912	817.36	1518376	6.550	5.49	800.00	3.05
10.480	817.34	1583154	6.500	5.26	800.00	3.10
10.681	817.32	1602122	6.500	4.91	800.00	3.10
10.882	817.31	1620171	6.500	4.56	800.00	3.10
11.084	817.29	1638728	6.500	4.22	800.00	3.10
11.285	817.27	1657405	6.500	4.26	800.00	3.10
11.486	817.25	1675327	6.500	4.36	800.00	3.10
11.687	817.23	1692487	6.500	4.46	800.00	3.10
11.888	817.21	1708875	6.500	4.58	800.00	3.10
12.089	817.19	1724484	6.500	4.71	800.00	3.10
12.291	817.16	1739307	6.500	4.85	800.00	3.10
12.492	817.13	1753322	6.500	5.01	800.00	3.10
12.693	817.11	1767179	6.450	5.17	800.00	3.10
12.894	817.08	1782279	6.450	5.36	800.00	3.10
13.095	817.05	1796734	6.450	5.55	800.00	3.10
13.296	817.01	1810529	6.450	5.78	800.00	3.10
13.498	816.97	1823667	6.450	6.03	800.00	3.15

13.699	816.93	1836202	6.450	6.32	800.00	3.13
13.900	816.89	1848093	6.450	6.65	800.00	3.13
14.100	816.96	2918152	6.450	10.91	800.00	3.13
14.200	816.94	2925199	6.400	10.97	800.00	3.15
14.800	792.18	2925199	8.700	17.41	669.00	2.20
14.900	791.97	2871294	8.700	16.75	668.88	2.20
15.000	791.75	2817533	8.750	16.18	668.75	2.25
15.100	791.54	2764106	8.750	15.77	668.63	2.25
15.200	791.33	2711196	8.750	15.42	668.50	2.25
15.300	791.12	2658975	8.750	15.12	668.38	2.25
15.400	790.91	2607601	8.750	14.82	668.25	2.25
15.500	790.69	2564575	8.750	14.53	668.13	2.30
15.600	790.48	2522897	8.750	14.29	668.00	2.30
15.700	790.27	2481492	8.800	14.04	667.88	2.30
15.800	790.07	2440548	8.800	13.81	667.75	2.30
15.900	789.86	2400232	8.800	13.57	667.63	2.30
16.000	789.65	2360684	8.800	13.36	667.50	2.35
16.100	789.45	2322010	8.800	13.14	667.38	2.35
16.200	789.25	2284294	8.800	12.93	667.25	2.35
16.300	789.05	2247600	8.800	12.76	667.13	2.35
16.400	788.86	2216357	8.800	12.57	667.00	2.35
16.500	788.62	2186068	8.800	12.47	666.86	2.35
16.600	788.38	2155384	8.850	12.37	666.71	2.35
16.700	788.14	2124330	8.850	12.28	666.57	2.35
16.800	787.89	2092930	8.850	12.18	666.43	2.40

PROFILE OF CRESTS AND TIMES FOR JOC/RED FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM MILE	MAX ELEV FEET	MAX FLOW CFS	TIME MAX ELEV-HRS	MAX VEL FPS	FLOOD ELEV FEET	TIME FLOOD ELEV-HRS
16.900	787.63	2061209	8.850	12.09	666.29	2.40
17.000	787.37	2029195	8.850	11.99	666.14	2.40
17.100	787.10	1996919	8.850	11.90	666.00	2.40
17.200	786.82	1968084	8.850	11.81	665.86	2.40
17.300	786.53	1939353	8.850	11.72	665.71	2.40
17.400	786.24	1910358	8.900	11.63	665.57	2.45
17.500	785.94	1881118	8.900	11.54	665.43	2.45
17.600	785.63	1851657	8.900	11.45	665.29	2.45
17.700	785.32	1825417	8.900	11.36	665.14	2.45
17.800	784.99	1801522	8.900	11.26	665.00	2.45
18.113	783.71	1749284	8.950	11.58	664.55	2.50
18.425	782.18	1718599	8.950	12.02	664.10	2.55
18.738	780.31	1700026	8.950	12.60	663.65	2.60
19.050	777.96	1688014	9.000	13.43	663.20	2.60
19.363	774.94	1680052	9.000	14.59	662.75	2.65
19.675	770.93	1674017	9.050	16.43	662.30	2.70
19.988	765.36	1669225	9.100	19.40	661.85	2.70
20.300	757.18	1665277	9.150	24.16	661.40	2.75
21.900	731.92	1629924	10.500	22.68	660.60	3.00
25.100	714.85	1365414	13.350	17.35	660.00	4.45
25.633	712.48	1302730	13.550	16.07	660.00	4.85
26.167	709.92	1241873	13.800	14.15	660.00	5.20
26.700	707.40	1212712	14.050	11.62	660.00	5.60
29.200	695.00	1164733	16.300	17.12	660.00	8.10
29.775	692.62	1151890	16.700	11.65	660.00	8.10
30.350	690.68	1135359	17.000	10.22	660.00	8.20
30.925	689.15	1120098	17.250	8.91	660.00	8.25
31.500	687.90	1105103	17.450	7.72	660.00	8.35
34.150	682.48	1044744	18.300	7.32	660.00	8.95
36.800	677.18	1003804	19.700	7.60	660.00	9.80
40.100	669.51	980396	30.400	21.10	660.00	16.35
41.100	669.94	970358	29.050	5.76	660.00	12.85
42.800	669.93	895055	29.050	1.98	660.00	12.80
43.814	669.91	825292	29.150	1.76	660.00	12.80
44.829	669.89	759513	29.150	1.57	660.00	12.85
45.843	669.88	697714	29.200	1.40	660.00	12.85
46.857	669.86	639988	29.200	1.25	660.00	12.85
47.871	669.85	586505	29.250	1.13	660.00	12.85
48.886	669.83	537308	29.250	1.02	660.00	12.85
49.900	669.82	501040	29.300	.92	660.00	12.85
50.900	669.81	476897	29.250	.57	660.00	12.85
51.900	669.81	462014	29.250	.43	660.00	12.85
52.900	669.81	455269	29.250	.36	660.00	12.85
53.900	669.81	453630	29.250	.32	660.00	12.85
54.400	513.29	453630	28.500	21.38	496.80	.10
55.050	499.91	453616	29.900	20.43	489.40	.30
55.700	498.59	453522	30.000	10.84	482.00	.35
56.200	496.42	453417	30.150	10.84	481.82	.60

PROFILE OF CRESTS AND TIMES FOR JOC/RED FAILURE
BELOW JOCASSEE HYDRO-M1

DISTANCE FROM DAM	MAX ELEV	MAX FLOW	TIME MAX	MAX VEL	FLOOD ELEV	TIME FLOOD
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MILE	FEET	CFG	ELEV-HRS	FPS	FEET	ELEV-HRS
56.700	494.26	453303	30.350	10.84	481.64	.90
57.200	492.12	453181	30.500	10.83	481.46	1.25
57.700	490.00	453050	30.700	10.82	481.29	1.85
58.200	487.88	452905	30.850	10.80	481.11	15.30
58.700	485.77	452747	31.050	10.77	480.93	16.40
59.200	483.67	452578	31.200	10.74	480.75	20.30
59.700	481.57	452398	31.400	10.72	480.57	24.90
60.200	479.47	452207	31.550	10.69	480.39	.00
60.700	477.37	452012	31.750	10.65	480.21	.00
61.200	475.28	451813	31.950	10.62	480.04	.00
61.700	473.19	451613	32.100	10.58	479.86	.00
62.200	471.10	451414	32.300	10.54	479.68	.00
62.700	469.01	451219	32.450	10.51	479.50	.00
63.200	466.92	451031	32.600	10.47	479.32	.00
63.700	464.82	450852	32.750	10.43	479.14	.00
64.200	462.73	450686	32.900	10.39	478.96	.00
64.700	460.63	450534	33.000	10.35	478.79	.00
65.200	458.52	450398	33.150	10.31	478.61	.00
65.700	456.41	450279	33.250	10.28	478.43	.00
66.200	454.27	450176	33.350	10.26	478.25	.00
66.700	452.12	450092	33.400	10.24	478.07	.00
67.200	449.94	450025	33.500	10.24	477.89	.00
67.700	447.73	449973	33.550	10.25	477.71	.00
68.200	445.45	449937	33.600	10.30	477.54	.00
68.700	443.10	449910	33.650	10.38	477.36	.00
69.200	440.63	449884	33.700	10.53	477.18	.00
69.700	437.97	449863	33.750	10.78	477.00	.00
70.220	434.71	449875	33.790	11.66	477.00	.00
70.740	431.17	449869	33.800	12.47	477.00	.00
71.260	427.31	449864	33.850	13.09	477.00	.00
71.780	423.71	449860	33.850	13.49	477.00	.00
72.300	419.70	449857	33.900	13.84	477.00	.00
73.386	411.29	449851	34.000	13.91	477.00	.00
74.471	402.90	449845	34.050	13.97	477.00	.00
75.557	394.54	449838	34.150	13.99	477.00	.00
76.643	386.79	449821	34.350	13.60	477.00	.00
77.729	381.56	449791	34.500	11.84	477.00	.00
78.814	379.08	449760	34.500	11.04	477.00	.00
79.900	378.00	449746	34.500	7.58	477.00	.00

K	TRP(K)	YC(K, 1, 1=1, NTT)					
1	.000	1089.97	797.01	796.63	796.68	796.66	667.17
2	.050	1089.95	797.01	796.61	796.60	796.63	667.17
3	.100	1089.94	797.01	796.66	796.66	796.64	667.17
4	.150	1089.92	797.01	796.67	796.69	796.71	667.17
5	.200	1089.91	797.01	796.70	796.69	796.68	667.17
6	.250	1089.89	797.01	796.69	796.70	796.72	667.17
7	.300	1089.87	797.01	796.69	796.69	796.68	667.17
8	.350	1089.86	797.00	796.65	796.66	796.67	667.17
9	.400	1089.84	796.97	796.60	796.60	796.60	667.17
10	.450	1089.83	796.91	796.52	796.53	796.53	667.17
11	.500	1089.81	796.81	796.46	796.46	796.46	667.17
12	.550	1089.80	796.66	796.42	796.42	796.42	667.17
13	.600	1089.78	796.49	796.41	796.41	796.41	667.17
14	.650	1089.76	796.33	796.44	796.44	796.44	667.17
15	.700	1089.75	796.21	796.48	796.48	796.48	667.17
16	.750	1089.73	796.16	796.50	796.50	796.50	667.17
17	.800	1089.72	796.17	796.51	796.51	796.51	667.17
18	.850	1089.70	796.20	796.51	796.51	796.51	667.17
19	.900	1089.68	796.22	796.50	796.51	796.51	667.17
20	.950	1089.66	796.23	796.50	796.50	796.50	667.17
21	1.000	1089.63	796.23	796.48	796.49	796.49	667.17
22	1.050	1089.61	796.22	796.46	796.46	796.46	667.17
23	1.100	1089.58	796.22	796.43	796.43	796.43	667.17
24	1.150	1089.55	796.24	796.40	796.40	796.40	667.17
25	1.200	1089.51	796.31	796.36	796.36	796.36	667.17
26	1.250	1089.47	796.41	796.32	796.32	796.32	667.17
27	1.300	1089.43	796.55	796.29	796.29	796.29	667.17
28	1.350	1089.38	796.71	796.26	796.26	796.26	667.17
29	1.400	1089.33	796.89	796.24	796.24	796.24	667.17
30	1.450	1089.27	797.07	796.24	796.24	796.24	667.17
31	1.500	1089.20	797.25	796.25	796.25	796.25	667.17
32	1.550	1089.12	797.42	796.27	796.27	796.27	667.17
33	1.600	1089.04	797.59	796.29	796.29	796.29	667.17
34	1.650	1088.95	797.75	796.30	796.30	796.30	667.17
35	1.700	1088.85	797.92	796.31	796.31	796.31	667.17
36	1.750	1088.74	798.10	796.32	796.32	796.32	667.17
37	1.800	1088.62	798.30	796.35	796.35	796.35	667.17
38	1.850	1088.48	798.52	796.41	796.41	796.41	667.17
39	1.900	1088.34	798.74	796.48	796.48	796.48	667.17
40	1.950	1088.18	798.98	796.58	796.58	796.58	667.17
41	2.000	1088.01	799.22	796.69	796.69	796.69	667.17
42	2.050	1087.82	799.47	796.81	796.80	796.80	667.17
43	2.100	1087.62	799.75	796.93	796.93	796.93	667.17

44	2.150	1087.40	800.04	797.03	797.03	797.02	667.85
45	2.200	1087.17	800.35	797.10	797.09	797.08	669.85
46	2.250	1086.91	800.68	797.17	797.16	797.15	671.67
47	2.300	1086.64	801.04	797.25	797.24	797.23	673.65
48	2.350	1086.35	801.42	797.33	797.33	797.32	675.49
49	2.400	1086.04	801.83	797.41	797.42	797.42	677.28
50	2.450	1085.71	802.26	797.55	797.54	797.54	678.83
51	2.500	1085.36	802.72	797.71	797.72	797.72	679.50
52	2.550	1084.99	803.21	797.90	797.90	797.90	679.98
53	2.600	1084.60	803.73	798.07	798.08	798.08	680.36
54	2.650	1084.18	804.28	798.24	798.25	798.25	680.70
55	2.700	1083.74	804.84	798.41	798.42	798.42	681.04
56	2.750	1083.27	805.45	798.57	798.59	798.59	681.38
57	2.800	1082.78	806.07	798.74	798.76	798.76	681.72
58	2.850	1082.27	806.72	798.91	798.93	798.93	682.05
59	2.900	1081.72	807.39	799.09	799.11	799.11	682.39
60	2.950	1081.16	808.06	799.29	799.31	799.31	682.72
61	3.000	1080.56	808.76	799.50	799.52	799.52	683.04
62	3.050	1079.94	809.48	799.72	799.75	799.75	683.36
63	3.100	1079.28	810.22	799.96	799.98	799.98	683.67
64	3.150	1078.60	810.98	800.20	800.23	800.23	683.98
65	3.200	1077.89	811.76	800.45	800.49	800.49	684.28
66	3.250	1077.15	812.56	800.71	800.75	800.75	684.57
67	3.300	1076.38	813.38	800.97	801.02	801.02	684.86
68	3.350	1075.57	814.23	801.24	801.29	801.29	685.14
69	3.400	1074.74	815.10	801.51	801.57	801.57	685.42
70	3.450	1073.87	815.99	801.79	801.85	801.85	685.70
71	3.500	1072.97	816.90	802.08	802.14	802.14	685.97
72	3.550	1072.04	817.83	802.37	802.44	802.44	686.24
73	3.600	1071.07	818.77	802.67	802.75	802.75	686.51
74	3.650	1070.07	819.73	802.98	803.06	803.06	686.77
75	3.700	1069.04	820.70	803.30	803.38	803.38	687.03
76	3.750	1067.97	821.69	803.62	803.71	803.71	687.29
77	3.800	1066.86	822.70	803.95	804.05	804.04	687.55
78	3.850	1065.72	823.73	804.28	804.39	804.39	687.80
79	3.900	1064.54	824.77	804.63	804.74	804.74	688.06
80	3.950	1063.33	825.84	804.98	805.09	805.09	688.31
81	4.000	1062.08	826.92	805.33	805.46	805.46	688.56
82	4.050	1060.82	827.87	805.70	805.82	805.82	688.81
83	4.100	1059.57	828.56	806.05	806.18	806.18	689.06
84	4.150	1058.34	829.15	806.41	806.56	806.55	689.31
85	4.200	1057.12	829.74	806.78	806.93	806.93	689.56
86	4.250	1055.91	830.27	807.16	807.31	807.31	689.81
87	4.300	1054.72	830.75	807.54	807.70	807.70	690.05
88	4.350	1053.54	831.16	807.92	808.08	808.08	690.30
89	4.400	1052.37	831.49	808.29	808.47	808.47	690.55
90	4.450	1051.22	831.76	808.66	808.84	808.83	690.79
91	4.500	1050.08	831.96	809.00	809.18	809.18	691.02
92	4.550	1048.95	832.13	809.32	809.51	809.51	691.26
93	4.600	1047.84	832.25	809.63	809.81	809.81	691.49
94	4.650	1046.73	832.34	809.94	810.12	810.12	691.71
95	4.700	1045.64	832.39	810.24	810.42	810.42	691.94
96	4.750	1044.56	832.47	810.54	810.72	810.72	692.16
97	4.800	1043.50	832.40	810.84	811.02	811.02	692.38
98	4.850	1042.44	832.36	811.14	811.31	811.31	692.60
99	4.900	1041.40	832.28	811.42	811.60	811.60	692.81
100	4.950	1040.36	832.18	811.71	811.88	811.88	693.02
101	5.000	1039.34	832.06	811.98	812.15	812.15	693.23
102	5.050	1038.33	831.91	812.25	812.42	812.42	693.43
103	5.100	1037.33	831.74	812.52	812.69	812.69	693.64
104	5.150	1036.34	831.56	812.78	812.94	812.94	693.83
105	5.200	1035.36	831.37	813.04	813.20	813.20	694.03
106	5.250	1034.40	831.17	813.29	813.44	813.44	694.22
107	5.300	1033.44	830.96	813.53	813.69	813.69	694.41
108	5.350	1032.49	830.73	813.77	813.92	813.92	694.60
109	5.400	1031.55	830.51	814.00	814.15	814.15	694.78
110	5.450	1030.62	830.27	814.23	814.38	814.38	694.96
111	5.500	1029.71	830.03	814.46	814.60	814.60	695.14
112	5.550	1028.80	829.79	814.68	814.81	814.81	695.31
113	5.600	1027.90	829.55	814.89	815.02	815.02	695.49
114	5.650	1027.01	829.30	815.09	815.22	815.22	695.71
115	5.700	1026.13	829.05	815.29	815.41	815.41	695.96
116	5.750	1025.26	828.80	815.48	815.60	815.60	696.24
117	5.800	1024.40	828.56	815.66	815.78	815.78	696.55
118	5.850	1023.55	828.32	815.84	815.95	815.95	696.91
119	5.900	1022.70	828.08	815.98	816.09	816.09	697.33
120	5.950	1021.87	827.84	816.13	816.24	816.24	697.84
121	6.000	1021.04	827.61	816.27	816.37	816.37	698.45
122	6.050	1020.23	827.38	816.39	816.49	816.49	699.16
123	6.100	1019.42	827.16	816.50	816.60	816.60	699.98
124	6.150	1018.62	826.95	816.60	816.70	816.70	700.93
125	6.200	1017.82	826.74	816.69	816.78	816.78	702.02
126	6.250	1017.04	826.54	816.76	816.85	816.83	703.25
127	6.300	1016.26	826.34	816.81	816.94	816.93	704.60
128	6.350	1015.49	826.16	816.86	816.94	816.94	706.08
129	6.400	1014.73	825.98	816.88	816.96	816.94	707.73
130	6.450	1013.98	825.81	816.89	816.96	816.94	709.52
131	6.500	1013.24	825.64	816.87	816.94	816.92	711.46
132	6.550	1012.50	825.49	816.83	816.90	816.88	713.54
133	6.600	1011.77	825.34	816.78	816.83	816.81	715.77
134	6.650	1011.05	825.19	816.70	816.74	816.72	718.13
135	6.700	1010.33	825.05	816.59	816.63	816.60	720.63
136	6.750	1009.62	824.91	816.46	816.48	816.45	723.34
137	6.800	1008.92	824.78	816.30	816.31	816.27	726.17
138	6.850	1008.23	824.65	816.10	816.10	816.06	729.99

139	6.900	1007.54	824.52	815.87	815.85	815.81	731.79
140	6.950	1006.86	824.38	815.60	815.56	815.51	734.56
141	7.000	1006.19	824.25	815.29	815.23	815.17	737.31
142	7.050	1005.52	824.11	814.92	814.83	814.76	740.06
143	7.100	1004.86	823.97	814.48	814.36	814.28	742.80
144	7.150	1004.21	823.83	813.96	813.81	813.73	745.53
145	7.200	1003.56	823.68	813.43	813.23	813.14	748.25
146	7.250	1002.92	823.52	813.12	812.81	812.71	751.00
147	7.300	1002.28	823.35	812.60	812.34	812.23	753.77
148	7.350	1001.66	823.17	812.43	811.80	811.67	756.55
149	7.400	1001.04	822.98	812.01	811.19	811.04	759.33
150	7.450	1000.42	822.78	811.55	810.50	810.33	762.14
151	7.500	999.81	822.56	811.04	809.74	809.55	765.01
152	7.550	999.21	822.33	810.49	808.89	808.68	767.95
153	7.600	998.61	822.08	809.90	807.98	807.75	770.97
154	7.650	998.02	821.82	809.29	807.07	806.83	773.97
155	7.700	997.43	821.53	808.72	806.26	806.01	776.85
156	7.750	996.85	821.23	808.21	805.59	805.35	779.53
157	7.800	996.27	820.90	807.87	805.48	805.35	781.53
158	7.850	995.70	820.55	807.68	805.45	805.27	783.20
159	7.900	995.14	820.18	807.44	805.35	805.22	784.64
160	7.950	994.58	819.78	807.22	805.28	805.14	785.89
161	8.000	994.03	819.36	806.95	805.14	805.02	786.98
162	8.050	993.48	818.92	806.70	805.01	804.90	787.92
163	8.100	992.94	818.46	806.44	804.85	804.75	788.74
164	8.150	992.40	818.00	806.18	804.68	804.58	789.44
165	8.200	991.87	817.53	805.92	804.50	804.41	790.04
166	8.250	991.35	817.05	805.66	804.31	804.22	790.53
167	8.300	990.83	816.57	805.41	804.12	804.04	790.94
168	8.350	990.31	816.08	805.17	803.93	803.85	791.27
169	8.400	989.80	815.56	804.94	803.76	803.68	791.54
170	8.450	989.29	815.03	804.72	803.58	803.51	791.75
171	8.500	988.78	814.49	804.51	803.41	803.34	791.92
172	8.550	988.30	813.93	804.30	803.24	803.17	792.04
173	8.600	987.81	813.38	804.10	803.07	803.00	792.12
174	8.650	987.32	812.87	803.89	802.89	802.82	792.16
175	8.700	986.84	812.29	803.69	802.71	802.64	792.18
176	8.750	986.37	811.77	803.48	802.53	802.46	792.17
177	8.800	985.90	811.28	803.28	802.34	802.28	792.15
178	8.850	985.43	810.82	803.08	802.16	802.09	792.10
179	8.900	984.97	810.38	802.87	801.96	801.90	792.03
180	8.950	984.51	809.95	802.66	801.77	801.70	791.95
181	9.000	984.06	809.53	802.45	801.56	801.50	791.86
182	9.050	983.61	809.13	802.23	801.35	801.29	791.75
183	9.100	983.17	808.74	802.01	801.14	801.08	791.63
184	9.150	982.73	808.36	801.79	800.93	800.86	791.50
185	9.200	982.29	808.00	801.57	800.71	800.65	791.37
186	9.250	981.86	807.65	801.35	800.49	800.43	791.22
187	9.300	981.43	807.31	801.13	800.27	800.20	791.06
188	9.350	981.01	806.98	800.90	800.05	799.98	790.90
189	9.400	980.59	806.65	800.68	799.82	799.76	790.73
190	9.450	980.18	806.34	800.45	799.60	799.53	790.56
191	9.500	979.77	806.03	800.23	799.37	799.31	790.38
192	9.550	979.36	805.73	800.01	799.15	799.08	790.20
193	9.600	978.96	805.43	799.78	798.92	798.86	790.01
194	9.650	978.56	805.14	799.56	798.69	798.63	789.82
195	9.700	978.17	804.85	799.33	798.47	798.40	789.63
196	9.750	977.78	804.56	799.10	798.24	798.18	789.44
197	9.800	977.39	804.28	798.88	798.01	797.95	789.24
198	9.850	977.01	804.00	798.65	797.78	797.72	789.04
199	9.900	976.63	803.72	798.43	797.56	797.50	788.84
200	9.950	976.26	803.45	798.23	797.41	797.36	788.56
201	10.000	975.89	803.17	798.06	797.26	797.21	788.24
202	10.050	975.52	802.90	797.88	797.12	797.08	787.87
203	10.100	975.15	802.63	797.70	796.96	796.90	787.51
204	10.150	974.79	802.36	797.48	796.72	796.66	787.21
205	10.200	974.43	802.10	797.24	796.48	796.43	786.93
206	10.250	974.08	801.83	797.02	796.25	796.20	786.64
207	10.300	973.73	801.57	796.79	796.02	795.96	786.36
208	10.350	973.38	801.30	796.56	795.79	795.74	786.07
209	10.400	973.04	801.04	796.34	795.57	795.51	785.79
210	10.450	972.70	800.78	796.12	795.35	795.29	785.51
211	10.500	972.36	800.52	795.91	795.13	795.07	785.24
212	10.550	972.03	800.26	795.69	794.92	794.86	784.97
213	10.600	971.70	800.00	795.48	794.70	794.65	784.70
214	10.650	971.37	799.75	795.27	794.49	794.43	784.44
215	10.700	971.05	799.50	795.05	794.27	794.21	784.18
216	10.750	970.73	799.26	794.83	794.04	793.99	783.93
217	10.800	970.41	799.03	794.60	793.82	793.76	783.68
218	10.850	970.09	798.80	794.38	793.59	793.53	783.43
219	10.900	969.78	798.57	794.15	793.36	793.30	783.18
220	10.950	969.47	798.33	793.93	793.13	793.07	782.94
221	11.000	969.17	798.10	793.70	792.90	792.85	782.70
222	11.050	968.87	797.85	793.48	792.67	792.62	782.46
223	11.100	968.57	797.61	793.25	792.44	792.39	782.23
224	11.150	968.27	797.36	793.03	792.21	792.16	782.00
225	11.200	967.98	797.11	792.77	791.95	791.90	781.77
226	11.250	967.69	796.87	792.53	791.72	791.66	781.54
227	11.300	967.40	796.63	792.29	791.48	791.42	781.31
228	11.350	967.11	796.38	792.06	791.24	791.18	781.09
229	11.400	966.83	796.14	791.82	791.01	790.95	780.87
230	11.450	966.55	795.89	791.59	790.77	790.71	780.64
231	11.500	966.27	795.65	791.35	790.53	790.47	780.43
232	11.550	966.00	795.40	791.11	790.29	790.24	780.21
233	11.600	965.73	795.16	790.88	790.06	790.00	779.99

234	11.650	965.46	794.91	790.64	789.82	789.76	779.78
235	11.700	965.19	794.67	790.40	789.57	789.51	779.57
236	11.750	964.93	794.42	790.16	789.33	789.27	779.36
237	11.800	964.66	794.17	789.91	789.08	789.02	779.14
238	11.850	964.41	793.92	789.67	788.84	788.78	778.94
239	11.900	964.15	793.68	789.43	788.59	788.53	778.73
240	11.950	963.90	793.42	789.19	788.34	788.29	778.52
241	12.000	963.64	793.17	788.95	788.10	788.04	778.32
242	12.050	963.40	792.91	788.70	787.85	787.80	778.11
243	12.100	963.15	792.66	788.46	787.61	787.55	777.91
244	12.150	962.90	792.40	788.22	787.36	787.31	777.70
245	12.200	962.66	792.14	787.98	787.12	787.06	777.50
246	12.250	962.42	791.89	787.74	786.88	786.82	777.30
247	12.300	962.19	791.63	787.50	786.63	786.57	777.10
248	12.350	961.95	791.37	787.26	786.39	786.33	776.90
249	12.400	961.72	791.12	787.01	786.14	786.08	776.70
250	12.450	961.49	790.86	786.77	785.90	785.84	776.51
251	12.500	961.26	790.61	786.53	785.65	785.59	776.31
252	12.550	961.03	790.35	786.29	785.41	785.35	776.11
253	12.600	960.81	790.09	786.05	785.16	785.10	775.92
254	12.650	960.59	789.84	785.81	784.92	784.86	775.72
255	12.700	960.37	789.59	785.57	784.67	784.61	775.53
256	12.750	960.15	789.33	785.32	784.42	784.36	775.34
257	12.800	959.94	789.08	785.08	784.18	784.12	775.14
258	12.850	959.73	788.83	784.84	783.93	783.87	774.95
259	12.900	959.51	788.57	784.60	783.69	783.63	774.76
260	12.950	959.31	788.32	784.36	783.44	783.38	774.57
261	13.000	959.10	788.07	784.12	783.20	783.13	774.37
262	13.050	958.89	787.82	783.88	782.95	782.89	774.18
263	13.100	958.69	787.57	783.63	782.71	782.64	773.99
264	13.150	958.49	787.32	783.39	782.46	782.40	773.80
265	13.200	958.29	787.07	783.15	782.22	782.15	773.61
266	13.250	958.10	786.82	782.91	781.97	781.91	773.42
267	13.300	957.90	786.57	782.67	781.73	781.67	773.24
268	13.350	957.71	786.33	782.43	781.48	781.42	773.05
269	13.400	957.52	786.08	782.19	781.24	781.18	772.86
270	13.450	957.33	785.83	781.95	781.00	780.93	772.67
271	13.500	957.14	785.59	781.71	780.75	780.69	772.48
272	13.550	956.96	785.34	781.47	780.51	780.44	772.30
273	13.600	956.77	785.10	781.23	780.26	780.20	772.11
274	13.650	956.59	784.85	780.99	780.02	779.96	771.92
275	13.700	956.41	784.61	780.75	779.78	779.71	771.74
276	13.750	956.23	784.36	780.51	779.54	779.47	771.55
277	13.800	956.06	784.12	780.28	779.29	779.23	771.37
278	13.850	955.88	783.88	780.04	779.05	778.98	771.18
279	13.900	955.71	783.64	779.80	778.81	778.74	771.00
280	13.950	955.54	783.39	779.56	778.57	778.50	770.81
281	14.000	955.37	783.15	779.32	778.32	778.26	770.63
282	14.050	955.20	782.91	779.08	778.08	778.02	770.44
283	14.100	955.03	782.67	778.85	777.84	777.77	770.26
284	14.150	954.87	782.43	778.61	777.60	777.53	770.07
285	14.200	954.70	782.19	778.37	777.36	777.29	769.89
286	14.250	954.54	781.95	778.14	777.12	777.05	769.71
287	14.300	954.38	781.71	777.89	776.87	776.80	769.52
288	14.325	954.30	781.60	775.17	774.97	775.20	768.63
289	14.350	954.26	781.54	775.47	775.21	774.83	768.50
290	14.344	954.24	781.51	775.09	774.92	775.25	768.48
291	14.347	954.23	781.49	774.96	775.04	774.84	768.43
292	14.350	954.22	781.48	775.08	774.88	774.76	768.40
293	14.400	954.06	781.24	774.73	774.66	774.63	768.00
294	14.450	953.90	781.00	774.72	774.64	774.58	767.62
295	14.500	953.75	780.76	774.55	774.44	774.40	767.25
296	14.550	953.59	780.53	774.40	774.30	774.25	766.88
297	14.600	953.44	780.29	774.29	774.12	774.07	766.50
298	14.650	953.29	780.06	774.12	773.89	773.84	766.12
299	14.700	953.14	779.82	773.89	773.59	773.54	765.73
300	14.750	952.99	779.59	773.60	773.22	773.17	765.34
301	14.800	952.84	779.35	773.24	772.77	772.72	764.94
302	14.850	952.69	779.10	772.83	772.28	772.22	764.55
303	14.900	952.54	778.87	772.42	771.79	771.74	764.17
304	14.950	952.40	778.53	772.06	771.39	771.34	763.80
305	15.000	952.25	778.17	771.78	771.08	771.03	763.44
306	15.050	952.11	777.75	771.53	770.84	770.79	763.09
307	15.100	951.97	777.26	771.30	770.62	770.56	762.75
308	15.150	951.83	776.73	771.07	770.38	770.33	762.41
309	15.200	951.69	776.20	770.83	770.15	770.10	762.08
310	15.250	951.55	775.70	770.60	769.92	769.86	761.75
311	15.300	951.41	775.27	770.37	769.69	769.64	761.43
312	15.350	951.27	774.92	770.14	769.46	769.41	761.12
313	15.400	951.14	774.62	769.91	769.23	769.18	760.81
314	15.450	951.00	774.35	769.67	768.99	768.93	760.51
315	15.500	950.87	774.08	769.42	768.73	768.68	760.21
316	15.550	950.74	773.81	769.16	768.47	768.42	759.91
317	15.600	950.61	773.55	768.90	768.20	768.15	759.62
318	15.650	950.48	773.29	768.63	767.92	767.87	759.33
319	15.700	950.35	773.02	768.36	767.65	767.59	759.04
320	15.750	950.22	772.75	768.10	767.37	767.32	758.75
321	15.800	950.09	772.48	767.83	767.09	767.04	758.47
322	15.850	949.97	772.22	767.56	766.82	766.77	758.19
323	15.900	949.84	771.96	767.30	766.55	766.50	757.92
324	15.950	949.72	771.72	767.04	766.29	766.23	757.64
325	16.000	949.59	771.48	766.78	766.03	765.97	757.37
326	16.050	949.47	771.24	766.53	765.77	765.72	757.11
327	16.100	949.35	771.01	766.27	765.51	765.46	756.84
328	16.150	949.23	770.78	766.02	765.26	765.20	756.58

329	16.200	949.11	770.56	765.77	765.00	764.95	756.32
330	16.250	948.99	770.33	765.51	764.74	764.69	756.06
331	16.300	948.87	770.10	765.26	764.49	764.43	755.81
332	16.350	948.76	769.88	765.00	764.23	764.17	755.55
333	16.400	948.64	769.65	764.75	763.97	763.91	755.30
334	16.450	948.52	769.42	764.49	763.71	763.66	755.05
335	16.500	948.41	769.19	764.24	763.46	763.40	754.81
336	16.550	948.30	768.97	763.99	763.20	763.14	754.56
337	16.600	948.18	768.74	763.73	762.94	762.89	754.32
338	16.650	948.07	768.52	763.48	762.69	762.63	754.08
339	16.700	947.96	768.29	763.23	762.43	762.38	753.84
340	16.750	947.85	768.07	762.98	762.18	762.12	753.60
341	16.800	947.74	767.84	762.73	761.93	761.87	753.36
342	16.850	947.63	767.62	762.48	761.67	761.62	753.13
343	16.900	947.53	767.39	762.23	761.42	761.36	752.90
344	16.950	947.42	767.17	761.98	761.17	761.11	752.66
345	17.000	947.31	766.95	761.73	760.92	760.86	752.44
346	17.050	947.21	766.73	761.48	760.66	760.61	752.21
347	17.100	947.10	766.51	761.24	760.41	760.36	751.98
348	17.150	947.00	766.29	760.99	760.16	760.10	751.75
349	17.200	946.90	766.07	760.74	759.91	759.85	751.53
350	17.250	946.80	765.85	760.49	759.66	759.60	751.31
351	17.300	946.69	765.63	760.24	759.41	759.35	751.08
352	17.350	946.59	765.41	760.00	759.16	759.10	750.86
353	17.400	946.49	765.20	759.75	758.91	758.85	750.64
354	17.450	946.40	764.98	759.50	758.66	758.60	750.43
355	17.500	946.30	764.77	759.26	758.41	758.35	750.21
356	17.550	946.20	764.55	759.01	758.16	758.10	749.99
357	17.600	946.10	764.34	758.77	757.91	757.86	749.78
358	17.650	946.01	764.13	758.52	757.67	757.61	749.57
359	17.700	945.91	763.92	758.28	757.42	757.36	749.35
360	17.750	945.82	763.71	758.04	757.18	757.12	749.14
361	17.800	945.72	763.51	757.80	756.93	756.88	748.93
362	17.850	945.63	763.30	757.56	756.69	756.63	748.73
363	17.900	945.54	763.10	757.32	756.45	756.39	748.52
364	17.950	945.44	762.89	757.08	756.21	756.15	748.31
365	18.000	945.35	762.69	756.84	755.97	755.91	748.11
366	18.050	945.26	762.49	756.60	755.72	755.67	747.90
367	18.100	945.17	762.30	756.36	755.48	755.43	747.70
368	18.150	945.08	762.10	756.13	755.24	755.19	747.50
369	18.200	944.99	761.91	755.89	755.01	754.95	747.30
370	18.250	944.91	761.71	755.66	754.77	754.71	747.10
371	18.300	944.82	761.52	755.42	754.53	754.47	746.90
372	18.350	944.73	761.33	755.19	754.29	754.23	746.70
373	18.400	944.65	761.15	754.95	754.06	754.00	746.50
374	18.450	944.56	760.96	754.72	753.82	753.76	746.30
375	18.500	944.48	760.78	754.48	753.58	753.53	746.11
376	18.550	944.39	760.59	754.25	753.35	753.29	745.91
377	18.600	944.31	760.41	754.02	753.12	753.06	745.72
378	18.650	944.23	760.24	753.79	752.88	752.82	745.52
379	18.700	944.14	760.06	753.56	752.65	752.59	745.33
380	18.750	944.06	759.88	753.33	752.42	752.36	745.14
381	18.800	943.98	759.71	753.10	752.18	752.13	744.94
382	18.850	943.90	759.54	752.87	751.95	751.89	744.75
383	18.900	943.82	759.37	752.64	751.72	751.66	744.56
384	18.950	943.74	759.20	752.41	751.49	751.43	744.37
385	19.000	943.66	759.04	752.19	751.26	751.20	744.18
386	19.050	943.58	758.88	751.96	751.03	750.98	743.99
387	19.100	943.51	758.72	751.73	750.81	750.75	743.80
388	19.150	943.43	758.56	751.51	750.58	750.52	743.62
389	19.200	943.35	758.40	751.29	750.35	750.29	743.43
390	19.250	943.28	758.25	751.06	750.12	750.07	743.24
391	19.300	943.20	758.09	750.83	749.90	749.84	743.05
392	19.350	943.12	757.94	750.61	749.67	749.62	742.87
393	19.400	943.05	757.79	750.39	749.45	749.39	742.68
394	19.450	942.98	757.65	750.17	749.22	749.17	742.50
395	19.500	942.90	757.50	749.94	749.00	748.94	742.31
396	19.550	942.83	757.36	749.72	748.78	748.72	742.13
397	19.600	942.76	757.22	749.50	748.56	748.50	741.94
398	19.650	942.69	757.08	749.28	748.33	748.28	741.76
399	19.700	942.61	756.95	749.06	748.11	748.05	741.58
400	19.750	942.54	756.81	748.84	747.89	747.83	741.39
401	19.800	942.47	756.68	748.63	747.67	747.61	741.21
402	19.850	942.40	756.55	748.41	747.45	747.39	741.03
403	19.900	942.33	756.43	748.19	747.23	747.18	740.85
404	19.950	942.26	756.30	747.97	747.02	746.96	740.67
405	20.000	942.20	756.18	747.76	746.80	746.74	740.49
406	20.050	942.13	756.06	747.54	746.58	746.52	740.31
407	20.100	942.06	755.94	747.33	746.36	746.31	740.13
408	20.150	941.99	755.83	747.11	746.15	746.09	739.95
409	20.200	941.93	755.71	746.90	745.93	745.88	739.77
410	20.250	941.86	755.60	746.69	745.72	745.66	739.59
411	20.300	941.80	755.49	746.47	745.50	745.45	739.41
412	20.350	941.73	755.39	746.26	745.29	745.23	739.23
413	20.400	941.67	755.28	746.05	745.08	745.02	739.05
414	20.450	941.60	755.18	745.84	744.86	744.81	738.88
415	20.500	941.54	755.08	745.63	744.65	744.59	738.70
416	20.550	941.47	754.98	745.42	744.44	744.38	738.52
417	20.600	941.41	754.89	745.21	744.23	744.17	738.35
418	20.650	941.35	754.79	745.00	744.02	743.96	738.17
419	20.700	941.29	754.70	744.79	743.81	743.75	737.99
420	20.750	941.23	754.61	744.58	743.60	743.54	737.82
421	20.800	941.16	754.52	744.37	743.39	743.34	737.65
422	20.850	941.10	754.44	744.17	743.18	743.13	737.47
423	20.900	941.04	754.35	743.96	742.98	742.92	737.30

424	20.950	940.98	754.27	743.75	742.77	742.71	737.12
425	21.000	940.92	754.19	743.55	742.56	742.51	736.95
426	21.050	940.86	754.11	743.34	742.36	742.30	736.78
427	21.100	940.81	754.04	743.14	742.18	742.10	736.60
428	21.150	940.75	753.96	742.93	741.95	741.89	736.43
429	21.200	940.69	753.89	742.73	741.74	741.69	736.26
430	21.250	940.63	753.82	742.53	741.54	741.48	736.09
431	21.300	940.58	753.75	742.32	741.33	741.28	735.92
432	21.350	940.52	753.68	742.12	741.13	741.08	735.75
433	21.400	940.46	753.62	741.92	740.93	740.88	735.58
434	21.450	940.41	753.55	741.72	740.73	740.67	735.41
435	21.500	940.35	753.49	741.52	740.53	740.47	735.24
436	21.550	940.30	753.43	741.32	740.33	740.27	735.07
437	21.600	940.24	753.37	741.12	740.13	740.07	734.90
438	21.650	940.19	753.31	740.92	739.93	739.87	734.73
439	21.700	940.13	753.25	740.72	739.73	739.67	734.56
440	21.750	940.08	753.20	740.52	739.53	739.48	734.39
441	21.800	940.03	753.14	740.32	739.33	739.28	734.23
442	21.850	939.97	753.09	740.13	739.13	739.08	734.06
443	21.900	939.92	753.04	739.93	738.94	738.88	733.89
444	21.950	939.87	752.99	739.73	738.74	738.68	733.73
445	22.000	939.82	752.94	739.54	738.54	738.49	733.56
446	22.050	939.76	752.89	739.34	738.35	738.29	733.39
447	22.100	939.71	752.84	739.14	738.15	738.09	733.23
448	22.150	939.66	752.79	738.95	737.95	737.90	733.06
449	22.200	939.61	752.75	738.75	737.76	737.70	732.89
450	22.250	939.56	752.70	738.56	737.56	737.51	732.73
451	22.300	939.51	752.66	738.37	737.37	737.31	732.56
452	22.350	939.46	752.61	738.17	737.18	737.12	732.40
453	22.400	939.41	752.57	737.98	736.98	736.93	732.23
454	22.450	939.37	752.53	737.78	736.79	736.73	732.07
455	22.500	939.32	752.49	737.59	736.59	736.54	731.90
456	22.550	939.27	752.45	737.40	736.40	736.35	731.74
457	22.600	939.22	752.41	737.21	736.21	736.15	731.57
458	22.650	939.17	752.37	737.01	736.02	735.96	731.41
459	22.700	939.13	752.33	736.82	735.82	735.77	731.24
460	22.750	939.08	752.30	736.63	735.63	735.58	731.08
461	22.800	939.03	752.26	736.44	735.44	735.38	730.92
462	22.850	938.99	752.22	736.25	735.25	735.19	730.75
463	22.900	938.94	752.19	736.06	735.06	735.00	730.59
464	22.950	938.89	752.15	735.87	734.87	734.81	730.42
465	23.000	938.85	752.12	735.67	734.68	734.62	730.26
466	23.050	938.80	752.09	735.48	734.49	734.43	730.10
467	23.100	938.76	752.05	735.29	734.30	734.24	729.93
468	23.150	938.72	752.02	735.10	734.11	734.05	729.77
469	23.200	938.67	751.99	734.91	733.92	733.86	729.61
470	23.250	938.63	751.96	734.72	733.73	733.67	729.44
471	23.300	938.58	751.92	734.53	733.54	733.48	729.28
472	23.350	938.54	751.89	734.34	733.35	733.29	729.11
473	23.400	938.50	751.86	734.15	733.16	733.10	728.95
474	23.450	938.46	751.83	733.96	732.97	732.91	728.79
475	23.500	938.41	751.80	733.77	732.77	732.72	728.62
476	23.550	938.37	751.77	733.57	732.58	732.53	728.46
477	23.600	938.33	751.74	733.38	732.39	732.33	728.29
478	23.650	938.29	751.72	733.19	732.20	732.14	728.13
479	23.700	938.25	751.69	733.00	732.01	731.95	727.96
480	23.750	938.21	751.66	732.80	731.82	731.76	727.79
481	23.800	938.16	751.63	732.61	731.62	731.56	727.63
482	23.850	938.12	751.60	732.41	731.43	731.37	727.46
483	23.900	938.08	751.58	732.22	731.24	731.18	727.29
484	23.950	938.04	751.55	732.02	731.04	730.98	727.13
485	24.000	938.00	751.52	731.82	730.84	730.78	726.96
486	24.050	937.96	751.50	731.62	730.65	730.59	726.79
487	24.100	937.93	751.47	731.42	730.45	730.39	726.62
488	24.150	937.89	751.45	731.22	730.25	730.19	726.45
489	24.200	937.85	751.42	731.01	730.05	729.99	726.28
490	24.250	937.81	751.39	730.81	729.85	729.79	726.11
491	24.300	937.77	751.37	730.60	729.64	729.58	725.93
492	24.350	937.73	751.34	730.39	729.44	729.38	725.76
493	24.400	937.70	751.32	730.18	729.23	729.17	725.60
494	24.450	937.66	751.30	729.97	729.02	728.96	725.41
495	24.500	937.62	751.27	729.76	728.81	728.75	725.23
496	24.550	937.58	751.25	729.53	728.60	728.53	725.05
497	24.600	937.55	751.22	729.31	728.38	728.32	724.87
498	24.650	937.51	751.20	729.09	728.17	728.10	724.69
499	24.700	937.48	751.18	728.87	727.95	727.89	724.51
500	24.750	937.44	751.15	728.65	727.73	727.67	724.32
501	24.800	937.40	751.13	728.42	727.51	727.45	724.14
502	24.850	937.37	751.11	728.19	727.29	727.23	723.95
503	24.900	937.33	751.09	727.97	727.07	727.00	723.76
504	24.950	937.30	751.06	727.74	726.84	726.78	723.57
505	25.000	937.26	751.04	727.51	726.61	726.55	723.37
506	25.050	937.23	751.02	727.27	726.39	726.32	723.18
507	25.100	937.19	751.00	727.04	726.16	726.10	722.98
508	25.150	937.16	750.98	726.81	725.94	725.87	722.77
509	25.200	937.13	750.96	726.58	725.71	725.65	722.56
510	25.250	937.09	750.93	726.35	725.48	725.42	722.35
511	25.300	937.06	750.91	726.11	725.26	725.19	722.14
512	25.350	937.03	750.89	725.88	725.02	724.96	721.92
513	25.400	936.99	750.87	725.64	724.79	724.73	721.71
514	25.450	936.96	750.85	725.40	724.56	724.49	721.48
515	25.500	936.93	750.83	725.16	724.32	724.26	721.26
516	25.550	936.89	750.81	724.92	724.08	724.02	721.04
517	25.600	936.86	750.79	724.68	723.85	723.78	720.81
518	25.650	936.83	750.77	724.44	723.61	723.54	720.58

519	25.700	936.80	750.75	724.19	723.37	723.30	720.35
520	25.750	936.77	750.73	723.95	723.13	723.06	720.12
521	25.800	936.74	750.71	723.71	722.90	722.83	719.89
522	25.850	936.70	750.69	723.47	722.66	722.59	719.66
523	25.900	936.67	750.67	723.23	722.42	722.35	719.43
524	25.950	936.64	750.65	722.99	722.18	722.11	719.20
525	26.000	936.61	750.63	722.75	721.94	721.87	718.97
526	26.050	936.58	750.61	722.50	721.70	721.63	718.74
527	26.100	936.55	750.59	722.26	721.46	721.39	718.51
528	26.150	936.52	750.58	722.02	721.22	721.15	718.27
529	26.200	936.49	750.56	721.77	720.98	720.91	718.04
530	26.250	936.46	750.54	721.53	720.74	720.67	717.80
531	26.300	936.43	750.52	721.28	720.50	720.43	717.56
532	26.350	936.40	750.50	721.04	720.26	720.19	717.33
533	26.400	936.37	750.48	720.80	720.02	719.95	717.09
534	26.450	936.35	750.47	720.55	719.78	719.71	716.84
535	26.500	936.32	750.45	720.31	719.54	719.47	716.60
536	26.550	936.29	750.43	720.07	719.30	719.23	716.36
537	26.600	936.26	750.41	719.83	719.06	718.99	716.11
538	26.650	936.23	750.40	719.58	718.82	718.75	715.87
539	26.700	936.20	750.38	719.34	718.58	718.51	715.62
540	26.750	936.18	750.36	719.10	718.34	718.27	715.37
541	26.800	936.15	750.34	718.86	718.10	718.03	715.12
542	26.850	936.12	750.33	718.62	717.87	717.79	714.87
543	26.900	936.09	750.31	718.38	717.63	717.55	714.62
544	26.950	936.07	750.29	718.14	717.39	717.32	714.36
545	27.000	936.04	750.28	717.90	717.15	717.08	714.11
546	27.050	936.01	750.26	717.66	716.92	716.84	713.85
547	27.100	935.99	750.24	717.42	716.68	716.61	713.59
548	27.150	935.96	750.23	717.18	716.45	716.37	713.33
549	27.200	935.93	750.21	716.95	716.21	716.14	713.07
550	27.250	935.91	750.19	716.71	715.98	715.90	712.81
551	27.300	935.88	750.18	716.47	715.74	715.67	712.55
552	27.350	935.86	750.16	716.24	715.51	715.44	712.28
553	27.400	935.83	750.15	716.00	715.28	715.21	712.02
554	27.450	935.81	750.13	715.77	715.05	714.97	711.75
555	27.500	935.78	750.11	715.53	714.82	714.74	711.48
556	27.550	935.76	750.10	715.30	714.59	714.51	711.21
557	27.600	935.73	750.08	715.07	714.36	714.28	710.94
558	27.650	935.71	750.07	714.84	714.13	714.05	710.66
559	27.700	935.68	750.05	714.61	713.90	713.82	710.39
560	27.750	935.66	750.04	714.38	713.67	713.59	710.12
561	27.800	935.63	750.02	714.15	713.44	713.37	709.84
562	27.850	935.61	750.01	713.92	713.22	713.14	709.56
563	27.900	935.58	749.99	713.69	712.99	712.91	709.28
564	27.950	935.56	749.98	713.46	712.77	712.69	709.00
565	28.000	935.54	749.96	713.24	712.54	712.47	708.72
566	28.050	935.51	749.95	713.01	712.32	712.24	708.44
567	28.100	935.49	749.93	712.79	712.10	712.02	708.16
568	28.150	935.47	749.92	712.57	711.88	711.80	707.88
569	28.200	935.44	749.90	712.34	711.66	711.58	707.59
570	28.250	935.42	749.89	712.12	711.44	711.36	707.31
571	28.300	935.40	749.88	711.90	711.22	711.15	707.02
572	28.350	935.37	749.86	711.68	711.00	710.93	706.74
573	28.400	935.35	749.85	711.47	710.79	710.71	706.46
574	28.450	935.33	749.83	711.25	710.57	710.50	706.17
575	28.500	935.31	749.82	711.03	710.36	710.28	705.89
576	28.550	935.28	749.81	710.82	710.15	710.07	705.60
577	28.600	935.26	749.79	710.60	709.93	709.86	705.31
578	28.650	935.24	749.78	710.39	709.72	709.64	705.03
579	28.700	935.22	749.76	710.18	709.51	709.43	704.75
580	28.750	935.20	749.75	709.97	709.30	709.23	704.46
581	28.800	935.18	749.74	709.76	709.10	709.02	704.18
582	28.850	935.15	749.72	709.55	708.89	708.81	703.90
583	28.900	935.13	749.71	709.34	708.69	708.61	703.62
584	28.950	935.11	749.70	709.14	708.48	708.40	703.35
585	29.000	935.09	749.68	708.93	708.28	708.20	703.07
586	29.050	935.07	749.67	708.73	708.08	708.00	702.80
587	29.100	935.05	749.66	708.53	707.88	707.80	702.53
588	29.150	935.03	749.65	708.32	707.68	707.60	702.26
589	29.200	935.01	749.63	708.12	707.48	707.40	702.00
590	29.250	934.99	749.62	707.92	707.28	707.20	701.74
591	29.300	934.97	749.61	707.73	707.09	707.01	701.48
592	29.350	934.95	749.59	707.53	706.89	706.81	701.23
593	29.400	934.93	749.58	707.34	706.70	706.62	700.98
594	29.450	934.91	749.57	707.14	706.50	706.42	700.73
595	29.500	934.89	749.56	706.95	706.32	706.24	700.48
596	29.550	934.87	749.54	706.76	706.12	706.04	700.24
597	29.600	934.85	749.53	706.57	705.94	705.86	700.00
598	29.650	934.83	749.52	706.38	705.75	705.67	699.76
599	29.700	934.81	749.51	706.19	705.56	705.48	699.53
600	29.750	934.79	749.50	706.00	705.38	705.30	699.29
601	29.800	934.77	749.48	705.81	705.19	705.11	699.06
602	29.850	934.76	749.47	705.63	705.01	704.93	698.83
603	29.900	934.74	749.46	705.45	704.83	704.75	698.60
604	29.950	934.72	749.45	705.27	704.65	704.57	698.38
605	30.000	934.70	749.44	705.09	704.47	704.39	698.15
606	30.050	934.68	749.43	704.91	704.30	704.22	697.93
607	30.100	934.66	749.41	704.73	704.12	704.04	697.71
608	30.150	934.64	749.40	704.55	703.95	703.86	697.49
609	30.200	934.63	749.39	704.38	703.77	703.69	697.27
610	30.250	934.61	749.38	704.20	703.60	703.52	697.05
611	30.300	934.59	749.37	704.03	703.43	703.35	696.84
612	30.350	934.57	749.36	703.86	703.26	703.18	696.63
613	30.400	934.56	749.35	703.69	703.09	703.01	696.41

614	30.450	934.54	749.33	703.52	702.92	702.84	696.20
615	30.500	934.52	749.32	703.35	702.76	702.68	695.99
616	30.550	934.50	749.31	703.18	702.59	702.51	695.78
617	30.600	934.49	749.30	703.02	702.43	702.35	695.58
618	30.650	934.47	749.29	702.86	702.27	702.19	695.37
619	30.700	934.45	749.28	702.69	702.11	702.03	695.17
620	30.750	934.44	749.27	702.53	701.95	701.87	694.96
621	30.800	934.42	749.26	702.37	701.79	701.71	694.76
622	30.850	934.40	749.25	702.21	701.63	701.55	694.56
623	30.900	934.39	749.24	702.05	701.48	701.40	694.36
624	30.950	934.37	749.23	701.90	701.32	701.24	694.16
625	31.000	934.35	749.22	701.74	701.17	701.09	693.96
626	31.050	934.34	749.21	701.59	701.02	700.94	693.77
627	31.100	934.32	749.20	701.44	700.87	700.79	693.57
628	31.150	934.30	749.19	701.29	700.72	700.64	693.38
629	31.200	934.29	749.18	701.14	700.57	700.49	693.18
630	31.250	934.27	749.17	700.99	700.42	700.34	692.99
631	31.300	934.26	749.16	700.84	700.28	700.20	692.80
632	31.350	934.24	749.15	700.69	700.14	700.05	692.62
633	31.400	934.23	749.14	700.55	699.99	699.91	692.43
634	31.450	934.21	749.13	700.40	699.85	699.77	692.25
635	31.500	934.19	749.12	700.26	699.71	699.63	692.06
636	31.550	934.18	749.11	700.12	699.57	699.49	691.88
637	31.600	934.16	749.10	699.98	699.43	699.35	691.70
638	31.650	934.15	749.09	699.84	699.30	699.21	691.52
639	31.700	934.13	749.08	699.70	699.16	699.08	691.34
640	31.750	934.12	749.07	699.57	699.03	698.94	691.17
641	31.800	934.10	749.06	699.43	698.89	698.81	690.99
642	31.850	934.09	749.05	699.30	698.76	698.68	690.82
643	31.900	934.07	749.04	699.17	698.63	698.55	690.64
644	31.950	934.06	749.03	699.03	698.50	698.42	690.47
645	32.000	934.05	749.02	698.90	698.37	698.29	690.30
646	32.050	934.03	749.01	698.77	698.24	698.16	690.13
647	32.100	934.02	749.00	698.65	698.12	698.04	689.96
648	32.150	934.00	748.99	698.52	697.99	697.91	689.80
649	32.200	933.99	748.98	698.39	697.87	697.79	689.63
650	32.250	933.97	748.97	698.27	697.75	697.67	689.47
651	32.300	933.96	748.97	698.15	697.63	697.54	689.31
652	32.350	933.95	748.96	698.02	697.50	697.42	689.15
653	32.400	933.93	748.95	697.90	697.39	697.31	688.99
654	32.450	933.92	748.94	697.78	697.27	697.19	688.83
655	32.500	933.91	748.93	697.66	697.15	697.07	688.68
656	32.550	933.89	748.92	697.55	697.04	696.96	688.53
657	32.600	933.88	748.91	697.43	696.92	696.84	688.38
658	32.650	933.86	748.90	697.31	696.81	696.73	688.23
659	32.700	933.85	748.90	697.20	696.69	696.61	688.08
660	32.750	933.84	748.89	697.09	696.58	696.50	687.93
661	32.800	933.83	748.88	696.97	696.47	696.39	687.78
662	32.850	933.81	748.87	696.86	696.36	696.28	687.64
663	32.900	933.80	748.86	696.75	696.26	696.18	687.50
664	32.950	933.79	748.85	696.64	696.15	696.07	687.36
665	33.000	933.77	748.85	696.54	696.04	695.96	687.22
666	33.050	933.76	748.84	696.43	695.94	695.86	687.08
667	33.100	933.75	748.83	696.32	695.83	695.76	686.95
668	33.150	933.74	748.82	696.22	695.73	695.65	686.81
669	33.200	933.72	748.81	696.12	695.63	695.55	686.68
670	33.250	933.71	748.80	696.01	695.53	695.45	686.55
671	33.300	933.70	748.80	695.91	695.43	695.35	686.42
672	33.350	933.69	748.79	695.81	695.33	695.25	686.29
673	33.400	933.67	748.78	695.71	695.23	695.15	686.16
674	33.450	933.66	748.77	695.61	695.14	695.06	686.03
675	33.500	933.65	748.76	695.52	695.04	694.96	685.91
676	33.550	933.64	748.76	695.42	694.95	694.87	685.79
677	33.600	933.63	748.75	695.32	694.85	694.77	685.67
678	33.650	933.61	748.74	695.23	694.76	694.68	685.55
679	33.700	933.60	748.73	695.14	694.67	694.59	685.43
680	33.750	933.59	748.73	695.04	694.58	694.50	685.31
681	33.800	933.58	748.72	694.95	694.49	694.41	685.20
682	33.850	933.57	748.71	694.86	694.40	694.32	685.08
683	33.900	933.56	748.70	694.77	694.31	694.23	684.97
684	33.950	933.54	748.70	694.68	694.22	694.15	684.86
685	34.000	933.53	748.69	694.59	694.14	694.06	684.75
686	34.050	933.52	748.68	694.51	694.05	693.97	684.64
687	34.100	933.51	748.67	694.42	693.97	693.89	684.53
688	34.150	933.50	748.67	694.34	693.88	693.81	684.42
689	34.200	933.49	748.66	694.25	693.80	693.72	684.32
690	34.250	933.48	748.65	694.17	693.72	693.64	684.22
691	34.300	933.47	748.65	694.08	693.64	693.56	684.11
692	34.350	933.45	748.64	694.00	693.56	693.48	684.01
693	34.400	933.44	748.63	693.92	693.48	693.40	683.91
694	34.450	933.43	748.62	693.84	693.40	693.33	683.81
695	34.500	933.42	748.62	693.76	693.32	693.25	683.72
696	34.550	933.41	748.61	693.68	693.25	693.17	683.62
697	34.600	933.40	748.60	693.61	693.17	693.10	683.52
698	34.650	933.39	748.60	693.53	693.10	693.02	683.43
699	34.700	933.38	748.59	693.45	693.02	692.95	683.34
700	34.750	933.37	748.58	693.38	692.95	692.87	683.25
701	34.800	933.36	748.58	693.30	692.88	692.80	683.16
702	34.850	933.35	748.57	693.23	692.80	692.73	683.07
703	34.900	933.34	748.56	693.16	692.73	692.66	682.98
704	34.950	933.33	748.56	693.09	692.66	692.59	682.89
705	35.000	933.32	748.55	693.02	692.59	692.52	682.80
706	35.050	933.31	748.54	692.94	692.52	692.45	682.72
707	35.100	933.30	748.54	692.88	692.46	692.38	682.64
708	35.150	933.29	748.53	692.81	692.39	692.31	682.55

709	35.200	933.28	748.52	692.74	692.32	692.25	682.47
710	35.250	933.27	748.52	692.67	692.26	692.18	682.39
711	35.300	933.26	748.51	692.60	692.19	692.12	682.31
712	35.350	933.25	748.50	692.54	692.13	692.05	682.23
713	35.400	933.24	748.50	692.47	692.06	691.99	682.15
714	35.450	933.23	748.49	692.41	692.00	691.93	682.08
715	35.500	933.22	748.49	692.34	691.94	691.86	682.00
716	35.550	933.21	748.48	692.28	691.88	691.80	681.92
717	35.600	933.20	748.47	692.22	691.81	691.74	681.85
718	35.650	933.19	748.47	692.15	691.75	691.68	681.78
719	35.700	933.18	748.46	692.09	691.69	691.62	681.71
720	35.750	933.17	748.46	692.03	691.63	691.56	681.63
721	35.800	933.16	748.45	691.97	691.58	691.50	681.56
722	35.850	933.16	748.44	691.91	691.52	691.45	681.49
723	35.900	933.15	748.44	691.85	691.46	691.39	681.43
724	35.950	933.14	748.43	691.80	691.40	691.33	681.36
725	36.000	933.13	748.43	691.74	691.35	691.28	681.29
726	36.050	933.12	748.42	691.68	691.29	691.22	681.22
727	36.100	933.11	748.41	691.62	691.24	691.16	681.16
728	36.150	933.10	748.41	691.57	691.18	691.11	681.09
729	36.200	933.09	748.40	691.51	691.13	691.06	681.03
730	36.250	933.08	748.40	691.46	691.08	691.00	680.97
731	36.300	933.08	748.39	691.40	691.02	690.95	680.91
732	36.350	933.07	748.39	691.35	690.97	690.90	680.84
733	36.400	933.06	748.38	691.30	690.92	690.85	680.78
734	36.450	933.05	748.37	691.25	690.87	690.80	680.72
735	36.500	933.04	748.37	691.19	690.82	690.75	680.66
736	36.550	933.03	748.36	691.14	690.77	690.70	680.60
737	36.600	933.03	748.36	691.09	690.72	690.65	680.55
738	36.650	933.02	748.35	691.04	690.67	690.60	680.49
739	36.700	933.01	748.35	690.99	690.62	690.55	680.43
740	36.750	933.00	748.34	690.94	690.57	690.50	680.38
741	36.800	932.99	748.34	690.89	690.53	690.45	680.32
742	36.850	932.98	748.33	690.84	690.48	690.41	680.27
743	36.900	932.98	748.33	690.80	690.43	690.36	680.21
744	36.950	932.97	748.32	690.75	690.39	690.32	680.16
745	37.000	932.96	748.31	690.70	690.34	690.27	680.11
746	37.050	932.95	748.31	690.66	690.30	690.22	680.05
747	37.100	932.94	748.30	690.61	690.25	690.18	680.00
748	37.150	932.94	748.30	690.56	690.21	690.14	679.95
749	37.200	932.93	748.29	690.52	690.16	690.09	679.90
750	37.250	932.92	748.29	690.47	690.12	690.05	679.85
751	37.300	932.91	748.28	690.43	690.08	690.01	679.80
752	37.350	932.91	748.28	690.39	690.03	689.96	679.75
753	37.400	932.90	748.27	690.34	689.99	689.92	679.70
754	37.450	932.89	748.27	690.30	689.95	689.88	679.66
755	37.500	932.88	748.26	690.26	689.91	689.84	679.61
756	37.550	932.88	748.26	690.22	689.87	689.80	679.56
757	37.600	932.87	748.25	690.17	689.83	689.76	679.51
758	37.650	932.86	748.25	690.13	689.79	689.72	679.47
759	37.700	932.85	748.24	690.09	689.75	689.68	679.42
760	37.750	932.85	748.24	690.05	689.71	689.64	679.38
761	37.800	932.84	748.23	690.01	689.67	689.60	679.33
762	37.850	932.83	748.23	689.97	689.63	689.56	679.29
763	37.900	932.82	748.23	689.93	689.59	689.53	679.25
764	37.950	932.82	748.22	689.89	689.56	689.49	679.20
765	38.000	932.81	748.22	689.86	689.52	689.45	679.16
766	38.050	932.80	748.21	689.82	689.48	689.41	679.12
767	38.100	932.80	748.21	689.78	689.45	689.38	679.07
768	38.150	932.79	748.20	689.74	689.41	689.34	679.03
769	38.200	932.78	748.20	689.70	689.37	689.30	678.99
770	38.250	932.78	748.19	689.67	689.34	689.27	678.95
771	38.300	932.77	748.19	689.63	689.30	689.23	678.91
772	38.350	932.76	748.18	689.60	689.27	689.20	678.87
773	38.400	932.76	748.18	689.56	689.23	689.16	678.83
774	38.450	932.75	748.17	689.52	689.20	689.13	678.79
775	38.500	932.74	748.17	689.49	689.16	689.10	678.75
776	38.550	932.74	748.17	689.45	689.13	689.06	678.71
777	38.600	932.73	748.16	689.42	689.10	689.03	678.68
778	38.650	932.72	748.16	689.39	689.06	689.00	678.64
779	38.700	932.72	748.15	689.35	689.03	688.96	678.60
780	38.750	932.71	748.15	689.32	689.00	688.93	678.56
781	38.800	932.70	748.14	689.29	688.97	688.90	678.53
782	38.850	932.70	748.14	689.25	688.94	688.87	678.49
783	38.900	932.69	748.14	689.22	688.90	688.84	678.45
784	38.950	932.68	748.13	689.19	688.87	688.81	678.42
785	39.000	932.68	748.13	689.16	688.84	688.77	678.38
786	39.050	932.67	748.12	689.12	688.81	688.74	678.35
787	39.100	932.66	748.12	689.09	688.78	688.71	678.31
788	39.150	932.66	748.11	689.06	688.75	688.68	678.28
789	39.200	932.65	748.11	689.03	688.72	688.65	678.24
790	39.250	932.65	748.11	689.00	688.69	688.62	678.21
791	39.300	932.64	748.10	688.97	688.66	688.59	678.17
792	39.350	932.63	748.10	688.94	688.63	688.57	678.14
793	39.400	932.63	748.09	688.91	688.60	688.54	678.11
794	39.450	932.62	748.09	688.88	688.58	688.51	678.07
795	39.500	932.62	748.09	688.85	688.55	688.48	678.04
796	39.550	932.61	748.08	688.82	688.52	688.45	678.01
797	39.600	932.60	748.08	688.79	688.49	688.42	677.98
798	39.650	932.60	748.07	688.76	688.46	688.40	677.94
799	39.700	932.59	748.07	688.73	688.44	688.37	677.91
800	39.750	932.59	748.07	688.71	688.41	688.34	677.88
801	39.800	932.58	748.06	688.68	688.38	688.32	677.85
802	39.850	932.58	748.06	688.65	688.36	688.29	677.82
803	39.900	932.57	748.06	688.62	688.33	688.26	677.79

804	39.950	932.56	748.05	688.60	688.30	688.24	677.16
805	40.000	932.56	748.05	688.57	688.28	688.21	677.13
806	40.050	932.55	748.04	688.54	688.25	688.18	677.10
807	40.100	932.55	748.04	688.52	688.22	688.16	677.07
808	40.150	932.54	748.04	688.49	688.20	688.13	677.04
809	40.200	932.54	748.03	688.46	688.17	688.11	677.01
810	40.250	932.53	748.03	688.44	688.15	688.08	676.98
811	40.300	932.53	748.03	688.41	688.12	688.06	676.95
812	40.350	932.52	748.02	688.39	688.10	688.03	676.92
813	40.400	932.52	748.02	688.36	688.08	688.01	676.89
814	40.450	932.51	748.02	688.34	688.05	687.99	676.86
815	40.500	932.50	748.01	688.31	688.03	687.96	676.83
816	40.550	932.50	748.01	688.29	688.00	687.94	676.80
817	40.600	932.49	748.01	688.26	687.98	687.92	676.77
818	40.650	932.49	748.00	688.24	687.96	687.89	676.74
819	40.700	932.48	748.00	688.21	687.93	687.87	676.71
820	40.750	932.48	747.99	688.19	687.91	687.85	676.68
821	40.800	932.47	747.99	688.17	687.89	687.82	676.65
822	40.850	932.47	747.99	688.14	687.87	687.80	676.62
823	40.900	932.46	747.98	688.12	687.84	687.78	676.59
824	40.950	932.46	747.98	688.10	687.82	687.76	676.56
825	41.000	932.45	747.98	688.07	687.80	687.73	676.53
826	41.050	932.45	747.97	688.05	687.78	687.71	676.50
827	41.100	932.44	747.97	688.03	687.75	687.69	676.47
828	41.150	932.44	747.97	688.01	687.73	687.67	676.44
829	41.200	932.43	747.96	687.98	687.71	687.65	676.41
830	41.250	932.43	747.96	687.96	687.69	687.63	676.38
831	41.300	932.42	747.96	687.94	687.67	687.61	676.35
832	41.350	932.42	747.95	687.92	687.65	687.58	676.32
833	41.400	932.41	747.95	687.90	687.63	687.56	676.29
834	41.450	932.41	747.95	687.87	687.61	687.54	676.26
835	41.500	932.40	747.95	687.85	687.59	687.52	676.23
836	41.550	932.40	747.94	687.83	687.57	687.50	676.20
837	41.600	932.40	747.94	687.81	687.55	687.48	676.17
838	41.650	932.39	747.94	687.79	687.53	687.46	676.14
839	41.700	932.39	747.93	687.77	687.51	687.44	676.11
840	41.750	932.38	747.93	687.75	687.49	687.42	676.08
841	41.800	932.38	747.93	687.73	687.47	687.40	676.05
842	41.850	932.37	747.92	687.71	687.45	687.38	676.02
843	41.900	932.37	747.92	687.69	687.43	687.36	675.99
844	41.950	932.36	747.92	687.67	687.41	687.35	675.96
845	42.000	932.36	747.91	687.65	687.39	687.33	675.93
846	42.050	932.35	747.91	687.63	687.37	687.31	675.90
847	42.100	932.35	747.91	687.61	687.35	687.29	675.87
848	42.150	932.35	747.91	687.59	687.33	687.27	675.84
849	42.200	932.34	747.90	687.57	687.32	687.25	675.81
850	42.250	932.34	747.90	687.55	687.30	687.23	675.78
851	42.300	932.33	747.90	687.53	687.28	687.22	675.75
852	42.350	932.33	747.89	687.52	687.26	687.20	675.72
853	42.400	932.32	747.89	687.50	687.24	687.18	675.69
854	42.450	932.32	747.89	687.48	687.23	687.16	675.66
855	42.500	932.32	747.89	687.46	687.21	687.14	675.63
856	42.550	932.31	747.88	687.44	687.19	687.13	675.60
857	42.600	932.31	747.88	687.42	687.17	687.11	675.57
858	42.650	932.30	747.88	687.41	687.16	687.09	675.54
859	42.700	932.30	747.87	687.39	687.14	687.08	675.51
860	42.750	932.30	747.87	687.37	687.12	687.06	675.48
861	42.800	932.29	747.87	687.35	687.10	687.04	675.45
862	42.850	932.29	747.87	687.34	687.09	687.03	675.42
863	42.900	932.28	747.86	687.32	687.07	687.01	675.39
864	42.950	932.28	747.86	687.30	687.05	686.99	675.36
865	43.000	932.28	747.86	687.28	687.04	686.98	675.33
866	43.050	932.27	747.86	687.27	687.02	686.96	675.30
867	43.100	932.27	747.85	687.25	687.01	686.94	675.27
868	43.150	932.26	747.85	687.23	686.99	686.93	675.24
869	43.200	932.26	747.85	687.22	686.97	686.91	675.21
870	43.250	932.26	747.85	687.20	686.96	686.90	675.18
871	43.300	932.25	747.84	687.18	686.94	686.88	675.15
872	43.350	932.25	747.84	687.17	686.93	686.86	675.12
873	43.400	932.24	747.84	687.15	686.91	686.85	675.09
874	43.450	932.24	747.84	687.13	686.90	686.83	675.06
875	43.500	932.24	747.83	687.12	686.88	686.82	675.03
876	43.550	932.23	747.83	687.10	686.86	686.80	675.00
877	43.600	932.23	747.83	687.09	686.85	686.79	674.97
878	43.650	932.23	747.83	687.07	686.83	686.77	674.94
879	43.700	932.22	747.82	687.06	686.82	686.76	674.91
880	43.750	932.22	747.82	687.04	686.80	686.74	674.88
881	43.800	932.22	747.82	687.03	686.79	686.73	674.85
882	43.850	932.21	747.82	687.01	686.78	686.71	674.82
883	43.900	932.21	747.81	687.00	686.76	686.70	674.79
884	43.950	932.20	747.81	686.98	686.75	686.69	674.76
885	44.000	932.20	747.81	686.97	686.73	686.67	674.73
886	44.050	932.20	747.81	686.95	686.72	686.66	674.70
887	44.100	932.19	747.80	686.94	686.70	686.64	674.67
888	44.150	932.19	747.80	686.92	686.69	686.63	674.64
889	44.200	932.19	747.80	686.91	686.68	686.62	674.61
890	44.250	932.18	747.80	686.89	686.66	686.60	674.58
891	44.300	932.18	747.79	686.88	686.65	686.59	674.55
892	44.350	932.18	747.79	686.86	686.63	686.57	674.52
893	44.400	932.17	747.79	686.85	686.62	686.56	674.49
894	44.450	932.17	747.79	686.84	686.61	686.55	674.46
895	44.500	932.17	747.79	686.82	686.59	686.53	674.43
896	44.550	932.16	747.78	686.81	686.58	686.52	674.40
897	44.600	932.16	747.78	686.79	686.57	686.51	674.37
898	44.650	932.16	747.78	686.78	686.55	686.49	674.34

899	44.700	932.15	747.78	686.77	686.54	686.48	675.61
900	44.750	932.15	747.77	686.75	686.53	686.47	675.59
901	44.800	932.15	747.77	686.74	686.52	686.46	675.58
902	44.850	932.14	747.77	686.73	686.50	686.44	675.56
903	44.900	932.14	747.77	686.71	686.49	686.43	675.54
904	44.950	932.14	747.77	686.70	686.48	686.42	675.53
905	45.000	932.14	747.76	686.69	686.47	686.41	675.51
906	45.050	932.13	747.76	686.67	686.45	686.39	675.50
907	45.100	932.13	747.76	686.66	686.44	686.38	675.48
908	45.150	932.13	747.76	686.65	686.43	686.37	675.46
909	45.200	932.12	747.76	686.64	686.42	686.36	675.45
910	45.250	932.12	747.75	686.62	686.40	686.34	675.43
911	45.300	932.12	747.75	686.61	686.39	686.33	675.42
912	45.350	932.11	747.75	686.60	686.38	686.32	675.40
913	45.400	932.11	747.75	686.59	686.37	686.31	675.38
914	45.450	932.11	747.75	686.57	686.36	686.30	675.37
915	45.500	932.10	747.74	686.56	686.34	686.28	675.35
916	45.550	932.10	747.74	686.55	686.33	686.27	675.34
917	45.600	932.10	747.74	686.54	686.32	686.26	675.32
918	45.650	932.10	747.74	686.53	686.31	686.25	675.31
919	45.700	932.09	747.74	686.51	686.30	686.24	675.29
920	45.750	932.09	747.73	686.50	686.29	686.23	675.28
921	45.800	932.09	747.73	686.49	686.28	686.22	675.26
922	45.850	932.08	747.73	686.48	686.26	686.20	675.25
923	45.900	932.08	747.73	686.47	686.25	686.19	675.23
924	45.950	932.08	747.73	686.45	686.24	686.18	675.22
925	46.000	932.08	747.72	686.44	686.23	686.17	675.20
926	46.050	932.07	747.72	686.43	686.22	686.16	675.19
927	46.100	932.07	747.72	686.42	686.21	686.15	675.17
928	46.150	932.07	747.72	686.41	686.20	686.14	675.16
929	46.200	932.07	747.72	686.40	686.19	686.13	675.14
930	46.250	932.06	747.71	686.39	686.18	686.12	675.13
931	46.300	932.06	747.71	686.38	686.17	686.11	675.11
932	46.350	932.06	747.71	686.37	686.16	686.10	675.10
933	46.400	932.05	747.71	686.35	686.15	686.09	675.09
934	46.450	932.05	747.71	686.34	686.14	686.08	675.07
935	46.500	932.05	747.71	686.33	686.13	686.07	675.06
936	46.550	932.05	747.70	686.32	686.11	686.06	675.04
937	46.600	932.04	747.70	686.31	686.10	686.05	675.03
938	46.650	932.04	747.70	686.30	686.09	686.04	675.02
939	46.700	932.04	747.70	686.29	686.08	686.03	675.00
940	46.750	932.04	747.70	686.28	686.07	686.02	674.99
941	46.800	932.03	747.69	686.27	686.06	686.01	674.97
942	46.850	932.03	747.69	686.26	686.05	686.00	674.96
943	46.900	932.03	747.69	686.25	686.04	685.99	674.95
944	46.950	932.03	747.69	686.24	686.03	685.98	674.93
945	47.000	932.02	747.69	686.23	686.03	685.97	674.92
946	47.050	932.02	747.69	686.22	686.02	685.96	674.91
947	47.100	932.02	747.68	686.21	686.01	685.95	674.89
948	47.150	932.02	747.68	686.20	686.00	685.94	674.88
949	47.200	932.01	747.68	686.19	685.99	685.93	674.87
950	47.250	932.01	747.68	686.18	685.98	685.92	674.85
951	47.300	932.01	747.68	686.17	685.97	685.91	674.84
952	47.350	932.01	747.68	686.16	685.96	685.90	674.83
953	47.400	932.00	747.67	686.15	685.95	685.89	674.82
954	47.450	932.00	747.67	686.14	685.94	685.88	674.80
955	47.500	932.00	747.67	686.13	685.93	685.87	674.79
956	47.550	932.00	747.67	686.12	685.92	685.86	674.78
957	47.600	931.99	747.67	686.11	685.91	685.85	674.76
958	47.650	931.99	747.67	686.10	685.90	685.85	674.75
959	47.700	931.99	747.67	686.09	685.90	685.84	674.74
960	47.750	931.99	747.66	686.08	685.89	685.83	674.72
961	47.800	931.99	747.66	686.07	685.88	685.82	674.71
962	47.850	931.98	747.66	686.07	685.87	685.81	674.70
963	47.900	931.98	747.66	686.06	685.86	685.80	674.69
964	47.950	931.98	747.66	686.05	685.85	685.79	674.68
965	48.000	931.98	747.66	686.04	685.84	685.78	674.66
966	48.050	931.97	747.65	686.03	685.83	685.78	674.65
967	48.100	931.97	747.65	686.02	685.83	685.77	674.64
968	48.150	931.97	747.65	686.01	685.82	685.76	674.63
969	48.200	931.97	747.65	686.00	685.81	685.75	674.62
970	48.250	931.97	747.65	685.99	685.80	685.74	674.60
971	48.300	931.96	747.65	685.99	685.79	685.73	674.59
972	48.350	931.96	747.65	685.98	685.78	685.73	674.58
973	48.400	931.96	747.64	685.97	685.78	685.72	674.57
974	48.450	931.96	747.64	685.96	685.77	685.71	674.56
975	48.500	931.96	747.64	685.95	685.76	685.70	674.55
976	48.550	931.95	747.64	685.94	685.75	685.69	674.53
977	48.600	931.95	747.64	685.93	685.74	685.69	674.52
978	48.650	931.95	747.64	685.93	685.74	685.68	674.51
979	48.700	931.95	747.64	685.92	685.73	685.67	674.50
980	48.750	931.94	747.63	685.91	685.72	685.66	674.49
981	48.800	931.94	747.63	685.90	685.71	685.65	674.48
982	48.850	931.94	747.63	685.89	685.70	685.65	674.47
983	48.900	931.94	747.63	685.89	685.70	685.64	674.45
984	48.950	931.94	747.63	685.88	685.69	685.63	674.44
985	49.000	931.93	747.63	685.87	685.68	685.62	674.43
986	49.050	931.93	747.63	685.86	685.67	685.62	674.42
987	49.100	931.93	747.63	685.85	685.67	685.61	674.41
988	49.150	931.93	747.62	685.85	685.66	685.60	674.40
989	49.200	931.93	747.62	685.84	685.65	685.59	674.39
990	49.250	931.93	747.62	685.83	685.64	685.59	674.38
991	49.300	931.92	747.62	685.82	685.64	685.58	674.37
992	49.350	931.92	747.62	685.81	685.63	685.57	674.36
993	49.400	931.92	747.62	685.81	685.62	685.56	674.35

994	49.450	931.92	747.62	685.60	685.61	685.56	674.33
995	49.500	931.92	747.61	685.79	685.61	685.55	674.32
996	49.550	931.91	747.61	685.78	685.60	685.54	674.31
997	49.600	931.91	747.61	685.78	685.59	685.54	674.30
998	49.650	931.91	747.61	685.77	685.59	685.53	674.29
999	49.700	931.91	747.61	685.76	685.58	685.52	674.28
1000	49.750	931.91	747.61	685.75	685.57	685.51	674.27
1001	49.800	931.90	747.61	685.75	685.56	685.51	674.26
1002	49.850	931.90	747.61	685.74	685.56	685.50	674.25
1003	49.900	931.90	747.60	685.73	685.55	685.49	674.24
1004	49.950	931.90	747.60	685.73	685.54	685.49	674.23

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K	TTP(K)	QC(K, I), I=1,NTT)					
*****	*****	*****					
1	.000	26.60	26.62	105.61	37.46	19.50	19.50
2	.050	26.60	26.60	114.47	6.50	19.50	19.50
3	.100	26.60	26.60	109.89	28.85	19.50	19.50
4	.150	26.60	26.60	110.00	14.14	19.50	19.50
5	.200	26.60	26.62	104.98	22.84	19.50	19.50
6	.250	26.60	26.68	103.59	17.77	19.50	19.50
7	.300	26.60	26.89	96.87	20.15	19.50	19.50
8	.350	26.60	27.49	91.94	18.67	19.50	19.50
9	.400	26.60	28.89	83.56	18.86	19.50	19.50
10	.450	26.60	31.50	76.20	18.66	19.50	19.50
11	.500	26.60	35.27	69.44	18.70	19.50	19.50
12	.550	26.60	39.19	66.46	19.22	19.50	19.50
13	.600	26.60	41.37	66.26	19.60	19.50	19.50
14	.650	26.60	39.99	67.76	19.97	19.50	19.50
15	.700	26.70	34.85	68.76	19.88	19.50	19.50
16	.750	27.54	28.37	68.42	19.71	19.50	19.50
17	.800	29.04	24.62	67.10	19.52	19.50	19.50
18	.850	31.17	26.16	65.54	19.47	19.50	19.50
19	.900	33.98	31.79	63.97	19.45	19.50	19.50
20	.950	37.48	38.12	62.13	19.40	19.50	19.50
21	1.000	41.72	42.99	59.79	19.30	19.50	19.50
22	1.050	45.39	46.42	57.04	19.21	19.50	19.50
23	1.100	49.87	49.15	54.11	19.14	19.50	19.50
24	1.150	55.19	51.81	51.10	19.10	19.50	19.50
25	1.200	61.36	55.04	48.12	19.06	19.50	19.50
26	1.250	68.43	59.10	45.36	19.06	19.50	19.50
27	1.300	76.41	64.30	43.05	19.11	19.50	19.50
28	1.350	85.33	71.20	41.44	19.22	19.50	19.50
29	1.400	95.22	80.10	40.70	19.38	19.50	19.50
30	1.450	106.09	90.95	40.76	19.56	19.50	19.50
31	1.500	117.96	103.48	41.26	19.68	19.50	19.50
32	1.550	130.85	117.20	41.73	19.70	19.50	19.50
33	1.600	144.77	131.58	41.87	19.65	19.50	19.50
34	1.650	159.74	146.32	41.74	19.59	19.50	19.50
35	1.700	175.76	161.42	41.78	19.61	19.50	19.50
36	1.750	192.86	177.15	42.50	19.74	19.50	19.50
37	1.800	211.03	193.84	44.30	19.95	19.50	19.50
38	1.850	230.28	211.80	47.34	20.22	19.50	19.50
39	1.900	250.62	231.12	51.60	20.46	19.50	19.50
40	1.950	272.05	251.75	56.94	20.67	19.50	19.50
41	2.000	294.57	273.90	63.13	20.80	19.50	19.50
42	2.050	319.50	296.47	69.91	20.87	19.50	19.50
43	2.100	345.51	321.01	77.01	20.89	19.50	19.50
44	2.150	372.60	346.83	87.12	25.83	24.87	24.87
45	2.200	400.75	373.31	103.85	40.11	39.53	39.53
46	2.250	429.96	400.51	123.72	56.49	55.59	55.59
47	2.300	460.21	428.62	143.93	77.60	71.73	71.73
48	2.350	491.50	457.57	165.09	88.47	87.32	87.32
49	2.400	523.80	487.44	187.58	105.15	104.04	104.04
50	2.450	557.11	518.25	210.06	119.85	118.30	118.30
51	2.500	591.40	549.98	225.47	121.27	118.81	118.81
52	2.550	626.66	582.58	237.72	121.08	119.29	119.29
53	2.600	662.86	616.09	251.32	121.99	119.78	119.78
54	2.650	699.99	650.53	263.80	122.14	120.26	120.26
55	2.700	738.01	685.86	275.99	122.74	120.72	120.72
56	2.750	776.91	722.12	287.72	123.07	121.18	121.18
57	2.800	816.65	759.38	299.41	123.62	121.64	121.64
58	2.850	857.22	797.56	311.70	124.15	122.11	122.11
59	2.900	898.56	836.66	325.14	124.96	122.77	122.77
60	2.950	940.67	876.62	340.16	125.94	123.58	123.58
61	3.000	983.50	917.31	356.73	127.01	124.46	124.46
62	3.050	1027.03	958.63	374.69	128.12	125.40	125.40
63	3.100	1071.21	1000.46	393.68	129.25	126.39	126.39
64	3.150	1116.01	1042.72	413.29	130.38	127.42	127.42
65	3.200	1161.39	1085.40	433.08	131.51	128.48	128.48
66	3.250	1207.32	1128.48	452.86	132.65	129.56	129.56
67	3.300	1253.76	1172.01	472.61	133.81	130.66	130.66
68	3.350	1300.67	1216.00	492.50	135.07	131.80	131.80
69	3.400	1348.00	1260.44	512.54	136.27	132.96	132.96
70	3.450	1395.72	1305.37	532.72	137.54	134.15	134.15
71	3.500	1443.79	1350.77	552.99	138.84	135.37	135.37
72	3.550	1492.16	1396.61	573.40	140.16	136.62	136.62
73	3.600	1540.79	1442.85	593.91	141.53	137.90	137.90
74	3.650	1589.62	1489.39	614.59	142.92	139.21	139.21
75	3.700	1638.64	1536.04	635.39	144.36	140.55	140.55

76	3.750	1687.77	1582.23	656.33	145.82	141.93	141.93
77	3.800	1736.99	1628.20	677.33	147.32	143.34	143.34
78	3.850	1786.25	1674.14	698.40	148.83	144.77	144.77
79	3.900	1835.49	1720.11	719.48	150.38	146.24	146.24
80	3.950	1884.68	1766.25	740.53	151.96	147.74	147.74
81	4.000	1933.76	1812.58	761.52	153.56	149.26	149.26
82	4.050	1902.93	1835.88	782.40	155.18	150.81	150.81
83	4.100	1872.71	1816.37	806.88	156.33	152.30	152.30
84	4.150	1843.08	1784.56	828.93	158.57	153.88	153.88
85	4.200	1814.02	1760.88	851.23	159.70	155.46	155.46
86	4.250	1785.91	1735.78	872.98	161.72	157.06	157.06
87	4.300	1757.55	1712.25	894.25	163.13	158.68	158.68
88	4.350	1730.12	1692.18	914.35	164.91	160.30	160.30
89	4.400	1703.21	1672.70	932.36	166.33	161.90	161.90
90	4.450	1676.81	1654.06	948.64	167.73	163.44	163.44
91	4.500	1650.91	1634.37	966.24	168.87	164.90	164.90
92	4.550	1625.49	1613.60	981.44	169.98	166.26	166.26
93	4.600	1600.55	1592.44	994.13	171.13	167.56	167.56
94	4.650	1576.07	1571.40	996.22	172.39	168.83	168.83
95	4.700	1552.05	1550.90	968.54	173.69	170.10	170.10
96	4.750	1528.48	1530.83	970.48	174.94	171.37	171.37
97	4.800	1505.34	1511.11	971.35	176.11	172.62	172.62
98	4.850	1482.63	1491.69	971.05	177.25	173.84	173.84
99	4.900	1460.33	1472.53	969.87	178.39	175.04	175.04
100	4.950	1438.45	1453.53	967.90	179.50	176.22	176.22
101	5.000	1416.96	1434.61	965.15	180.58	177.37	177.37
102	5.050	1395.87	1415.69	961.65	181.65	178.50	178.50
103	5.100	1375.15	1396.72	957.52	182.69	179.60	179.60
104	5.150	1354.82	1377.74	952.79	183.71	180.69	180.69
105	5.200	1334.84	1358.87	947.46	184.71	181.75	181.75
106	5.250	1315.23	1340.23	941.52	185.68	182.78	182.78
107	5.300	1295.97	1321.87	935.06	186.62	183.80	183.80
108	5.350	1277.06	1303.75	928.08	187.55	184.79	184.79
109	5.400	1258.48	1285.83	920.72	188.45	185.75	185.75
110	5.450	1240.23	1268.07	912.98	189.34	186.70	186.70
111	5.500	1222.31	1250.49	904.85	190.20	187.62	187.62
112	5.550	1204.70	1233.11	896.44	191.04	188.52	188.52
113	5.600	1187.40	1215.95	887.78	191.92	189.46	189.46
114	5.650	1170.40	1199.00	879.61	194.38	192.08	192.08
115	5.700	1153.71	1182.24	872.07	198.02	195.75	195.75
116	5.750	1137.30	1165.67	864.76	202.20	200.04	200.04
117	5.800	1121.18	1149.27	857.82	207.24	205.15	205.15
118	5.850	1105.34	1133.04	851.64	213.77	211.81	211.81
119	5.900	1089.77	1117.00	850.46	221.27	219.80	219.80
120	5.950	1074.47	1101.16	847.69	232.50	230.57	230.57
121	6.000	1059.43	1085.52	847.39	244.88	243.60	243.60
122	6.050	1044.66	1070.09	848.29	260.93	259.39	259.39
123	6.100	1030.13	1054.86	851.09	278.17	278.06	278.06
124	6.150	1015.85	1039.85	855.63	300.83	299.70	299.70
125	6.200	1001.82	1025.04	862.12	325.39	324.54	324.54
126	6.250	988.02	1010.44	870.53	353.33	352.60	352.60
127	6.300	974.45	996.05	880.25	382.96	382.36	382.36
128	6.350	961.12	981.87	891.56	415.83	415.50	415.50
129	6.400	948.00	967.90	905.11	452.36	452.21	452.21
130	6.450	935.11	954.16	920.72	492.38	492.50	492.50
131	6.500	922.43	940.65	938.25	536.15	536.49	536.49
132	6.550	909.97	927.39	958.75	583.59	584.22	584.22
133	6.600	897.71	914.40	981.42	634.90	635.79	635.79
134	6.650	885.65	901.69	1006.74	690.07	691.27	691.27
135	6.700	873.79	889.29	1034.84	749.22	750.72	750.72
136	6.750	862.13	877.20	1065.89	812.40	814.24	814.24
137	6.800	850.66	865.43	1100.86	881.24	883.56	883.56
138	6.850	839.38	853.96	1139.71	954.57	957.21	957.21
139	6.900	828.28	842.79	1182.31	1032.14	1035.28	1035.28
140	6.950	817.36	831.90	1229.48	1114.49	1118.11	1118.11
141	7.000	806.62	821.26	1282.17	1202.05	1206.32	1206.32
142	7.050	796.05	810.91	1342.81	1297.04	1302.18	1302.18
143	7.100	785.65	800.87	1412.55	1397.13	1403.03	1403.03
144	7.150	775.42	791.12	1492.81	1506.25	1507.24	1507.24
145	7.200	765.35	781.65	1570.51	1609.46	1616.21	1616.21
146	7.250	755.45	772.46	1602.04	1731.45	1735.29	1735.29
147	7.300	745.70	763.55	1628.70	1851.93	1858.78	1858.78
148	7.350	736.11	754.94	1656.86	1979.62	1985.95	1985.95
149	7.400	726.67	746.61	1684.94	2109.17	2117.10	2117.10
150	7.450	717.38	738.54	1713.07	2243.20	2251.61	2251.61
151	7.500	708.23	730.72	1741.64	2379.97	2389.54	2389.54
152	7.550	699.23	723.16	1770.46	2519.98	2530.43	2530.43
153	7.600	690.37	715.86	1799.63	2659.09	2670.25	2670.25
154	7.650	681.65	708.83	1825.40	2781.10	2791.58	2791.58
155	7.700	673.07	702.07	1842.49	2869.58	2878.58	2878.58
156	7.750	664.62	695.59	1848.09	2918.15	2925.20	2925.20
157	7.800	656.30	689.34	1823.79	2844.68	2841.08	2841.08
158	7.850	648.11	683.32	1773.55	2749.13	2752.63	2752.63
159	7.900	640.04	677.47	1728.78	2666.74	2665.86	2665.86
160	7.950	632.10	671.67	1677.49	2576.66	2578.74	2578.74
161	8.000	624.28	665.82	1627.76	2490.11	2491.27	2491.27
162	8.050	616.58	659.82	1570.46	2405.40	2407.06	2407.06
163	8.100	609.01	653.47	1511.84	2322.80	2324.75	2324.75
164	8.150	601.55	646.64	1452.94	2244.21	2246.19	2246.19
165	8.200	594.21	639.47	1396.02	2170.00	2172.22	2172.22
166	8.250	586.98	632.36	1343.37	2101.61	2103.78	2103.78
167	8.300	579.87	625.71	1296.53	2039.35	2041.58	2041.58
168	8.350	572.87	619.73	1256.70	1983.60	1985.71	1985.71
169	8.400	565.97	614.29	1223.80	1934.05	1936.11	1936.11
170	8.450	559.19	609.00	1196.80	1890.09	1892.07	1892.07

171	8.300	552.50	603.45	1173.99	1850.95	1852.94	1852.94
172	8.350	545.92	597.39	1153.99	1815.90	1817.92	1817.92
173	8.400	539.45	590.76	1135.93	1784.34	1786.41	1786.41
174	8.450	533.07	583.50	1119.63	1755.92	1758.02	1758.02
175	8.500	526.79	575.56	1105.09	1730.28	1732.40	1732.40
176	8.550	520.60	567.04	1092.08	1707.14	1709.27	1709.27
177	8.600	514.51	559.24	1080.07	1686.09	1688.26	1688.26
178	8.650	508.51	549.63	1068.45	1666.77	1669.00	1669.00
179	8.700	502.60	541.63	1056.69	1648.79	1651.07	1651.07
180	8.750	496.79	534.37	1044.59	1631.90	1634.24	1634.24
181	8.800	491.06	527.55	1032.06	1615.94	1618.34	1618.34
182	8.850	485.41	520.77	1019.24	1600.77	1603.23	1603.23
183	8.900	479.85	513.89	1006.31	1586.42	1588.92	1588.92
184	8.950	474.38	507.02	993.52	1572.86	1575.40	1575.40
185	9.000	468.98	500.35	981.04	1560.12	1562.69	1562.69
186	9.050	463.67	493.91	969.06	1548.21	1550.79	1550.79
187	9.100	458.44	487.69	957.59	1537.04	1539.65	1539.65
188	9.150	453.28	481.64	946.71	1526.59	1529.20	1529.20
189	9.200	448.20	475.74	936.43	1516.78	1519.41	1519.41
190	9.250	443.20	469.98	926.70	1507.58	1510.20	1510.20
191	9.300	438.27	464.36	917.44	1498.88	1501.51	1501.51
192	9.350	433.41	458.91	908.61	1490.61	1493.24	1493.24
193	9.400	428.63	453.62	900.14	1482.83	1485.47	1485.47
194	9.450	423.91	448.50	892.01	1475.42	1478.06	1478.06
195	9.500	419.27	443.51	884.17	1468.30	1470.94	1470.94
196	9.550	414.69	438.61	876.63	1461.44	1464.07	1464.07
197	9.600	410.18	433.78	869.37	1454.77	1457.40	1457.40
198	9.650	405.73	429.01	862.33	1448.31	1450.94	1450.94
199	9.700	401.35	424.32	855.42	1441.60	1444.18	1444.18
200	9.750	397.04	419.73	848.93	1435.87	1438.93	1438.93
201	9.800	392.78	415.24	842.72	1430.08	1433.93	1433.93
202	9.850	388.59	410.84	836.72	1424.22	1427.98	1427.98
203	9.900	384.46	406.51	830.96	1418.29	1422.22	1422.22
204	9.950	380.39	402.25	825.44	1412.29	1416.44	1416.44
205	10.000	376.37	398.05	820.16	1406.22	1410.51	1410.51
206	10.050	372.42	393.92	815.11	1400.08	1404.40	1404.40
207	10.100	368.52	389.85	810.28	1393.87	1398.22	1398.22
208	10.150	364.67	385.85	805.66	1387.59	1392.04	1392.04
209	10.200	360.89	381.91	801.26	1381.24	1385.73	1385.73
210	10.250	357.15	378.02	797.07	1374.82	1379.36	1379.36
211	10.300	353.47	374.18	793.08	1368.33	1372.86	1372.86
212	10.350	349.84	370.36	789.30	1361.77	1366.31	1366.31
213	10.400	346.26	366.52	785.73	1355.14	1359.69	1359.69
214	10.450	342.74	362.62	782.36	1348.44	1352.99	1352.99
215	10.500	339.26	358.64	779.18	1341.67	1346.24	1346.24
216	10.550	335.83	354.62	776.18	1334.83	1339.46	1339.46
217	10.600	332.45	350.65	773.35	1327.92	1332.64	1332.64
218	10.650	329.12	346.91	770.66	1320.94	1325.73	1325.73
219	10.700	325.83	343.55	768.11	1313.89	1318.79	1318.79
220	10.750	322.59	340.58	765.69	1306.77	1311.80	1311.80
221	10.800	319.40	337.85	763.40	1299.58	1304.76	1304.76
222	10.850	316.25	335.08	761.24	1292.32	1300.00	1300.00
223	10.900	313.15	332.12	759.20	1284.99	1295.24	1295.24
224	10.950	310.08	328.96	757.28	1277.59	1289.40	1289.40
225	11.000	307.06	325.72	755.47	1269.92	1282.86	1282.86
226	11.050	304.09	322.56	753.76	1262.08	1276.18	1276.18
227	11.100	301.15	319.53	752.15	1254.07	1269.36	1269.36
228	11.150	298.25	316.60	750.63	1245.89	1262.40	1262.40
229	11.200	295.40	313.74	749.20	1237.54	1255.31	1255.31
230	11.250	292.58	310.90	747.85	1228.92	1248.09	1248.09
231	11.300	289.80	308.09	746.57	1220.14	1240.76	1240.76
232	11.350	287.06	305.31	745.36	1211.20	1233.31	1233.31
233	11.400	284.36	302.57	744.22	1202.11	1225.74	1225.74
234	11.450	281.69	299.86	743.15	1192.87	1218.06	1218.06
235	11.500	279.19	297.19	742.14	1183.48	1210.27	1210.27
236	11.550	276.74	294.55	741.18	1173.94	1202.36	1202.36
237	11.600	274.32	291.96	740.28	1164.25	1194.34	1194.34
238	11.650	271.93	289.43	739.43	1154.40	1186.21	1186.21
239	11.700	269.58	286.99	738.63	1144.40	1177.97	1177.97
240	11.750	267.26	284.64	737.88	1134.25	1169.62	1169.62
241	11.800	264.98	282.34	737.18	1123.95	1161.17	1161.17
242	11.850	262.74	280.05	736.53	1113.50	1152.62	1152.62
243	11.900	260.54	277.70	735.93	1102.90	1143.97	1143.97
244	11.950	258.36	275.31	735.38	1092.15	1135.24	1135.24
245	12.000	256.21	272.89	734.88	1081.35	1126.42	1126.42
246	12.050	254.09	270.51	734.43	1070.40	1117.51	1117.51
247	12.100	252.01	268.19	734.03	1059.31	1108.51	1108.51
248	12.150	250.00	265.93	733.68	1048.08	1099.42	1099.42
249	12.200	248.04	263.69	733.38	1036.71	1090.25	1090.25
250	12.250	246.15	261.47	733.13	1025.20	1080.99	1080.99
251	12.300	244.32	259.27	732.93	1013.55	1071.64	1071.64
252	12.350	242.55	257.10	732.78	1001.76	1062.21	1062.21
253	12.400	240.84	254.95	732.68	989.83	1052.70	1052.70
254	12.450	239.18	252.82	732.63	977.76	1043.11	1043.11
255	12.500	237.57	250.72	732.63	965.55	1033.44	1033.44
256	12.550	236.01	248.64	732.68	953.20	1023.69	1023.69
257	12.600	234.50	246.59	732.78	940.72	1013.87	1013.87
258	12.650	233.04	244.56	732.93	928.10	1003.97	1003.97
259	12.700	231.63	242.55	733.13	915.34	993.99	993.99
260	12.750	230.27	240.57	733.38	902.44	983.94	983.94
261	12.800	228.96	238.62	733.68	889.40	973.82	973.82
262	12.850	227.70	236.70	734.03	876.22	963.63	963.63
263	12.900	226.49	234.80	734.43	862.90	953.37	953.37
264	12.950	225.32	232.92	734.88	849.44	943.04	943.04
265	13.000	224.19	231.08	735.38	835.84	932.64	932.64

266	13.250	213.01	229.25	572.54	1082.42	1084.90	1084.90
267	13.300	211.30	227.44	568.90	1078.55	1081.03	1081.03
268	13.350	209.62	225.65	565.29	1074.69	1077.16	1077.16
269	13.400	207.96	223.89	561.70	1070.84	1073.30	1073.30
270	13.450	206.32	222.15	558.13	1067.00	1069.46	1069.46
271	13.500	204.70	220.43	554.59	1063.17	1065.62	1065.62
272	13.550	203.10	218.74	551.06	1059.35	1061.79	1061.79
273	13.600	201.52	217.07	547.55	1055.53	1057.96	1057.96
274	13.650	199.97	215.42	544.07	1051.72	1054.15	1054.15
275	13.700	198.43	213.79	540.62	1047.93	1050.35	1050.35
276	13.750	196.91	212.19	537.18	1044.15	1046.55	1046.55
277	13.800	195.42	210.60	533.76	1040.36	1042.76	1042.76
278	13.850	193.94	209.02	530.35	1036.60	1038.99	1038.99
279	13.900	192.48	207.47	526.99	1032.83	1035.21	1035.21
280	13.950	191.04	205.94	523.63	1029.09	1031.46	1031.46
281	14.000	189.62	204.43	520.29	1025.34	1027.71	1027.71
282	14.050	188.22	202.93	516.98	1021.62	1023.97	1023.97
283	14.100	186.84	201.46	513.68	1017.89	1020.23	1020.23
284	14.150	185.46	199.99	510.41	1014.17	1016.51	1016.51
285	14.200	184.11	198.55	507.15	1010.48	1012.80	1012.80
286	14.250	182.77	197.12	503.95	1006.78	1009.10	1009.10
287	14.300	181.44	195.70	501.61	1002.89	1005.29	1005.29
288	14.325	180.78	195.00	504.66	781.84	835.34	835.34
289	14.338	180.46	194.65	771.28	862.26	830.53	830.53
290	14.344	180.29	194.47	813.30	822.52	836.20	836.20
291	14.347	180.21	194.39	825.42	804.57	830.74	830.74
292	14.350	180.13	194.30	812.35	817.81	829.92	829.92
293	14.400	178.83	192.91	839.61	834.01	828.46	828.46
294	14.450	177.55	191.54	824.58	823.17	827.57	827.57
295	14.500	176.28	190.18	820.39	825.14	825.18	825.18
296	14.550	175.02	188.83	806.08	821.09	823.26	823.26
297	14.600	173.78	187.50	776.11	819.67	820.99	820.99
298	14.650	172.55	186.19	740.83	815.42	818.05	818.05
299	14.700	171.34	184.89	697.61	811.30	814.15	814.15
300	14.750	170.13	183.64	648.05	805.56	809.27	809.27
301	14.800	168.95	182.50	592.32	799.26	803.54	803.54
302	14.850	167.77	181.63	537.64	792.65	797.21	797.21
303	14.900	166.61	181.31	494.86	786.92	791.07	791.07
304	14.950	165.45	181.09	471.95	782.99	786.20	786.20
305	15.000	164.31	183.51	466.21	780.02	782.35	782.35
306	15.050	163.19	185.88	468.14	777.35	779.33	779.33
307	15.100	162.07	188.20	470.14	774.48	776.46	776.46
308	15.150	160.97	189.46	470.52	771.49	773.56	773.56
309	15.200	159.88	188.82	470.60	768.59	770.62	770.62
310	15.250	158.80	185.97	471.08	765.75	767.73	767.73
311	15.300	157.73	181.20	471.61	762.96	764.90	764.90
312	15.350	156.67	175.57	471.50	760.10	762.06	762.06
313	15.400	155.63	170.58	470.02	757.14	759.15	759.15
314	15.450	154.59	167.45	466.82	754.07	756.18	756.18
315	15.500	153.57	166.12	462.00	750.84	753.02	753.02
316	15.550	152.55	165.55	455.96	747.49	749.75	749.75
317	15.600	151.55	164.85	449.27	744.14	746.45	746.45
318	15.650	150.56	163.86	442.49	740.73	743.05	743.05
319	15.700	149.58	162.77	435.96	737.33	739.64	739.64
320	15.750	148.60	161.66	429.90	733.94	736.24	736.24
321	15.800	147.64	160.52	424.40	730.59	732.86	732.86
322	15.850	146.69	159.31	419.64	727.29	729.53	729.53
323	15.900	145.75	158.02	415.67	724.06	726.25	726.25
324	15.950	144.81	156.66	412.48	720.89	723.03	723.03
325	16.000	143.89	155.29	409.89	717.77	719.87	719.87
326	16.050	142.98	153.99	407.63	714.67	716.75	716.75
327	16.100	142.07	152.78	405.44	711.59	713.65	713.65
328	16.150	141.18	151.68	403.12	708.49	710.55	710.55
329	16.200	140.29	150.67	400.59	705.39	707.44	707.44
330	16.250	139.41	149.73	397.90	702.33	704.38	704.38
331	16.300	138.55	148.82	395.13	699.24	701.28	701.28
332	16.350	137.69	147.91	392.33	696.14	698.17	698.17
333	16.400	136.84	146.99	389.56	693.05	695.08	695.08
334	16.450	135.99	146.07	386.84	689.98	692.00	692.00
335	16.500	135.16	145.14	384.16	686.92	688.92	688.92
336	16.550	134.33	144.21	381.43	683.88	685.87	685.87
337	16.600	133.52	143.29	378.98	680.85	682.82	682.82
338	16.650	132.71	142.38	376.49	677.84	679.80	679.80
339	16.700	131.91	141.48	374.05	674.84	676.78	676.78
340	16.750	131.11	140.60	371.64	671.87	673.80	673.80
341	16.800	130.33	139.72	369.24	668.90	670.82	670.82
342	16.850	129.55	138.86	366.81	665.91	667.82	667.82
343	16.900	128.78	137.99	364.38	662.93	664.83	664.83
344	16.950	128.02	137.13	361.93	659.97	661.86	661.86
345	17.000	127.27	136.27	359.47	657.01	658.89	658.89
346	17.050	126.52	135.43	357.00	654.06	655.93	655.93
347	17.100	125.78	134.59	354.55	651.13	652.99	652.99
348	17.150	125.05	133.76	352.11	648.22	650.07	650.07
349	17.200	124.32	132.92	349.67	645.30	647.13	647.13
350	17.250	123.60	132.09	347.23	642.37	644.20	644.20
351	17.300	122.89	131.26	344.80	639.48	641.29	641.29
352	17.350	122.19	130.44	342.39	636.58	638.39	638.39
353	17.400	121.49	129.63	339.97	633.71	635.50	635.50
354	17.450	120.80	128.82	337.58	630.83	632.62	632.62
355	17.500	120.11	128.02	335.20	627.97	629.74	629.74
356	17.550	119.44	127.22	332.88	625.19	626.96	626.96
357	17.600	118.77	126.43	330.64	622.35	624.09	624.09
358	17.650	118.10	125.65	328.51	619.57	621.31	621.31
359	17.700	117.44	124.87	326.50	616.78	618.48	618.48
360	17.750	116.79	124.09	324.53	614.03	615.74	615.74

361	17.800	116.14	123.32	322.58	611.26	612.93	612.93
362	17.850	115.91	122.57	320.63	608.54	610.22	610.22
363	17.900	114.87	121.83	318.71	605.78	607.43	607.43
364	17.950	114.24	121.09	316.77	603.09	604.75	604.75
365	18.000	113.62	120.35	314.87	600.41	602.05	602.05
366	18.050	113.01	119.61	312.95	597.71	599.34	599.34
367	18.100	112.40	118.87	311.05	595.03	596.64	596.64
368	18.150	111.79	118.14	309.15	592.36	593.96	593.96
369	18.200	111.20	117.41	307.25	589.69	591.29	591.29
370	18.250	110.60	116.69	305.37	587.04	588.62	588.62
371	18.300	110.02	115.99	303.50	584.40	585.97	585.97
372	18.350	109.43	115.29	301.63	581.78	583.34	583.34
373	18.400	108.86	114.60	299.78	579.16	580.71	580.71
374	18.450	108.29	113.91	297.95	576.56	578.10	578.10
375	18.500	107.72	113.22	296.13	573.96	575.49	575.49
376	18.550	107.16	112.54	294.32	571.39	572.90	572.90
377	18.600	106.61	111.87	292.52	568.82	570.32	570.32
378	18.650	106.06	111.21	290.74	566.26	567.76	567.76
379	18.700	105.51	110.55	288.97	563.77	565.25	565.25
380	18.750	104.97	109.91	287.22	561.20	562.67	562.67
381	18.800	104.44	109.28	285.47	558.71	560.17	560.17
382	18.850	103.91	108.65	283.74	556.17	557.61	557.61
383	18.900	103.38	108.02	282.00	553.69	555.14	555.14
384	18.950	102.86	107.39	280.29	551.19	552.61	552.61
385	19.000	102.34	106.77	278.57	548.68	550.10	550.10
386	19.050	101.83	106.16	276.88	546.22	547.62	547.62
387	19.100	101.33	105.56	275.20	543.76	545.16	545.16
388	19.150	100.83	104.97	273.52	541.32	542.70	542.70
389	19.200	100.33	104.37	271.86	538.88	540.26	540.26
390	19.250	99.84	103.79	270.20	536.46	537.82	537.82
391	19.300	99.35	103.20	268.57	534.05	535.40	535.40
392	19.350	98.86	102.62	266.95	531.64	532.99	532.99
393	19.400	98.39	102.06	265.33	529.26	530.59	530.59
394	19.450	97.91	101.50	263.74	526.87	528.19	528.19
395	19.500	97.44	100.95	262.14	524.51	525.82	525.82
396	19.550	96.97	100.40	260.57	522.15	523.45	523.45
397	19.600	96.51	99.85	258.99	519.80	521.09	521.09
398	19.650	96.05	99.31	257.44	517.46	518.75	518.75
399	19.700	95.60	98.77	255.89	515.14	516.41	516.41
400	19.750	95.15	98.25	254.36	512.82	514.09	514.09
401	19.800	94.70	97.73	252.83	510.51	511.77	511.77
402	19.850	94.26	97.22	251.32	508.22	509.47	509.47
403	19.900	93.82	96.71	249.82	505.93	507.17	507.17
404	19.950	93.39	96.20	248.33	503.66	504.89	504.89
405	20.000	92.96	95.70	246.84	501.39	502.61	502.61
406	20.050	92.53	95.21	245.38	499.14	500.34	500.34
407	20.100	92.11	94.72	243.91	496.90	498.09	498.09
408	20.150	91.69	94.24	242.47	494.66	495.84	495.84
409	20.200	91.27	93.76	241.03	492.43	493.61	493.61
410	20.250	90.86	93.29	239.60	490.21	491.38	491.38
411	20.300	90.45	92.82	238.19	488.01	489.17	489.17
412	20.350	90.05	92.36	236.78	485.82	486.97	486.97
413	20.400	89.65	91.90	235.39	483.63	484.77	484.77
414	20.450	89.25	91.45	234.01	481.46	482.59	482.59
415	20.500	88.85	91.01	232.63	479.29	480.41	480.41
416	20.550	88.46	90.57	231.27	477.13	478.25	478.25
417	20.600	88.07	90.13	229.92	474.99	476.09	476.09
418	20.650	87.69	89.70	228.59	472.85	473.95	473.95
419	20.700	87.31	89.27	227.26	470.72	471.81	471.81
420	20.750	86.93	88.85	225.94	468.60	469.68	469.68
421	20.800	86.56	88.43	224.64	466.50	467.57	467.57
422	20.850	86.19	88.02	223.34	464.39	465.46	465.46
423	20.900	85.82	87.61	222.06	462.31	463.36	463.36
424	20.950	85.45	87.21	220.77	460.16	461.20	461.20
425	21.000	85.09	86.81	219.50	458.12	459.16	459.16
426	21.050	84.73	86.42	218.26	456.03	457.05	457.05
427	21.100	84.38	86.03	217.01	454.00	455.03	455.03
428	21.150	84.03	85.64	215.78	451.94	452.94	452.94
429	21.200	83.68	85.26	214.56	449.92	450.94	450.94
430	21.250	83.33	84.88	213.36	447.88	448.86	448.86
431	21.300	82.99	84.51	212.16	445.88	446.88	446.88
432	21.350	82.65	84.14	210.98	443.85	444.82	444.82
433	21.400	82.31	83.77	209.81	441.87	442.86	442.86
434	21.450	81.97	83.41	208.66	439.86	440.81	440.81
435	21.500	81.64	83.05	207.50	437.90	438.87	438.87
436	21.550	81.31	82.70	206.37	435.91	436.84	436.84
437	21.600	80.98	82.34	205.24	433.96	434.91	434.91
438	21.650	80.66	82.00	204.12	431.98	432.90	432.90
439	21.700	80.34	81.65	203.01	430.04	430.98	430.98
440	21.750	80.02	81.31	201.92	428.08	428.99	428.99
441	21.800	79.70	80.98	200.82	426.16	427.09	427.09
442	21.850	79.39	80.64	199.74	424.21	425.12	425.12
443	21.900	79.08	80.31	198.65	422.23	423.15	423.15
444	21.950	78.77	79.99	197.60	420.38	421.30	421.30
445	22.000	78.47	79.66	196.56	418.45	419.35	419.35
446	22.050	78.16	79.34	195.49	416.51	417.41	417.41
447	22.100	77.86	79.02	194.48	414.68	415.58	415.58
448	22.150	77.57	78.71	193.46	412.78	413.66	413.66
449	22.200	77.27	78.40	192.41	410.84	411.73	411.73
450	22.250	76.98	78.09	191.38	408.96	409.84	409.84
451	22.300	76.69	77.78	190.37	407.07	407.96	407.96
452	22.350	76.40	77.48	189.37	405.22	406.10	406.10
453	22.400	76.11	77.18	188.40	403.36	404.24	404.24
454	22.450	75.83	76.89	187.43	401.52	402.39	402.39
455	22.500	75.55	76.59	186.48	399.67	400.55	400.55

456	22.550	75.27	76.29	185.55	397.84	398.71	398.71
457	22.600	74.99	76.00	184.63	396.01	396.87	396.87
458	22.650	74.72	75.72	183.75	394.19	395.05	395.05
459	22.700	74.44	75.43	182.87	392.37	393.23	393.23
460	22.750	74.17	75.15	182.01	390.56	391.42	391.42
461	22.800	73.90	74.87	181.17	388.76	389.61	389.61
462	22.850	73.64	74.60	180.35	386.96	387.81	387.81
463	22.900	73.38	74.32	179.55	385.17	386.01	386.01
464	22.950	73.11	74.05	178.76	383.38	384.22	384.22
465	23.000	72.85	73.78	177.99	381.59	382.43	382.43
466	23.050	72.60	73.51	177.24	379.82	380.65	380.65
467	23.100	72.34	73.25	176.52	378.04	378.88	378.88
468	23.150	72.09	72.99	175.81	376.27	377.10	377.10
469	23.200	71.84	72.73	175.13	374.50	375.33	375.33
470	23.250	71.59	72.47	174.44	372.74	373.57	373.57
471	23.300	71.34	72.21	173.82	370.98	371.80	371.80
472	23.350	71.10	71.96	173.20	369.22	370.04	370.04
473	23.400	70.85	71.71	172.61	367.47	368.29	368.29
474	23.450	70.61	71.46	172.05	365.71	366.53	366.53
475	23.500	70.37	71.21	171.51	363.96	364.78	364.78
476	23.550	70.13	70.97	171.00	362.20	363.02	363.02
477	23.600	69.90	70.72	170.52	360.45	361.27	361.27
478	23.650	69.66	70.48	170.07	358.69	359.51	359.51
479	23.700	69.43	70.24	169.66	356.94	357.76	357.76
480	23.750	69.20	70.00	169.28	355.18	356.00	356.00
481	23.800	68.97	69.77	168.93	353.42	354.24	354.24
482	23.850	68.75	69.53	168.63	351.66	352.48	352.48
483	23.900	68.52	69.30	168.36	349.90	350.72	350.72
484	23.950	68.30	69.07	168.13	348.13	348.95	348.95
485	24.000	68.08	68.85	167.95	346.35	347.17	347.17
486	24.050	67.86	68.62	167.82	344.56	345.39	345.39
487	24.100	67.64	68.40	167.74	342.77	343.60	343.60
488	24.150	67.42	68.17	167.71	340.97	341.80	341.80
489	24.200	67.21	67.95	167.72	339.16	340.00	340.00
490	24.250	67.00	67.73	167.80	337.34	338.18	338.18
491	24.300	66.78	67.52	167.92	335.51	336.36	336.36
492	24.350	66.57	67.30	168.10	333.67	334.53	334.53
493	24.400	66.37	67.09	168.33	331.82	332.68	332.68
494	24.450	66.16	66.87	168.59	329.96	330.82	330.82
495	24.500	65.95	66.66	168.94	328.15	329.03	329.03
496	24.550	65.75	66.46	169.31	326.27	327.13	327.13
497	24.600	65.55	66.25	169.66	324.39	325.28	325.28
498	24.650	65.35	66.04	170.01	322.47	323.34	323.34
499	24.700	65.15	65.84	170.33	320.58	321.48	321.48
500	24.750	64.95	65.64	170.62	318.66	319.54	319.54
501	24.800	64.76	65.43	170.85	316.76	317.66	317.66
502	24.850	64.56	65.24	171.02	314.82	315.70	315.70
503	24.900	64.37	65.04	171.14	312.89	313.79	313.79
504	24.950	64.18	64.84	171.21	310.92	311.81	311.81
505	25.000	63.99	64.65	171.24	308.98	309.89	309.89
506	25.050	63.80	64.45	171.22	307.01	307.90	307.90
507	25.100	63.62	64.26	171.05	304.89	305.78	305.78
508	25.150	63.43	64.07	170.65	302.59	303.46	303.46
509	25.200	63.25	63.88	170.19	300.32	301.22	301.22
510	25.250	63.06	63.70	169.75	298.07	298.96	298.96
511	25.300	62.88	63.51	169.28	295.83	296.73	296.73
512	25.350	62.70	63.33	168.82	293.65	294.55	294.55
513	25.400	62.52	63.14	168.40	291.51	292.42	292.42
514	25.450	62.35	62.96	167.99	289.44	290.35	290.35
515	25.500	62.17	62.78	167.61	287.42	288.33	288.33
516	25.550	62.00	62.60	167.26	285.45	286.37	286.37
517	25.600	61.82	62.42	166.92	283.52	284.43	284.43
518	25.650	61.65	62.25	166.56	281.60	282.51	282.51
519	25.700	61.48	62.07	166.18	279.67	280.57	280.57
520	25.750	61.31	61.90	165.74	277.72	278.62	278.62
521	25.800	61.14	61.73	165.23	275.71	276.60	276.60
522	25.850	60.98	61.56	164.68	273.71	274.60	274.60
523	25.900	60.81	61.39	164.16	271.78	272.68	272.68
524	25.950	60.65	61.22	163.65	269.87	270.76	270.76
525	26.000	60.48	61.05	163.12	267.96	268.85	268.85
526	26.050	60.32	60.89	162.56	266.04	266.93	266.93
527	26.100	60.16	60.72	161.97	264.12	265.01	265.01
528	26.150	60.00	60.56	161.36	262.20	263.08	263.08
529	26.200	59.84	60.39	160.73	260.28	261.16	261.16
530	26.250	59.69	60.23	160.08	258.37	259.25	259.25
531	26.300	59.53	60.07	159.43	256.47	257.35	257.35
532	26.350	59.37	59.92	158.76	254.58	255.45	255.45
533	26.400	59.22	59.76	158.08	252.70	253.57	253.57
534	26.450	59.07	59.60	157.39	250.82	251.69	251.69
535	26.500	58.92	59.45	156.69	248.95	249.82	249.82
536	26.550	58.77	59.29	155.97	247.09	247.95	247.95
537	26.600	58.62	59.14	155.25	245.24	246.09	246.09
538	26.650	58.47	58.99	154.50	243.39	244.24	244.24
539	26.700	58.32	58.84	153.75	241.55	242.39	242.39
540	26.750	58.18	58.69	152.94	239.65	240.48	240.48
541	26.800	58.03	58.54	152.14	237.81	238.66	238.66
542	26.850	57.89	58.39	151.35	235.97	236.79	236.79
543	26.900	57.74	58.25	150.56	234.17	235.02	235.02
544	26.950	57.60	58.10	149.77	232.36	233.17	233.17
545	27.000	57.46	57.96	148.92	230.52	231.34	231.34
546	27.050	57.32	57.81	148.08	228.72	229.53	229.53
547	27.100	57.18	57.67	147.26	226.93	227.75	227.75
548	27.150	57.04	57.53	146.43	225.17	225.97	225.97
549	27.200	56.91	57.39	145.61	223.41	224.21	224.21
550	27.250	56.77	57.25	144.77	221.66	222.46	222.46

551	27.300	56.64	57.11	143.88	219.85	220.63	220.63
552	27.350	56.50	56.97	143.01	218.12	218.92	218.92
553	27.400	56.37	56.84	142.16	216.38	217.15	217.15
554	27.450	56.24	56.70	141.30	214.68	215.47	215.47
555	27.500	56.11	56.57	140.44	212.96	213.71	213.71
556	27.550	55.98	56.44	139.53	211.21	211.98	211.98
557	27.600	55.85	56.30	138.64	209.52	210.28	210.28
558	27.650	55.72	56.17	137.78	207.84	208.59	208.59
559	27.700	55.59	56.04	136.90	206.17	206.92	206.92
560	27.750	55.47	55.91	136.03	204.51	205.26	205.26
561	27.800	55.34	55.78	135.16	202.86	203.60	203.60
562	27.850	55.22	55.66	134.28	201.23	201.96	201.96
563	27.900	55.09	55.53	133.41	199.60	200.33	200.33
564	27.950	54.97	55.40	132.54	197.99	198.71	198.71
565	28.000	54.85	55.28	131.66	196.38	197.10	197.10
566	28.050	54.73	55.16	130.78	194.79	195.50	195.50
567	28.100	54.61	55.03	129.90	193.20	193.91	193.91
568	28.150	54.49	54.91	129.02	191.63	192.33	192.33
569	28.200	54.37	54.79	128.15	190.06	190.76	190.76
570	28.250	54.25	54.67	127.28	188.51	189.20	189.20
571	28.300	54.13	54.55	126.37	186.92	187.59	187.59
572	28.350	54.02	54.43	125.48	185.40	186.10	186.10
573	28.400	53.90	54.31	124.66	183.92	184.59	184.59
574	28.450	53.79	54.19	123.76	182.36	183.02	183.02
575	28.500	53.67	54.08	122.88	180.89	181.56	181.56
576	28.550	53.56	53.96	122.03	179.38	180.02	180.02
577	28.600	53.45	53.85	121.16	177.93	178.59	178.59
578	28.650	53.34	53.73	120.35	176.51	177.15	177.15
579	28.700	53.23	53.62	119.50	175.05	175.69	175.69
580	28.750	53.12	53.51	118.65	173.62	174.25	174.25
581	28.800	53.01	53.40	117.81	172.19	172.82	172.82
582	28.850	52.90	53.29	116.96	170.77	171.39	171.39
583	28.900	52.79	53.18	116.12	169.37	169.98	169.98
584	28.950	52.69	53.07	115.28	167.98	168.59	168.59
585	29.000	52.58	52.96	114.45	166.60	167.20	167.20
586	29.050	52.47	52.85	113.63	165.23	165.83	165.83
587	29.100	52.37	52.74	112.81	163.88	164.47	164.47
588	29.150	52.27	52.64	111.99	162.53	163.12	163.12
589	29.200	52.16	52.53	111.18	161.20	161.78	161.78
590	29.250	52.06	52.43	110.37	159.88	160.46	160.46
591	29.300	51.96	52.32	109.57	158.58	159.15	159.15
592	29.350	51.86	52.22	108.78	157.28	157.85	157.85
593	29.400	51.76	52.12	107.99	156.00	156.56	156.56
594	29.450	51.66	52.02	107.23	154.78	155.34	155.34
595	29.500	51.56	51.91	106.47	153.50	154.04	154.04
596	29.550	51.46	51.81	105.68	152.27	152.83	152.83
597	29.600	51.36	51.71	104.92	151.03	151.55	151.55
598	29.650	51.27	51.62	104.16	149.81	150.36	150.36
599	29.700	51.17	51.52	103.44	148.64	149.18	149.18
600	29.750	51.08	51.42	102.69	147.43	147.96	147.96
601	29.800	50.98	51.32	101.94	146.25	146.76	146.76
602	29.850	50.89	51.23	101.21	145.07	145.58	145.58
603	29.900	50.79	51.13	100.47	143.91	144.42	144.42
604	29.950	50.70	51.04	99.75	142.76	143.26	143.26
605	30.000	50.61	50.94	99.03	141.62	142.11	142.11
606	30.050	50.52	50.85	98.32	140.49	140.99	140.99
607	30.100	50.43	50.76	97.61	139.37	139.86	139.86
608	30.150	50.34	50.66	96.91	138.27	138.75	138.75
609	30.200	50.25	50.57	96.22	137.17	137.65	137.65
610	30.250	50.16	50.48	95.53	136.09	136.56	136.56
611	30.300	50.07	50.39	94.85	135.02	135.49	135.49
612	30.350	49.98	50.30	94.17	133.96	134.42	134.42
613	30.400	49.89	50.21	93.50	132.91	133.37	133.37
614	30.450	49.81	50.12	92.84	131.88	132.32	132.32
615	30.500	49.72	50.03	92.18	130.85	131.29	131.29
616	30.550	49.63	49.94	91.53	129.83	130.27	130.27
617	30.600	49.55	49.86	90.89	128.83	129.26	129.26
618	30.650	49.46	49.77	90.25	127.83	128.26	128.26
619	30.700	49.38	49.69	89.62	126.85	127.28	127.28
620	30.750	49.30	49.60	89.00	125.88	126.30	126.30
621	30.800	49.21	49.52	88.39	124.92	125.33	125.33
622	30.850	49.13	49.43	87.77	123.96	124.38	124.38
623	30.900	49.05	49.35	87.16	123.02	123.43	123.43
624	30.950	48.97	49.27	86.56	122.09	122.49	122.49
625	31.000	48.89	49.18	85.97	121.17	121.57	121.57
626	31.050	48.81	49.10	85.38	120.26	120.65	120.65
627	31.100	48.73	49.02	84.80	119.36	119.75	119.75
628	31.150	48.65	48.94	84.23	118.47	118.86	118.86
629	31.200	48.57	48.86	83.66	117.59	117.97	117.97
630	31.250	48.49	48.78	83.11	116.74	117.12	117.12
631	31.300	48.42	48.70	82.56	115.87	116.23	116.23
632	31.350	48.34	48.62	82.00	115.03	115.40	115.40
633	31.400	48.26	48.54	81.48	114.20	114.56	114.56
634	31.450	48.19	48.46	80.94	113.36	113.72	113.72
635	31.500	48.11	48.39	80.40	112.54	112.89	112.89
636	31.550	48.04	48.31	79.87	111.72	112.07	112.07
637	31.600	47.96	48.23	79.35	110.92	111.26	111.26
638	31.650	47.89	48.16	78.84	110.12	110.46	110.46
639	31.700	47.82	48.08	78.33	109.33	109.67	109.67
640	31.750	47.74	48.01	77.83	108.56	108.89	108.89
641	31.800	47.67	47.94	77.33	107.79	108.12	108.12
642	31.850	47.60	47.86	76.84	107.03	107.36	107.36
643	31.900	47.53	47.79	76.35	106.28	106.60	106.60
644	31.950	47.46	47.72	75.87	105.54	105.86	105.86
645	32.000	47.38	47.64	75.40	104.81	105.12	105.12

646	32.050	47.31	47.57	74.93	104.08	104.39	104.39
647	32.100	47.25	47.50	74.47	103.37	103.67	103.67
648	32.150	47.18	47.43	74.01	102.66	102.97	102.97
649	32.200	47.11	47.36	73.56	101.96	102.26	102.26
650	32.250	47.04	47.29	73.11	101.27	101.57	101.57
651	32.300	46.97	47.22	72.68	100.59	100.89	100.89
652	32.350	46.90	47.15	72.24	99.92	100.21	100.21
653	32.400	46.84	47.08	71.81	99.26	99.54	99.54
654	32.450	46.77	47.01	71.39	98.60	98.88	98.88
655	32.500	46.70	46.95	70.97	97.95	98.23	98.23
656	32.550	46.64	46.88	70.56	97.31	97.58	97.58
657	32.600	46.57	46.81	70.15	96.68	96.95	96.95
658	32.650	46.51	46.75	69.75	96.05	96.32	96.32
659	32.700	46.44	46.68	69.35	95.43	95.70	95.70
660	32.750	46.38	46.62	68.96	94.82	95.08	95.08
661	32.800	46.32	46.55	68.57	94.22	94.48	94.48
662	32.850	46.25	46.49	68.19	93.62	93.88	93.88
663	32.900	46.19	46.42	67.81	93.03	93.29	93.29
664	32.950	46.13	46.36	67.44	92.45	92.70	92.70
665	33.000	46.07	46.30	67.07	91.88	92.12	92.12
666	33.050	46.01	46.23	66.71	91.31	91.55	91.55
667	33.100	45.95	46.17	66.35	90.75	90.99	90.99
668	33.150	45.88	46.11	65.99	90.20	90.43	90.43
669	33.200	45.82	46.05	65.64	89.65	89.88	89.88
670	33.250	45.76	45.99	65.30	89.11	89.34	89.34
671	33.300	45.71	45.92	64.96	88.57	88.80	88.80
672	33.350	45.65	45.86	64.62	88.05	88.27	88.27
673	33.400	45.59	45.80	64.29	87.53	87.75	87.75
674	33.450	45.53	45.74	63.97	87.01	87.23	87.23
675	33.500	45.47	45.69	63.64	86.51	86.72	86.72
676	33.550	45.41	45.63	63.33	86.00	86.22	86.22
677	33.600	45.36	45.57	63.01	85.51	85.72	85.72
678	33.650	45.30	45.51	62.70	85.02	85.23	85.23
679	33.700	45.24	45.45	62.40	84.54	84.74	84.74
680	33.750	45.19	45.39	62.10	84.06	84.26	84.26
681	33.800	45.13	45.34	61.80	83.59	83.79	83.79
682	33.850	45.08	45.28	61.51	83.12	83.32	83.32
683	33.900	45.02	45.22	61.22	82.67	82.86	82.86
684	33.950	44.97	45.17	60.93	82.21	82.40	82.40
685	34.000	44.91	45.11	60.65	81.76	81.95	81.95
686	34.050	44.86	45.06	60.38	81.32	81.51	81.51
687	34.100	44.80	45.00	60.10	80.88	81.07	81.07
688	34.150	44.75	44.95	59.83	80.45	80.64	80.64
689	34.200	44.70	44.89	59.57	80.03	80.21	80.21
690	34.250	44.65	44.84	59.30	79.61	79.78	79.78
691	34.300	44.59	44.79	59.04	79.19	79.37	79.37
692	34.350	44.54	44.73	58.79	78.78	78.95	78.95
693	34.400	44.49	44.68	58.54	78.37	78.55	78.55
694	34.450	44.44	44.63	58.29	77.97	78.14	78.14
695	34.500	44.39	44.58	58.05	77.58	77.75	77.75
696	34.550	44.34	44.52	57.80	77.19	77.35	77.35
697	34.600	44.29	44.47	57.57	76.80	76.97	76.97
698	34.650	44.24	44.42	57.33	76.42	76.58	76.58
699	34.700	44.19	44.37	57.10	76.05	76.21	76.21
700	34.750	44.14	44.32	56.87	75.67	75.83	75.83
701	34.800	44.09	44.27	56.65	75.31	75.46	75.46
702	34.850	44.04	44.22	56.42	74.95	75.10	75.10
703	34.900	43.99	44.17	56.21	74.59	74.74	74.74
704	34.950	43.94	44.12	55.99	74.23	74.38	74.38
705	35.000	43.90	44.07	55.78	73.89	74.03	74.03
706	35.050	43.85	44.03	55.57	73.54	73.69	73.69
707	35.100	43.80	43.98	55.36	73.20	73.35	73.35
708	35.150	43.76	43.93	55.16	72.86	73.01	73.01
709	35.200	43.71	43.88	54.95	72.53	72.67	72.67
710	35.250	43.66	43.84	54.76	72.20	72.34	72.34
711	35.300	43.62	43.79	54.56	71.88	72.02	72.02
712	35.350	43.57	43.74	54.37	71.56	71.70	71.70
713	35.400	43.52	43.70	54.18	71.24	71.38	71.38
714	35.450	43.48	43.65	53.99	70.93	71.07	71.07
715	35.500	43.43	43.60	53.80	70.62	70.76	70.76
716	35.550	43.39	43.56	53.62	70.32	70.45	70.45
717	35.600	43.35	43.51	53.44	70.02	70.15	70.15
718	35.650	43.30	43.47	53.26	69.72	69.85	69.85
719	35.700	43.26	43.42	53.09	69.43	69.55	69.55
720	35.750	43.21	43.38	52.92	69.14	69.26	69.26
721	35.800	43.17	43.33	52.75	68.85	68.97	68.97
722	35.850	43.13	43.29	52.58	68.57	68.69	68.69
723	35.900	43.09	43.25	52.41	68.29	68.41	68.41
724	35.950	43.04	43.20	52.25	68.01	68.13	68.13
725	36.000	43.00	43.16	52.09	67.74	67.86	67.86
726	36.050	42.96	43.12	51.93	67.47	67.58	67.58
727	36.100	42.92	43.07	51.77	67.20	67.32	67.32
728	36.150	42.88	43.03	51.62	66.94	67.05	67.05
729	36.200	42.84	42.99	51.47	66.68	66.79	66.79
730	36.250	42.79	42.95	51.32	66.42	66.53	66.53
731	36.300	42.75	42.91	51.17	66.17	66.28	66.28
732	36.350	42.71	42.87	51.02	65.92	66.02	66.02
733	36.400	42.67	42.83	50.88	65.67	65.77	65.77
734	36.450	42.63	42.78	50.74	65.42	65.53	65.53
735	36.500	42.59	42.74	50.60	65.18	65.28	65.28
736	36.550	42.56	42.70	50.46	64.94	65.04	65.04
737	36.600	42.52	42.66	50.32	64.71	64.81	64.81
738	36.650	42.48	42.62	50.18	64.47	64.57	64.57
739	36.700	42.44	42.58	50.05	64.24	64.34	64.34
740	36.750	42.40	42.55	49.92	64.01	64.11	64.11

741	36.800	42.36	42.51	49.79	63.79	63.88	63.89
742	36.850	42.32	42.47	49.66	63.56	63.66	63.66
743	36.900	42.29	42.43	49.54	63.34	63.44	63.44
744	36.950	42.25	42.39	49.41	63.12	63.22	63.22
745	37.000	42.21	42.35	49.29	62.91	63.00	63.00
746	37.050	42.18	42.32	49.17	62.69	62.79	62.79
747	37.100	42.14	42.28	49.05	62.48	62.57	62.57
748	37.150	42.10	42.24	48.93	62.28	62.36	62.36
749	37.200	42.07	42.20	48.81	62.07	62.16	62.16
750	37.250	42.03	42.17	48.70	61.87	61.95	61.95
751	37.300	41.99	42.13	48.59	61.66	61.75	61.75
752	37.350	41.96	42.09	48.47	61.46	61.55	61.55
753	37.400	41.92	42.06	48.36	61.27	61.35	61.35
754	37.450	41.89	42.02	48.25	61.07	61.16	61.16
755	37.500	41.85	41.99	48.15	60.88	60.96	60.96
756	37.550	41.82	41.95	48.04	60.69	60.77	60.77
757	37.600	41.78	41.91	47.93	60.50	60.58	60.58
758	37.650	41.75	41.88	47.83	60.31	60.39	60.39
759	37.700	41.72	41.85	47.73	60.13	60.21	60.21
760	37.750	41.68	41.81	47.63	59.95	60.02	60.02
761	37.800	41.65	41.78	47.53	59.77	59.84	59.84
762	37.850	41.62	41.74	47.43	59.59	59.66	59.66
763	37.900	41.58	41.71	47.33	59.41	59.49	59.49
764	37.950	41.55	41.67	47.23	59.24	59.31	59.31
765	38.000	41.52	41.64	47.14	59.06	59.14	59.14
766	38.050	41.48	41.61	47.04	58.89	58.96	58.96
767	38.100	41.45	41.57	46.95	58.72	58.79	58.79
768	38.150	41.42	41.54	46.86	58.55	58.63	58.63
769	38.200	41.39	41.51	46.77	58.39	58.46	58.46
770	38.250	41.36	41.48	46.68	58.22	58.29	58.29
771	38.300	41.32	41.44	46.59	58.06	58.13	58.13
772	38.350	41.29	41.41	46.50	57.90	57.97	57.97
773	38.400	41.26	41.38	46.42	57.74	57.81	57.81
774	38.450	41.23	41.35	46.33	57.59	57.65	57.65
775	38.500	41.20	41.32	46.25	57.43	57.50	57.50
776	38.550	41.17	41.28	46.16	57.28	57.34	57.34
777	38.600	41.14	41.25	46.08	57.12	57.19	57.19
778	38.650	41.11	41.22	46.00	56.97	57.04	57.04
779	38.700	41.08	41.19	45.92	56.82	56.89	56.89
780	38.750	41.05	41.16	45.84	56.67	56.74	56.74
781	38.800	41.02	41.13	45.76	56.53	56.59	56.59
782	38.850	40.99	41.10	45.68	56.38	56.44	56.44
783	38.900	40.96	41.07	45.61	56.24	56.30	56.30
784	38.950	40.93	41.04	45.53	56.10	56.16	56.16
785	39.000	40.90	41.01	45.45	55.96	56.02	56.02
786	39.050	40.87	40.98	45.38	55.82	55.88	55.88
787	39.100	40.84	40.95	45.31	55.68	55.74	55.74
788	39.150	40.81	40.92	45.23	55.54	55.60	55.60
789	39.200	40.79	40.89	45.16	55.41	55.46	55.46
790	39.250	40.76	40.86	45.09	55.27	55.33	55.33
791	39.300	40.73	40.84	45.02	55.14	55.20	55.20
792	39.350	40.70	40.81	44.95	55.01	55.06	55.06
793	39.400	40.67	40.78	44.88	54.88	54.93	54.93
794	39.450	40.65	40.75	44.81	54.75	54.80	54.80
795	39.500	40.62	40.72	44.75	54.62	54.68	54.68
796	39.550	40.59	40.70	44.68	54.49	54.55	54.55
797	39.600	40.57	40.67	44.61	54.37	54.42	54.42
798	39.650	40.54	40.64	44.55	54.24	54.30	54.30
799	39.700	40.51	40.61	44.48	54.12	54.17	54.17
800	39.750	40.49	40.59	44.42	54.00	54.05	54.05
801	39.800	40.46	40.56	44.36	53.88	53.93	53.93
802	39.850	40.43	40.53	44.29	53.76	53.81	53.81
803	39.900	40.41	40.51	44.23	53.64	53.69	53.69
804	39.950	40.38	40.48	44.17	53.52	53.57	53.57
805	40.000	40.36	40.45	44.11	53.41	53.46	53.46
806	40.050	40.33	40.43	44.05	53.29	53.34	53.34
807	40.100	40.30	40.40	43.99	53.18	53.23	53.23
808	40.150	40.28	40.38	43.93	53.06	53.11	53.11
809	40.200	40.25	40.35	43.87	52.95	53.00	53.00
810	40.250	40.23	40.32	43.82	52.84	52.89	52.89
811	40.300	40.20	40.30	43.76	52.73	52.78	52.78
812	40.350	40.18	40.27	43.70	52.62	52.67	52.67
813	40.400	40.16	40.25	43.65	52.51	52.56	52.56
814	40.450	40.13	40.22	43.59	52.41	52.45	52.45
815	40.500	40.11	40.20	43.54	52.30	52.34	52.34
816	40.550	40.08	40.17	43.48	52.19	52.24	52.24
817	40.600	40.06	40.15	43.43	52.09	52.13	52.13
818	40.650	40.03	40.13	43.37	51.99	52.03	52.03
819	40.700	40.01	40.10	43.32	51.88	51.93	51.93
820	40.750	39.99	40.08	43.27	51.78	51.82	51.82
821	40.800	39.96	40.05	43.22	51.68	51.72	51.72
822	40.850	39.94	40.03	43.17	51.58	51.62	51.62
823	40.900	39.92	40.01	43.11	51.48	51.52	51.52
824	40.950	39.90	39.98	43.07	51.38	51.42	51.42
825	41.000	39.87	39.96	43.01	51.29	51.33	51.33
826	41.050	39.85	39.94	42.97	51.19	51.23	51.23
827	41.100	39.83	39.91	42.92	51.09	51.13	51.13
828	41.150	39.80	39.89	42.87	51.00	51.04	51.04
829	41.200	39.78	39.87	42.82	50.90	50.94	50.94
830	41.250	39.76	39.84	42.77	50.81	50.85	50.85
831	41.300	39.74	39.82	42.73	50.72	50.76	50.76
832	41.350	39.72	39.80	42.68	50.62	50.66	50.66
833	41.400	39.70	39.78	42.63	50.53	50.57	50.57
834	41.450	39.67	39.76	42.59	50.44	50.48	50.48
835	41.500	39.65	39.73	42.54	50.35	50.39	50.39

836	41.550	39.63	39.71	42.50	50.26	50.30	50.30
837	41.600	39.61	39.69	42.45	50.18	50.21	50.21
838	41.650	39.59	39.67	42.41	50.09	50.13	50.13
839	41.700	39.57	39.65	42.36	50.00	50.04	50.04
840	41.750	39.55	39.63	42.32	49.92	49.95	49.95
841	41.800	39.53	39.61	42.28	49.83	49.87	49.87
842	41.850	39.51	39.58	42.23	49.75	49.78	49.78
843	41.900	39.49	39.56	42.19	49.66	49.70	49.70
844	41.950	39.46	39.54	42.15	49.58	49.61	49.61
845	42.000	39.44	39.52	42.11	49.50	49.53	49.53
846	42.050	39.42	39.50	42.07	49.41	49.45	49.45
847	42.100	39.40	39.48	42.02	49.33	49.37	49.37
848	42.150	39.38	39.46	41.98	49.25	49.29	49.29
849	42.200	39.37	39.44	41.94	49.17	49.21	49.21
850	42.250	39.35	39.42	41.90	49.09	49.13	49.13
851	42.300	39.33	39.40	41.86	49.01	49.05	49.05
852	42.350	39.31	39.38	41.82	48.94	48.97	48.97
853	42.400	39.29	39.36	41.79	48.86	48.89	48.89
854	42.450	39.27	39.34	41.75	48.78	48.81	48.81
855	42.500	39.25	39.32	41.71	48.70	48.74	48.74
856	42.550	39.23	39.30	41.67	48.63	48.66	48.66
857	42.600	39.21	39.28	41.63	48.55	48.59	48.59
858	42.650	39.19	39.26	41.60	48.48	48.51	48.51
859	42.700	39.17	39.25	41.56	48.40	48.44	48.44
860	42.750	39.16	39.23	41.52	48.33	48.36	48.36
861	42.800	39.14	39.21	41.48	48.26	48.29	48.29
862	42.850	39.12	39.19	41.45	48.19	48.22	48.22
863	42.900	39.10	39.17	41.41	48.11	48.14	48.14
864	42.950	39.08	39.15	41.38	48.04	48.07	48.07
865	43.000	39.07	39.13	41.34	47.97	48.00	48.00
866	43.050	39.05	39.12	41.31	47.90	47.93	47.93
867	43.100	39.03	39.10	41.27	47.83	47.86	47.86
868	43.150	39.01	39.08	41.24	47.76	47.79	47.79
869	43.200	38.99	39.06	41.20	47.69	47.72	47.72
870	43.250	38.98	39.04	41.17	47.63	47.65	47.65
871	43.300	38.96	39.03	41.14	47.56	47.59	47.59
872	43.350	38.94	39.01	41.10	47.49	47.52	47.52
873	43.400	38.93	38.99	41.07	47.42	47.45	47.45
874	43.450	38.91	38.97	41.04	47.36	47.39	47.39
875	43.500	38.89	38.96	41.00	47.29	47.32	47.32
876	43.550	38.88	38.94	40.97	47.23	47.26	47.26
877	43.600	38.86	38.92	40.94	47.16	47.19	47.19
878	43.650	38.84	38.91	40.91	47.10	47.13	47.13
879	43.700	38.83	38.89	40.88	47.03	47.06	47.06
880	43.750	38.81	38.87	40.84	46.97	47.00	47.00
881	43.800	38.79	38.86	40.81	46.91	46.94	46.94
882	43.850	38.78	38.84	40.78	46.85	46.87	46.87
883	43.900	38.76	38.82	40.75	46.78	46.81	46.81
884	43.950	38.74	38.81	40.72	46.72	46.75	46.75
885	44.000	38.73	38.79	40.69	46.66	46.69	46.69
886	44.050	38.71	38.77	40.66	46.60	46.63	46.63
887	44.100	38.70	38.76	40.63	46.54	46.57	46.57
888	44.150	38.68	38.74	40.60	46.48	46.51	46.51
889	44.200	38.67	38.73	40.57	46.42	46.45	46.45
890	44.250	38.65	38.71	40.54	46.36	46.39	46.39
891	44.300	38.64	38.69	40.51	46.31	46.33	46.33
892	44.350	38.62	38.68	40.49	46.25	46.27	46.27
893	44.400	38.61	38.66	40.46	46.19	46.21	46.21
894	44.450	38.59	38.65	40.43	46.13	46.16	46.16
895	44.500	38.57	38.63	40.40	46.08	46.10	46.10
896	44.550	38.56	38.62	40.37	46.02	46.04	46.04
897	44.600	38.55	38.60	40.35	45.96	45.99	45.99
898	44.650	38.53	38.59	40.32	45.91	45.93	45.93
899	44.700	38.52	38.57	40.29	45.85	45.88	45.88
900	44.750	38.50	38.56	40.26	45.80	45.82	45.82
901	44.800	38.49	38.54	40.24	45.74	45.77	45.77
902	44.850	38.47	38.53	40.21	45.69	45.71	45.71
903	44.900	38.46	38.51	40.18	45.63	45.66	45.66
904	44.950	38.44	38.50	40.16	45.58	45.60	45.60
905	45.000	38.43	38.49	40.13	45.53	45.55	45.55
906	45.050	38.42	38.47	40.11	45.48	45.50	45.50
907	45.100	38.40	38.46	40.08	45.42	45.45	45.45
908	45.150	38.39	38.44	40.06	45.37	45.39	45.39
909	45.200	38.37	38.43	40.03	45.32	45.34	45.34
910	45.250	38.36	38.41	40.01	45.27	45.29	45.29
911	45.300	38.35	38.40	39.98	45.22	45.24	45.24
912	45.350	38.33	38.39	39.96	45.17	45.19	45.19
913	45.400	38.32	38.37	39.93	45.12	45.14	45.14
914	45.450	38.31	38.36	39.91	45.07	45.09	45.09
915	45.500	38.29	38.34	39.88	45.02	45.04	45.04
916	45.550	38.28	38.33	39.86	44.97	44.99	44.99
917	45.600	38.27	38.32	39.83	44.92	44.94	44.94
918	45.650	38.25	38.30	39.81	44.87	44.89	44.89
919	45.700	38.24	38.29	39.79	44.82	44.85	44.85
920	45.750	38.23	38.28	39.76	44.78	44.80	44.80
921	45.800	38.22	38.26	39.74	44.73	44.75	44.75
922	45.850	38.20	38.25	39.72	44.68	44.70	44.70
923	45.900	38.19	38.24	39.70	44.64	44.66	44.66
924	45.950	38.18	38.23	39.67	44.59	44.61	44.61
925	46.000	38.16	38.21	39.65	44.54	44.56	44.56
926	46.050	38.15	38.20	39.63	44.50	44.52	44.52
927	46.100	38.14	38.19	39.61	44.45	44.47	44.47
928	46.150	38.13	38.17	39.58	44.41	44.43	44.43
929	46.200	38.12	38.16	39.56	44.36	44.38	44.38
930	46.250	38.10	38.15	39.54	44.32	44.34	44.34

931	46.300	38.09	38.14	39.52	44.27	44.29	44.29
932	46.350	38.08	38.13	39.50	44.23	44.25	44.25
933	46.400	38.07	38.11	39.48	44.18	44.20	44.20
934	46.450	38.05	38.10	39.45	44.14	44.16	44.16
935	46.500	38.04	38.09	39.43	44.10	44.12	44.12
936	46.550	38.03	38.08	39.41	44.05	44.07	44.07
937	46.600	38.02	38.06	39.39	44.01	44.03	44.03
938	46.650	38.01	38.05	39.37	43.97	43.99	43.99
939	46.700	38.00	38.04	39.35	43.93	43.94	43.94
940	46.750	37.99	38.03	39.33	43.89	43.90	43.90
941	46.800	37.97	38.02	39.31	43.84	43.86	43.86
942	46.850	37.96	38.01	39.29	43.80	43.82	43.82
943	46.900	37.95	37.99	39.27	43.76	43.78	43.78
944	46.950	37.94	37.98	39.25	43.72	43.74	43.74
945	47.000	37.93	37.97	39.23	43.68	43.70	43.70
946	47.050	37.92	37.96	39.21	43.64	43.66	43.66
947	47.100	37.91	37.95	39.19	43.60	43.62	43.62
948	47.150	37.90	37.94	39.17	43.56	43.58	43.58
949	47.200	37.88	37.93	39.15	43.52	43.54	43.54
950	47.250	37.87	37.92	39.13	43.48	43.50	43.50
951	47.300	37.86	37.90	39.11	43.44	43.46	43.46
952	47.350	37.85	37.89	39.10	43.40	43.42	43.42
953	47.400	37.84	37.88	39.08	43.36	43.38	43.38
954	47.450	37.83	37.87	39.06	43.33	43.34	43.34
955	47.500	37.82	37.86	39.04	43.29	43.30	43.30
956	47.550	37.81	37.85	39.02	43.25	43.27	43.27
957	47.600	37.80	37.84	39.00	43.21	43.23	43.23
958	47.650	37.79	37.83	38.99	43.18	43.19	43.19
959	47.700	37.78	37.82	38.97	43.14	43.15	43.15
960	47.750	37.77	37.81	38.95	43.10	43.12	43.12
961	47.800	37.76	37.80	38.93	43.07	43.08	43.08
962	47.850	37.75	37.79	38.91	43.03	43.04	43.04
963	47.900	37.74	37.78	38.90	42.99	43.01	43.01
964	47.950	37.73	37.77	38.88	42.96	42.97	42.97
965	48.000	37.72	37.76	38.86	42.92	42.94	42.94
966	48.050	37.71	37.75	38.85	42.89	42.90	42.90
967	48.100	37.70	37.74	38.83	42.85	42.87	42.87
968	48.150	37.69	37.73	38.81	42.82	42.83	42.83
969	48.200	37.68	37.72	38.79	42.78	42.80	42.80
970	48.250	37.67	37.71	38.78	42.75	42.76	42.76
971	48.300	37.66	37.70	38.76	42.71	42.73	42.73
972	48.350	37.65	37.69	38.74	42.68	42.69	42.69
973	48.400	37.64	37.68	38.73	42.64	42.66	42.66
974	48.450	37.63	37.67	38.71	42.61	42.62	42.62
975	48.500	37.62	37.66	38.70	42.58	42.59	42.59
976	48.550	37.61	37.65	38.68	42.54	42.56	42.56
977	48.600	37.60	37.64	38.66	42.51	42.52	42.52
978	48.650	37.59	37.63	38.65	42.48	42.49	42.49
979	48.700	37.58	37.62	38.63	42.45	42.46	42.46
980	48.750	37.58	37.61	38.62	42.41	42.43	42.43
981	48.800	37.57	37.60	38.60	42.38	42.39	42.39
982	48.850	37.56	37.59	38.59	42.35	42.36	42.36
983	48.900	37.55	37.58	38.57	42.32	42.33	42.33
984	48.950	37.54	37.57	38.56	42.28	42.30	42.30
985	49.000	37.53	37.57	38.54	42.25	42.27	42.27
986	49.050	37.52	37.56	38.53	42.22	42.24	42.24
987	49.100	37.51	37.55	38.51	42.19	42.20	42.20
988	49.150	37.51	37.54	38.50	42.16	42.17	42.17
989	49.200	37.50	37.53	38.48	42.13	42.14	42.14
990	49.250	37.49	37.52	38.47	42.10	42.11	42.11
991	49.300	37.48	37.51	38.45	42.07	42.08	42.08
992	49.350	37.47	37.50	38.44	42.04	42.05	42.05
993	49.400	37.46	37.50	38.42	42.01	42.02	42.02
994	49.450	37.45	37.49	38.41	41.98	41.99	41.99
995	49.500	37.45	37.48	38.39	41.95	41.96	41.96
996	49.550	37.44	37.47	38.38	41.92	41.93	41.93
997	49.600	37.43	37.46	38.37	41.89	41.90	41.90
998	49.650	37.42	37.45	38.35	41.86	41.87	41.87
999	49.700	37.41	37.44	38.34	41.83	41.84	41.84
1000	49.750	37.40	37.44	38.32	41.80	41.82	41.82
1001	49.800	37.40	37.43	38.31	41.77	41.79	41.79
1002	49.850	37.39	37.42	38.30	41.75	41.76	41.76
1003	49.900	37.38	37.41	38.28	41.72	41.73	41.73
1004	49.950	37.37	37.40	38.27	41.69	41.70	41.70

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 1
BELOW JOCASSEE HYDRO-M1 AT MILE 10

GAGE ZERO = 746.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 1089.97 FEET
FLOOD STAGE = 363.00 FEET
MAX STAGE = 343.97 FEET AT TIME = .000 HOURS
MAX FLOW = 1933765 CFS AT TIME = 4.000 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	500000	1000000	1500000	2000000	2500000
0	344.0	26600	.	.	.	.	.	.
2	342.0	294568	.	.	.	.	.	.
4	316.1	1933765	.	.	.	.	.	.
6	275.0	1059434	.	.	.	.	.	.
8	248.0	624282	.	.	.	.	.	.
10	229.9	392784	.	.	.	.	.	.
12	217.6	264029	.	.	.	.	.	.
14	209.4	189625	.	.	.	.	.	.
16	203.6	143890	.	.	.	.	.	.
18	199.4	113623	.	.	.	.	.	.
20	196.2	92957	.	.	.	.	.	.
22	193.8	78467	.	.	.	.	.	.
24	192.0	68077	.	.	.	.	.	.
26	190.6	60483	.	.	.	.	.	.
28	189.5	54847	.	.	.	.	.	.
30	188.7	50608	.	.	.	.	.	.
32	188.0	47384	.	.	.	.	.	.
34	187.5	44912	.	.	.	.	.	.
36	187.1	43001	.	.	.	.	.	.
38	186.8	41516	.	.	.	.	.	.
40	186.6	40355	.	.	.	.	.	.
42	186.4	39445	.	.	.	.	.	.
44	186.2	38729	.	.	.	.	.	.
46	186.1	38164	.	.	.	.	.	.
48	186.0	37718	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 13
BELOW JOCASSEE HYDRO-M1 AT MILE 1.32

GAGE ZERO = 731.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 832.42 FEET
FLOOD STAGE = 69.00 FEET
MAX STAGE = 101.42 FEET AT TIME = 4.750 HOURS
MAX FLOW = 1835879 CFS AT TIME = 4.050 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	500000	1000000	1500000	2000000	2500000
0	66.0	26619	.	.	.	.	.	.
2	68.2	273504	.	.	.	.	.	.
4	95.9	1812577	.	.	.	.	.	.
6	96.6	1085519	.	.	.	.	.	.
8	88.4	665818	.	.	.	.	.	.
10	72.2	415236	.	.	.	.	.	.
12	62.2	282343	.	.	.	.	.	.
14	52.2	204428	.	.	.	.	.	.
16	40.5	155289	.	.	.	.	.	.
18	31.7	120347	.	.	.	.	.	.
20	25.2	95700	.	.	.	.	.	.
22	21.9	79661	.	.	.	.	.	.
24	20.5	68846	.	.	.	.	.	.
26	19.6	61051	.	.	.	.	.	.
28	19.0	55279	.	.	.	.	.	.
30	18.4	50942	.	.	.	.	.	.
32	18.0	47643	.	.	.	.	.	.
34	17.7	45113	.	.	.	.	.	.
36	17.4	43160	.	.	.	.	.	.
38	17.2	41641	.	.	.	.	.	.
40	17.0	40453	.	.	.	.	.	.
42	16.9	39522	.	.	.	.	.	.
44	16.8	38790	.	.	.	.	.	.
46	16.7	38213	.	.	.	.	.	.
48	16.7	37757	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 73
BELOW JOCASSET HYDRO-M1 AT MILE 13.90

GAGE ZERO = 548.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 816.89 FEET
FLOOD STAGE = 152.00 FEET
MAX STAGE = 168.89 FEET AT TIME = 6.450 HOURS
MAX FLOW = 1848094 CFS AT TIME = 7.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	500000	1000000	1500000	2000000	2500000
0	148.6	105611	.	.	.	.	.	.
1	148.5	59787	.	.	.	.	.	.
2	148.7	63132	.	.	.	.	.	.
3	151.5	356727	.	.	.	.	.	.
4	157.3	761516	.	.	.	.	.	.
5	164.0	965148	.	.	.	.	.	.
6	168.3	847386	.	.	.	.	.	.
7	167.3	1282167	.	.	.	.	.	.
8	159.0	1627757	.	.	.	.	.	.
9	154.4	1032065	.	.	.	.	.	.
10	150.1	827724	.	.	.	.	.	.
11	145.7	726919	.	.	.	.	.	.
12	140.9	668765	.	.	.	.	.	.
13	136.1	591140	.	.	.	.	.	.
14	131.3	520291	.	.	.	.	.	.
15	123.8	466211	.	.	.	.	.	.
16	118.8	409885	.	.	.	.	.	.
17	113.7	359465	.	.	.	.	.	.
18	108.8	314874	.	.	.	.	.	.
19	104.2	278573	.	.	.	.	.	.
20	99.8	246845	.	.	.	.	.	.
21	95.5	219500	.	.	.	.	.	.
22	91.5	196559	.	.	.	.	.	.
23	87.7	177991	.	.	.	.	.	.
24	83.8	167954	.	.	.	.	.	.
25	79.5	171236	.	.	.	.	.	.
26	74.7	163118	.	.	.	.	.	.
27	69.9	148915	.	.	.	.	.	.
28	65.2	131656	.	.	.	.	.	.
29	60.9	114452	.	.	.	.	.	.
30	57.1	99027	.	.	.	.	.	.
31	53.7	85968	.	.	.	.	.	.
32	50.9	75396	.	.	.	.	.	.
33	48.5	67067	.	.	.	.	.	.
34	46.6	60651	.	.	.	.	.	.
35	45.0	55775	.	.	.	.	.	.
36	43.7	52088	.	.	.	.	.	.
37	42.7	49289	.	.	.	.	.	.
38	41.9	47138	.	.	.	.	.	.
39	41.2	45454	.	.	.	.	.	.
40	40.6	44109	.	.	.	.	.	.
41	40.1	43014	.	.	.	.	.	.
42	39.6	42106	.	.	.	.	.	.
43	39.3	41342	.	.	.	.	.	.
44	39.0	40691	.	.	.	.	.	.
45	38.7	40133	.	.	.	.	.	.
46	38.4	39649	.	.	.	.	.	.
47	38.2	39229	.	.	.	.	.	.
48	38.0	38862	.	.	.	.	.	.
49	37.9	38540	.	.	.	.	.	.

DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 74
BELOW JOCASSEE HYDRO-M1 AT MILE 14.10

GAGE ZERO = 647.40 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 816.96 FEET
FLOOD STAGE = 152.60 FEET
MAX STAGE = 169.56 FEET AT TIME = 6.430 HOURS
MAX FLOW = 2918152 CFS AT TIME = 7.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	149.3	37455	.	.	.	.	.	.
2	149.3	20801	.	.	.	.	.	.
4	158.1	153558	.	.	.	.	.	.
6	169.0	244875	.	.	.	.	.	.
8	157.7	2490110	.	.	.	.	.	.
10	149.9	1387883	.	.	.	.	.	.
12	140.7	1181402	.	.	.	.	.	.
14	130.9	1025343	.	.	.	.	.	.
16	118.6	717768	.	.	.	.	.	.
18	108.6	600415	.	.	.	.	.	.
20	99.4	501393	.	.	.	.	.	.
22	91.1	418455	.	.	.	.	.	.
24	83.4	346348	.	.	.	.	.	.
26	74.5	267952	.	.	.	.	.	.
28	65.1	196378	.	.	.	.	.	.
30	57.1	141615	.	.	.	.	.	.
32	51.0	104804	.	.	.	.	.	.
34	46.7	81761	.	.	.	.	.	.
36	43.9	67738	.	.	.	.	.	.
38	42.1	59062
40	40.9	53406
42	40.0	49495
44	39.3	46662
46	38.8	44542
48	38.4	42921

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE ... STATION NUMBER 75
BELOW JOCASSEE HYDRO-M1 AT MILE 14.20

GAGE ZERO = 647.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 816.94 FEET
FLOOD STAGE = 153.00 FEET
MAX STAGE = 169.94 FEET AT TIME = 6.400 HOURS
MAX FLOW = 2925200 CFS AT TIME = 7.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	149.7	19500	.	.	.	.	.	.
2	149.7	19500	.	.	.	.	.	.
4	158.5	149260	.	.	.	.	.	.
6	169.4	243602	.	.	.	.	.	.
8	158.0	2491265	.	.	.	.	.	.
10	150.2	1389929	.	.	.	.	.	.
12	141.0	1184019	.	.	.	.	.	.
14	131.3	1027705	.	.	.	.	.	.
16	119.0	719872	.	.	.	.	.	.
18	108.9	602047	.	.	.	.	.	.
20	99.7	502609	.	.	.	.	.	.
22	91.5	419354	.	.	.	.	.	.
24	83.8	347173	.	.	.	.	.	.
26	74.9	268845	.	.	.	.	.	.
28	65.5	197096	.	.	.	.	.	.
30	57.4	142110	.	.	.	.	.	.
32	51.3	105118	.	.	.	.	.	.
34	47.1	81952	.	.	.	.	.	.
36	44.3	67854	.	.	.	.	.	.
38	42.5	59135
40	41.2	53456
42	40.3	49530
44	39.7	46488
46	39.2	44562
48	38.8	42937

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DISCHARGE HYDROGRAPH FOR JOC/KEO FAILURE . . . STATION NUMBER 76
 BELOW JOCASSEE HYDRO-M1 AT MILE 14.80

GAGE ZERO = 646.00 FEET MAX ELEVATION REACHED BY FLOOD WAVE = 792.18 FEET
 FLOOD STAGE = 23.00 FEET
 MAX STAGE = 146.18 FEET AT TIME = 8.700 HOURS
 MAX FLOW = 2925200 CFS AT TIME = 7.750 HOURS

TIME HR	STAGE FEET	FLOW CFS	0	1000000	2000000	3000000	4000000	5000000
0	21.2	19500	.	.	.	.	.	.
2	21.2	19500	.	.	.	.	.	.
4	42.6	149260	.	.	.	.	.	.
6	52.4	243602	.	.	.	.	.	.
8	141.0	2491265	.	.	.	.	.	.
10	142.2	1389929	.	.	.	.	.	.
12	132.3	1184019	.	.	.	.	.	.
14	124.6	1027705	.	.	.	.	.	.
16	111.4	719872	.	.	.	.	.	.
18	102.1	602047	.	.	.	.	.	.
20	94.5	502609	.	.	.	.	.	.
22	87.6	419354	.	.	.	.	.	.
24	81.0	347173	.	.	.	.	.	.
26	73.0	268845	.	.	.	.	.	.
28	62.7	197096	.	.	.	.	.	.
30	52.2	142110	.	.	.	.	.	.
32	44.3	105118	.	.	.	.	.	.
34	38.7	81952	.	.	.	.	.	.
36	35.3	67854	.	.	.	.	.	.
38	33.2	59135	.	.	.	.	.	.
40	31.7	53456	.	.	.	.	.	.
42	30.7	49530	.	.	.	.	.	.
44	29.9	46688	.	.	.	.	.	.
46	29.2	44562	.	.	.	.	.	.
48	28.7	42937	.	.	.	.	.	.