MCNP5 Calculations Replicating ARH-600 Nitrate Data

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

CH2MHILL

Plateau Remediation Company

**P.O. Box 1600
Richland, Washington 99352**

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August 2011

Prepared by: MB Murphy and SH Finfrock
for
CH2M HILL Plateau Remediation Company
Richland, Washington

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1.0 INTRODUCTION

This report serves to extend the previous document: “MCNP Calculations Replicating ARH-600 Data” by replicating the nitrate curves found in ARH-600. This report includes the MCNP models used, the calculated critical dimension for each analyzed parameter set, and the resulting data libraries for use with the CritView code. As with the ARH-600 data, this report is not meant to replace the analysis of the fissile systems by qualified criticality personnel. The MCNP data is presented without accounting for the statistical uncertainty (although this is typically less than 0.001) or bias and, as such, the application of a reasonable safety margin is required.

The data that follows pertains to the uranyl nitrate and plutonium nitrate spheres, infinite cylinders, and infinite slabs of varying isotopic composition, reflector thickness, and molarity. Each of the cases was modeled in MCNP (version 5.1.40), using the ENDF/B-VI cross section set. Given a molarity, isotopic composition, and reflector thickness, the fissile concentration and diameter (or thicknesses in the case of the slab geometries) were varied. The diameter for which k -effective equals 1.00 for a given concentration could then be calculated and graphed. These graphs are included in this report. The pages that follow describe the regions modeled, formulas for calculating the various parameters, a list of cross-sections used in the calculations, a description of the automation routine and data, and finally the data output.

The data of most interest are the critical dimensions of the various systems analyzed. This is presented graphically, and in table format, in Appendix B. Appendix C provides a text listing of the same data in a format that is compatible with the CritView code. Appendices D and E provide listing of example Template files and MCNP input files (these are discussed further in Section 4). Appendix F is a complete listing of all of the output data (i.e., all of the analyzed dimensions and the resulting k_{eff} values).

2.0 APPROACH

Each nuclear system model consists of two regions – the fissile region and the reflector region (in some cases the reflector has a zero thickness and is effectively absent). The outside edge of the reflector region (or fissile region in the cases without a reflector) was treated as a vacuum boundary. For each region, the material composition, density (which was calculated), and geometry were specified.

For the fissile region, the material was listed as a uranium/plutonium salt-water mixture (for more information on material composition, see the calculations section below). The density of the region was taken as the density calculated by SCALE 6 (ORNL/TM-2005/38 Version 6, Vol. III) (which includes a module for calculating the density of a solution). The geometry was either a sphere or infinite cylinder centered at the origin with radius rd , or an infinite slab symmetric about $y = 0$ with boundaries of $y = \pm rd$.

For the reflector region, the material composition was listed as pure light water (^1H and ^{16}O) and the density was assumed to simply be 1.0 g/cc. Material fractions were calculated as shown below in the calculations section. The geometry of this second region was a sphere or cylindrical shell concentric with the fissile region with radius between rd and $rd+rw$, or two slabs located between either $y = rd$ and $y = rd+rw$, or $y = -rd$ and $y = -rd-rw$.

When running a model of a nuclear system in MCNP, the density of the regions described above must be taken into consideration, as well as the atomic weights of the materials in the mixture. The calculations for determining these values can be found in the next section. Also provided in the next section are the MCNP cross-section identifiers used in the calculations.

3.0 CALCULATIONS

3.1 CALCULATION OF MOLARITIES FOR THE FISSILE SOLUTION

The MCNP models require the density of each material, and the atom fraction (or weight fraction) of each isotope in that material. The parametric analyses discussed in this document start from a specific material (with a fixed molarity of excess acid). A range of arbitrary fissile concentrations is then selected (based on the expected range of the curve and the degree of non-linearity). The density of the material (ρ_{sol}) at each concentration is calculated (see Section 3.3). From this information, it is possible to calculate the molarity of the fissile compound, and of water, in the solution.

Calculation of Molarities(g/L)

Fissile salt:

$$M_{salt} = \frac{c}{atw_{fis}} \dots \dots \dots \text{Equation 3.1 - 1}$$

- $c = \text{Concentration of plutonium or uranium } [\frac{g}{L}]$
- $atw_{fis} = \text{Atomic weight of plutonium or uranium } [\frac{g}{mol}]$

$$M_{H_2O} = \frac{\rho_{sol} - M_{salt} * atw_{salt} - M_{acid} * atw_{acid}}{atw_{water}} \dots \dots \dots \text{Equation 3.1 - 2}$$

Atomic Weights Used in Calculations

Table 1. Atomic Weights of both Elements and Compounds used in the calculations
Atomic weight in amu

Elements		Compounds	
Element	Atomic Weight	Compound	Atomic Weight

Hydrogen	1.0079	H ₂ O	18.0152
Oxygen	15.9994	HNO ₃	63.0128
Nitrogen	14.0067	NO ₃	62.0049
²³⁹ Pu	239.0522		
²⁴⁰ Pu	240.0538		
²³⁵ U	235.0439		
²³⁸ U	238.0508		

Note that, for the mixtures of different fissile isotopes, the atomic weight was calculated using a weighted average.

3.2 CALCULATIONS OF ATOM FRACTIONS FOR THE FISSILE SOLUTION

Once the molarities of the components are known, it is possible to calculate the atom fractions of the various isotopes included in the solution. Note that MCNP normalizes all atom fractions to 100 percent. For simplicity, therefore, the “atom fraction” for MCNP is taken to be the molarity of the isotope in question - MCNP will normalize them relative to the total. Also note that MCNP5 can take weight fraction or atomic weights as the parameter on the material card. Atomic weights were chosen for the nitrates to simplify the calculations. In the below calculations, the fissile salt formula is: $X(NO_3)_y$.

Atomic Fraction of Fissile Material:

$$AFFS = M_{fissile} * ena \dots\dots\dots \text{Equation 3.2 – 1}$$

- $AFFS$ = Atomic Fraction of Fissile Isotope
- $M_{fissile}$ = Molarity of fissile isotope.
- ena = enrichment of the Uranium or Plutonium

Atomic Fraction of Fertile Material:

$$AFF = M_{fissile} * (1 - ena) \dots\dots\dots \text{Equation 3.2 – 2}$$

- AFF = Atomic Fraction of Fertile Isotope

Atomic Fraction of Nitrogen in Acid:

$$AFN = y * M_{salt} + M_{acid} \dots\dots\dots \text{Equation 3.2 – 3}$$

- AFN = Atomic Fraction of Nitrogen

Atomic Fraction of Oxygen in Acid:

$$AFOA = 3y * M_{salt} + 3 * M_{acid} \dots\dots\dots \text{Equation 3.2 – 4}$$

- $AFOA$ = Atomic Fraction of Oxygen in Acid

Atomic Fraction of Oxygen in Water:

$$AFO = M_{H_2O} \dots\dots\dots \text{Equation 3.2 – 5}$$

- *AFO = Atomic Fraction of Oxygen in Water*

Atomic Fraction of Hydrogen:

$$AFH = 2 * M_{water} + M_{acid} \dots \dots \dots \text{Equation 3.2} - 6$$

- *AFH = Atomic Fraction of Hydrogen*
* Note that the molarity of the acid appears due to the free hydrogen ion arising out of the dissociation of the HNO₃ in the solution.

3.3 SOLUTION DENSITY

In order to accurately model the nitrate solutions, it is necessary to know the density of the solution. Even when the concentration of the fissile material has been arbitrarily set (as is done in this report) the reactivity is heavily affected by the solution density due to the moderation and absorption properties of the water in the solution.

Calculating the density of a nitrate solution (based on only fissile concentration and acid molarity) is a difficult proposition at best. It is further complicated by the fact that, as the solution approaches and exceeds the solubility limit, the material becomes a mixture that may consist of some combination of solution, precipitate, and polymers. Such a mixture can be sufficiently heterogeneous that it cannot be modeled adequately using MCNP.

In the original ARH-600 analyses, the density for each case was determined via an equation (see Section 3.4) that was determined empirically. This method was extended across the entire range of concentrations of interest, in many cases extending far beyond the solubility limit of the fissile component. It is difficult to determine if the data in this range is even approximately accurate, much less bounding.

In recent years there have been analytical solutions presented to solve the density problem. Some of these are discussed in Section M7.A.1 of the SCALE 6 manual (ORNL/TM-2005/38 Version 6, Vol. III). One of these, the Pitzer method, has been implemented by the SCALE6 code.

For the purposes of the analyses in this document, the solution density of all cases of interest were determined using the Pitzer method as implemented by the SCALE 6 code. It is important to note that this method does not provide a density value for fissile concentrations beyond the solubility limit. This document, therefore, does not present any data beyond that point (which is different for every curve). In many cases, therefore, the curves presented in this document end at a much lower concentration than the corresponding ARH-600 curves. In some cases (particularly for low enriched uranium) the solubility limit is so low that the resulting curves are of little value.

3.4 ARH-600 EQUATIONS

The ARH-600 document provides the equations for calculating H/X and density for both the plutonium and uranium solutions. These equations are empirical in nature and may not account for polymerization or precipitation and, therefore, may not be reliable beyond the saturation point of the solution. For that reason these equations were not used in this analysis but are included for completeness.

ARH-600 formula for calculating H/X of a nitrate solution

$$\frac{H}{U} = \frac{\frac{26089 - 600.2M_{acid}}{c} - 8.3467}{f_{235} + .98736f_{238}} \dots \dots \dots \text{Equation 3.4 - 1}$$

- M_{acid} = Molarity of the Acid,
- f_{235} = weight fraction of Uranium 235, and
- f_{238} = weight fraction of Uranium 238.

$$\frac{H}{Pu} = \frac{\frac{26535 - 638.5M_{acid}}{c} - 9.605}{f_{239} + .99583f_{240}} \dots \dots \dots \text{Equation 3.4 - 2}$$

- f_{239} = weight fraction of Plutonium 239, and
- f_{240} = weight fraction of Plutonium 240.

The above equations are taken from the ARH600 handbook in Sections II.D.3-1 and II.C.3-3, respectively.

Once the molarity of the salt (see Section 3.1), the molarity of the acid, and the H/X are known, then the molarity of hydrogen, the molarity of the water, and the density of the solution can be determined as follows:

$$M_H = \left(\frac{H}{X}\right) * M_{fissile} \dots \dots \dots \text{Equation 3.4 - 3}$$

$$M_{water} = \frac{M_H - M_{acid}}{2} \dots \dots \dots \text{Equation 3.4 - 4}$$

$$\rho_{sol} = M_{salt} * atw_{salt} + M_{water} * atw_{water} + M_{acid} * atw_{acid} \dots \dots \dots \text{Equation 3.4 - 5}$$

3.5 LIST OF MCNP5 CROSS-SECTION LIBRARIES USED IN MODEL

- 1001.66c - The cross section from the endf66 library modeling ^1H .
- 7014.66c - The cross section from the endf66 library modeling ^{14}N .
- 8016.66c - The cross section from the endf66 library modeling ^{16}O .

- 92235.66c - The cross section from the endf66 library modeling ^{235}U .
- 92238.66c - The cross section from the endf66 library modeling ^{238}U .
- 94239.66c - The cross section from the endf66 library modeling ^{239}Pu .
- 94240.66c - The cross section from the endf66 library modeling ^{240}Pu .
- Lwtr.60t- S(α,β) cross section from the endf6.3 library modeling H_2O .

4.0 AUTOMATION ROUTINE

The various systems modeled for this handbook were categorized as a set of specific values for five parameters: fissile material, excess acid molarity, geometry, enrichment, and reflector thickness. For each such set, a range of concentrations were considered, and for each concentration, a range of diameters (or thicknesses in the case of slabs) was analyzed with MCNP. From the resulting library of data, the diameter for which k_{eff} equals one for a given concentration was calculated using a linear interpolation for each data set. Many thousands of individual cases were required to produce these results for the ARH-600 conditions analyzed. In order to create, run, and evaluate all of these cases in an efficient manner, an automation routine was developed. The automation routine consists of batch files written in disk operating system (DOS) script language, executable files written in Fortran, and a routine written with Perl called “worm” (worm was written and distributed by Tom Jones). The batch files were named buildwormset-nitrate, run-set, and extract-all. Buildwormset-nitrate was used to create the various input files for each molarity, isotopic composition, and reflector width. Run-set was used to submit these sets to a queue, the queue being a list of files for which the computers assigned to the calculations would run. All MCNP calculations were conducted on computers for which MCNP verification test cases have been successfully run. Once an MCNP run was completed, local queuing software pulled the name of the next file out of the queue to run. Finally, once all of the sets were run, the extract-all batch file took the large amount of data output and consolidated it into a critview output file.

5.0 DESCRIPTION OF THE DATA

The data contained in this manual are arranged such that for each parameter set, there is a graph of the critical diameter vs. concentration in Appendix B. This same data is also presented as a table (also in Appendix B), and as a text listing, in Appendix C, that is in a format compatible with the CritView (version 1.02) electronic handbook code. Appendix D presents the template files that were used by the worm script to produce the MCNP input files for that set. A sample input file for each case, produced by the worm script, is shown in Appendix E. Appendix F lists all of the raw data results (i.e., the dimensions for cases where k ranged from approximately .93 to 1.01).

The graphs of the data in Appendix B are provided for visual reference and comparison to the ARH-600 data (note that a few of the cases analyzed in this report do not have corresponding ARH-600 graphs). In this analysis “full water reflection” (as indicated by ARH-600) was equated to 10 inches of water reflection (for the MCNP data). The precise thickness used in the original ARH-600 calculations is not known, however, 10 inches was demonstrated

as a conservative value to use in these calculations. The graphs are titled with the molarity, fissile isotope percent, and reflector width. If there is no fissile isotope percent, it shall be taken as 100 percent.

The tables in Appendix B have six columns which are intended to give a summary of all of the cases run for the specific parameter set. The first column contains the concentrations evaluated for the given set. The second column contains the density of the salt water solution (as calculated using above formulas or Scale 6) in g/cc. The third and fourth columns contain the first and last diameter, in inches, analyzed for each concentration. The fifth column consists of the step size, in inches, between each analyzed diameter. The sixth and arguably most important column, contains the interpolated diameter for which $k_{\text{eff}} = 1$. It should be noted that at times there is only "--" shown. This signifies that the data for K_{eff} was not calculated either because $k_{\text{eff}} = 1$ was impossible or was only possible with a diameter greater than the maximum evaluated (typically 999.99 inches).

6.0 CONCLUSIONS

This report documents a series of parametric studies that reproduce much of the plutonium and uranium nitrate data presented in ARH-600. This peer reviewed data has been presented in a series of curves that are equivalent to those in ARH-600. The data has also been formatted into an electronic file that can be read by the CritView electronic database file, allowing the data to be presented by that software.

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APPENDIX A – INDEPENDENT REVIEW COMMENTS AND CHECKLIST

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CHPRC REVIEW CHECKLIST			
Document Reviewed: CHPRC-01552, Revision 0, Appendix B - Calculations and Data			
Scope of Review: Main text and Appendix B Note: The use of this data in CritView was not reviewed.			
Yes	No	N/A	
☐	☐	☒	* Previous reviews complete and cover analysis, up to scope of this review, with no gaps.
☒	☐	☐	Problem completely defined.
☐	☐	☒	Accident scenarios developed in a clear and logical manner.
☒	☐	☐	Necessary assumptions explicitly stated and supported.
☒	☐	☐	Computer codes and data files documented.
☒	☐	☐	Data used in calculations explicitly stated in document.
☐	☐	☒	Data checked for consistency with original source information as applicable.
☒	☐	☐	Mathematical derivation checked including dimensional consistency of results.
☒	☐	☐	Models appropriate and used within range of validity or use outside range of established validity justified.
☐	☐	☒	Hand calculations checked for errors. Spreadsheet results should be treated exactly the same as hand calculations.
☒	☐	☐	Software input correct and consistent with document reviewed.
☒	☐	☐	Software output consistent with input and with results reported in document reviewed.
☐	☐	☒	Limits/criteria/guidelines applied to analysis results are appropriate and referenced.
☐	☐	☒	Limits/criteria/guidelines checked against references.
☐	☐	☒	Safety margins consistent with good engineering practices.
☐	☐	☒	Conclusions consistent with analytical results and applicable limits.
☒	☐	☐	Results and conclusions address all points required in the problem statement.
☐	☐	☒	* Format consistent with appropriate NRC Regulatory Guide or other standards.
☒	☐	☐	Review calculations, comments, and/or notes are attached.
☐	☐	☒	For calculations in which codes/spreadsheets (e.g., RADDOSE, GENII, etc) are used, is the latest revision used? Is the User Authorized?
☒	☐	☐	Document approved.
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: left;"> Harvey Goldberg Reviewer (Printed Name and Signature) </div> <div style="text-align: center;"> </div> <div style="text-align: right;"> 31 August 2011 Date </div> </div> <p style="font-size: small; margin-top: 10px;">*Any calculations, comments, or notes generated as part of this review should be signed, dated and attached to this checklist. Such material should be labeled and recorded in such a manner as to be intelligible to a technically qualified third party.</p>			

Comments:

The MCNP5 input and output decks were checked. For each graph random output data were checked against the graphs. The ARH-600 curves on the graphs were spot checked for general shape, but not for numerical values. CritView was not run so, although the graphs are CriView products, this reviewer did not produce test graphs from the output data to check if the results were identical to those published.

Harvey Goldberg

Date

APPENDIX B – CALCULATIONS AND DATA

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B1.0 INTRODUCTION

This Appendix contains a table of the critical dimensions for every case analyzed. The table also includes the first and last dimension, and the step size, for all of the dimensions that were evaluated in arriving at the critical value. The nitrate solution density is also presented in the table. In addition to the table, the critical values are plotted on a graph along with the corresponding ARH600 graph (where applicable).

B1.1 $\text{Pu}(\text{NO}_3)_4$ SOLUTION

B1.1.1 Sphere

B1.1.1.1 100% ^{239}Pu

B1.1.1.1.1 0 Molar Excess Acid

B1.1.1.1.1.1 0" Water Reflector

Case ID: pun40-sp-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 0" Water Reflector

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.1.1-1. Pu(NO₃)₄ 0M – Sphere – 100% ²³⁹Pu – 0" Water Reflection

Table B1.1.1.1.1-1. Critical Dimensions for Pu (NO₃)₄ 0M – Sphere – 100% ²³⁹Pu – 0” Water Reflection

100% Pu239 Pu(NO3)4 0M Sphere - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	21.1	26.2	0.2	25.1951
0.015	1.021	18.1	21.6	0.1	20.8696
0.02	1.029	15.7	18.3	0.1	17.7486
0.025	1.037	14.6	16.7	0.1	16.2314
0.03	1.046	13.8	15.8	0.1	15.3321
0.032	1.049	13.6	15.4	0.1	15.0608
0.035	1.054	13.3	15.1	0.1	14.7224
0.04	1.063	13	14.7	0.05	14.2986
0.05	1.08	12.5	14.2	0.05	13.7561
0.06	1.097	12.2	13.8	0.05	13.4131
0.07	1.113	12	13.5	0.05	13.2066
0.08	1.13	11.9	13.4	0.05	13.0285
0.09	1.147	11.8	13.3	0.05	12.9242
0.1	1.164	11.7	13.2	0.05	12.8444
0.12	1.197	11.6	13.1	0.05	12.7379
0.13	1.215	11.6	13	0.05	12.6975
0.15	1.248	11.5	13	0.05	12.6422
0.2	1.332	11.4	12.9	0.05	12.6045
0.239	1.397	11.5	12.9	0.05	12.5694
0.25	1.415	11.4	12.9	0.05	12.5847
0.359	1.594	11.5	13	0.05	12.6452
0.478	1.784	11.7	13.1	0.05	12.801
0.5	1.818	11.7	13.2	0.05	12.8299
0.6	1.962	12	13.6	0.05	13.191
0.65	2.026	12.3	13.9	0.05	13.505
0.7	2.076	12.8	14.4	0.05	14.0332
0.75	2.079	14.1	15.9	0.1	15.4784
0.752	2.073	14.3	16.1	0.1	15.6692
0.754	2.064	14.5	16.3	0.1	15.9074
0.755	2.052	14.8	16.6	0.1	16.2095

B1.1.1.1.1.2 1" Water Reflector

Case ID: PuN40-sp-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 1" Water Reflector

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.1.2-1. Pu(NO₃)₄ 0M – Sphere – 100% ²³⁹Pu – 1” Water Reflection

Table B1.1.1.1.2-1. Critical Dimensions for Pu (NO₃)₄ 0M – Sphere – 100% ²³⁹Pu – 1” Water Reflection

100% Pu239 Pu(NO3)4 0M Sphere - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	19.6	24.7	0.2	23.6804
0.015	1.021	16.6	20.2	0.1	19.3958
0.02	1.029	14.2	16.7	0.1	16.244
0.025	1.037	13.1	15.2	0.1	14.7191
0.03	1.046	12.3	14.2	0.1	13.7966
0.032	1.049	12.1	14	0.1	13.5365
0.035	1.054	11.8	13.6	0.1	13.2087
0.04	1.063	11.4	13.2	0.1	12.7979
0.05	1.08	11	12.6	0.05	12.2362
0.06	1.097	10.7	12.2	0.05	11.883
0.07	1.113	10.5	12	0.05	11.683
0.08	1.13	10.4	11.8	0.05	11.5149
0.09	1.147	10.3	11.7	0.05	11.399
0.1	1.164	10.2	11.6	0.05	11.3167
0.12	1.197	10.1	11.5	0.05	11.2024
0.13	1.215	10.1	11.5	0.05	11.1421
0.15	1.248	10	11.4	0.05	11.1162
0.2	1.332	10	11.4	0.05	11.0542
0.239	1.397	10	11.4	0.05	11.0426
0.25	1.415	10	11.4	0.05	11.0596
0.359	1.594	10	11.5	0.05	11.1237
0.478	1.784	10.2	11.6	0.05	11.2744
0.5	1.818	10.2	11.7	0.05	11.3077
0.6	1.962	10.5	12	0.05	11.6531
0.65	2.026	10.7	12.3	0.05	11.8933
0.7	2.076	11.2	12.7	0.05	12.3762
0.75	2.079	12.3	14	0.05	13.6454
0.752	2.073	12.4	14.2	0.1	13.803
0.754	2.064	12.7	14.4	0.05	14.023
0.755	2.052	12.9	14.7	0.1	14.2662

B1.1.1.1.1.3 10" Water Reflector

Case ID: PuN40-sp-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 10" Water Reflector

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.1.3-1. $\text{Pu}(\text{NO}_3)_4$ 0M – Sphere – 100% ^{239}Pu - 10" Water Reflection

Table B1.1.1.1.3-1. Critical Dimensions for Pu (NO₃)₄ 0M – Sphere – 100% ²³⁹Pu – 10” Water Reflection

100% Pu239 Pu(NO3)4 0M Sphere - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	18.5	23.5	0.2	22.5941
0.015	1.021	15.5	18.9	0.1	18.278
0.02	1.029	13.2	15.6	0.1	15.1224
0.025	1.037	11.9	14	0.1	13.5784
0.03	1.046	11.2	13.1	0.1	12.667
0.032	1.049	11	12.8	0.1	12.3805
0.035	1.054	10.7	12.4	0.05	12.0395
0.04	1.063	10.3	12	0.05	11.6072
0.05	1.08	9.8	11.4	0.05	11.0206
0.06	1.097	9.5	11	0.05	10.6441
0.07	1.113	9.3	10.7	0.05	10.4159
0.08	1.13	9.1	10.6	0.05	10.2329
0.09	1.147	9	10.4	0.05	10.1082
0.1	1.164	8.9	10.3	0.05	9.9986
0.12	1.197	8.8	10.2	0.05	9.8696
0.13	1.215	8.8	10.1	0.05	9.8238
0.15	1.248	8.7	10.1	0.05	9.7448
0.2	1.332	8.6	10	0.05	9.6627
0.239	1.397	8.6	9.9	0.05	9.6339
0.25	1.415	8.6	9.9	0.05	9.6243
0.359	1.594	8.6	9.9	0.05	9.6417
0.478	1.784	8.7	10.1	0.05	9.7568
0.5	1.818	8.7	10.1	0.05	9.7776
0.6	1.962	8.9	10.4	0.05	10.0324
0.65	2.026	9.1	10.6	0.05	10.2546
0.7	2.076	9.4	11	0.05	10.6141
0.75	2.079	10.3	12	0.05	11.6064
0.752	2.073	10.4	12.1	0.05	11.7187
0.754	2.064	10.5	12.3	0.1	11.8904
0.755	2.052	10.7	12.5	0.1	12.0879

B1.1.1.1.2 3 Molar Excess Acid

B1.1.1.1.2.1 0" Water Reflector

Case ID: PuN43-sp-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.1-1. Pu(NO₃)₄ 3M – Sphere – 100% ²³⁹Pu – 0" Water Reflection

Table B1.1.1.2.1-1. Critical Dimensions for Pu(NO₃)₄ 3M – Sphere – 100% ²³⁹Pu – 0” Water Reflections

100% Pu ²³⁹ Pu(NO ₃) ₄ 3M Sphere - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	23.3	29.7	0.3	28.4707
0.015	1.123	19.5	23.6	0.2	22.8116
0.02	1.132	16.7	19.6	0.1	18.9681
0.025	1.14	15.3	17.7	0.1	17.2009
0.03	1.149	14.5	16.6	0.1	16.151
0.032	1.152	14.3	16.3	0.1	15.8636
0.035	1.157	13.9	15.9	0.1	15.4806
0.04	1.165	13.5	15.4	0.1	15.0094
0.05	1.182	13	14.7	0.05	14.371
0.06	1.198	12.7	14.4	0.05	14.0023
0.07	1.215	12.5	14.1	0.05	13.7714
0.08	1.231	12.4	14	0.05	13.6007
0.09	1.247	12.3	13.8	0.05	13.4759
0.1	1.263	12.2	13.8	0.05	13.4063
0.12	1.294	12.1	13.7	0.05	13.3144
0.13	1.311	12.1	13.6	0.05	13.2571
0.15	1.342	12.1	13.6	0.05	13.2353
0.2	1.421	12.1	13.6	0.05	13.2372
0.239	1.481	12.1	13.7	0.05	13.3043
0.25	1.498	12.1	13.7	0.05	13.3231
0.359	1.665	12.4	14	0.05	13.5618
0.478	1.841	12.7	14.3	0.05	13.9505
0.5	1.871	12.8	14.4	0.05	14.07
0.6	1.998	13.5	15.2	0.05	14.7937
0.65	2.043	14.2	15.9	0.05	15.5452
0.66	2.049	14.4	16.05	0.05	15.7538
0.67	2.053	14.8	16.4	0.1	16.0442
0.68	2.053	15	16.8	0.1	16.4068
0.69	2.045	15.5	17.4	0.1	16.9692
0.698	2.017	16.5	18.5	0.1	18.0199

B1.1.1.1.2.2 1" Water Reflector

Case ID: PuN43-sp-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.2-1. $\text{Pu}(\text{NO}_3)_4$ 3M – Sphere - 100% ^{239}Pu – 1" Water Reflection

Table B1.1.1.2.2-1. Critical Dimensions for Pu(NO₃)₄ 3M – Sphere - 100% ²³⁹Pu – 1” Water Reflection

100% Pu239 Pu(NO3)4 3M Sphere - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	21.8	28.2	0.3	26.9022
0.015	1.123	18	22.1	0.2	21.3045
0.02	1.132	15.2	18	0.1	17.4545
0.025	1.14	13.9	16.2	0.1	15.69
0.03	1.149	13	15.1	0.1	14.6221
0.032	1.152	12.7	14.7	0.1	14.3224
0.035	1.157	12.4	14.3	0.1	13.9325
0.04	1.165	12	13.9	0.1	13.4673
0.05	1.182	11.5	13.2	0.05	12.8337
0.06	1.198	11.2	12.8	0.05	12.467
0.07	1.215	11	12.6	0.05	12.2277
0.08	1.231	10.8	12.4	0.05	12.0556
0.09	1.247	10.7	12.3	0.05	11.9274
0.1	1.263	10.7	12.2	0.05	11.8522
0.12	1.294	10.6	12.1	0.05	11.7486
0.13	1.311	10.6	12.1	0.05	11.6998
0.15	1.342	10.5	12	0.05	11.6698
0.2	1.421	10.5	12	0.05	11.6634
0.239	1.481	10.6	12.1	0.05	11.7204
0.25	1.498	10.6	12.1	0.05	11.7404
0.359	1.665	10.8	12.3	0.05	11.9651
0.478	1.841	11.1	12.7	0.05	12.3227
0.5	1.871	11.2	12.8	0.05	12.4224
0.6	1.998	11.8	13.4	0.05	13.0912
0.65	2.043	12.4	14.1	0.05	13.7548
0.66	2.049	12.6	14.3	0.05	13.9309
0.67	2.053	12.8	14.5	0.05	14.1749
0.68	2.053	13.1	14.9	0.1	14.4869
0.69	2.045	13.5	15.4	0.1	14.9934
0.698	2.017	14.3	16.3	0.1	15.9224

B1.1.1.1.2.3 10" Water Reflector

Case ID: PuN43-sp-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.1.2.3-1. $\text{Pu}(\text{NO}_3)_4$ 3M – Sphere - 100% ^{239}Pu – 10" Water Reflection

Table B1.1.1.2.3-1. Critical Dimensions for Pu(NO₃)₄ 3M – Sphere - 100% ²³⁹Pu – 10” Water Reflection

100% Pu239 Pu(NO3)4 3M Sphere - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	20.7	26.9	0.3	25.8375
0.015	1.123	16.9	20.9	0.2	20.147
0.02	1.132	14.1	16.8	0.1	16.3107
0.025	1.14	12.7	15	0.1	14.5013
0.03	1.149	11.8	13.9	0.1	13.4248
0.032	1.152	11.6	13.6	0.1	13.1199
0.035	1.157	11.3	13.1	0.1	12.7283
0.04	1.165	10.9	12.6	0.05	12.2358
0.05	1.182	10.3	11.9	0.05	11.577
0.06	1.198	10	11.5	0.05	11.1796
0.07	1.215	9.7	11.2	0.05	10.898
0.08	1.231	9.5	11	0.05	10.7152
0.09	1.247	9.4	10.9	0.05	10.5771
0.1	1.263	9.3	10.8	0.05	10.481
0.12	1.294	9.2	10.7	0.05	10.3447
0.13	1.311	9.2	10.6	0.05	10.2927
0.15	1.342	9.1	10.5	0.05	10.2474
0.2	1.421	9.1	10.5	0.05	10.1829
0.239	1.481	9.1	10.5	0.05	10.1924
0.25	1.498	9.1	10.5	0.05	10.199
0.359	1.665	9.2	10.7	0.05	10.3483
0.478	1.841	9.4	10.9	0.05	10.611
0.5	1.871	9.5	11.05	0.05	10.6835
0.6	1.998	10	11.5	0.05	11.2222
0.65	2.043	10.4	12.1	0.05	11.7268
0.66	2.049	10.6	12.3	0.05	11.8749
0.67	2.053	10.7	12.4	0.05	12.0672
0.68	2.053	10.9	12.7	0.1	12.3104
0.69	2.045	11.2	13.1	0.1	12.7144
0.698	2.017	11.9	13.8	0.1	13.405

B1.1.1.1.3 6 Molar Excess Acid

B1.1.1.1.3.1 0" Water Reflector

Case ID: PuN46-sp-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.3.1-1. $\text{Pu}(\text{NO}_3)_4$ 6M – Sphere - 100% ^{239}Pu – 0" Water Reflection

Table B1.1.1.3.1-1. Critical Dimensions for Pu(NO₃)₄ 6M – Sphere - 100% ²³⁹Pu – 0” Water Reflection

100% Pu239 Pu(NO3)4 6M Sphere - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	26.1	34	0.4	32.5438
0.015	1.212	21.3	26.1	0.2	25.1795
0.02	1.22	18	21.2	0.1	20.5363
0.025	1.229	16.4	19	0.1	18.4537
0.03	1.237	15.5	17.7	0.1	17.2569
0.032	1.24	15.2	17.4	0.1	16.9092
0.035	1.245	14.8	16.9	0.1	16.498
0.04	1.253	14.4	16.4	0.1	15.9575
0.05	1.27	13.8	15.7	0.1	15.2671
0.06	1.286	13.5	15.2	0.05	14.8545
0.07	1.301	13.3	15	0.05	14.5993
0.08	1.317	13.1	14.8	0.05	14.4186
0.09	1.333	13	14.7	0.05	14.294
0.1	1.349	12.9	14.6	0.05	14.1966
0.12	1.379	12.9	14.5	0.05	14.1246
0.13	1.395	12.8	14.4	0.05	14.0877
0.15	1.426	12.8	14.4	0.05	14.0575
0.2	1.503	12.8	14.5	0.05	14.1001
0.239	1.563	12.9	14.6	0.1	14.1691
0.25	1.58	12.9	14.5	0.05	14.188
0.359	1.748	13.2	14.8	0.05	14.4352
0.478	1.935	13.4	15.1	0.05	14.6908
0.5	1.969	13.5	15.1	0.05	14.7547
0.6	2.122	13.7	15.5	0.1	15.0641
0.65	2.197	13.9	15.7	0.1	15.2593
0.7	2.268	14.2	15.9	0.05	15.5397
0.75	2.335	14.5	16.3	0.1	15.9348
0.76	2.348	14.6	16.4	0.1	16.0107
0.765	2.354	14.6	16.4	0.1	16.0437
0.77	2.36	14.7	16.5	0.1	16.1056
0.775	2.367	14.7	16.6	0.1	16.1453

B1.1.1.1.3.2 1" Water Reflector

Case ID: PuN46-sp-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.1.3.2-1. Pu(NO₃)₄ 6M – Sphere - 100% ²³⁹Pu – 1” Water Reflection

**Table B1.1.1.3.2-1. Critical Dimensions for Pu(NO₃)₄ 6M – Sphere - 100% ²³⁹Pu – 1”
Water Reflection**

100% Pu239 Pu(NO3)4 6M Sphere - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	24.4	32.6	0.4	31.0286
0.015	1.212	19.8	24.5	0.2	23.6238
0.02	1.22	16.4	19.6	0.1	18.9541
0.025	1.229	14.9	17.3	0.1	16.8655
0.03	1.237	13.9	16.2	0.1	15.6658
0.032	1.24	13.6	15.8	0.1	15.3319
0.035	1.245	13.3	15.3	0.1	14.9
0.04	1.253	12.8	14.8	0.1	14.3639
0.05	1.27	12.2	14.1	0.1	13.6668
0.06	1.286	11.9	13.6	0.05	13.2492
0.07	1.301	11.6	13.4	0.1	13.0137
0.08	1.317	11.5	13.2	0.05	12.8111
0.09	1.333	11.4	13.1	0.05	12.6835
0.1	1.349	11.3	13	0.05	12.5983
0.12	1.379	11.35	12.9	0.05	12.5064
0.13	1.395	11.2	12.8	0.05	12.4635
0.15	1.426	11.2	12.8	0.05	12.4378
0.2	1.503	11.2	12.8	0.05	12.4367
0.239	1.563	11.3	12.9	0.05	12.5225
0.25	1.58	11.3	12.9	0.05	12.5355
0.359	1.748	11.5	13.1	0.05	12.7834
0.478	1.935	11.7	13.4	0.05	13.023
0.5	1.969	11.8	13.5	0.05	13.0763
0.6	2.122	12.1	13.8	0.05	13.3679
0.65	2.197	12.2	14	0.1	13.5487
0.7	2.268	12.5	14.2	0.05	13.811
0.75	2.335	12.8	14.6	0.1	14.1695
0.76	2.348	12.9	14.6	0.05	14.2362
0.765	2.354	12.9	14.7	0.1	14.3011
0.77	2.36	12.9	14.7	0.1	14.3402
0.775	2.367	13	14.8	0.1	14.3788

B1.1.1.1.3.3 10" Water Reflector

Case ID: PuN46-sp-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.3.3-1. $\text{Pu}(\text{NO}_3)_4$ 6M – Sphere - 100% ^{239}Pu – 10" Water Reflection

Table B1.1.1.3.3-1. Critical Dimensions for Pu(NO₃)₄ 6M – Sphere - 100% ²³⁹Pu – 10” Water Reflection

100% Pu239 Pu(NO3)4 6M Sphere - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	23.4	31.6	0.4	29.8142
0.015	1.212	18.6	23.3	0.2	22.399
0.02	1.22	15.3	18.4	0.1	17.7215
0.025	1.229	13.6	16.1	0.1	15.6154
0.03	1.237	12.7	14.9	0.1	14.3922
0.032	1.24	12.4	14.5	0.1	14.0473
0.035	1.245	12	14	0.1	13.6147
0.04	1.253	11.6	13.5	0.1	13.0585
0.05	1.27	10.9	12.7	0.1	12.3242
0.06	1.286	10.6	12.2	0.05	11.8955
0.07	1.301	10.3	12	0.05	11.6045
0.08	1.317	10.2	11.7	0.05	11.397
0.09	1.333	10	11.6	0.05	11.2398
0.1	1.349	9.9	11.5	0.05	11.1352
0.12	1.379	9.8	11.3	0.05	11.0109
0.13	1.395	9.8	11.3	0.05	10.9592
0.15	1.426	9.7	11.2	0.05	10.8943
0.2	1.503	9.6	11.2	0.05	10.8481
0.239	1.563	9.7	11.2	0.05	10.8672
0.25	1.58	9.7	11.2	0.05	10.8865
0.359	1.748	9.8	11.4	0.05	11.0397
0.478	1.935	10	11.6	0.05	11.2146
0.5	1.969	10	11.6	0.05	11.249
0.6	2.122	10.2	11.8	0.05	11.4863
0.65	2.197	10.3	12	0.05	11.6409
0.7	2.268	10.5	12.2	0.05	11.8434
0.75	2.335	10.7	12.5	0.1	12.1285
0.76	2.348	10.8	12.6	0.1	12.1982
0.765	2.354	10.9	12.6	0.05	12.2401
0.77	2.36	10.9	12.6	0.05	12.2901
0.775	2.367	10.9	12.7	0.1	12.2976

B1.1.1.2 97% ^{239}Pu

B1.1.1.2.1 0 Molar Excess Acid

B1.1.1.2.1.1 0" Water Reflection

Case ID: PuN40-sp-0970-00

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.1.1-1. Pu(NO₃)₄ 0M – Sphere – 97% ²³⁹Pu – 0" Water Reflection

**Table B1.1.1.2.1.1-1. Critical Dimensions for Pu(NO₃)₄ 0M – Sphere - 97% ²³⁹Pu – 0”
Water Reflection**

97% Pu239 Pu(NO3)4 0M Sphere- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	22.1	27.7	0.2	26.7988
0.015	1.021	18.8	22.8	0.2	21.8715
0.02	1.029	16.3	19	0.1	18.4693
0.025	1.037	15	17.3	0.1	16.8214
0.03	1.046	14.2	16.3	0.1	15.8962
0.032	1.049	14	16	0.1	15.5977
0.035	1.054	13.7	15.6	0.1	15.2625
0.04	1.063	13.4	15.3	0.1	14.8278
0.05	1.08	12.9	14.7	0.1	14.2829
0.06	1.097	12.6	14.3	0.05	13.9626
0.07	1.113	12.5	14.1	0.05	13.7742
0.08	1.13	12.4	14	0.05	13.649
0.09	1.147	12.3	13.9	0.05	13.5652
0.1	1.164	12.3	13.9	0.05	13.5165
0.12	1.197	12.2	13.9	0.05	13.4851
0.13	1.215	12.2	13.8	0.05	13.4525
0.15	1.248	12.2	13.8	0.05	13.4791
0.2	1.332	12.3	13.9	0.05	13.5525
0.239	1.397	12.4	14.1	0.05	13.6584
0.25	1.415	12.4	14	0.1	13.6721
0.359	1.594	12.6	14.3	0.05	13.9422
0.478	1.784	12.9	14.6	0.05	14.25
0.5	1.818	12.9	14.7	0.1	14.346
0.6	1.962	13.3	15.2	0.1	14.8084
0.65	2.026	13.8	15.6	0.1	15.1717
0.7	2.076	14.2	16.2	0.1	15.7801
0.75	2.08	15.6	17.8	0.1	17.3634
0.752	2.074	15.8	18	0.1	17.5542
0.754	2.064	16.1	18.3	0.1	17.8576
0.755	2.054	16.3	18.6	0.1	18.131

B1.1.1.2.1.2 1" Water Reflection

Case ID: PuN40-sp-0970-01

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.1.2-1. $\text{Pu}(\text{NO}_3)_4$ 0M – Sphere - 97% ^{239}Pu – 1" Water Reflection

**Table B1.1.1.2.1.2-1. Critical Dimensions for Pu(NO₃)₄ 0M – Sphere - 97% ²³⁹Pu – 1”
Water Reflection**

97% Pu239 Pu(NO3)4 0M Sphere- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	20.7	26.3	0.2	25.2939
0.015	1.021	17.3	21.1	0.2	20.3504
0.02	1.029	14.8	17.5	0.1	16.9398
0.025	1.037	13.5	15.8	0.1	15.3167
0.03	1.046	12.7	14.8	0.1	14.372
0.032	1.049	12.5	14.5	0.1	14.0753
0.035	1.054	12.3	14.2	0.1	13.7347
0.04	1.063	11.9	13.7	0.1	13.3045
0.05	1.08	11.4	13.1	0.05	12.7423
0.06	1.097	11.1	12.8	0.05	12.4042
0.07	1.113	11	12.6	0.05	12.2337
0.08	1.13	10.8	12.4	0.05	12.0974
0.09	1.147	10.8	12.4	0.05	12.0082
0.1	1.164	10.7	12.3	0.05	11.9784
0.12	1.197	10.7	12.3	0.05	11.9289
0.13	1.215	10.7	12.2	0.05	11.8997
0.15	1.248	10.7	12.3	0.05	11.9194
0.2	1.332	10.7	12.4	0.05	12.0055
0.239	1.397	10.8	12.5	0.05	12.0921
0.25	1.415	10.8	12.5	0.05	12.1054
0.359	1.594	11	12.8	0.1	12.3994
0.478	1.784	11.3	13.1	0.1	12.7192
0.5	1.818	11.4	13.1	0.05	12.7904
0.6	1.962	11.8	13.6	0.1	13.2142
0.65	2.026	12	13.9	0.1	13.5482
0.7	2.076	12.5	14.5	0.1	14.0995
0.75	2.08	13.8	16	0.1	15.4952
0.752	2.074	14	16.1	0.1	15.6722
0.754	2.064	14.2	16.4	0.1	15.9412
0.755	2.054	14.2	16.7	0.1	16.184

B1.1.1.2.1.3 10" Water Reflection

Case ID: PuN40-sp-0970-10

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.1.3-1. Pu(NO₃)₄ 0M – Sphere - 97% ²³⁹Pu – 10” Water Reflection

Table B1.1.1.2.1.3-1. Critical Dimensions for Pu(NO₃)₄ 0M – Sphere - 97% ²³⁹Pu – 10” Water Reflection

97% Pu239 Pu(NO ₃) ₄ 0M Sphere- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	19.7	25.1	0.2	24.1426
0.015	1.021	16.3	20	0.1	19.2421
0.02	1.029	13.6	16.3	0.1	15.7884
0.025	1.037	12.4	14.6	0.1	14.1646
0.03	1.046	11.6	13.6	0.1	13.1872
0.032	1.049	11.4	13.3	0.1	12.9124
0.035	1.054	11.1	13	0.1	12.5403
0.04	1.063	10.7	12.5	0.1	12.1055
0.05	1.08	10.3	11.9	0.05	11.5089
0.06	1.097	9.9	11.5	0.05	11.1601
0.07	1.113	9.7	11.3	0.05	10.9474
0.08	1.13	9.5	11.1	0.05	10.7807
0.09	1.147	9.5	11	0.05	10.6725
0.1	1.164	9.4	10.9	0.05	10.6106
0.12	1.197	9.3	10.9	0.05	10.5341
0.13	1.215	9.3	10.8	0.05	10.484
0.15	1.248	9.2	10.8	0.05	10.4706
0.2	1.332	9.3	10.8	0.05	10.5005
0.239	1.397	9.3	10.9	0.05	10.5401
0.25	1.415	9.3	10.9	0.05	10.5657
0.359	1.594	9.5	11.1	0.05	10.7667
0.478	1.784	9.6	11.4	0.1	11.0254
0.5	1.818	9.7	11.4	0.05	11.0753
0.6	1.962	10	11.8	0.1	11.4276
0.65	2.026	10.3	12	0.1	11.7138
0.7	2.076	10.7	12.6	0.1	12.1355
0.75	2.08	11.6	13.7	0.1	13.2636
0.752	2.074	11.7	13.8	0.1	13.4101
0.754	2.064	11.9	14.1	0.1	13.5844
0.755	2.054	12.1	14.2	0.1	13.7982

B1.1.1.2.2 3 Molar Excess Acid

B1.1.1.2.2.1 0" Water Reflection

Case ID: PuN43-sp-0970-00

Material: Pu (NO₃)₄ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ²³⁹Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.2.1-1. $\text{Pu}(\text{NO}_3)_4$ 3M – Sphere – 97% ^{239}Pu – 0" Water Reflection

**Table B1.1.1.2.2.1-1. Critical Dimensions for Pu(NO₃)₄ 3M – Sphere – 97% ²³⁹Pu – 0”
Water Reflection**

97% Pu239 Pu(NO3)4 3M Sphere- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	24.6	32.2	0.3	30.683
0.015	1.123	20.4	25	0.2	24.0455
0.02	1.132	17.3	20.5	0.1	19.7943
0.025	1.14	16	18.4	0.1	17.8615
0.03	1.149	15	17.3	0.1	16.7663
0.032	1.152	14.7	16.9	0.1	16.4514
0.035	1.157	14.4	16.5	0.1	16.1033
0.04	1.165	14	16	0.1	15.5734
0.05	1.182	13.5	15.4	0.1	14.9613
0.06	1.198	13.2	15	0.1	14.6178
0.07	1.215	13	14.8	0.1	14.3966
0.08	1.231	12.9	14.6	0.05	14.2625
0.09	1.247	12.9	14.6	0.05	14.1859
0.1	1.263	12.9	14.5	0.05	14.1366
0.12	1.294	12.8	14.5	0.05	14.1291
0.13	1.311	12.85	14.5	0.05	14.1062
0.15	1.342	12.8	14.5	0.05	14.1593
0.2	1.421	12.9	14.7	0.1	14.32
0.239	1.481	13.1	15	0.1	14.4825
0.25	1.498	13.1	15	0.1	14.533
0.359	1.665	13.6	15.4	0.1	15.0366
0.478	1.841	14.1	16.1	0.1	15.6306
0.5	1.871	14.2	16.2	0.1	15.7755
0.6	1.998	15	17.1	0.1	16.6638
0.65	2.043	15.8	18	0.1	17.504
0.66	2.049	16	18.3	0.1	17.7341
0.67	2.053	16.3	18.6	0.1	18.031
0.68	2.053	16.7	19	0.1	18.4405
0.69	2.046	17.1	19.6	0.1	19.0554
0.698	2.018	18.2	20.7	0.1	20.1861

B1.1.1.2.2.2 1" Water Reflection

Case ID: PuN43-sp-0970-01

Material: Pu (NO₃)₄ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ²³⁹Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.2-1. $\text{Pu}(\text{NO}_3)_4$ 3M – Sphere – 97% ^{239}Pu – 1" Water Reflection

Table B1.1.1.2.2-1. Critical Dimensions for Pu(NO₃)₄ 3M – Sphere – 97% ²³⁹Pu – 1” Water Reflection

97% Pu239 Pu(NO3)4 3M Sphere- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	23	30.6	0.3	29.1391
0.015	1.123	18.9	23.4	0.2	22.5105
0.02	1.132	15.9	18.9	0.1	18.2778
0.025	1.14	14.3	16.9	0.1	16.3283
0.03	1.149	13.5	15.7	0.1	15.2456
0.032	1.152	13.2	15.4	0.1	14.9106
0.035	1.157	12.9	15	0.1	14.5226
0.04	1.165	12.5	14.4	0.1	14.0377
0.05	1.182	12	13.8	0.1	13.4127
0.06	1.198	11.7	13.4	0.05	13.0459
0.07	1.215	11.5	13.2	0.05	12.8197
0.08	1.231	11.4	13	0.05	12.6972
0.09	1.247	11.3	13	0.05	12.6123
0.1	1.263	11.2	12.9	0.05	12.5623
0.12	1.294	11.2	12.9	0.05	12.5578
0.13	1.311	11.2	12.9	0.05	12.5233
0.15	1.342	11.2	12.9	0.05	12.5499
0.2	1.421	11.4	13.1	0.05	12.6987
0.239	1.481	11.5	13.2	0.05	12.8714
0.25	1.498	11.6	13.2	0.05	12.9295
0.359	1.665	12	13.8	0.1	13.3847
0.478	1.841	12.4	14.4	0.1	13.949
0.5	1.871	12.6	14.5	0.1	14.0776
0.6	1.998	13.2	15.5	0.1	14.9093
0.65	2.043	14	16.1	0.1	15.6647
0.66	2.049	14.1	16.4	0.1	15.8656
0.67	2.053	14.4	16.6	0.1	16.1582
0.68	2.053	14.7	17.6	0.1	16.503
0.69	2.046	15.2	17.6	0.1	17.034
0.698	2.018	16.1	18.5	0.1	18.0508

B1.1.1.2.2.3 10" Water Reflection

Case ID: PuN43-sp-0970-10

Material: Pu (NO₃)₄ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ²³⁹Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.2.3-1. Pu(NO₃)₄ 3M – Sphere – 97% ²³⁹Pu – 10" Water Reflection

Table B1.1.1.2.3-1. Critical Dimensions for Pu(NO₃)₄ 3M – Sphere – 97% ²³⁹Pu – 10” Water Reflection

97% Pu239 Pu(NO ₃) ₄ 3M Sphere- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	22.1	29.4	0.3	27.9227
0.015	1.123	17.8	22.2	0.2	21.3522
0.02	1.132	14.7	17.6	0.1	17.0879
0.025	1.14	13.2	15.6	0.1	15.1336
0.03	1.149	12.3	14.5	0.1	14.0287
0.032	1.152	12.1	14.2	0.1	13.6911
0.035	1.157	11.7	13.7	0.1	13.2861
0.04	1.165	11.3	13.2	0.1	12.7814
0.05	1.182	10.7	12.5	0.1	12.1219
0.06	1.198	10.4	12.1	0.05	11.732
0.07	1.215	10.2	11.8	0.05	11.4786
0.08	1.231	10.1	11.7	0.05	11.3267
0.09	1.247	10	11.55	0.05	11.2128
0.1	1.263	9.9	11.5	0.05	11.1307
0.12	1.294	9.8	11.4	0.05	11.0662
0.13	1.311	9.7	11.4	0.05	11.0353
0.15	1.342	9.8	11.4	0.05	11.0477
0.2	1.421	9.8	11.5	0.05	11.0978
0.239	1.481	9.9	11.6	0.05	11.2215
0.25	1.498	10.05	11.55	0.05	11.2413
0.359	1.665	10.3	12	0.1	11.6142
0.478	1.841	10.6	12.5	0.1	12.0633
0.5	1.871	10.7	12.6	0.1	12.1659
0.6	1.998	11.2	13.3	0.1	12.8357
0.65	2.043	11.8	13.9	0.1	13.4404
0.66	2.049	11.9	14	0.1	13.6075
0.67	2.053	12.1	14.3	0.1	13.8291
0.68	2.053	12.3	14.6	0.1	14.1053
0.69	2.046	12.7	14.9	0.1	14.5477
0.698	2.018	13.4	15.8	0.1	15.3337

B1.1.1.2.3 6 Molar Excess Acid

B1.1.1.2.3.1 0" Water Reflection

Case ID: PuN46-sp-0970-00

Material: Pu (NO₃)₄ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ²³⁹Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.3.1-1. Pu(NO₃)₄ 6M – Sphere – 97% ²³⁹Pu – 0" Water Reflection

Table B1.1.1.2.3.1-1. Critical Dimensions for Pu(NO₃)₄ 6M – Sphere – 97% ²³⁹Pu – 0” Water Reflection

97% Pu239 Pu(NO3)4 6M Sphere- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	28.7	37.7	0.5	35.7046
0.015	1.212	22.4	27.7	0.2	26.6893
0.02	1.22	18.8	22.3	0.1	21.521
0.025	1.229	17	19.8	0.1	19.2538
0.03	1.237	16	18.5	0.1	17.9758
0.032	1.24	15.8	18.1	0.1	17.6044
0.035	1.245	15.4	17.7	0.1	17.1693
0.04	1.253	14.9	17.1	0.1	16.6234
0.05	1.27	14.4	16.4	0.1	15.91
0.06	1.286	14	15.9	0.1	15.5463
0.07	1.301	13.9	15.7	0.1	15.3163
0.08	1.317	13.8	15.6	0.1	15.1741
0.09	1.333	13.7	15.5	0.1	15.0784
0.1	1.349	13.6	15.3	0.1	15.0378
0.12	1.379	13.6	15.3	0.1	15.0462
0.13	1.395	13.6	16.1	0.1	15.0369
0.15	1.426	13.6	15.5	0.1	15.0732
0.2	1.503	13.8	16	0.1	15.3279
0.239	1.563	14	15.7	0.05	15.5214
0.25	1.58	14	16.8	0.1	15.5599
0.359	1.748	14.5	16.3	0.1	16.0749
0.478	1.935	14.9	17	0.1	16.515
0.5	1.969	15	18.2	0.1	16.5984
0.6	2.122	15.3	17.5	0.1	16.9939
0.65	2.197	15.5	17.7	0.1	17.2119
0.7	2.268	15.8	18	0.1	17.4874
0.75	2.335	16.1	19.5	0.1	17.897
0.76	2.348	16.2	18.5	0.1	17.967
0.765	2.354	16.3	18.6	0.1	18.0355
0.77	2.36	16.3	18.6	0.1	18.0924
0.775	2.367	16.3	18.5	0.1	18.13

B1.1.1.2.3.2 1" Water Reflection

Case ID: PuN46-sp-0970-01

Material: Pu (NO₃)₄ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ²³⁹Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.3.2-1. Pu(NO₃)₄ 6M – Sphere – 97% ²³⁹Pu – 1" Water Reflection

**Table B1.1.1.2.3.2-1. Critical Dimensions for Pu(NO₃)₄ 6M – Sphere – 97% ²³⁹Pu – 1”
Water Reflection**

97% Pu239 Pu(NO3)4 6M Sphere- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	27.2	36.2	0.5	34.0721
0.015	1.212	20.9	26.2	0.2	25.1257
0.02	1.22	17.2	20.7	0.1	19.9429
0.025	1.229	15.5	18.2	0.1	17.6589
0.03	1.237	14.5	16.9	0.1	16.3864
0.032	1.24	14.2	16.4	0.1	16.0123
0.035	1.245	14.1	16.1	0.1	15.5826
0.04	1.253	13.3	15.5	0.1	15.0204
0.05	1.27	12.8	14.7	0.1	14.3314
0.06	1.286	12.5	14.3	0.1	13.9198
0.07	1.301	12.3	14.1	0.1	13.6882
0.08	1.317	12.1	13.9	0.1	13.534
0.09	1.333	12.1	13.8	0.1	13.4607
0.1	1.349	12	13.8	0.1	13.4074
0.12	1.379	12	13.8	0.1	13.4079
0.13	1.395	12	13.8	0.1	13.3809
0.15	1.426	12	13.7	0.05	13.444
0.2	1.503	12.2	14	0.1	13.6385
0.239	1.563	12.3	15.3	0.1	13.8158
0.25	1.58	12.4	14.2	0.1	13.8754
0.359	1.748	12.8	14.8	0.1	14.3642
0.478	1.935	13.1	15.2	0.2	14.7812
0.5	1.969	13.2	15.3	0.1	14.8685
0.6	2.122	13.4	15.7	0.1	15.25
0.65	2.197	13.8	15.8	0.1	15.4812
0.7	2.268	14	16.2	0.1	15.7541
0.75	2.335	14.3	16.5	0.1	16.1141
0.76	2.348	14.4	16.7	0.1	16.1926
0.765	2.354	14.5	16.7	0.1	16.2489
0.77	2.36	14.5	17.1	0.1	16.3036
0.775	2.367	14.5	16.7	0.1	16.331

B1.1.1.2.3.3 10" Water Reflection

Case ID: PuN46-sp-0970-10

Material: Pu (NO₃)₄ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 97% ²³⁹Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.2.3.3-1. Pu(NO₃)₄ 6M – Sphere – 97% ²³⁹Pu – 10" Water Reflection

Table B1.1.1.2.3.3-1. Critical Dimensions for Pu(NO₃)₄ 6M – Sphere – 97% ²³⁹Pu – 10” Water Reflection

97% Pu239 Pu(NO ₃) ₄ 6M Sphere- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	26	35	0.5	32.9
0.015	1.212	19.6	24.9	0.2	23.9407
0.02	1.22	16	19.3	0.1	18.6801
0.025	1.229	14.2	16.9	0.1	16.3808
0.03	1.237	13.2	15.6	0.1	15.0936
0.032	1.24	12.9	15.2	0.1	14.7303
0.035	1.245	12.5	14.7	0.5	14.2725
0.04	1.253	12.1	14.1	0.1	13.6916
0.05	1.27	11.5	13.3	0.1	12.9586
0.06	1.286	11.1	12.9	0.1	12.5278
0.07	1.301	10.8	12.7	0.1	12.2619
0.08	1.317	10.7	12.5	0.1	12.0805
0.09	1.333	10.5	12.4	0.1	11.9652
0.1	1.349	10.5	12.2	0.05	11.8702
0.12	1.379	10.4	12.1	0.05	11.8078
0.13	1.395	10.4	12.2	0.1	11.7854
0.15	1.426	10.5	12.5	0.1	11.8007
0.2	1.503	10.4	12.3	0.1	11.8965
0.239	1.563	10.6	12.4	0.1	12.0256
0.25	1.58	10.6	12.5	0.1	12.0685
0.359	1.748	10.9	12.7	0.1	12.4494
0.478	1.935	11.2	13	0.2	12.7739
0.5	1.969	11.2	13.3	0.1	12.8627
0.6	2.122	11.5	13.5	0.1	13.1733
0.65	2.197	11.7	13.8	0.1	13.3626
0.7	2.268	11.9	14.1	0.1	13.5964
0.75	2.335	12.1	14.3	0.1	13.8787
0.76	2.348	12.2	14.4	0.1	13.9575
0.765	2.354	12.2	14.4	0.1	14.0037
0.77	2.36	12.3	14.4	0.1	14.0274
0.775	2.367	12.3	14.5	0.1	14.0692

B1.1.1.3 95% ^{239}Pu

B1.1.1.3.1 0 Molar Excess Acid

B1.1.1.3.1.1 0" Water Reflection

Case ID: PuN40-sp-0950-00

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 95% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.3.1.1-1. Pu(NO₃)₄ 0M – Sphere - 95% ²³⁹Pu – 0" Water Reflection

**Table B1.1.1.3.1.1-1. Critical Dimensions for Pu(NO₃)₄ 0M – Sphere - 95% ²³⁹Pu – 0”
Water Reflection**

95% Pu239 Pu(NO3)4 0M Sphere- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	22.9	29.2	0.3	27.9794
0.015	1.021	19.3	23.4	0.2	22.596
0.02	1.029	16.7	19.5	0.1	18.9425
0.025	1.037	15.3	17.7	0.1	17.2251
0.03	1.046	14.5	16.7	0.1	16.2418
0.032	1.049	14.3	16.5	0.1	15.9699
0.035	1.054	14	16	0.1	15.6204
0.04	1.063	13.6	15.6	0.1	15.1568
0.05	1.08	13.2	15	0.1	14.6137
0.06	1.097	12.9	14.7	0.1	14.2833
0.07	1.113	12.8	14.5	0.05	14.0967
0.08	1.13	12.6	14.4	0.1	13.9957
0.09	1.147	12.6	14.3	0.05	13.9371
0.1	1.164	12.6	14.3	0.05	13.8904
0.12	1.197	12.5	14.2	0.05	13.8714
0.13	1.215	12.5	14.2	0.05	13.8419
0.15	1.248	12.5	14.3	0.1	13.8908
0.2	1.332	12.6	14.4	0.1	14.0251
0.239	1.397	12.7	14.5	0.1	14.1418
0.25	1.415	12.8	14.6	0.1	14.2003
0.359	1.594	13.2	14.9	0.1	14.5168
0.478	1.784	13.3	15.3	0.1	14.8756
0.5	1.818	13.4	15.4	0.1	14.9438
0.6	1.962	13.9	15.9	0.1	15.441
0.65	2.026	14.2	16.2	0.1	15.805
0.7	2.076	14.8	16.9	0.1	16.439
0.75	2.08	16.3	18.6	0.1	18.0811
0.752	2.074	16.4	18.8	0.1	18.2816
0.754	2.065	16.8	19.1	0.1	18.5576
0.755	2.055	16.9	19.3	0.1	18.8395

B1.1.1.3.1.2 1" Water Reflection

Case ID: PuN40-sp-0950-01

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 95% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.3.1.2-1. Pu(NO₃)₄ 0M – Sphere - 95% ²³⁹Pu – 1" Water Reflection

**Table B1.1.1.3.1.2-1. Critical Dimensions for Pu(NO₃)₄ 0M – Sphere - 95% ²³⁹Pu – 1”
Water Reflection**

95% Pu239 Pu(NO3)4 0M Sphere- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	21.4	27.8	0.3	26.4924
0.015	1.021	17.8	21.8	0.2	21.0891
0.02	1.029	15.1	18	0.1	17.4364
0.025	1.037	13.8	16.2	0.1	15.7054
0.03	1.046	13	15.2	0.1	14.7142
0.032	1.049	12.8	14.9	0.1	14.4369
0.035	1.054	12.5	14.5	0.1	14.0593
0.04	1.063	12.1	14	0.1	13.635
0.05	1.08	11.7	13.5	0.1	13.0681
0.06	1.097	11.4	13.1	0.05	12.7511
0.07	1.113	11.2	12.9	0.05	12.5783
0.08	1.13	11.1	12.8	0.05	12.4427
0.09	1.147	11.1	12.7	0.05	12.3748
0.1	1.164	11	12.7	0.05	12.3164
0.12	1.197	11	12.7	0.05	12.297
0.13	1.215	11	12.7	0.05	12.3064
0.15	1.248	11	12.7	0.05	12.3275
0.2	1.332	11.1	12.8	0.05	12.4449
0.239	1.397	11.2	12.9	0.05	12.5545
0.25	1.415	11.3	12.9	0.1	12.6066
0.359	1.594	11.5	13.3	0.1	12.9504
0.478	1.784	11.8	13.6	0.1	13.2904
0.5	1.818	11.9	13.8	0.1	13.3705
0.6	1.962	12.3	14.3	0.1	13.8482
0.65	2.026	12.6	14.6	0.1	14.1638
0.7	2.076	13.1	15.2	0.2	14.7443
0.75	2.08	14.4	16.6	0.1	16.201
0.752	2.074	14.5	16.9	0.1	16.4027
0.754	2.065	14.7	17.1	0.1	16.6323
0.755	2.055	15.1	17.4	0.1	16.8892

B1.1.1.3.1.3 10" Water Reflection

Case ID: PuN40-sp-0950-10

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 95% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.1.3.1.3-1. Pu(NO₃)₄ 0M – Sphere - 95% ²³⁹Pu – 10” Water Reflection

Table B1.1.1.3.1.3-1. Critical Dimensions for Pu(NO₃)₄ 0M – Sphere - 95% ²³⁹Pu – 10” Water Reflection

95% Pu239 Pu(NO ₃) ₄ 0M Sphere- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	20.3	26.5	0.3	25.3989
0.015	1.021	16.8	20.7	0.2	19.9554
0.02	1.029	14	16.8	0.1	16.2795
0.025	1.037	12.7	15	0.1	14.5428
0.03	1.046	11.9	14	0.1	13.5365
0.032	1.049	11.6	13.7	0.1	13.2398
0.035	1.054	11.3	13.3	0.1	12.8763
0.04	1.063	10.9	12.8	0.1	12.4073
0.05	1.08	10.5	12.2	0.05	11.8271
0.06	1.097	10.1	11.8	0.05	11.4578
0.07	1.113	9.9	11.6	0.05	11.2534
0.08	1.13	9.8	11.4	0.05	11.109
0.09	1.147	9.7	11.3	0.05	10.9981
0.1	1.164	9.7	11.3	0.05	10.9547
0.12	1.197	9.65	11.2	0.05	10.87
0.13	1.215	9.6	11.2	0.05	10.8515
0.15	1.248	9.6	11.2	0.05	10.8382
0.2	1.332	9.6	11.3	0.05	10.9012
0.239	1.397	9.7	11.3	0.05	10.9827
0.25	1.415	9.6	11.4	0.1	10.9909
0.359	1.594	9.9	11.7	0.1	11.2579
0.478	1.784	10.1	11.9	0.1	11.546
0.5	1.818	10.1	12	0.1	11.6191
0.6	1.962	10.5	12.4	0.1	11.9991
0.65	2.026	10.7	12.7	0.1	12.2765
0.7	2.076	11.1	13.1	0.1	12.7425
0.75	2.08	12.1	14.3	0.1	13.8909
0.752	2.074	12.2	14.5	0.1	14.0378
0.754	2.065	12.4	14.7	0.1	14.2439
0.755	2.055	12.6	14.9	0.1	14.4358

B1.1.2 Cylinder

B1.1.2.1 100% ^{239}Pu

B1.1.2.1.1 0 Molar Excess Acid

B1.1.2.1.1.1 0" Water Reflection

Case ID: PuN40-icyl-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.1-1. $\text{Pu}(\text{NO}_3)_4$ 0M – Cylinder - 100% ^{239}Pu – 0" Water Reflection

Table B1.1.2.1.1-1. Critical Dimensions for Pu(NO₃)₄ 0M – Cylinder - 100% ²³⁹Pu – 0” Water Reflection

100% Pu239 Pu(NO3)4 0M Cylinder - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	15.7	19.6	0.2	18.7761
0.015	1.021	13.5	16.1	0.1	15.5795
0.02	1.029	11.6	13.6	0.1	13.1729
0.025	1.037	10.7	12.4	0.05	12.0253
0.03	1.046	10.2	11.7	0.05	11.3261
0.032	1.049	10	11.4	0.05	11.0955
0.035	1.054	9.8	11.2	0.05	10.8763
0.04	1.063	9.5	10.8	0.05	10.5513
0.05	1.08	9.2	10.4	0.05	10.1115
0.06	1.097	8.9	10.1	0.05	9.8475
0.07	1.113	8.8	10	0.05	9.6909
0.08	1.13	8.7	9.9	0.05	9.5692
0.09	1.147	8.6	9.8	0.05	9.4825
0.1	1.164	8.6	9.7	0.05	9.4255
0.12	1.197	8.5	9.6	0.05	9.3308
0.13	1.215	8.5	9.6	0.05	9.3016
0.15	1.248	8.4	9.6	0.05	9.2506
0.2	1.332	8.4	9.5	0.05	9.2135
0.239	1.397	8.4	9.5	0.05	9.1932
0.25	1.415	8.4	9.5	0.05	9.2177
0.359	1.594	8.4	9.5	0.05	9.253
0.478	1.784	8.5	9.7	0.05	9.3648
0.5	1.818	8.6	9.7	0.05	9.4094
0.6	1.962	8.8	10	0.05	9.6687
0.65	2.026	9	10.2	0.05	9.8978
0.7	2.076	9.4	10.6	0.05	10.2797
0.75	2.079	10.3	11.7	0.05	11.3628
0.752	2.073	10.5	11.8	0.05	11.5119
0.754	2.064	10.6	12	0.05	11.6832
0.755	2.052	10.8	12.2	0.05	11.8834

B1.1.2.1.1.2 1" Water Reflection

Case ID: PuN40-icyl-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.1.2-1. $\text{Pu}(\text{NO}_3)_4$ 0M – Cylinder - 100% ^{239}Pu – 1" Water Reflection

Table B1.1.2.1.1.2-1. Critical Dimensions for Pu(NO₃)₄ 0M – Cylinder - 100% ²³⁹Pu – 1” Water Reflection

100% Pu239 Pu(NO ₃) ₄ 0M Cylinder- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	14.2	18.1	0.2	17.2
0.015	1.021	11.9	14.6	0.1	14.0524
0.02	1.029	10.1	12.1	0.1	11.656
0.025	1.037	9.2	10.8	0.05	10.4959
0.03	1.046	8.7	10.1	0.05	9.8103
0.032	1.049	8.5	9.9	0.05	9.5884
0.035	1.054	8.3	9.6	0.05	9.3311
0.04	1.063	8	9.3	0.05	9.0184
0.05	1.08	7.6	8.9	0.05	8.5836
0.06	1.097	7.4	8.6	0.05	8.3004
0.07	1.113	7.3	8.4	0.05	8.1548
0.08	1.13	7.2	8.3	0.05	8.0176
0.09	1.147	7.1	8.2	0.05	7.9371
0.1	1.164	7	8.1	0.05	7.8817
0.12	1.197	7	8.1	0.05	7.7775
0.13	1.215	6.9	8	0.05	7.7406
0.15	1.248	6.9	8	0.05	7.7079
0.2	1.332	6.8	7.9	0.05	7.6509
0.239	1.397	6.8	7.9	0.05	7.666
0.25	1.415	6.8	7.9	0.05	7.661
0.359	1.594	6.9	8	0.05	7.6937
0.478	1.784	7	8.1	0.05	7.828
0.5	1.818	7	8.1	0.05	7.8591
0.6	1.962	7.2	8.3	0.05	8.1035
0.65	2.026	7.4	8.6	0.05	8.2772
0.7	2.076	7.7	8.9	0.05	8.6195
0.75	2.079	8.5	9.8	0.05	9.4956
0.752	2.073	8.6	9.9	0.05	9.6257
0.754	2.064	8.7	10.1	0.05	9.7716
0.755	2.052	8.9	10.2	0.05	9.9276

B1.1.2.1.1.3 10" Water Reflection

Case ID: PuN40-icyl-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.1.3-1. $\text{Pu}(\text{NO}_3)_4$ 0M – Cylinder - 100% ^{239}Pu – 10" Water Reflection

Table B1.1.2.1.1.3-1. Critical Dimensions for Pu(NO₃)₄ 0M – Cylinder - 100% ²³⁹Pu – 10” Water Reflection

100% Pu239 Pu(NO3)4 0M Cylinder - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	13.1	17	0.2	16.1926
0.015	1.021	10.9	13.4	0.1	12.9348
0.02	1.029	9	10.9	0.1	10.5112
0.025	1.037	8.1	9.7	0.05	9.35
0.03	1.046	7.5	9	0.05	8.6283
0.032	1.049	7.3	8.7	0.05	8.4145
0.035	1.054	7.1	8.4	0.05	8.1592
0.04	1.063	6.8	8.1	0.05	7.8122
0.05	1.08	6.5	7.6	0.05	7.3452
0.06	1.097	6.2	7.3	0.05	7.0539
0.07	1.113	6	7.1	0.05	6.8709
0.08	1.13	5.9	7	0.05	6.7266
0.09	1.147	5.8	6.9	0.05	6.6395
0.1	1.164	5.7	6.8	0.05	6.5323
0.12	1.197	5.6	6.7	0.05	6.437
0.13	1.215	5.5	6.6	0.05	6.3846
0.15	1.248	5.5	6.6	0.05	6.3201
0.2	1.332	5.4	6.5	0.05	6.2359
0.239	1.397	5.3	6.5	0.05	6.2051
0.25	1.415	5.3	6.4	0.05	6.1832
0.359	1.594	5.3	6.4	0.05	6.1997
0.478	1.784	5.4	6.5	0.05	6.2572
0.5	1.818	5.4	6.5	0.05	6.2785
0.6	1.962	5.5	6.7	0.05	6.4355
0.65	2.026	5.7	6.8	0.05	6.5714
0.7	2.076	5.9	7.1	0.05	6.8096
0.75	2.079	6.5	7.7	0.05	7.4332
0.752	2.073	6.6	7.8	0.05	7.5517
0.754	2.064	6.6	7.9	0.05	7.6435
0.755	2.052	6.7	8.1	0.05	7.7605

B1.1.2.1.2 3 Molar Excess Acid

B1.1.2.1.2.1 0" Water Reflection

Case ID: PuN43-icyl-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.2.1-1. Pu(NO₃)₄ 3M – Cylinder - 100% ²³⁹Pu – 0" Water Reflection

Table B1.1.2.1.2.1-1. Critical Dimensions for Pu(NO₃)₄ 3M – Cylinder - 100% ²³⁹Pu – 0” Water Reflection

100% Pu239 Pu(NO3)4 3M Cylinder - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	17.4	22.3	0.2	21.3173
0.015	1.123	14.5	17.7	0.1	17.0363
0.02	1.132	12.4	14.6	0.1	14.0673
0.025	1.14	11.4	13.1	0.05	12.7364
0.03	1.149	10.7	12.3	0.05	11.9349
0.032	1.152	10.5	12.1	0.05	11.7076
0.035	1.157	10.3	11.8	0.05	11.4352
0.04	1.165	10	11.4	0.05	11.0646
0.05	1.182	9.6	10.9	0.05	10.576
0.06	1.198	9.3	10.6	0.05	10.3067
0.07	1.215	9.2	10.4	0.05	10.1186
0.08	1.231	9.1	10.3	0.05	9.9862
0.09	1.247	9	10.2	0.05	9.9066
0.1	1.263	8.9	10.1	0.05	9.8483
0.12	1.294	8.9	10	0.05	9.761
0.13	1.311	8.8	10	0.05	9.7422
0.15	1.342	8.8	10.1	0.05	9.7084
0.2	1.421	8.8	10	0.05	9.7128
0.239	1.481	8.8	10.1	0.05	9.7435
0.25	1.498	8.9	10	0.05	9.7825
0.359	1.665	9	10.2	0.05	9.9383
0.478	1.841	9.3	10.5	0.05	10.2316
0.5	1.871	9.4	10.6	0.05	10.3235
0.6	1.998	9.9	11.2	0.05	10.8459
0.65	2.043	10.4	11.7	0.05	11.425
0.66	2.049	10.5	11.9	0.05	11.58
0.67	2.053	10.7	12.1	0.05	11.7806
0.68	2.053	10.9	12.4	0.05	12.0568
0.69	2.045	11.3	12.8	0.05	12.466
0.698	2.017	12.1	13.6	0.05	13.2338

B1.1.2.1.2.2 1" Water Reflection

Case ID: PuN43-icyl-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.2.2-1. Pu(NO₃)₄ 3M – Cylinder - 100% ²³⁹Pu – 1” Water Reflection

Table B1.1.2.1.2.2-1. Critical Dimensions for Pu(NO₃)₄ 3M – Cylinder - 100% ²³⁹Pu – 1” Water Reflection

100% Pu239 Pu(NO3)4 3M Cylinder - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	15.8	20.7	0.2	19.7474
0.015	1.123	13	16.1	0.1	15.5025
0.02	1.132	10.9	13	0.1	12.5503
0.025	1.14	9.8	11.6	0.1	11.1838
0.03	1.149	9.2	10.7	0.05	10.389
0.032	1.152	9	10.5	0.05	10.1707
0.035	1.157	8.7	10.2	0.05	9.877
0.04	1.165	8.4	9.8	0.05	9.517
0.05	1.182	8	9.3	0.05	9.032
0.06	1.198	7.8	9	0.05	8.7591
0.07	1.215	7.6	8.8	0.05	8.5476
0.08	1.231	7.5	8.7	0.05	8.4508
0.09	1.247	7.4	8.6	0.05	8.3264
0.1	1.263	7.4	8.5	0.05	8.2554
0.12	1.294	7.3	8.5	0.05	8.2023
0.13	1.311	7.3	8.4	0.05	8.154
0.15	1.342	7.3	8.4	0.05	8.127
0.2	1.421	7.3	8.4	0.05	8.1185
0.239	1.481	7.3	8.4	0.05	8.1602
0.25	1.498	7.3	8.4	0.05	8.1551
0.359	1.665	7.4	8.6	0.05	8.3307
0.478	1.841	7.7	8.9	0.05	8.5847
0.5	1.871	7.7	8.9	0.05	8.6616
0.6	1.998	8.1	9.4	0.05	9.1176
0.65	2.043	8.6	9.9	0.05	9.5847
0.66	2.049	8.7	10	0.05	9.7314
0.67	2.053	8.8	10.2	0.05	9.898
0.68	2.053	9.1	10.5	0.05	10.1248
0.69	2.045	9.4	10.8	0.05	10.4858
0.698	2.017	10	11.4	0.05	11.1261

B1.1.2.1.2.3 10" Water Reflection

Case ID: PuN43-icyl-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.2.3-1. $\text{Pu}(\text{NO}_3)_4$ 3M – Cylinder - 100% ^{239}Pu – 10" Water Reflection

Table B1.1.2.1.2.3-1. Critical Dimensions for Pu(NO₃)₄ 3M – Cylinder - 100% ²³⁹Pu – 10” Water Reflection

100% Pu239 Pu(NO3)4 3M Cylinder- 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	14.7	19.6	0.2	18.6193
0.015	1.123	11.9	14.9	0.1	14.3553
0.02	1.132	9.7	11.8	0.1	11.401
0.025	1.14	8.7	10.4	0.05	10.0215
0.03	1.149	8	9.5	0.05	9.1879
0.032	1.152	7.8	9.3	0.05	8.9546
0.035	1.157	7.6	9	0.05	8.642
0.04	1.165	7.2	8.6	0.05	8.2573
0.05	1.182	6.8	8	0.05	7.7602
0.06	1.198	6.5	7.7	0.05	7.4304
0.07	1.215	6.4	7.5	0.05	7.2066
0.08	1.231	6.2	7.3	0.05	7.0788
0.09	1.247	6.1	7.2	0.05	6.9636
0.1	1.263	6	7.1	0.05	6.8843
0.12	1.294	5.95	7	0.05	6.7601
0.13	1.311	5.9	7	0.05	6.6984
0.15	1.342	5.8	6.9	0.05	6.6651
0.2	1.421	5.7	6.8	0.05	6.6052
0.239	1.481	5.7	6.8	0.05	6.6114
0.25	1.498	5.7	6.8	0.05	6.5884
0.359	1.665	5.8	6.9	0.05	6.6658
0.478	1.841	5.9	7.1	0.05	6.8372
0.5	1.871	6	7.1	0.05	6.8977
0.6	1.998	6.3	7.5	0.05	7.222
0.65	2.043	6.6	7.9	0.05	7.5676
0.66	2.049	6.6	7.9	0.05	7.6824
0.67	2.053	6.8	8.1	0.05	7.7564
0.68	2.053	6.9	8.2	0.05	7.9737
0.69	2.045	7.15	8.5	0.05	8.2184
0.698	2.017	7.5	9	0.05	8.6798

B1.1.2.1.3 6 Molar Excess Acid

B1.1.2.1.3.1 0" Water Reflection

Case ID: PuN46-icyl-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.3.1-1. Pu(NO₃)₄ 6M – Cylinder - 100% ²³⁹Pu – 0" Water Reflection

Table B1.1.2.1.3.1-1. Critical Dimensions for Pu(NO₃)₄ 6M – Cylinder - 100% ²³⁹Pu – 0” Water Reflection

100% Pu239 Pu(NO3)4 6M Cylinder - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	19.4	25.8	0.3	24.4075
0.015	1.212	15.9	19.5	0.1	18.8338
0.02	1.22	13.4	15.8	0.1	15.2923
0.025	1.229	12.1	14.1	0.1	13.6885
0.03	1.237	11.4	13.1	0.05	12.7775
0.032	1.24	11.2	12.9	0.05	12.5027
0.035	1.245	10.9	12.5	0.05	12.2089
0.04	1.253	10.6	12.1	0.05	11.8001
0.05	1.27	10.2	11.6	0.05	11.2439
0.06	1.286	9.9	11.2	0.05	10.9336
0.07	1.301	9.8	11	0.05	10.7413
0.08	1.317	9.6	10.9	0.05	10.6166
0.09	1.333	9.5	10.8	0.05	10.515
0.1	1.349	9.5	10.8	0.05	10.4594
0.12	1.379	9.4	10.7	0.05	10.3749
0.13	1.395	9.4	10.7	0.05	10.3375
0.15	1.426	9.4	10.6	0.05	10.3303
0.2	1.503	9.4	10.7	0.05	10.3564
0.239	1.563	9.5	10.7	0.05	10.3958
0.25	1.58	9.5	10.7	0.05	10.4222
0.359	1.748	9.6	10.9	0.05	10.6134
0.478	1.935	9.8	11.1	0.05	10.7839
0.5	1.969	9.9	11.1	0.05	10.835
0.6	2.122	10.1	11.4	0.05	11.0809
0.65	2.197	10.2	11.5	0.05	11.2237
0.7	2.268	10.4	11.7	0.05	11.4224
0.75	2.335	10.7	12	0.05	11.6914
0.76	2.348	10.7	12.1	0.05	11.76
0.765	2.354	10.8	12.1	0.05	11.8168
0.77	2.36	10.8	12.2	0.05	11.8463
0.775	2.367	10.8	12.2	0.05	11.8789

B1.1.2.1.3.2 1" Water Reflection

Case ID: PuN46-icyl-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.3.2-1. Pu(NO₃)₄ 6M – Cylinder - 100% ²³⁹Pu – 1” Water Reflection

Table B1.1.2.1.3.2-1. Critical Dimensions for Pu(NO₃)₄ 6M – Cylinder - 100% ²³⁹Pu – 1” Water Reflection

100% Pu239 Pu(NO3)4 6M Cylinder - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	17.8	24.1	0.3	22.8535
0.015	1.212	14.3	17.9	0.1	17.2257
0.02	1.22	11.8	14.2	0.1	13.6965
0.025	1.229	10.6	12.5	0.1	12.1036
0.03	1.237	9.8	11.5	0.05	11.1767
0.032	1.24	9.6	11.3	0.05	10.9263
0.035	1.245	9.4	11	0.05	10.6091
0.04	1.253	9	10.5	0.05	10.1846
0.05	1.27	8.6	10	0.05	9.6547
0.06	1.286	8.3	9.6	0.05	9.3416
0.07	1.301	8.1	9.4	0.05	9.13
0.08	1.317	8	9.3	0.05	9.0033
0.09	1.333	7.9	9.2	0.05	8.8851
0.1	1.349	7.9	9.1	0.05	8.8226
0.12	1.379	7.8	9.1	0.05	8.7419
0.13	1.395	7.8	9	0.05	8.7145
0.15	1.426	7.7	9	0.05	8.6938
0.2	1.503	7.7	9	0.05	8.6941
0.239	1.563	7.8	9	0.05	8.7484
0.25	1.58	7.8	9	0.05	8.7541
0.359	1.748	8	9.2	0.1	8.9245
0.478	1.935	8.1	9.4	0.05	9.0965
0.5	1.969	8.2	9.4	0.05	9.1457
0.6	2.122	8.4	9.7	0.05	9.349
0.65	2.197	8.5	9.8	0.05	9.487
0.7	2.268	8.7	10	0.05	9.6788
0.75	2.335	8.9	10.2	0.05	9.922
0.76	2.348	8.9	10.3	0.05	10.0088
0.765	2.354	9	10.3	0.05	10.0283
0.77	2.36	9	10.4	0.05	10.0809
0.775	2.367	9	10.4	0.05	10.0745

B1.1.2.1.3.3 10" Water Reflection

Case ID: PuN46-icyl-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.1.3.3-1. Pu(NO₃)₄ 6M – Cylinder - 100% ²³⁹Pu – 10" Water Reflection

Table B1.1.2.1.3.3-1. Critical Dimensions for Pu(NO₃)₄ 6M – Cylinder - 100% ²³⁹Pu – 10” Water Reflection

100% Pu239 Pu(NO3)4 6M Cylinder - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	16.7	22.9	0.3	21.6275
0.015	1.212	13.1	16.7	0.1	15.989
0.02	1.22	10.6	12.9	0.1	12.4653
0.025	1.229	9.3	11	0.1	10.8174
0.03	1.237	8.6	10.3	0.05	9.8863
0.032	1.24	8.4	10	0.05	9.6273
0.035	1.245	8.15	9.6	0.05	9.2902
0.04	1.253	7.7	9.2	0.05	8.8573
0.05	1.27	7.3	8.6	0.05	8.2984
0.06	1.286	7	8.2	0.05	7.9429
0.07	1.301	6.8	8	0.05	7.7076
0.08	1.317	6.6	7.8	0.05	7.5515
0.09	1.333	6.5	7.7	0.05	7.4187
0.1	1.349	6.4	7.6	0.05	7.3434
0.12	1.379	6.3	7.5	0.05	7.2082
0.13	1.395	6.3	7.4	0.05	7.178
0.15	1.426	6.2	7.4	0.05	7.1303
0.2	1.503	6.3	7.3	0.05	7.0706
0.239	1.563	6.2	7.3	0.05	7.0639
0.25	1.58	6.2	7.3	0.05	7.076
0.359	1.748	6.2	7.4	0.05	7.1505
0.478	1.935	6.3	7.5	0.05	7.2583
0.5	1.969	6.3	7.6	0.05	7.2854
0.6	2.122	6.5	7.7	0.05	7.4409
0.65	2.197	6.6	7.8	0.05	7.5481
0.7	2.268	6.7	8	0.05	7.6681
0.75	2.335	6.8	8.1	0.05	7.8659
0.76	2.348	6.9	8.2	0.05	7.8994
0.765	2.354	6.9	8.2	0.05	7.9464
0.77	2.36	6.9	8.3	0.05	7.9485
0.775	2.367	6.9	8.3	0.05	7.9778

B1.1.2.2 97% ²³⁹Pu

B1.1.2.2.1 0 Molar Excess Acid

B1.1.2.2.1.1 0" Water Reflection

Case ID: PuN40-icyl-0970-00

Material: Pu(NO₃)₄ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ²³⁹Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.1.1-1. Pu(NO₃)₄ 0M – Cylinder - 97% ²³⁹Pu – 0" Water Reflection

Table B1.1.2.2.1.1-1. Critical Dimensions for Pu(NO₃)₄ 0M – Cylinder - 97% ²³⁹Pu – 0” Water Reflection

97 % Pu239 Pu(NO3)4 0M Cylinder- 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	16.4	20.8	0.2	20.0419
0.015	1.021	13.9	16.9	0.1	16.2832
0.02	1.029	12	14.1	0.1	13.6883
0.025	1.037	11.1	12.8	0.05	12.4409
0.03	1.046	10.5	12.1	0.05	11.7233
0.032	1.049	10.3	11.8	0.05	11.5081
0.035	1.054	10.1	11.6	0.05	11.2518
0.04	1.063	9.8	11.2	0.05	10.9168
0.05	1.08	9.5	10.8	0.05	10.5076
0.06	1.097	9.3	10.6	0.05	10.2621
0.07	1.113	9.1	10.4	0.05	10.1253
0.08	1.13	9	10.3	0.05	10.0185
0.09	1.147	9	10.3	0.05	9.9538
0.1	1.164	9	10.2	0.05	9.9223
0.12	1.197	9	10.2	0.05	9.8906
0.13	1.215	8.9	10.1	0.05	9.8694
0.15	1.248	8.9	10.2	0.05	9.8877
0.2	1.332	9	10.2	0.05	9.9462
0.239	1.397	9	10.3	0.05	10.0085
0.25	1.415	9	10.4	0.05	10.0319
0.359	1.594	9.2	10.5	0.05	10.2398
0.478	1.784	9.4	10.8	0.05	10.4771
0.5	1.818	9.5	10.9	0.05	10.5291
0.6	1.962	9.8	11.2	0.05	10.8705
0.65	2.026	10	11.5	0.1	11.1356
0.7	2.076	10.4	11.9	0.05	11.5825
0.75	2.08	11.4	13.1	0.05	12.7566
0.752	2.074	11.6	13.3	0.05	12.9027
0.754	2.064	11.8	13.5	0.05	13.1201
0.755	2.054	12	13.7	0.05	13.3177

B1.1.2.2.1.2 1" Water Reflection

Case ID: PuN40-icyl-0970-01

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.1.2-1. Pu(NO₃)₄ 0M – Cylinder - 97% ²³⁹Pu – 1" Water Reflection

Table B1.1.2.2.1.2-1. Critical Dimensions for Pu(NO₃)₄ 0M – Cylinder - 97% ²³⁹Pu – 1” Water Reflection

97 % Pu239 Pu(NO3)4 0M Cylinder- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	15	19.4	0.2	18.5111
0.015	1.021	12.5	15.3	0.1	14.7652
0.02	1.029	10.5	12.6	0.1	12.1667
0.025	1.037	9.6	11.3	0.05	10.9244
0.03	1.046	9	10.6	0.05	10.194
0.032	1.049	8.8	10.3	0.05	9.9861
0.035	1.054	8.6	10.1	0.05	9.7162
0.04	1.063	8.3	9.7	0.05	9.3854
0.05	1.08	7.9	9.3	0.05	8.9635
0.06	1.097	7.7	9	0.05	8.7116
0.07	1.113	7.6	8.8	0.05	8.5725
0.08	1.13	7.5	8.8	0.05	8.4603
0.09	1.147	7.5	8.7	0.05	8.3962
0.1	1.164	7.4	8.6	0.05	8.3554
0.12	1.197	7.4	8.6	0.05	8.3185
0.13	1.215	7.4	8.6	0.05	8.3012
0.15	1.248	7.4	8.6	0.05	8.3076
0.2	1.332	7.4	8.55	0.05	8.3627
0.239	1.397	7.5	8.7	0.05	8.4323
0.25	1.415	7.5	8.7	0.05	8.4505
0.359	1.594	7.6	8.9	0.05	8.6454
0.478	1.784	7.8	9.1	0.05	8.8849
0.5	1.818	7.9	9.3	0.05	8.9487
0.6	1.962	8.2	9.6	0.05	9.2585
0.65	2.026	8.4	9.8	0.05	9.4952
0.7	2.076	8.7	10.2	0.05	9.8849
0.75	2.08	9.6	11.3	0.05	10.884
0.752	2.074	9.7	11.4	0.05	11.0095
0.754	2.064	9.9	11.6	0.05	11.1936
0.755	2.054	10	11.7	0.05	11.3479

B1.1.2.2.1.3 10" Water Reflection

Case ID: PuN40-icyl-0970-10

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.1.3-1. $\text{Pu}(\text{NO}_3)_4$ 0M – Cylinder - 97% ^{239}Pu – 10" Water Reflection

Table B1.1.2.2.1.3-1. Critical Dimensions for Pu(NO₃)₄ 0M – Cylinder - 97% ²³⁹Pu – 10” Water Reflection

97 % Pu239 Pu(NO3)4 0M Cylinder- 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.016	13.9	18.2	0.2	17.3852
0.015	1.021	11.4	14.2	0.1	13.6303
0.02	1.029	9.4	11.4	0.1	11.0214
0.025	1.037	8.4	10.1	0.05	9.7576
0.03	1.046	7.8	9.3	0.05	8.9999
0.032	1.049	7.6	9.1	0.05	8.7866
0.035	1.054	7.4	8.8	0.05	8.5131
0.04	1.063	7.1	8.5	0.05	8.1566
0.05	1.08	6.7	8	0.05	7.7002
0.06	1.097	6.5	7.7	0.05	7.4258
0.07	1.113	6.3	7.5	0.05	7.2527
0.08	1.13	6.2	7.4	0.05	7.1158
0.09	1.147	6.1	7.3	0.05	7.0336
0.1	1.164	6.2	7.1	0.05	6.9558
0.12	1.197	6	6.9	0.05	6.8877
0.13	1.215	6.1	6.9	0.05	6.8571
0.15	1.248	5.9	7	0.05	6.8338
0.2	1.332	5.9	7.1	0.05	6.8254
0.239	1.397	5.9	7.1	0.05	6.8599
0.25	1.415	5.9	7.1	0.05	6.8678
0.359	1.594	6	7.2	0.05	6.9825
0.478	1.784	6.1	7.3	0.05	7.1528
0.5	1.818	6.2	7.5	0.05	7.1909
0.6	1.962	7.2	7.5	0.02	7.436
0.65	2.026	6.5	7.7	0.05	7.6108
0.7	2.076	6.8	8.2	0.05	7.8932
0.75	2.08	7.4	9	0.05	8.6343
0.752	2.074	7.5	9	0.05	8.7289
0.754	2.064	7.6	9.2	0.05	8.874
0.755	2.054	7.7	9.9	0.1	8.9866

B1.1.2.2.2 3 Molar Excess Acid

B1.1.2.2.2.1 0" Water Reflection

Case ID: PuN43-icyl-0970-00

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.1-1. $\text{Pu}(\text{NO}_3)_4$ 3M – Cylinder - 97% ^{239}Pu – 0" Water Reflection

Table B1.1.2.2.1-1. Critical Dimensions for Pu(NO₃)₄ 3M – Cylinder - 97% ²³⁹Pu – 0” Water Reflection

97 % Pu239 Pu(NO3)4 3M Cylinder- 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	18.4	24.1	0.2	23.0228
0.015	1.123	15.2	18.6	0.1	17.946
0.02	1.132	12.8	15.2	0.1	14.718
0.025	1.14	11.7	13.7	0.1	13.2455
0.03	1.149	11	12.8	0.1	12.401
0.032	1.152	10.8	12.5	0.05	12.1607
0.035	1.157	10.6	12.2	0.05	11.8652
0.04	1.165	10.3	11.8	0.05	11.5023
0.05	1.182	10	11.3	0.05	11.0282
0.06	1.198	9.7	11.1	0.05	10.7451
0.07	1.215	9.5	10.9	0.05	10.5938
0.08	1.231	9.5	10.8	0.05	10.496
0.09	1.247	9.4	10.7	0.05	10.4254
0.1	1.263	9.4	10.7	0.05	10.3895
0.12	1.294	9.4	10.7	0.05	10.3774
0.13	1.311	9.4	10.7	0.05	10.3688
0.15	1.342	9.45	10.7	0.05	10.3933
0.2	1.421	9.5	10.75	0.05	10.5191
0.239	1.481	9.6	11	0.05	10.641
0.25	1.498	9.6	11	0.05	10.6802
0.359	1.665	9.9	11.4	0.05	11.0399
0.478	1.841	10.3	11.8	0.05	11.4874
0.5	1.871	10.4	12	0.05	11.614
0.6	1.998	11	12.6	0.05	12.2412
0.65	2.043	11.65	13.2	0.05	12.87
0.66	2.049	11.7	13.4	0.05	13.0496
0.67	2.053	12	13.6	0.05	13.2741
0.68	2.053	12.2	14	0.1	13.5914
0.69	2.046	12.6	14.4	0.1	14.0211
0.698	2.018	13.4	15.3	0.1	14.8525

B1.1.2.2.2.2 1" Water Reflection

Case ID: PuN43-icyl-0970-01

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.2-1. Pu(NO₃)₄ 3M – Cylinder - 97% ²³⁹Pu – 1" Water Reflection

Table B1.1.2.2.2-1. Critical Dimensions for Pu(NO₃)₄ 3M – Cylinder - 97% ²³⁹Pu – 1” Water Reflection

97 % Pu239 Pu(NO3)4 3M Cylinder- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	16.9	22.5	0.2	21.4679
0.015	1.123	13.6	17.1	0.1	16.4142
0.02	1.132	11.3	13.7	0.1	13.1751
0.025	1.14	10.2	12.1	0.1	11.6868
0.03	1.149	9.5	11.2	0.05	10.8662
0.032	1.152	9.3	11	0.05	10.616
0.035	1.157	9.1	10.6	0.05	10.3254
0.04	1.165	8.8	10.3	0.05	9.9346
0.05	1.182	8.4	9.8	0.05	9.4676
0.06	1.198	8.1	9.5	0.05	9.1904
0.07	1.215	8	9.3	0.05	9.0115
0.08	1.231	7.9	9.2	0.05	8.9094
0.09	1.247	7.8	9.1	0.05	8.8372
0.1	1.263	7.8	9.1	0.05	8.7927
0.12	1.294	7.8	9.1	0.05	8.7759
0.13	1.311	7.8	8.95	0.05	8.76
0.15	1.342	7.8	9.1	0.05	8.7907
0.2	1.421	7.9	9.2	0.05	8.8963
0.239	1.481	8	9.3	0.05	9.0078
0.25	1.498	8	9.3	0.05	9.0445
0.359	1.665	8.3	9.7	0.05	9.3835
0.478	1.841	8.6	10.1	0.05	9.7935
0.5	1.871	8.7	10.2	0.05	9.8915
0.6	1.998	9.3	10.8	0.05	10.4822
0.65	2.043	9.7	11.4	0.05	11.0333
0.66	2.049	9.9	11.5	0.05	11.1822
0.67	2.053	10	11.7	0.05	11.3837
0.68	2.053	10.3	12	0.05	11.6378
0.69	2.046	10.6	12.4	0.1	12.0144
0.698	2.018	11.3	13.1	0.1	12.7574

B1.1.2.2.2.3 10" Water Reflection

Case ID: PuN43-icyl-0970-10

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.3-1. $\text{Pu}(\text{NO}_3)_4$ 3M – Cylinder - 97% ^{239}Pu – 10" Water Reflection

Table B1.1.2.2.3-1. Critical Dimensions for Pu(NO₃)₄ 3M – Cylinder - 97% ²³⁹Pu – 10” Water Reflection

97 % Pu239 Pu(NO3)4 3M Cylinder- 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.118	15.7	21.4	0.2	20.3307
0.015	1.123	12.6	15.9	0.1	15.2232
0.02	1.132	10.1	12.5	0.1	11.9896
0.025	1.14	9	10.9	0.1	10.495
0.03	1.149	8.3	10	0.05	9.6291
0.032	1.152	8.1	9.7	0.05	9.3777
0.035	1.157	7.9	9.4	0.05	9.0594
0.04	1.165	7.5	9	0.05	8.6634
0.05	1.182	7.1	8.5	0.05	8.1548
0.06	1.198	6.8	8.1	0.05	7.8423
0.07	1.215	6.7	7.9	0.05	7.6431
0.08	1.231	6.5	7.8	0.05	7.5
0.09	1.247	6.4	7.7	0.05	7.4144
0.1	1.263	6.4	7.6	0.05	7.3543
0.12	1.294	6.3	7.5	0.05	7.2738
0.13	1.311	6.3	7.45	0.05	7.2543
0.15	1.342	6.3	7.5	0.05	7.2403
0.2	1.421	6.3	7.5	0.05	7.2542
0.239	1.481	6.35	7.6	0.05	7.3323
0.25	1.498	6.4	7.6	0.05	7.3399
0.359	1.665	6.5	7.9	0.05	7.5781
0.478	1.841	6.8	8.2	0.05	7.8817
0.5	1.871	6.8	8.3	0.05	7.9559
0.6	1.998	7.2	8.7	0.05	8.3905
0.65	2.043	7.5	9.2	0.05	8.8014
0.66	2.049	7.65	9.3	0.05	8.9137
0.67	2.053	7.8	9.4	0.05	9.047
0.68	2.053	7.9	9.6	0.25	9.2442
0.69	2.046	8.2	9.9	0.05	9.5317
0.698	2.018	8.6	10.4	0.1	10.0699

B1.1.2.2.3 6 Molar Excess Acid

B1.1.2.2.3.1 0" Water Reflection

Case ID: PuN46-icyl-0970-00

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.3.1-1. Pu(NO₃)₄ 6M – Cylinder - 97% ²³⁹Pu – 0" Water Reflection

Table B1.1.2.2.3.1-1. Critical Dimensions for Pu(NO₃)₄ 6M – Cylinder - 97% ²³⁹Pu – 0” Water Reflection

97 % Pu239 Pu(NO3)4 6M Cylinder- 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	20.7	28.4	0.3	26.8366
0.015	1.212	16.6	20.8	0.2	19.9948
0.02	1.22	13.9	16.6	0.1	16.0108
0.025	1.229	12.6	14.7	0.1	14.2684
0.03	1.237	11.8	13.7	0.1	13.3245
0.032	1.24	11.6	13.4	0.1	13.0233
0.035	1.245	11.4	13.1	0.05	12.7048
0.04	1.253	11	12.7	0.05	12.2825
0.05	1.27	10.6	12.1	0.05	11.7565
0.06	1.286	10.3	11.8	0.05	11.4484
0.07	1.301	10.2	11.6	0.05	11.2841
0.08	1.317	10.1	11.5	0.05	11.1708
0.09	1.333	10	11.4	0.05	11.1008
0.1	1.349	9.9	11.4	0.05	11.0623
0.12	1.379	10	11.4	0.05	11.0539
0.13	1.395	10	11.4	0.05	11.0483
0.15	1.426	10	11.4	0.05	11.0981
0.2	1.503	10.1	11.6	0.05	11.2536
0.239	1.563	10.3	11.7	0.05	11.4031
0.25	1.58	10.3	11.8	0.05	11.4474
0.359	1.748	10.6	12.2	0.05	11.8328
0.478	1.935	10.9	12.5	0.05	12.1613
0.5	1.969	11	12.6	0.05	12.2139
0.6	2.122	11.2	12.9	0.05	12.5106
0.65	2.197	11.4	13	0.05	12.6713
0.7	2.268	11.6	13.3	0.05	12.8927
0.75	2.335	11.8	13.5	0.05	13.1854
0.76	2.348	11.9	13.6	0.05	13.2411
0.765	2.354	11.9	13.7	0.1	13.2868
0.77	2.36	12	13.7	0.05	13.3394
0.775	2.367	12	13.7	0.05	13.3687

B1.1.2.2.3.2 1" Water Reflection

Case ID: PuN46-icyl-0970-01

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.3.2-1. Pu(NO₃)₄ 6M – Cylinder - 97% ²³⁹Pu – 1" Water Reflection

Table B1.1.2.2.3.2-1. Critical Dimensions for Pu(NO₃)₄ 6M – Cylinder - 97% ²³⁹Pu – 1” Water Reflection

97 % Pu239 Pu(NO3)4 6M Cylinder- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	19.2	26.8	0.3	25.198
0.015	1.212	15.1	19.2	0.2	18.3879
0.02	1.22	12.3	14.9	0.1	14.4374
0.025	1.229	11	13.1	0.1	12.6771
0.03	1.237	10.3	12.1	0.1	11.7262
0.032	1.24	10	11.8	0.1	11.4404
0.035	1.245	9.8	11.5	0.05	11.0938
0.04	1.253	9.4	11	0.05	10.6735
0.05	1.27	9	10.5	0.05	10.126
0.06	1.286	8.7	10.2	0.05	9.8299
0.07	1.301	8.5	10	0.05	9.6635
0.08	1.317	8.4	9.8	0.05	9.538
0.09	1.333	8.4	9.8	0.05	9.4737
0.1	1.349	8.4	9.7	0.05	9.4155
0.12	1.379	8.3	9.7	0.05	9.4093
0.13	1.395	8.4	9.7	0.05	9.3951
0.15	1.426	8.3	9.7	0.05	9.4317
0.2	1.503	8.5	9.9	0.05	9.5717
0.239	1.563	8.6	10	0.05	9.7071
0.25	1.58	8.6	10.1	0.05	9.7379
0.359	1.748	8.9	10.4	0.05	10.1035
0.478	1.935	9.2	10.8	0.05	10.4174
0.5	1.969	9.3	10.8	0.05	10.4822
0.6	2.122	9.5	11.1	0.05	10.7574
0.65	2.197	9.6	11.2	0.05	10.9275
0.7	2.268	9.8	11.5	0.05	11.1276
0.75	2.335	10.1	11.8	0.05	11.3892
0.76	2.348	10.1	11.8	0.05	11.4472
0.765	2.354	10.2	11.9	0.05	11.4993
0.77	2.36	10.2	11.9	0.05	11.5302
0.775	2.367	10.2	11.9	0.05	11.5585

B1.1.2.2.3.3 10" Water Reflection

Case ID: PuN46-icyl-0970-10

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 97% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.2.2.3.3-1. $\text{Pu}(\text{NO}_3)_4$ 6M – Cylinder - 97% ^{239}Pu – 10" Water Reflection

Table B1.1.2.2.3.3-1. Critical Dimensions for Pu(NO₃)₄ 6M – Cylinder - 97% ²³⁹Pu – 10” Water Reflection

97 % Pu239 Pu(NO3)4 6M Cylinder- 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.207	17.9	25.6	0.3	23.9584
0.015	1.212	13.9	18	0.2	17.1667
0.02	1.22	11.1	13.7	0.1	13.175
0.025	1.229	9.7	11.8	0.1	11.4159
0.03	1.237	9	10.8	0.1	10.4219
0.032	1.24	8.7	10.5	0.1	10.1284
0.035	1.245	8.5	10.1	0.05	9.7647
0.04	1.253	8.1	9.7	0.05	9.3281
0.05	1.27	7.6	9	0.05	8.76
0.06	1.286	7.3	8.7	0.05	8.4147
0.07	1.301	7.1	8.5	0.05	8.2105
0.08	1.317	7	8.3	0.05	8.0517
0.09	1.333	6.9	8.2	0.05	7.9426
0.1	1.349	6.8	8.2	0.05	7.8749
0.12	1.379	6.8	8.1	0.05	7.7985
0.13	1.395	6.8	8	0.05	7.7859
0.15	1.426	6.7	8.1	0.05	7.7721
0.2	1.503	6.8	8.1	0.05	7.8235
0.239	1.563	6.8	8.2	0.05	7.8897
0.25	1.58	6.8	8.2	0.05	7.9241
0.359	1.748	7	8.5	0.05	8.1655
0.478	1.935	7.2	8.7	0.05	8.3885
0.5	1.969	7.2	8.8	0.05	8.443
0.6	2.122	7.4	9	0.05	8.6508
0.65	2.197	7.5	9.1	0.05	8.7729
0.7	2.268	7.6	9.3	0.05	8.9266
0.75	2.335	7.8	9.5	0.05	9.1516
0.76	2.348	7.8	9.5	0.05	9.1846
0.765	2.354	7.9	9.5	0.05	9.2288
0.77	2.36	7.9	9.6	0.05	9.2516
0.775	2.367	7.9	9.6	0.05	9.2649

B1.1.3 Plane

B1.1.3.1 100% ²³⁹Pu

B1.1.3.1.1 0 Molar Excess Acid

B1.1.3.1.1.1 0" Water Reflection

Case ID: PuN40-pl-1000-00

Material: Pu(NO₃)₄ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ²³⁹Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.1-1. Pu(NO₃)₄ 0M – Plane - 100% ²³⁹Pu – 0” Water Reflection

**Table B1.1.3.1.1-1. Critical Dimensions for Pu(NO₃)₄ 0M – Plane - 100% ²³⁹Pu – 0”
Water Reflection**

100% Pu239 Pu(NO ₃) ₄ 0M Plane - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.016	9.7	12.1	0.1	11.6392
0.015	1.021	8.2	9.9	0.05	9.5107
0.02	1.029	7	8.3	0.05	7.976
0.025	1.037	6.4	7.5	0.05	7.2443
0.03	1.046	6.1	7	0.05	6.8072
0.032	1.049	5.9	6.9	0.05	6.6524
0.035	1.054	5.8	6.7	0.05	6.5136
0.04	1.063	5.6	6.5	0.05	6.2929
0.05	1.08	5.4	6.2	0.05	6.0227
0.06	1.097	5.3	6	0.05	5.8492
0.07	1.113	5.2	5.9	0.05	5.7401
0.08	1.13	5.1	5.9	0.05	5.6561
0.09	1.147	5	5.8	0.05	5.6029
0.1	1.164	5	5.8	0.05	5.5629
0.12	1.197	4.9	5.7	0.05	5.5075
0.13	1.215	4.9	5.7	0.05	5.4748
0.15	1.248	4.9	5.7	0.05	5.4524
0.2	1.332	4.9	5.6	0.05	5.4148
0.239	1.397	4.9	5.6	0.05	5.4094
0.25	1.415	4.9	5.6	0.05	5.4144
0.359	1.594	4.9	5.7	0.05	5.4385
0.478	1.784	5	5.7	0.05	5.513
0.5	1.818	5	5.7	0.05	5.5249
0.6	1.962	5.1	5.9	0.05	5.689
0.65	2.026	5.3	6	0.05	5.8223
0.7	2.076	5.5	6.3	0.05	6.0588
0.75	2.079	6	6.9	0.05	6.694
0.752	2.073	6.1	7	0.05	6.7666
0.754	2.064	6.2	7.1	0.05	6.8822
0.755	2.052	6.3	7.2	0.05	6.9957

B1.1.3.1.1.2 1" Water Reflection

Case ID: PuN40-pl-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.1.2-1. Pu(NO₃)₄ 0M – Plane - 100% ²³⁹Pu – 1” Water Reflection

Table B1.1.3.1.1.2-1. Critical Dimensions for Pu(NO₃)₄ 0M – Plane - 100% ²³⁹Pu – 1” Water Reflection

100% Pu239 Pu(NO3)4 0M Plane- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.016	8.1	10.6	0.1	10.1075
0.015	1.021	6.7	8.4	0.05	8.0112
0.02	1.029	5.5	6.7	0.05	6.4604
0.025	1.037	4.9	6	0.05	5.7064
0.03	1.046	4.6	5.5	0.05	5.2449
0.032	1.049	4.5	5.4	0.05	5.1355
0.035	1.054	4.3	5.2	0.05	4.9572
0.04	1.063	4.1	5	0.05	4.7477
0.05	1.08	3.9	4.7	0.05	4.4618
0.06	1.097	3.7	4.5	0.05	4.2864
0.07	1.113	3.6	4.4	0.05	4.1814
0.08	1.13	3.6	4.3	0.05	4.1006
0.09	1.147	3.5	4.2	0.05	4.0338
0.1	1.164	3.5	4.2	0.05	3.9873
0.12	1.197	3.4	4.1	0.05	3.9202
0.13	1.215	3.4	4.1	0.05	3.9091
0.15	1.248	3.4	4.1	0.05	3.8667
0.2	1.332	3.3	4	0.05	3.839
0.239	1.397	3.3	4	0.05	3.8335
0.25	1.415	3.3	4	0.05	3.8365
0.359	1.594	3.4	4	0.05	3.8485
0.478	1.784	3.4	4.1	0.05	3.9149
0.5	1.818	3.4	4.1	0.05	3.9339
0.6	1.962	3.5	4.2	0.05	4.0598
0.65	2.026	3.6	4.4	0.05	4.1688
0.7	2.076	3.8	4.6	0.05	4.348
0.75	2.079	4.2	5	0.05	4.8082
0.752	2.073	4.2	5.1	0.05	4.8791
0.754	2.064	4.3	5.2	0.05	4.9594
0.755	2.052	4.4	5.3	0.05	5.0499

B1.1.3.1.1.3 10" Water Reflection

Case ID: PuN40-pl-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.3-1. Pu(NO₃)₄ 0M – Plane - 100% ²³⁹Pu – 10” Water Reflection

**Table B1.1.3.1.1.3-1. Critical Dimensions for Pu(NO₃)₄ 0M – Plane - 100% ²³⁹Pu – 10”
Water Reflection**

100% Pu239 Pu(NO3)4 0M Plane - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.016	7	9.5	0.1	9.0109
0.015	1.021	5.6	7.2	0.05	6.8573
0.02	1.029	4.4	5.6	0.05	5.305
0.025	1.037	3.8	4.8	0.05	4.5386
0.03	1.046	3.4	4.3	0.05	4.0806
0.032	1.049	3.3	4.1	0.05	3.9273
0.035	1.054	3.1	3.9	0.05	3.7583
0.04	1.063	2.9	3.7	0.05	3.5206
0.05	1.08	2.7	3.4	0.05	3.2126
0.06	1.097	2.5	3.2	0.05	3.0168
0.07	1.113	2.4	3	0.05	2.8657
0.08	1.13	2.3	2.9	0.05	2.7678
0.09	1.147	2.2	2.9	0.05	2.6869
0.1	1.164	2.1	2.8	0.05	2.6259
0.12	1.197	2	2.7	0.05	2.5404
0.13	1.215	2	2.7	0.05	2.4932
0.15	1.248	1.9	2.6	0.05	2.4416
0.2	1.332	1.9	2.5	0.05	2.3618
0.239	1.397	1.8	2.5	0.05	2.3224
0.25	1.415	1.8	2.5	0.05	2.308
0.359	1.594	1.8	2.5	0.05	2.2759
0.478	1.784	1.8	2.5	0.05	2.2822
0.5	1.818	1.8	2.5	0.05	2.2923
0.6	1.962	1.8	2.5	0.05	2.3428
0.65	2.026	1.9	2.6	0.05	2.3908
0.7	2.076	1.9	2.7	0.05	2.5072
0.75	2.079	2.1	2.9	0.05	2.7435
0.752	2.073	2.2	3	0.05	2.8014
0.754	2.064	2.2	3	0.05	2.8271
0.755	2.052	2.3	3.1	0.05	2.8833

B1.1.3.1.2 3 Molar Excess Acid

B1.1.3.1.2.1 0" Water Reflection

Case ID: PuN43-pl-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.2.1-1. Pu(NO₃)₄ 3M – Plane - 100% ²³⁹Pu – 0” Water Reflection

**Table B1.1.3.1.2.1-1. Critical Dimensions for Pu(NO₃)₄ 3M – Plane - 100% ²³⁹Pu – 0”
Water Reflection**

100% Pu239 Pu(NO3)4 3M Plane - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.118	10.7	13.9	0.1	13.2494
0.015	1.123	8.8	10.9	0.1	10.4597
0.02	1.132	7.5	8.9	0.05	8.5809
0.025	1.14	6.8	8	0.05	7.7138
0.03	1.149	6.4	7.4	0.05	7.1876
0.032	1.152	6.3	7.3	0.05	7.0331
0.035	1.157	6.1	7.1	0.05	6.8541
0.04	1.165	5.9	6.8	0.05	6.6159
0.05	1.182	5.7	6.5	0.05	6.315
0.06	1.198	5.5	6.3	0.05	6.1357
0.07	1.215	5.4	6.2	0.05	5.9998
0.08	1.231	5.3	6.1	0.05	5.9261
0.09	1.247	5.3	6.1	0.05	5.8743
0.1	1.263	5.2	6	0.05	5.8241
0.12	1.294	5.2	6	0.05	5.7656
0.13	1.311	5.2	5.9	0.05	5.7447
0.15	1.342	5.2	5.9	0.05	5.738
0.2	1.421	5.2	5.9	0.05	5.7308
0.239	1.481	5.2	5.9	0.05	5.7593
0.25	1.498	5.2	6	0.05	5.7659
0.359	1.665	5.3	6.1	0.05	5.8636
0.478	1.841	5.4	6.2	0.05	6.0428
0.5	1.871	5.5	6.3	0.05	6.0901
0.6	1.998	5.8	6.6	0.05	6.4127
0.65	2.043	6.1	7	0.05	6.7495
0.66	2.049	6.2	7.1	0.05	6.8476
0.67	2.053	6.3	7.2	0.05	6.9698
0.68	2.053	6.4	7.3	0.05	7.1268
0.69	2.045	6.7	7.6	0.05	7.3782
0.698	2.017	7.1	8.1	0.05	7.8535

B1.1.3.1.2.2 1" Water Reflection

Case ID: PuN43-pl-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.2.2-1. Pu(NO₃)₄ 3M – Plane - 100% ²³⁹Pu – 1” Water Reflection

**Table B1.1.3.1.2.2-1. Critical Dimensions for Pu(NO₃)₄ 3M – Plane - 100% ²³⁹Pu – 1”
Water Reflection**

100% Pu239 Pu(NO3)4 3M Plane - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.118	9.2	12.3	0.1	11.7075
0.015	1.123	7.3	9.3	0.1	8.9095
0.02	1.132	5.9	7.3	0.05	7.028
0.025	1.14	5.3	6.4	0.05	6.1512
0.03	1.149	4.8	5.9	0.05	5.6232
0.032	1.152	4.7	5.7	0.05	5.4823
0.035	1.157	4.6	5.5	0.05	5.2913
0.04	1.165	4.4	5.3	0.05	5.0704
0.07	1.215	3.8	4.6	0.05	4.4313
0.08	1.231	3.8	4.5	0.05	4.3311
0.09	1.247	3.7	4.4	0.05	4.2686
0.1	1.263	3.7	4.4	0.05	4.2163
0.12	1.294	3.6	4.3	0.05	4.1662
0.13	1.311	3.6	4.3	0.05	4.1563
0.15	1.342	3.6	4.3	0.05	4.1304
0.2	1.421	3.5	4.3	0.05	4.1087
0.239	1.481	3.6	4.3	0.05	4.1177
0.25	1.498	3.6	4.3	0.05	4.129
0.359	1.665	3.6	4.4	0.05	4.204
0.478	1.841	3.8	4.5	0.05	4.3407
0.5	1.871	3.8	4.6	0.05	4.3962
0.66	2.049	4.3	5.2	0.05	4.9835
0.67	2.053	4.4	5.3	0.05	5.0503
0.68	2.053	4.5	5.4	0.05	5.1906
0.69	2.045	4.7	5.6	0.05	5.3809
0.698	2.017	5	6	0.05	5.755

B1.1.3.1.2.3 10" Water Reflection

Case ID: PuN43-pl-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 3 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.2.3-1. Pu(NO₃)₄ 3M – Plane - 100% ²³⁹Pu – 10” Water Reflection

**Table B1.1.3.1.2.3-1. Critical Dimensions for Pu(NO₃)₄ 3M – Plane - 100% ²³⁹Pu – 10”
Water Reflection**

100% Pu239 Pu(NO3)4 3M Plane - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.118	8	11.2	0.1	10.5566
0.015	1.123	6.2	8.1	0.1	7.7471
0.02	1.132	4.8	6.1	0.05	5.854
0.025	1.14	4.1	5.2	0.05	4.9351
0.03	1.149	3.6	4.6	0.05	4.386
0.032	1.152	3.5	4.5	0.05	4.2385
0.035	1.157	3.3	4.2	0.05	4.0406
0.04	1.165	3.1	4	0.05	3.7876
0.05	1.182	2.8	3.6	0.05	3.4362
0.06	1.198	2.6	3.4	0.05	3.2238
0.07	1.215	2.5	3.2	0.05	3.0679
0.08	1.231	2.4	3.1	0.05	2.9536
0.09	1.247	2.3	3	0.05	2.8716
0.1	1.263	2.3	3	0.05	2.8076
0.12	1.294	2.2	2.9	0.05	2.7075
0.13	1.311	2.1	2.8	0.05	2.6733
0.15	1.342	2.1	2.8	0.05	2.6176
0.2	1.421	2	2.7	0.05	2.541
0.239	1.481	2	2.7	0.05	2.5157
0.25	1.498	2	2.7	0.05	2.5143
0.359	1.665	2	2.7	0.05	2.496
0.478	1.841	2	2.7	0.05	2.5598
0.5	1.871	2	2.7	0.05	2.5785
0.6	1.998	2.1	2.9	0.05	2.6991
0.65	2.043	2.2	3	0.05	2.8613
0.66	2.049	2.2	3.1	0.05	2.8985
0.67	2.053	2.3	3.1	0.05	2.9363
0.68	2.053	2.3	3.2	0.05	3.0257
0.69	2.045	2.4	3.3	0.05	3.1194
0.698	2.017	2.6	3.5	0.05	3.3406

B1.1.3.1.3 6 Molar Excess Acid

B1.1.3.1.3.1 0" Water Reflection

Case ID: PuN46-pl-1000-00

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.3.1-1. Pu(NO₃)₄ 6M – Plane - 100% ²³⁹Pu – 0” Water Reflection

Table B.1.1.3.1.3.1-1. Critical Dimensions for Pu(NO₃)₄ 6M – Plane - 100% ²³⁹Pu – 0” Water Reflection

100% Pu239 Pu(NO3)4 6M Plane - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.207	12	16.1	0.2	15.3038
0.015	1.212	9.7	12.1	0.1	11.5912
0.02	1.22	8.1	9.7	0.05	9.3323
0.025	1.229	7.3	8.6	0.05	8.2911
0.03	1.237	6.8	8	0.05	7.7143
0.032	1.24	6.7	7.8	0.05	7.5414
0.035	1.245	6.5	7.6	0.05	7.3602
0.04	1.253	6.3	7.3	0.05	7.0857
0.05	1.27	6	7	0.05	6.7322
0.06	1.286	5.9	6.8	0.05	6.5226
0.07	1.301	5.7	6.6	0.05	6.391
0.08	1.317	5.7	6.6	0.05	6.3096
0.09	1.333	5.6	6.5	0.05	6.2481
0.1	1.349	5.5	6.4	0.05	6.2063
0.12	1.379	5.5	6.4	0.05	6.1712
0.13	1.395	5.5	6.4	0.05	6.1392
0.15	1.426	5.4	6.3	0.05	6.1146
0.2	1.503	5.5	6.4	0.05	6.1312
0.239	1.563	5.5	6.4	0.05	6.1634
0.25	1.58	5.5	6.4	0.05	6.172
0.359	1.748	5.6	6.5	0.05	6.2801
0.478	1.935	5.7	6.6	0.05	6.4006
0.5	1.969	5.8	6.7	0.05	6.4188
0.6	2.122	5.9	6.8	0.05	6.5479
0.65	2.197	6	6.9	0.05	6.6518
0.7	2.268	6.1	7	0.05	6.785
0.75	2.335	6.3	7.2	0.05	6.964
0.76	2.348	6.3	7.2	0.05	6.9967
0.765	2.354	6.4	7.2	0.05	7.0219
0.77	2.36	6.4	7.3	0.05	7.0406
0.775	2.367	6.4	7.3	0.05	7.0672

B1.1.3.1.3.2 1" Water Reflection

Case ID: PuN46-pl-1000-01

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.3.2-1. Pu(NO₃)₄ 6M – Plane - 100% ²³⁹Pu – 1” Water Reflection

**Table B1.1.3.1.3.2-1. Critical Dimensions for Pu(NO₃)₄ 6M – Plane - 100% ²³⁹Pu – 1”
Water Reflection**

100% Pu239 Pu(NO3)4 6M Plane - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.207	10.4	14.5	0.2	13.6948
0.015	1.212	8.2	10.5	0.1	10.0379
0.02	1.22	6.5	8	0.05	7.7531
0.025	1.229	5.7	7	0.05	6.7
0.03	1.237	5.3	6.4	0.05	6.1118
0.032	1.24	5.1	6.2	0.05	5.9415
0.035	1.245	4.9	6	0.05	5.721
0.04	1.253	4.7	5.7	0.05	5.475
0.05	1.27	4.5	5.3	0.05	5.1219
0.06	1.286	4.3	5.1	0.05	4.915
0.07	1.301	4.2	5	0.05	4.7794
0.08	1.317	4.1	4.9	0.05	4.6688
0.09	1.333	4	4.8	0.05	4.608
0.1	1.349	3.9	4.8	0.05	4.5683
0.12	1.379	3.9	4.7	0.05	4.509
0.13	1.395	3.9	4.7	0.05	4.4896
0.15	1.426	3.9	4.7	0.05	4.4597
0.2	1.503	3.8	4.6	0.05	4.4421
0.239	1.563	3.9	4.7	0.05	4.4625
0.25	1.58	3.9	4.7	0.05	4.473
0.359	1.748	3.9	4.8	0.05	4.5537
0.478	1.935	4	4.9	0.05	4.6468
0.5	1.969	4.1	4.9	0.05	4.6819
0.6	2.122	4.2	5	0.05	4.8074
0.65	2.197	4.3	5.1	0.05	4.8826
0.7	2.268	4.3	5.2	0.05	4.9831
0.75	2.335	4.5	5.3	0.05	5.1336
0.76	2.348	4.5	5.4	0.05	5.1823
0.765	2.354	4.5	5.4	0.05	5.1831
0.77	2.36	4.5	5.5	0.05	5.2141
0.775	2.367	4.6	5.4	0.05	5.234

B1.1.3.1.3.3 10" Water Reflection

Case ID: PuN46-pl-1000-10

Material: $\text{Pu}(\text{NO}_3)_4$ 6 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{239}Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.1.3.3-1. Pu(NO₃)₄ 6M – Plane - 100% ²³⁹Pu – 10" Water Reflection

**Table B1.1.3.1.3.3-1. Critical Dimensions for Pu(NO₃)₄ 6M – Plane - 100% ²³⁹Pu – 10”
Water Reflection**

100% Pu239 Pu(NO3)4 6M Plane - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.207	9.3	13.2	0.2	12.4481
0.015	1.212	6.9	9.3	0.1	8.7942
0.02	1.22	5.3	6.8	0.05	6.4719
0.025	1.229	4.5	5.7	0.05	5.4305
0.03	1.237	4	5	0.05	4.8115
0.032	1.24	3.8	4.9	0.05	4.6369
0.035	1.245	3.7	4.6	0.05	4.4169
0.04	1.253	3.4	4.4	0.05	4.137
0.05	1.27	3.1	3.9	0.05	3.7432
0.06	1.286	2.9	3.7	0.05	3.4913
0.07	1.301	2.7	3.5	0.05	3.3392
0.08	1.317	2.6	3.4	0.05	3.207
0.09	1.333	2.6	3.3	0.05	3.1166
0.1	1.349	2.5	3.2	0.05	3.0521
0.12	1.379	2.4	3.1	0.05	2.9542
0.13	1.395	2.4	3.1	0.05	2.9117
0.15	1.426	2.3	3	0.05	2.8543
0.2	1.503	2.2	2.9	0.05	2.7775
0.239	1.563	2.2	2.9	0.05	2.7538
0.25	1.58	2.2	2.9	0.05	2.7463
0.359	1.748	2.2	2.9	0.05	2.7526
0.478	1.935	2.2	3	0.05	2.7759
0.5	1.969	2.2	3	0.05	2.775
0.6	2.122	2.2	3	0.05	2.8474
0.65	2.197	2.3	3.1	0.05	2.8765
0.7	2.268	2.3	3.1	0.05	2.9402
0.75	2.335	2.4	3.2	0.05	3.0123
0.76	2.348	2.4	3.2	0.05	3.031
0.765	2.354	2.4	3.2	0.05	3.0489
0.77	2.36	2.4	3.3	0.05	3.0632
0.775	2.367	2.4	3.3	0.05	3.0546

B1.1.3.2 97% ²³⁹Pu

B1.1.3.2.1 0 Molar Excess Acid

B1.1.3.2.1.1 0" Water Reflection

Case ID: PuN40-pl-0970-00

Material: Pu (NO₃)₄ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 97% ²³⁹Pu

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.2.1.1-1. Pu(NO₃)₄ 0M – Plane – 97% ²³⁹Pu – 0" Water Reflection

Table B1.1.3.2.1.1-1. Critical Dimensions for Pu(NO₃)₄ 0M – Plane – 97% ²³⁹Pu –0” Water Reflection

97% Pu239 Pu(NO3)4 0M Plane- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.016	10.1	13	0.1	12.4087
0.015	1.021	8.5	10.4	0.1	9.9922
0.02	1.029	7.2	8.6	0.05	8.3229
0.025	1.037	6.6	7.8	0.05	7.5272
0.03	1.046	6.3	7.3	0.05	7.0496
0.032	1.049	6.1	7.1	0.05	6.912
0.035	1.054	6	7	0.05	6.7538
0.04	1.063	5.8	6.8	0.05	6.5328
0.05	1.08	5.6	6.5	0.05	6.2643
0.06	1.097	5.5	6.3	0.05	6.1007
0.07	1.113	5.4	6.2	0.05	6.0072
0.08	1.13	5.3	6.1	0.05	5.9341
0.09	1.147	5.3	6.1	0.05	5.8966
0.1	1.164	5.2	6.1	0.05	5.8638
0.12	1.197	5.2	6	0.05	5.8448
0.13	1.215	5.2	6	0.05	5.8341
0.15	1.248	5.2	6	0.05	5.8397
0.2	1.332	5.2	6.1	0.05	5.8749
0.239	1.397	5.3	6.1	0.05	5.9108
0.25	1.415	5.3	6.1	0.05	5.926
0.359	1.594	5.4	6.3	0.05	6.0512
0.478	1.784	5.5	6.4	0.05	6.1978
0.5	1.818	5.5	6.4	0.05	6.2307
0.6	1.962	5.7	6.7	0.05	6.4404
0.65	2.026	5.9	6.8	0.05	6.5999
0.7	2.076	6.1	7.1	0.05	6.8758
0.75	2.08	6.7	7.8	0.05	7.5745
0.752	2.074	6.8	7.9	0.05	7.6569
0.754	2.064	6.9	8	0.05	7.7924
0.755	2.054	7.1	8.2	0.05	7.9114

B1.1.3.2.1.2 1" Water Reflection

Case ID: PuN40-pl-0970-01

Material: Pu (NO₃)₄ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 97% ²³⁹Pu

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.2.1.2-1. Pu(NO₃)₄ 0M – Plane – 97% ²³⁹Pu – 1” Water Reflection

**Table B1.1.3.2.1.2-1. Critical Dimensions for Pu(NO₃)₄ 0M – Plane – 97% ²³⁹Pu – 1”
Water Reflection**

97% Pu239 Pu(NO3)4 0M Plane- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.016	8.6	11.5	0.1	10.8698
0.015	1.021	7	8.8	0.1	8.4684
0.02	1.029	5.7	7.1	0.05	6.7909
0.025	1.037	5.1	6.2	0.05	5.983
0.03	1.046	4.7	5.7	0.05	5.5103
0.032	1.049	4.6	5.6	0.05	5.3734
0.035	1.054	4.5	5.4	0.05	5.2048
0.04	1.063	4.3	5.2	0.05	4.984
0.05	1.08	4.1	4.9	0.05	4.7055
0.06	1.097	3.9	4.7	0.05	4.5328
0.07	1.113	3.8	4.6	0.05	4.4342
0.08	1.13	3.8	4.5	0.05	4.362
0.09	1.147	3.7	4.5	0.05	4.316
0.1	1.164	3.7	4.5	0.05	4.2815
0.12	1.197	3.7	4.4	0.05	4.2511
0.13	1.215	3.6	4.4	0.05	4.2405
0.15	1.248	3.6	4.4	0.05	4.2371
0.2	1.332	3.6	4.4	0.05	4.2679
0.239	1.397	3.7	4.5	0.05	4.2988
0.25	1.415	3.7	4.5	0.05	4.3141
0.359	1.594	3.8	4.6	0.05	4.4292
0.478	1.784	3.9	4.8	0.05	4.5766
0.5	1.818	3.9	4.8	0.05	4.6054
0.6	1.962	4.1	5	0.2	4.7818
0.65	2.026	4.2	5.1	0.05	4.9203
0.7	2.076	4.4	5.4	0.05	5.1436
0.75	2.08	4.9	5.9	0.05	5.6932
0.752	2.074	4.9	6	0.05	5.7637
0.754	2.064	5	6.1	0.05	5.8631
0.755	2.054	5.1	6.2	0.05	5.955

B1.1.3.2.1.3 10" Water Reflection

Case ID: PuN40-pl-0970-10

Material: Pu (NO₃)₄ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 97% ²³⁹Pu

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.1.3.2.1.3-1. $\text{Pu}(\text{NO}_3)_4$ 0M – Plane – 97% ^{239}Pu – 10" Water Reflection

Table B1.1.3.2.1.3-1. Critical Dimensions for Pu(NO₃)₄ 0M – Plane – 97% ²³⁹Pu – 10” Water Reflection

97% Pu239 Pu(NO3)4 0M Plane- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.016	7.5	10.3	0.1	9.7609
0.015	1.021	5.9	7.7	0.1	7.334
0.02	1.029	4.6	5.9	0.05	5.6323
0.025	1.037	4	5	0.05	4.8
0.03	1.046	3.6	4.5	0.05	4.3142
0.032	1.049	3.4	4.4	0.05	4.1642
0.035	1.054	3.3	4.2	0.05	3.9806
0.04	1.063	3.1	3.9	0.05	3.7381
0.05	1.08	2.8	3.6	0.05	3.4267
0.06	1.097	2.6	3.4	0.05	3.2238
0.07	1.113	2.5	3.3	0.05	3.0936
0.08	1.13	2.4	3.2	0.05	2.9937
0.09	1.147	2.4	3.1	0.05	2.9223
0.1	1.164	2.3	3	0.05	2.8658
0.12	1.197	2.2	3	0.05	2.7946
0.13	1.215	2.2	2.9	0.05	2.7612
0.15	1.248	2.2	2.9	0.05	2.7259
0.2	1.332	2.1	2.8	0.05	2.6808
0.239	1.397	2.1	2.8	0.05	2.6812
0.25	1.415	2.1	2.8	0.05	2.6784
0.359	1.594	2.1	2.9	0.05	2.709
0.478	1.784	2.1	2.9	0.05	2.7661
0.5	1.818	2.1	3	0.05	2.7809
0.6	1.962	2.2	3.1	0.05	2.8955
0.65	2.026	2.3	3.2	0.05	2.9664
0.7	2.076	2.4	3.3	0.05	3.0989
0.75	2.08	2.6	3.6	0.05	3.4331
0.752	2.074	2.7	3.7	0.05	3.4648
0.754	2.064	2.7	3.7	0.05	3.5241
0.755	2.054	2.7	3.8	0.05	3.5887

B1.2 $\text{UO}_2(\text{NO}_3)_2$

B1.2.1 Sphere

B1.2.1.1 100% ^{235}U

B1.2.1.1.1 0 Molar Excess Acid

B1.2.1.1.1.1 0" Water Reflection

Case ID: u5o2N20-sp-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.1.1-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere - 100% ^{235}U – 0" Water Reflection

Table B1.2.1.1.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere - 100% ^{235}U – 0” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Sphere - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	24.2	57.4	1.6	--
0.015	1.017	29.1	41.3	0.6	39.5184
0.02	1.024	21	26	0.2	25.0712
0.025	1.031	18	21.4	0.1	20.7082
0.03	1.037	16.3	19.1	0.1	18.4868
0.032	1.04	15.8	18.4	0.1	17.8918
0.035	1.044	15.3	17.6	0.1	17.1361
0.04	1.051	14.5	16.7	0.1	16.2045
0.05	1.064	13.6	15.4	0.1	15.0402
0.06	1.078	12.9	14.7	0.1	14.305
0.07	1.091	12.5	14.2	0.05	13.8117
0.08	1.105	12.2	13.8	0.05	13.4502
0.09	1.118	12	13.5	0.05	13.184
0.1	1.131	11.8	13.3	0.05	12.9674
0.118	1.155	11.6	13	0.05	12.7056
0.13	1.172	11.5	12.9	0.05	12.5406
0.15	1.199	11.3	12.7	0.05	12.3789
0.2	1.266	11.1	12.5	0.05	12.1412
0.235	1.313	11	12.4	0.05	12.0469
0.25	1.333	11	12.3	0.05	12.0288
0.353	1.471	11	12.3	0.05	12.0088
0.47	1.63	11	12.4	0.05	12.0901
0.5	1.671	11.1	12.4	0.05	12.1107
0.6	1.805	11.2	12.6	0.05	12.286
0.605	1.812	11.2	12.6	0.05	12.3024
0.61	1.819	11.2	12.6	0.05	12.302
0.615	1.826	11.2	12.6	0.05	12.2906
0.62	1.832	11.2	12.6	0.05	12.3133
0.625	1.839	11.2	12.6	0.05	12.3286
0.629	1.844	11.3	12.6	0.05	12.3273

B1.2.1.1.1.2 1" Water Reflection

Case ID: u5o2N20-sp-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.2-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere - 100% ^{235}U – 1" Water Reflection

Table B1.2.1.1.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere - 100% ^{235}U – 1” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Sphere - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	38.8	57	0.9	--
0.015	1.017	27.5	39.4	0.6	38.0011
0.02	1.024	19.5	24.6	0.2	23.5307
0.025	1.031	16.4	19.8	0.1	19.1594
0.03	1.037	14.8	17.5	0.1	16.9769
0.032	1.04	14.3	16.9	0.1	16.3652
0.035	1.044	13.7	16.1	0.1	15.6048
0.04	1.051	13	15.1	0.1	14.7039
0.05	1.064	12	13.9	0.1	13.5084
0.06	1.078	11.4	13.2	0.1	12.783
0.07	1.091	11	12.6	0.05	12.2793
0.08	1.105	10.7	12.3	0.05	11.9246
0.09	1.118	10.5	12	0.05	11.6515
0.1	1.131	10.3	11.8	0.05	11.4516
0.118	1.155	10.1	11.5	0.05	11.1625
0.13	1.172	10	11.3	0.05	11.0426
0.15	1.199	9.8	11.2	0.05	10.8522
0.2	1.266	9.6	10.9	0.05	10.6136
0.235	1.313	9.5	10.8	0.05	10.5214
0.25	1.333	9.5	10.8	0.05	10.4977
0.353	1.471	9.5	10.8	0.05	10.4607
0.47	1.63	9.5	10.9	0.05	10.5302
0.5	1.671	9.5	10.9	0.05	10.576
0.6	1.805	9.7	11	0.05	10.7287
0.605	1.812	9.7	11	0.05	10.7226
0.61	1.819	9.7	11.1	0.05	10.7376
0.615	1.826	9.7	11	0.05	10.7481
0.62	1.832	9.7	11	0.05	10.7549
0.625	1.839	9.7	11.1	0.05	10.7562
0.629	1.844	9.7	11.1	0.05	10.7747

B1.2.1.1.1.3 10" Water Reflection

Case ID: u5o2N20-sp-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.3-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere - 100% ^{235}U – 10" Water Reflection

Table B1.2.1.1.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere - 100% ^{235}U – 10” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Sphere - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	41	56	0.7	--
0.015	1.017	26.3	38.7	0.6	36.901
0.02	1.024	18.4	23.4	0.2	22.4478
0.025	1.031	15.4	18.7	0.1	18.0664
0.03	1.037	13.8	16.4	0.1	15.8688
0.032	1.04	13.3	15.8	0.1	15.2536
0.035	1.044	12.7	15	0.1	14.4872
0.04	1.051	11.9	14	0.1	13.5737
0.05	1.064	11	12.8	0.1	12.3637
0.06	1.078	10.3	12	0.05	11.6208
0.07	1.091	9.9	11.5	0.05	11.1255
0.08	1.105	9.6	11.1	0.05	10.7417
0.09	1.118	9.4	10.8	0.05	10.465
0.1	1.131	9.2	10.6	0.05	10.2606
0.118	1.155	8.9	10.3	0.05	9.9594
0.13	1.172	8.8	10.1	0.05	9.7964
0.15	1.199	8.6	9.9	0.05	9.614
0.2	1.266	8.4	9.6	0.05	9.3316
0.235	1.313	8.3	9.5	0.05	9.2232
0.25	1.333	8.2	9.5	0.05	9.1874
0.353	1.471	8.1	9.4	0.05	9.0955
0.47	1.63	8.1	9.4	0.05	9.103
0.5	1.671	8.1	9.4	0.05	9.1315
0.6	1.805	8.2	9.5	0.05	9.2326
0.605	1.812	8.2	9.6	0.05	9.2435
0.61	1.819	8.2	9.5	0.05	9.2452
0.615	1.826	8.2	9.5	0.05	9.2371
0.62	1.832	8.2	9.6	0.05	9.2588
0.625	1.839	8.2	9.6	0.05	9.2713
0.629	1.844	8.3	9.6	0.05	9.2643

B1.2.1.1.2 3 Molar Excess Acid

B1.2.1.1.2.1 0" Water Reflection

Case ID: u5o2N23-sp-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.2.1-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere - 100% ^{235}U – 0" Water Reflection

**Table B1.2.1.1.2.1-1. Critical Dimensions for UO₂(NO₃)₂ 3M – Sphere - 100% ²³⁵U –0”
Water Reflection**

100% U235 UO2(NO3)2 3M Sphere - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	47.4	66.5	0.9	--
0.015	1.116	35.8	52.2	0.8	--
0.02	1.123	23.5	30	0.3	28.6621
0.025	1.129	19.6	23.7	0.2	22.807
0.03	1.136	17.6	20.7	0.1	20.0636
0.032	1.138	17	19.9	0.1	19.3174
0.035	1.142	16.3	19	0.1	18.4352
0.04	1.149	15.5	17.9	0.1	17.3443
0.05	1.162	14.4	16.4	0.1	15.9781
0.06	1.175	13.7	15.5	0.1	15.1311
0.07	1.188	13.2	15	0.1	14.5787
0.08	1.201	12.9	14.6	0.05	14.1901
0.09	1.215	12.6	14.2	0.05	13.8767
0.1	1.228	12.5	14	0.05	13.652
0.118	1.251	12.2	13.7	0.05	13.3621
0.13	1.267	12	13.5	0.05	13.2055
0.15	1.293	11.9	13.4	0.05	13.026
0.2	1.359	11.7	13.1	0.05	12.7772
0.235	1.405	11.6	13.1	0.05	12.6967
0.25	1.425	11.6	13	0.05	12.6758
0.353	1.56	11.6	13	0.05	12.6944
0.47	1.714	11.8	13.2	0.05	12.8756
0.5	1.753	11.8	13.3	0.05	12.9574
0.51	1.766	11.9	13.3	0.05	12.9808
0.52	1.779	11.9	13.4	0.05	12.9966
0.53	1.792	11.9	13.4	0.05	13.0261
0.54	1.805	11.9	13.4	0.05	13.0478
0.55	1.818	11.9	13.4	0.05	13.0815
0.56	1.831	12	13.5	0.05	13.0919

B1.2.1.1.2.2 1" Water Reflection

Case ID: u5o2N23-sp-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.2.2-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere - 100% ^{235}U – 1" Water Reflection

Table B1.2.1.1.2.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere - 100% ^{235}U – 1” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Sphere - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	33.4	37.5	0.2	--
0.015	1.116	31.6	33	0.05	--
0.02	1.123	21.8	28.3	0.3	27.099
0.025	1.129	18	22.1	0.2	21.2679
0.03	1.136	16	19.1	0.1	18.5248
0.032	1.138	15.5	18.4	0.1	17.7878
0.035	1.142	14.8	17.4	0.1	16.8883
0.04	1.149	13.9	16.3	0.1	15.7723
0.05	1.162	12.8	14.9	0.1	14.399
0.06	1.175	12.2	14	0.1	13.5861
0.07	1.188	11.7	13.4	0.05	13.0237
0.08	1.201	11.4	13	0.05	12.6116
0.09	1.215	11.1	12.7	0.05	12.3126
0.1	1.228	10.9	12.4	0.05	12.0864
0.118	1.251	10.7	12.1	0.05	11.7848
0.13	1.267	10.5	12	0.05	11.6388
0.15	1.293	10.4	11.8	0.05	11.4499
0.2	1.359	10.2	11.5	0.05	11.2027
0.235	1.405	10.1	11.4	0.05	11.1294
0.25	1.425	10.1	11.4	0.05	11.0937
0.353	1.56	10	11.4	0.05	11.1006
0.47	1.714	10.2	11.6	0.05	11.2654
0.5	1.753	10.2	11.7	0.05	11.3292
0.51	1.766	10.3	11.7	0.05	11.3574
0.52	1.779	10.3	11.7	0.05	11.3743
0.53	1.792	10.3	11.7	0.05	11.3923
0.54	1.805	10.3	11.8	0.05	11.4183
0.55	1.818	10.3	11.8	0.05	11.4375
0.56	1.831	10.4	11.8	0.05	11.4624

B1.2.1.1.2.3 10" Water Reflection

Case ID: u5o2N23-sp-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.2.3-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere - 100% ^{235}U – 10" Water Reflection

Table B1.2.1.1.2.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere - 100% ^{235}U – 10” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Sphere - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	33.5	37.9	0.2	--
0.015	1.116	31.8	33	0.05	--
0.02	1.123	20.7	27.2	0.3	25.9985
0.025	1.129	16.9	20.9	0.2	20.0919
0.03	1.136	14.9	18	0.1	17.3527
0.032	1.138	14.4	17.2	0.1	16.6186
0.035	1.142	13.6	16.2	0.1	15.7077
0.04	1.149	12.8	15.1	0.1	14.609
0.05	1.162	11.7	13.6	0.1	13.2084
0.06	1.175	11	12.8	0.1	12.3787
0.07	1.188	10.5	12.2	0.05	11.8031
0.08	1.201	10.2	11.7	0.05	11.3823
0.09	1.215	9.9	11.4	0.05	11.066
0.1	1.228	9.7	11.1	0.05	10.8194
0.118	1.251	9.4	10.8	0.05	10.5057
0.13	1.267	9.3	10.7	0.05	10.3447
0.15	1.293	9.1	10.5	0.05	10.1372
0.2	1.359	8.8	10.1	0.05	9.8377
0.235	1.405	8.7	10	0.05	9.731
0.25	1.425	8.7	10	0.05	9.7039
0.353	1.56	8.6	10	0.05	9.6334
0.47	1.714	8.7	10	0.05	9.7135
0.5	1.753	8.7	10.1	0.05	9.7547
0.51	1.766	8.7	10.1	0.05	9.78
0.52	1.779	8.7	10.1	0.05	9.7784
0.53	1.792	8.7	10.1	0.05	9.8022
0.54	1.805	8.7	10.1	0.05	9.8267
0.55	1.818	8.8	10.1	0.05	9.833
0.56	1.831	8.8	10.2	0.05	9.8543

B1.2.1.1.3 6 Molar Excess Acid

B1.2.1.1.3.1 0" Water Reflection

Case ID: u5o2N26-sp-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.3.1-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere - 100% ^{235}U – 0" Water Reflection

Table B1.2.1.1.3.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere - 100% ^{235}U – 0” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 6M Sphere - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	64.3	82.4	0.9	--
0.015	1.206	37.7	52.5	0.7	--
0.02	1.212	26.5	36.5	0.5	33.5161
0.025	1.219	21.5	26.4	0.2	25.453
0.03	1.225	19.1	22.8	0.1	21.9932
0.032	1.228	18.4	21.7	0.1	21.0746
0.035	1.231	17.6	20.6	0.1	20.012
0.04	1.238	16.6	19.3	0.1	18.7132
0.05	1.251	15.4	17.6	0.1	17.1319
0.06	1.264	14.6	16.6	0.1	16.1773
0.07	1.277	14.1	15.9	0.1	15.5387
0.08	1.289	13.7	15.5	0.1	15.1084
0.09	1.302	13.4	15.1	0.05	14.7856
0.1	1.315	13.3	14.9	0.05	14.5276
0.118	1.338	13	14.6	0.05	14.2041
0.13	1.354	12.8	14.4	0.05	14.0517
0.15	1.38	12.7	14.2	0.05	13.8458
0.2	1.444	12.4	14	0.05	13.6021
0.235	1.489	12.4	13.9	0.05	13.5484
0.25	1.508	12.4	13.9	0.05	13.543
0.353	1.638	12.5	14	0.05	13.68
0.47	1.784	12.8	14.4	0.05	14.0365
0.475	1.79	12.8	14.5	0.05	14.0682
0.48	1.796	12.9	14.4	0.05	14.0775
0.486	1.804	12.9	14.5	0.05	14.1078

B1.2.1.1.3.2 1" Water Reflection

Case ID: u5o2N26-sp-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.3.2-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere - 100% ^{235}U – 1" Water Reflection

Table B1.2.1.1.3.2-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Sphere - 100% ²³⁵U – 1” Water Reflection

100% U235 UO ₂ (NO ₃) ₂ 6M Sphere - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	66.1	86.2	1	--
0.015	1.206	41	51.4	0.5	--
0.02	1.212	24.8	34.4	0.4	31.8778
0.025	1.219	19.9	24.8	0.2	23.8272
0.03	1.225	17.5	21	0.1	20.3917
0.032	1.228	16.8	20.1	0.1	19.4818
0.035	1.231	16	19	0.1	18.4244
0.04	1.238	15.1	17.6	0.1	17.112
0.05	1.251	13.8	16	0.1	15.5231
0.06	1.264	13	15	0.1	14.5635
0.07	1.277	12.5	14.3	0.1	13.9334
0.08	1.289	12.1	13.9	0.1	13.4964
0.09	1.302	11.8	13.5	0.05	13.1587
0.1	1.315	11.6	13.3	0.05	12.8969
0.118	1.338	11.3	12.9	0.05	12.5772
0.13	1.354	11.2	12.7	0.05	12.407
0.15	1.38	11	12.5	0.05	12.211
0.2	1.444	10.8	12.3	0.05	11.9716
0.235	1.489	10.8	12.2	0.05	11.8966
0.25	1.508	10.7	12.2	0.05	11.8832
0.353	1.638	10.8	12.3	0.05	11.986
0.47	1.784	11.1	12.7	0.05	12.3203
0.475	1.79	11.1	12.7	0.05	12.3209
0.48	1.796	11.1	12.7	0.05	12.3504
0.486	1.804	11.1	12.7	0.05	12.3669

B1.2.1.1.3.3 10" Water Reflection

Case ID: u5o2N26-sp-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.1.3.3-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere - 100% ^{235}U – 10" Water Reflection

Table B1.2.1.1.3.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere - 100% ^{235}U – 10” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 6M Sphere - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	65.3	85.7	1	--
0.015	1.206	35	51.9	0.8	--
0.02	1.212	23.6	32.5	0.4	30.6256
0.025	1.219	18.7	23.5	0.2	22.6191
0.03	1.225	16.3	19.9	0.1	19.1805
0.032	1.228	15.6	18.9	0.1	18.2452
0.035	1.231	14.8	17.7	0.1	17.1963
0.04	1.238	13.8	16.4	0.1	15.8655
0.05	1.251	12.5	14.7	0.1	14.2556
0.06	1.264	11.7	13.7	0.1	13.2682
0.07	1.277	11.2	13	0.1	12.6363
0.08	1.289	10.8	12.5	0.05	12.1771
0.09	1.302	10.5	12.2	0.05	11.8525
0.1	1.315	10.3	11.9	0.05	11.5198
0.118	1.338	10	11.5	0.05	11.2071
0.13	1.354	9.8	11.3	0.05	11.0317
0.15	1.38	9.6	11.1	0.05	10.7869
0.2	1.444	9.4	10.8	0.05	10.5099
0.235	1.489	9.3	10.7	0.05	10.394
0.25	1.508	9.3	10.7	0.05	10.3814
0.353	1.638	9.3	10.7	0.05	10.3481
0.47	1.784	9.4	10.9	0.05	10.5856
0.475	1.79	9.4	10.9	0.05	10.5938
0.48	1.796	9.4	11	0.05	10.6025
0.486	1.804	9.5	11	0.05	10.6232

B1.2.1.2 93.5% ^{235}U

B1.2.1.2.1 0 Molar Excess Acid

B1.2.1.2.1.1 0" Water Reflection

Case ID: u5o2N20-sp-0935-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.1.1-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere – 93.5% ^{235}U – 0" Water Reflection

Table B1.2.1.2.1.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere – 93.5% ^{235}U – 0” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Sphere- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	69	115.7	2.3	--
0.015	1.017	31.6	41.4	0.5	--
0.02	1.024	22.4	28.3	0.3	27.1264
0.025	1.031	18.8	22.5	0.1	21.8338
0.03	1.037	16.9	19.8	0.1	19.2685
0.032	1.04	16.4	19.2	0.1	18.5548
0.035	1.044	15.7	18.3	0.1	17.7296
0.04	1.051	14.9	17.2	0.1	16.7057
0.05	1.064	13.9	15.8	0.1	15.395
0.06	1.078	13.2	15	0.1	14.5899
0.07	1.091	12.8	14.4	0.05	14.0595
0.08	1.105	12.4	14.1	0.05	13.6558
0.09	1.118	12.2	13.7	0.05	13.3834
0.1	1.131	12	13.5	0.05	13.1624
0.118	1.155	11.8	13.2	0.05	12.8762
0.13	1.172	11.6	13	0.05	12.712
0.15	1.198	11.5	12.7	0.05	12.5321
0.2	1.266	11.2	12.6	0.05	12.2862
0.235	1.313	11.2	12.5	0.05	12.1867
0.25	1.333	11.3	12.5	0.05	12.1728
0.353	1.472	11.1	12.5	0.05	12.155
0.47	1.631	11.2	12.6	0.05	12.237
0.5	1.67	11.2	12.7	0.05	12.3
0.6	1.805	11.4	12.8	0.05	12.4818
0.605	1.812	11.4	12.8	0.05	12.4856
0.61	1.819	11.4	12.8	0.05	12.4989
0.615	1.825	11.4	12.9	0.05	12.5147
0.62	1.832	11.4	12.8	0.05	12.5167
0.625	1.839	11.4	12.8	0.05	12.5297
0.629	1.844	11.4	12.9	0.05	12.5369

B1.2.1.2.1.2 1" Water Reflection

Case ID: u5o2N20-sp-0935-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.1.2-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere – 93.5% ^{235}U – 1" Water Reflection

Table B1.2.1.2.1.2-1. Critical Dimensions for UO₂(NO₃)₂ 0M – Sphere – 93.5% ²³⁵U – 1” Water Reflection

93.5% U235 UO2(NO3)2 0M Sphere- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	74.7	166.1	4.5	--
0.015	1.017	30.9	52.4	1	47.2572
0.02	1.024	20.8	26.5	0.2	25.6358
0.025	1.031	17.2	21	0.2	20.2904
0.03	1.037	15.4	18.3	0.1	17.7398
0.032	1.04	14.9	17.6	0.1	17.056
0.035	1.044	14.2	16.7	0.1	16.216
0.04	1.051	13.4	15.7	0.1	15.1769
0.05	1.064	12.4	14.3	0.1	13.8842
0.06	1.078	11.7	13.5	0.1	13.0848
0.07	1.091	11.3	12.9	0.05	12.5335
0.08	1.105	10.9	12.5	0.05	12.1382
0.09	1.118	10.7	12.2	0.05	11.851
0.1	1.131	10.5	12	0.05	11.635
0.118	1.155	10.2	11.7	0.05	11.3417
0.13	1.172	10.1	11.5	0.05	11.1925
0.15	1.198	10	11.3	0.05	11.0091
0.2	1.266	9.7	11	0.05	10.759
0.235	1.313	9.7	11	0.05	10.6564
0.25	1.333	9.6	10.9	0.05	10.6374
0.353	1.472	9.6	10.9	0.05	10.582
0.47	1.631	9.7	11	0.05	10.6872
0.5	1.67	9.8	11.1	0.05	10.7477
0.6	1.805	9.8	11.2	0.05	10.904
0.605	1.812	9.8	11.2	0.05	10.9185
0.61	1.819	9.8	11.3	0.05	10.9259
0.615	1.825	9.9	11.3	0.05	10.9495
0.62	1.832	9.9	11.3	0.05	10.9485
0.625	1.839	9.9	11.3	0.05	10.9633
0.629	1.844	9.9	11.3	0.05	10.9727

B1.2.1.2.1.3 10" Water Reflection

Case ID: u5o2N20-sp-0935-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.1.3-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Sphere – 93.5% ^{235}U – 10" Water Reflection

Table B1.2.1.2.1.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2 \cdot 0\text{M}$ – Sphere – 93.5% ^{235}U – 10” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2 \cdot 0\text{M}$ Sphere- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	69.9	119.9	2.5	--
0.015	1.017	30.1	50.9	1	45.8947
0.02	1.024	19.7	25.4	0.3	24.4938
0.025	1.031	16.2	19.9	0.1	19.1883
0.03	1.037	14.3	17.2	0.1	16.6519
0.032	1.04	13.8	16.5	0.1	15.9309
0.035	1.044	13.1	15.6	0.1	15.114
0.04	1.051	12.3	14.5	0.1	14.0597
0.05	1.064	11.3	13.1	0.1	12.7401
0.06	1.078	10.6	12.3	0.05	11.9283
0.07	1.091	10.1	11.7	0.05	11.3748
0.08	1.105	9.8	11.3	0.05	10.9668
0.09	1.118	9.5	11	0.05	10.6761
0.1	1.131	9.3	10.7	0.05	10.4408
0.118	1.155	9	10.4	0.05	10.1307
0.13	1.172	8.9	10.3	0.05	9.9729
0.15	1.198	8.7	10.1	0.05	9.7631
0.2	1.266	8.5	9.8	0.05	9.4729
0.235	1.313	8.4	9.7	0.05	9.3533
0.25	1.333	8.3	9.6	0.05	9.3226
0.353	1.472	8.2	9.5	0.05	9.2283
0.47	1.631	8.3	9.5	0.05	9.2589
0.5	1.67	8.3	9.6	0.05	9.2905
0.6	1.805	8.4	9.7	0.05	9.418
0.605	1.812	8.4	9.7	0.05	9.4002
0.61	1.819	8.3	9.7	0.05	9.4157
0.615	1.825	8.4	9.7	0.05	9.4345
0.62	1.832	8.4	9.7	0.05	9.4288
0.625	1.839	8.4	9.7	0.05	9.4284
0.629	1.844	8.4	9.7	0.05	9.4499

B1.2.1.2.2 3 Molar Excess Acid

B1.2.1.2.2.1 0" Water Reflection

Case ID: u5o2N23-sp-0935-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.2.1-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere – 93.5% ^{235}U – 0" Water Reflection

Table B1.2.1.2.2.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere – 93.5% ^{235}U – 0” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Sphere- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	107.1	207.6	5	--
0.015	1.116	41.8	62.9	1	--
0.02	1.123	25.2	33.1	0.4	31.6145
0.025	1.129	20.5	25.2	0.2	24.2514
0.03	1.136	18.3	21.8	0.1	21.0167
0.032	1.138	17.6	20.8	0.1	20.1656
0.035	1.142	16.9	19.7	0.1	19.1454
0.04	1.149	15.9	18.5	0.1	17.8941
0.05	1.162	14.8	16.8	0.1	16.384
0.06	1.175	13.9	15.9	0.1	15.4607
0.07	1.188	13.5	15.3	0.1	14.8692
0.08	1.201	13.1	14.8	0.05	14.4238
0.09	1.215	12.8	14.5	0.05	14.0913
0.1	1.228	12.6	14.3	0.05	13.8425
0.118	1.251	12.3	13.9	0.05	13.5288
0.13	1.267	12.2	13.7	0.05	13.3819
0.15	1.293	12	13.5	0.05	13.2018
0.2	1.359	11.8	13.3	0.05	12.9385
0.235	1.406	11.7	13.2	0.05	12.8424
0.25	1.425	11.7	13.2	0.05	12.8391
0.353	1.561	11.8	13.2	0.05	12.8585
0.47	1.715	11.9	13.4	0.05	13.0649
0.5	1.753	12	13.5	0.05	13.1463
0.51	1.766	12	13.5	0.05	13.1835
0.52	1.779	12	13.6	0.1	13.2103
0.53	1.792	12.1	13.6	0.05	13.2356
0.54	1.805	12.1	13.7	0.05	13.2614
0.55	1.818	12.1	13.7	0.05	13.2899
0.56	1.831	12.2	13.6	0.05	13.3136

B1.2.1.2.2.2 1" Water Reflection

Case ID: u5o2N23-sp-0935-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.2-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere – 93.5% ^{235}U – 1" Water Reflection

Table B1.2.1.2.2.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere – 93.5% ^{235}U – 1” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Sphere- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	144.3	234.6	4.5	--
0.015	1.116	39.6	70	1.5	--
0.02	1.123	23.7	31.5	0.4	30.1553
0.025	1.129	19	23.6	0.2	22.6883
0.03	1.136	16.7	20.2	0.1	19.46
0.032	1.138	16.1	19.3	0.1	18.6105
0.035	1.142	15.4	18.2	0.1	17.5836
0.04	1.149	14.4	16.9	0.1	16.3432
0.05	1.162	13.2	15.3	0.1	14.8196
0.06	1.175	12.4	14.3	0.1	13.8976
0.07	1.188	11.9	13.7	0.1	13.3076
0.08	1.201	11.6	13.3	0.05	12.8714
0.09	1.215	11.3	12.9	0.05	12.5358
0.1	1.228	11.1	12.7	0.05	12.3025
0.118	1.251	10.8	12.3	0.05	11.9687
0.13	1.267	10.7	12.2	0.05	11.8215
0.15	1.293	10.5	12	0.05	11.6231
0.2	1.359	10.2	11.7	0.05	11.3577
0.235	1.406	10.2	11.6	0.05	11.2597
0.25	1.425	10.2	11.6	0.05	11.2673
0.353	1.561	10.25	11.6	0.05	11.2539
0.47	1.715	10.3	11.8	0.05	11.4515
0.5	1.753	10.4	11.9	0.05	11.5241
0.51	1.766	10.4	11.9	0.05	11.5533
0.52	1.779	10.5	11.9	0.05	11.5727
0.53	1.792	10.5	11.9	0.05	11.5937
0.54	1.805	10.5	11.9	0.05	11.6292
0.55	1.818	10.5	12	0.05	11.6521
0.56	1.831	10.5	12	0.05	11.6885

B1.2.1.2.2.3 10" Water Reflection

Case ID: u5o2N23-sp-0935-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.2.3-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Sphere – 93.5% ^{235}U – 10" Water Reflection

Table B1.2.1.2.2.3-1. Critical Dimensions for UO₂(NO₃)₂ 3M – Sphere – 93.5% ²³⁵U – 10” Water Reflection

93.5% U235 UO2(NO3)2 3M Sphere- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	105.5	254.3	7.4	--
0.015	1.116	39	74.1	1.7	--
0.02	1.123	22.5	30.4	0.4	28.9724
0.025	1.129	17.9	22.4	0.2	21.5734
0.03	1.136	15.6	19	0.1	18.304
0.032	1.138	15	18	0.1	17.4458
0.035	1.142	14.2	17	0.1	16.4132
0.04	1.149	13.2	15.7	0.1	15.1759
0.05	1.162	12	14.1	0.1	13.6463
0.06	1.175	11.3	13.1	0.1	12.7095
0.07	1.188	10.8	12.35	0.05	12.0848
0.08	1.201	10.4	12	0.05	11.6472
0.09	1.215	10	11.6	0.05	11.2911
0.1	1.228	9.9	11.4	0.05	11.0278
0.118	1.251	9.5	11	0.05	10.7001
0.13	1.267	9.4	10.8	0.05	10.5147
0.15	1.293	9.2	10.6	0.05	10.3061
0.2	1.359	8.9	10.3	0.05	9.9991
0.235	1.406	8.8	10.2	0.05	9.8754
0.25	1.425	8.8	10.2	0.1	9.8462
0.353	1.561	8.7	10.1	0.05	9.7874
0.47	1.715	8.8	10.2	0.05	9.8801
0.5	1.753	8.8	10.3	0.05	9.9465
0.51	1.766	8.8	10.3	0.05	9.9582
0.52	1.779	8.9	10.3	0.05	9.9677
0.53	1.792	8.9	10.3	0.05	9.997
0.54	1.805	8.9	10.3	0.05	10.0132
0.55	1.818	8.9	10.4	0.05	10.0246
0.56	1.831	8.9	10.4	0.05	10.0515

B1.2.1.2.3 6 Molar Excess Acid

B1.2.1.2.3.1 0" Water Reflection

Case ID: u5o2N26-sp-0935-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.3.1-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere – 93.5% ^{235}U – 0" Water Reflection

Table B1.2.1.2.3.1-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Sphere – 93.5% ²³⁵U – 0” Water Reflection

93.5% U235 UO2(NO3)2 6M Sphere- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	147.8	414.6	13.3	--
0.015	1.206	58.4	133.4	3.7	--
0.02	1.212	28.8	40.4	0.5	38.0329
0.025	1.219	22.7	28.5	0.3	27.3469
0.03	1.225	19.9	24	0.2	23.1782
0.032	1.228	19.1	22.8	0.1	22.1309
0.035	1.231	18.3	21.5	0.1	20.9007
0.04	1.238	17.1	20	0.1	19.4074
0.05	1.251	15.7	18.1	0.1	17.5889
0.06	1.264	14.9	17.1	0.1	16.5804
0.07	1.277	14.3	16.3	0.1	15.8664
0.08	1.289	14.2	15.8	0.1	15.4198
0.09	1.302	13.8	15.5	0.1	15.0451
0.1	1.315	13.5	15.2	0.05	14.7855
0.118	1.338	13.1	14.8	0.05	14.437
0.13	1.354	13	14.6	0.05	14.2312
0.15	1.38	12.95	14.35	0.05	14.0492
0.2	1.444	12.6	14.1	0.05	13.7876
0.235	1.489	12.5	14.1	0.05	13.7217
0.25	1.508	12.5	14.1	0.05	13.7265
0.353	1.639	12.7	14.2	0.05	13.855
0.47	1.785	13	14.6	0.05	14.25
0.475	1.791	13.1	14.7	0.05	14.2626
0.48	1.797	13.15	14.7	0.05	14.2869
0.486	1.804	13.1	14.8	0.05	14.324

B1.2.1.2.3.2 1" Water Reflection

Case ID: u5o2N26-sp-0935-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.3.2-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere – 93.5% ^{235}U – 1" Water Reflection

Table B1.2.1.2.3.2-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Sphere – 93.5% ²³⁵U – 1” Water Reflection

93.5% U235 UO2(NO3)2 6M Sphere- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	189.9	438.9	12.4	--
0.015	1.206	56.5	95	1.9	--
0.02	1.212	27.2	38.9	0.5	36.3891
0.025	1.219	21.1	26.9	0.3	25.7623
0.03	1.225	18.3	22.4	0.2	21.5587
0.032	1.228	17.6	21.2	0.1	20.5309
0.035	1.231	16.7	20	0.1	19.2801
0.04	1.238	15.6	18.3	0.1	17.7833
0.05	1.251	14.2	16.5	0.2	16.0069
0.06	1.264	13.3	15.3	0.1	14.9559
0.07	1.277	12.7	14.7	0.1	14.266
0.08	1.289	12.3	14.2	0.1	13.7812
0.09	1.302	12.1	13.8	0.05	13.4334
0.1	1.315	11.8	13.5	0.05	13.1396
0.118	1.338	11.7	13.1	0.05	12.8022
0.13	1.354	11.4	13	0.05	12.6073
0.15	1.38	11.2	12.8	0.05	12.4026
0.2	1.444	11	12.5	0.05	12.1449
0.235	1.489	10.9	12.4	0.05	12.0795
0.25	1.508	10.9	12.4	0.05	12.0409
0.353	1.639	11	12.5	0.05	12.1632
0.47	1.785	11.3	12.9	0.05	12.5159
0.475	1.791	11.3	12.9	0.05	12.5369
0.48	1.797	11.3	12.9	0.05	12.5628
0.486	1.804	11.4	13	0.1	12.5875

B1.2.1.2.3.3 10" Water Reflection

Case ID: u5o2N26-sp-0935-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Sphere

Isotopics: 93.5% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.1.2.3.3-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere – 93.5% ^{235}U – 10" Water Reflection

Table B1.2.1.2.3.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 6M – Sphere – 93.5% ^{235}U – 10” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 6M Sphere- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	134.3	430.9	14.8	--
0.015	1.206	55.5	83.8	1.4	--
0.02	1.212	25.7	37.7	0.6	35.2807
0.025	1.219	20	25.6	0.2	24.5053
0.03	1.225	17.1	21.2	0.2	20.3687
0.032	1.228	16.4	20	0.2	19.2771
0.035	1.231	15.5	18.7	0.1	18.0048
0.04	1.238	14.4	17.1	0.1	16.5359
0.05	1.251	12.9	15.2	0.1	14.733
0.06	1.264	12.1	14.1	0.1	13.6669
0.07	1.277	11.6	13.3	0.1	12.9539
0.08	1.289	11.2	12.9	0.1	12.4498
0.09	1.302	10.7	12.5	0.1	12.0854
0.1	1.315	10.5	12.1	0.05	11.788
0.118	1.338	10.2	11.8	0.05	11.4171
0.13	1.354	10	11.6	0.05	11.2265
0.15	1.38	9.8	11.3	0.05	10.9859
0.2	1.444	9.5	11	0.05	10.6787
0.235	1.489	9.4	10.9	0.05	10.5746
0.25	1.508	9.4	10.9	0.05	10.5494
0.353	1.639	9.4	10.9	0.05	10.5486
0.47	1.785	9.6	11.1	0.15	10.7724
0.475	1.791	9.65	11.1	0.05	10.7823
0.48	1.797	9.6	11.1	0.05	10.8039
0.486	1.804	9.6	11.2	0.05	10.8208

B1.2.2 Cylinder

B1.2.2.1 100%²³⁵U

B1.2.2.1.1 0 Molar Excess Acid

B1.2.2.1.1.1 0" Water Reflection

Case ID: u5o2N20-icyl-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ²³⁵U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.1.1-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder - 100% ^{235}U – 0" Water Reflection

Table B1.2.2.1.1.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder - 100% ^{235}U – 0” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Cylinder - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	25	29.6	0.2	--
0.015	1.017	21.7	29.6	0.4	--
0.02	1.024	15.6	19.5	0.2	18.7408
0.025	1.031	13.3	16	0.1	15.3915
0.03	1.037	12.1	14.2	0.1	13.6972
0.032	1.04	11.7	13.7	0.1	13.2851
0.035	1.044	11.3	13.1	0.1	12.7345
0.04	1.051	10.7	12.4	0.05	12.0176
0.05	1.064	10	11.4	0.05	11.1168
0.06	1.078	9.6	10.9	0.05	10.5306
0.07	1.091	9.2	10.5	0.05	10.172
0.08	1.105	9	10.2	0.05	9.9022
0.09	1.118	8.9	10	0.05	9.6949
0.1	1.131	8.7	9.8	0.05	9.5471
0.118	1.155	8.5	9.6	0.05	9.3249
0.13	1.172	8.4	9.5	0.05	9.2254
0.15	1.199	8.3	9.4	0.05	9.0685
0.2	1.266	8.1	9.1	0.05	8.9077
0.235	1.313	8.1	9.1	0.05	8.8109
0.25	1.333	8	9.1	0.05	8.8122
0.353	1.471	8	9.1	0.05	8.7903
0.47	1.63	8.1	9.1	0.05	8.8553
0.5	1.671	8.1	9.1	0.05	8.8677
0.6	1.805	8.2	9.2	0.05	8.9794
0.605	1.812	8.2	9.3	0.05	8.9903
0.61	1.819	8.2	9.3	0.05	9.0021
0.615	1.826	8.3	9.4	0.05	9.007
0.62	1.832	8.2	9.3	0.05	9.0232
0.625	1.839	8.2	9.3	0.05	9.0162
0.629	1.844	8.2	9.3	0.05	9.0393

B1.2.2.1.1.2 1" Water Reflection

Case ID: u5o2N20-icyl-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.1.2-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder - 100% ^{235}U – 1" Water Reflection

Table B1.2.2.1.1.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder - 100% ^{235}U – 1” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Cylinder - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	25	30	0.2	--
0.015	1.017	20.2	30.1	0.5	28.1836
0.02	1.024	14.2	18	0.2	17.2166
0.025	1.031	11.8	14.4	0.1	13.875
0.03	1.037	10.6	12.7	0.1	12.2168
0.032	1.04	10.2	12.2	0.1	11.7714
0.035	1.044	9.8	11.6	0.1	11.1998
0.04	1.051	9.2	10.8	0.05	10.4825
0.05	1.064	8.5	9.9	0.05	9.5846
0.06	1.078	8	9.3	0.05	9.0271
0.07	1.091	7.7	8.9	0.05	8.635
0.08	1.105	7.5	8.7	0.05	8.3673
0.09	1.118	7.3	8.4	0.05	8.1411
0.1	1.131	7.2	8.3	0.05	8.0036
0.118	1.155	7	8	0.05	7.8036
0.13	1.172	6.9	7.9	0.05	7.6788
0.15	1.199	6.8	7.8	0.05	7.5422
0.2	1.266	6.6	7.6	0.05	7.356
0.235	1.313	6.5	7.5	0.05	7.2863
0.25	1.333	6.5	7.5	0.05	7.2803
0.353	1.471	6.5	7.5	0.05	7.2369
0.47	1.63	6.5	7.5	0.05	7.2864
0.5	1.671	6.5	7.5	0.05	7.3138
0.6	1.805	6.6	7.7	0.05	7.4176
0.605	1.812	6.6	7.7	0.05	7.4126
0.61	1.819	6.6	7.7	0.05	7.4056
0.615	1.826	6.6	7.7	0.05	7.431
0.62	1.832	6.6	7.7	0.05	7.4379
0.625	1.839	6.7	7.7	0.05	7.4234
0.629	1.844	6.7	7.7	0.05	7.448

B1.2.2.1.1.3 10" Water Reflection

Case ID: u5o2N20-icyl-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.1.3-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder - 100% ^{235}U – 10" Water Reflection

Table B1.2.2.1.1.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder - 100% ^{235}U – 10” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Cylinder - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	25	30.2	0.2	--
0.015	1.017	19.1	28.3	0.4	27.0299
0.02	1.024	13.1	16.9	0.2	16.1253
0.025	1.031	10.8	13.3	0.1	12.7855
0.03	1.037	9.5	11.5	0.1	11.1028
0.032	1.04	9.1	11	0.1	10.6532
0.035	1.044	8.7	10.4	0.05	10.057
0.04	1.051	8.1	9.7	0.05	9.3302
0.05	1.064	7.4	8.8	0.05	8.4217
0.06	1.078	6.9	8.1	0.05	7.8489
0.07	1.091	6.6	7.7	0.05	7.4828
0.08	1.105	6.3	7.4	0.05	7.1655
0.09	1.118	6.1	7.2	0.05	6.9537
0.1	1.131	6	7	0.05	6.7857
0.118	1.155	5.8	6.8	0.05	6.5597
0.13	1.172	5.7	6.7	0.05	6.4315
0.15	1.199	5.5	6.5	0.05	6.2743
0.2	1.266	5.3	6.3	0.05	6.0491
0.235	1.313	5.2	6.2	0.05	5.9599
0.25	1.333	5.2	6.1	0.05	5.9276
0.353	1.471	5.1	6	0.05	5.822
0.47	1.63	5.1	6	0.05	5.8133
0.5	1.671	5.1	6	0.05	5.8369
0.6	1.805	5.1	6.1	0.05	5.8812
0.605	1.812	5.1	6.1	0.05	5.8708
0.61	1.819	5.1	6.1	0.05	5.8759
0.615	1.826	5.2	6.1	0.05	5.8674
0.62	1.832	5.1	6.1	0.05	5.8998
0.625	1.839	5.1	6.1	0.05	5.9064
0.629	1.844	5.1	6.1	0.05	5.9082

B1.2.2.1.2 3 Molar Excess Acid

B1.2.2.1.2.1 0" Water Reflection

Case ID: u5o2N23-icy1-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.2.1-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder - 100% ^{235}U – 0" Water Reflection

Table B1.2.2.1.2.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder - 100% ^{235}U – 0” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Cylinder - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	28.1	31.2	0.1	--
0.015	1.116	26.4	36.2	0.5	--
0.02	1.123	17.5	22.4	0.2	21.4812
0.025	1.129	14.6	17.7	0.1	17.0257
0.03	1.136	13	15.4	0.1	14.9447
0.032	1.138	12.6	14.8	0.1	14.3776
0.035	1.142	12.1	14.1	0.1	13.6965
0.04	1.149	11.4	13.3	0.1	12.8543
0.05	1.162	10.6	12.1	0.05	11.815
0.06	1.175	10.1	11.5	0.05	11.1949
0.07	1.188	9.7	11.1	0.05	10.7556
0.08	1.201	9.5	10.8	0.05	10.4504
0.09	1.215	9.3	10.5	0.05	10.201
0.1	1.228	9.1	10.3	0.05	10.0615
0.118	1.251	8.9	10.1	0.05	9.8218
0.13	1.267	8.8	10	0.05	9.7127
0.15	1.293	8.7	9.8	0.05	9.5996
0.2	1.359	8.6	9.7	0.05	9.3776
0.235	1.405	8.5	9.6	0.05	9.3239
0.25	1.425	8.5	9.6	0.05	9.3106
0.353	1.56	8.5	9.6	0.05	9.3041
0.47	1.714	8.6	9.7	0.05	9.4395
0.5	1.753	8.7	9.8	0.05	9.5014
0.51	1.766	8.7	9.8	0.05	9.5024
0.52	1.779	8.75	9.8	0.05	9.5289
0.53	1.792	8.7	9.8	0.05	9.5459
0.54	1.805	8.7	9.8	0.05	9.5614
0.55	1.818	8.7	9.9	0.05	9.5748
0.56	1.831	8.7	9.9	0.05	9.6162

B1.2.2.1.2.2 1" Water Reflection

Case ID: u5o2N23-icyl-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.2.2-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder - 100% ^{235}U – 1" Water Reflection

Table B1.2.2.1.2.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder - 100% ^{235}U – 1” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Cylinder - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	28.3	31.8	0.1	--
0.015	1.116	24.9	36	0.5	--
0.02	1.123	15.9	20.9	0.2	19.9104
0.025	1.129	13	16.1	0.1	15.537
0.03	1.136	11.5	13.9	0.1	13.3692
0.032	1.138	11.1	13.3	0.1	12.8132
0.035	1.142	10.6	12.5	0.1	12.1427
0.04	1.149	9.9	11.7	0.1	11.2976
0.05	1.162	9.1	10.6	0.05	10.2479
0.06	1.175	8.5	9.9	0.05	9.6407
0.07	1.188	8.2	9.5	0.05	9.2014
0.08	1.201	7.9	9.2	0.05	8.8849
0.09	1.215	7.7	9	0.05	8.643
0.1	1.228	7.6	8.8	0.05	8.4639
0.118	1.251	7.4	8.5	0.05	8.2402
0.13	1.267	7.3	8.4	0.05	8.0995
0.15	1.293	7.2	8.3	0.05	7.9907
0.2	1.359	7	8	0.05	7.8087
0.235	1.405	6.9	8	0.05	7.7248
0.25	1.425	6.9	7.9	0.05	7.7104
0.353	1.56	6.9	7.9	0.05	7.7056
0.47	1.714	7	8.1	0.05	7.8091
0.5	1.753	7	8.1	0.05	7.8437
0.51	1.766	7	8.1	0.05	7.8701
0.52	1.779	7.1	8.1	0.05	7.9006
0.53	1.792	7.1	8.1	0.05	7.9033
0.54	1.805	7.1	8.2	0.05	7.9
0.55	1.818	7.1	8.2	0.05	7.9482
0.56	1.831	7.1	8.2	0.05	7.9489

B1.2.2.1.2.3 10" Water Reflection

Case ID: u5o2N23-icyl-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.2.3-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder - 100% ^{235}U – 10" Water Reflection

Table B1.2.2.1.2.3-1. Critical Dimensions for UO₂(NO₃)₂ 3M – Cylinder - 100% ²³⁵U – 10” Water Reflection

100% U235 UO2(NO3)2 3M Cylinder - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	28.4	32.3	0.2	--
0.015	1.116	23.7	36.1	0.6	--
0.02	1.123	14.8	19.8	0.2	18.8404
0.025	1.129	11.9	14.9	0.1	14.2793
0.03	1.136	10.4	12.7	0.1	12.1867
0.032	1.138	9.9	12.1	0.1	11.6619
0.035	1.142	9.4	11.4	0.1	10.9736
0.04	1.149	8.7	10.5	0.1	10.0943
0.05	1.162	7.9	9.4	0.05	9.039
0.06	1.175	7.4	8.7	0.05	8.3847
0.07	1.188	7	8.2	0.05	7.936
0.08	1.201	6.7	7.9	0.05	7.6403
0.09	1.215	6.5	7.7	0.05	7.3776
0.1	1.228	6.3	7.5	0.05	7.1887
0.118	1.251	6.1	7.2	0.05	6.9294
0.13	1.267	6	7.1	0.05	6.808
0.15	1.293	5.8	6.9	0.05	6.6401
0.2	1.359	5.6	6.6	0.05	6.4018
0.235	1.405	5.6	6.6	0.05	6.3086
0.25	1.425	5.5	6.5	0.05	6.2797
0.353	1.56	5.4	6.5	0.05	6.1922
0.47	1.714	5.5	6.5	0.05	6.2272
0.5	1.753	5.5	6.5	0.05	6.236
0.51	1.766	5.5	6.5	0.05	6.2444
0.52	1.779	5.5	6.5	0.05	6.2764
0.53	1.792	5.5	6.5	0.05	6.2729
0.54	1.805	5.5	6.5	0.05	6.2769
0.55	1.818	5.5	6.6	0.05	6.303
0.56	1.831	5.5	6.6	0.05	6.3007

B1.2.2.1.3 6 Molar Excess Acid

B1.2.2.1.3.1 0" Water Reflection

Case ID: u5o2N26-icy1-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.3.1-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder - 100% ^{235}U – 0" Water Reflection

Table B1.2.2.1.3.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder - 100% ^{235}U – 0” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 6M Cylinder - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	29.6	32.8	0.1	--
0.015	1.206	25	29.3	0.2	--
0.02	1.212	19.7	26.4	0.3	25.198
0.025	1.219	16.1	19.8	0.1	19.0428
0.03	1.225	14.2	17	0.1	16.3636
0.032	1.228	13.7	16.2	0.1	15.6767
0.035	1.231	13.1	15.4	0.1	14.8686
0.04	1.238	12.3	14.3	0.1	13.885
0.05	1.251	11.4	13.1	0.05	12.7008
0.06	1.264	10.8	12.3	0.05	11.9626
0.07	1.277	10.4	11.8	0.05	11.4824
0.08	1.289	10.1	11.5	0.05	11.1457
0.09	1.302	9.9	11.2	0.05	10.9174
0.1	1.315	9.7	11	0.05	10.6998
0.118	1.338	9.5	10.8	0.05	10.4669
0.13	1.354	9.4	10.6	0.05	10.3325
0.15	1.38	9.3	10.5	0.05	10.1846
0.2	1.444	9.1	10.3	0.05	9.9921
0.235	1.489	9.1	10.2	0.05	9.9631
0.25	1.508	9	10.2	0.05	9.9423
0.353	1.638	9.1	10.3	0.05	10.043
0.47	1.784	9.4	10.6	0.05	10.3112
0.475	1.79	9.4	10.6	0.05	10.3209
0.48	1.796	9.4	10.7	0.05	10.352
0.486	1.804	9.4	10.6	0.05	10.3525

B1.2.2.1.3.2 1" Water Reflection

Case ID: u5o2N26-icyl-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.3.2-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder - 100% ^{235}U – 1" Water Reflection

Table B1.2.2.1.3.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder - 100% ^{235}U – 1” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 6M Cylinder - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	29.9	33.6	0.1	--
0.015	1.206	25	29.5	0.2	--
0.02	1.212	18.2	24.8	0.3	23.5805
0.025	1.219	14.5	18.2	0.1	17.4369
0.03	1.225	12.6	15.3	0.1	14.8413
0.032	1.228	12.1	14.6	0.1	14.0663
0.035	1.231	11.5	13.8	0.1	13.3011
0.04	1.238	10.7	12.7	0.1	12.3215
0.05	1.251	9.8	11.5	0.05	11.0727
0.06	1.264	9.3	10.7	0.05	10.3582
0.07	1.277	8.8	10.2	0.05	9.8681
0.08	1.289	8.5	9.9	0.05	9.5556
0.09	1.302	8.3	9.6	0.05	9.2776
0.1	1.315	8.1	9.4	0.05	9.0777
0.118	1.338	7.9	9.1	0.05	8.8247
0.13	1.354	7.8	9	0.05	8.7188
0.15	1.38	7.7	8.8	0.05	8.5401
0.2	1.444	7.5	8.6	0.05	8.3653
0.235	1.489	7.5	8.6	0.05	8.2988
0.25	1.508	7.4	8.6	0.05	8.2803
0.353	1.638	7.5	8.6	0.05	8.3579
0.47	1.784	7.7	8.9	0.05	8.5667
0.475	1.79	7.7	8.9	0.05	8.5726
0.48	1.796	7.7	8.9	0.05	8.6123
0.486	1.804	7.7	8.9	0.05	8.6067

B1.2.2.1.3.3 10" Water Reflection

Case ID: u5o2N26-icyl-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.1.3.3-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder - 100% ^{235}U – 10" Water Reflection

Table B1.2.2.1.3.3-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Cylinder - 100% ²³⁵U – 10” Water Reflection

100% U235 UO2(NO3)2 6M Cylinder - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	30.3	34.4	0.2	--
0.015	1.206	29.5	29.7	0.02	--
0.02	1.212	17	23.7	0.3	22.3491
0.025	1.219	13.2	16.9	0.1	16.2046
0.03	1.225	11.4	14.1	0.1	13.5549
0.032	1.228	10.9	13.4	0.1	12.8412
0.035	1.231	10.3	12.5	0.1	12.031
0.04	1.238	9.5	11.5	0.1	11.0481
0.05	1.251	8.5	10.1	0.05	9.8176
0.06	1.264	7.9	9.4	0.05	9.0473
0.07	1.277	7.5	8.9	0.05	8.5436
0.08	1.289	7.2	8.5	0.05	8.1829
0.09	1.302	7	8.2	0.05	7.9204
0.1	1.315	6.8	8	0.05	7.7163
0.118	1.338	6.5	7.7	0.05	7.4173
0.13	1.354	6.4	7.6	0.05	7.3105
0.15	1.38	6.3	7.4	0.05	7.0952
0.2	1.444	6	7.1	0.05	6.8495
0.235	1.489	5.9	7	0.05	6.7648
0.25	1.508	5.9	7	0.05	6.7615
0.353	1.638	5.8	7	0.05	6.7103
0.47	1.784	5.9	7.1	0.05	6.8065
0.475	1.79	6	7.1	0.05	6.8366
0.48	1.796	6	7.1	0.05	6.8398
0.486	1.804	6	7.1	0.05	6.8354

B1.2.2.2 93.5% ^{235}U

B1.2.2.2.1 0 Molar Excess Acid

B1.2.2.2.1.1 0" Water Reflection

Case ID: u5o2N20-icyl-0935-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.1.1-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder – 93.5% ^{235}U – 0" Water Reflection

Table B1.2.2.2.1.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder – 93.5% ^{235}U – 0” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Cylinder- 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	23.5	55.7	1.6	--
0.015	1.017	24.5	48.4	1.2	36.9342
0.02	1.024	16.6	21.2	0.2	20.3329
0.025	1.031	13.9	16.8	0.1	16.2718
0.03	1.037	12.6	14.8	0.1	14.2971
0.032	1.04	12.1	14.3	0.1	13.8326
0.035	1.044	11.6	13.6	0.1	13.1772
0.04	1.051	11	12.8	0.1	12.3845
0.05	1.064	10.2	11.7	0.05	11.4012
0.06	1.078	9.7	11.1	0.05	10.7831
0.07	1.091	9.4	10.7	0.05	10.3663
0.08	1.105	9.1	10.4	0.05	10.0895
0.09	1.118	8.9	10.1	0.05	9.8407
0.1	1.131	8.8	10	0.05	9.6926
0.118	1.155	8.6	9.7	0.05	9.4424
0.13	1.172	8.5	9.6	0.05	9.3349
0.15	1.198	8.4	9.5	0.05	9.2086
0.2	1.266	8.2	9.3	0.05	8.9998
0.235	1.313	8.2	9.2	0.05	8.9433
0.25	1.333	8.1	9.2	0.05	8.9184
0.353	1.472	8.1	9.1	0.05	8.8923
0.47	1.631	8.2	9.2	0.05	8.97
0.5	1.67	8.2	9.3	0.05	8.9992
0.6	1.805	8.5	9.5	0.05	9.1469
0.605	1.812	8.3	9.4	0.05	9.1542
0.61	1.819	8.3	9.4	0.05	9.1396
0.615	1.825	8.3	9.4	0.05	9.1543
0.62	1.832	8.3	9.4	0.05	9.1682
0.625	1.839	8.3	9.4	0.05	9.1664
0.629	1.844	8.3	9.5	0.05	9.1861

B1.2.2.2.1.2 1" Water Reflection

Case ID: u5o2N20-icyl-0935-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.1.2-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder – 93.5% ^{235}U – 1" Water Reflection

Table B1.2.2.2.1.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder – 93.5% ^{235}U – 1” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Cylinder- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	25	31.3	0.3	--
0.015	1.017	22.9	36.8	0.7	35.3846
0.02	1.024	15.1	19.7	0.2	18.7982
0.025	1.031	12.4	15.4	0.1	14.7505
0.03	1.037	11	13.3	0.1	12.829
0.032	1.04	10.6	12.8	0.1	12.3012
0.035	1.044	10.1	12	0.1	11.6228
0.04	1.051	9.5	11.2	0.05	10.8707
0.05	1.064	8.7	10.2	0.05	9.8652
0.06	1.078	8.2	9.6	0.05	9.2377
0.07	1.091	7.9	9.1	0.05	8.83
0.08	1.105	7.7	8.8	0.05	8.5537
0.09	1.118	7.5	8.6	0.05	8.3044
0.1	1.131	7.3	8.4	0.05	8.1393
0.118	1.155	7.1	8.2	0.05	7.9136
0.13	1.172	7	8	0.05	7.8007
0.15	1.198	6.9	7.9	0.05	7.6551
0.2	1.266	6.7	7.7	0.05	7.4578
0.235	1.313	6.6	7.6	0.05	7.388
0.25	1.333	6.6	7.6	0.05	7.3757
0.353	1.472	6.6	7.6	0.05	7.3213
0.47	1.631	6.6	7.7	0.05	7.4001
0.5	1.67	6.6	7.7	0.05	7.4271
0.6	1.805	6.7	7.8	0.05	7.543
0.605	1.812	6.7	7.8	0.05	7.5477
0.61	1.819	6.7	7.8	0.05	7.5691
0.615	1.825	6.8	7.8	0.05	7.5792
0.62	1.832	6.8	7.8	0.05	7.5795
0.625	1.839	6.8	7.8	0.05	7.5809
0.629	1.844	6.8	7.9	0.05	7.5846

B1.2.2.2.1.3 10" Water Reflection

Case ID: u5o2N20-icyl-0935-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.1.3-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder – 93.5% ^{235}U – 10" Water Reflection

Table B1.2.2.2.1.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Cylinder – 93.5% ^{235}U – 10” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Cylinder- 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.013	31.7	57.1	1.2	--
0.015	1.017	21.8	36.7	0.7	34.235
0.02	1.024	14.3	18.6	0.2	17.6939
0.025	1.031	11.3	14	0.1	13.6407
0.03	1.037	9.9	12.1	0.1	11.6926
0.032	1.04	9.6	11.6	0.1	11.1437
0.035	1.044	9	10.9	0.1	10.5238
0.04	1.051	8.4	10.1	0.05	9.7078
0.05	1.064	7.6	9	0.05	8.6956
0.06	1.078	7.1	8.4	0.05	8.0734
0.07	1.091	6.7	7.9	0.05	7.6536
0.08	1.105	6.4	7.6	0.05	7.334
0.09	1.118	6.2	7.4	0.05	7.1095
0.1	1.131	6.1	7.2	0.05	6.9278
0.118	1.155	5.9	6.9	0.05	6.6703
0.13	1.172	5.7	6.8	0.05	6.537
0.15	1.198	5.6	6.6	0.05	6.3902
0.2	1.266	5.4	6.4	0.05	6.1411
0.235	1.313	5.3	6.3	0.05	6.0496
0.25	1.333	5.3	6.2	0.05	6.0198
0.353	1.472	5.2	6.1	0.05	5.9178
0.47	1.631	5.2	6.1	0.05	5.9202
0.5	1.67	5.2	6.2	0.05	5.9369
0.6	1.805	5.2	6.2	0.05	6.0058
0.605	1.812	5.2	6.2	0.05	6.0017
0.61	1.819	5.2	6.2	0.05	6.0103
0.615	1.825	5.2	6.2	0.05	6.0165
0.62	1.832	5.2	6.2	0.05	6.0144
0.625	1.839	5.2	6.2	0.05	6.0238
0.629	1.844	5.2	6.3	0.05	6.0211

B1.2.2.2.2 3 Molar Excess Acid

B1.2.2.2.1 0" Water Reflection

Case ID: u5o2N23-icy1-0935-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.1-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder – 93.5% ^{235}U – 0" Water Reflection

Table B1.2.2.2.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder – 93.5% ^{235}U – 0” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Cylinder- 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	52.1	69.5	0.8	--
0.015	1.116	29.9	38	0.4	--
0.02	1.123	18.8	25	0.3	23.8013
0.025	1.129	15.3	18.8	0.1	18.1389
0.03	1.136	13.6	16.2	0.1	15.6523
0.032	1.138	13.1	15.5	0.1	15.0166
0.035	1.142	12.5	14.7	0.1	14.2307
0.04	1.149	11.8	13.7	0.1	13.2932
0.05	1.162	10.9	12.5	0.05	12.121
0.06	1.175	10.3	11.7	0.05	11.4348
0.07	1.188	9.9	11.3	0.05	10.9784
0.08	1.201	9.6	10.9	0.05	10.6466
0.09	1.215	9.4	10.7	0.05	10.3858
0.1	1.228	9.3	10.5	0.05	10.1994
0.118	1.251	9.1	10.2	0.05	9.9617
0.13	1.267	8.9	10.1	0.05	9.842
0.15	1.293	8.8	10	0.05	9.6929
0.2	1.359	8.7	9.8	0.05	9.4909
0.235	1.406	8.6	9.7	0.05	9.4258
0.25	1.425	8.6	9.7	0.05	9.4181
0.353	1.561	8.6	9.7	0.05	9.4388
0.47	1.715	8.7	9.8	0.05	9.5727
0.5	1.753	8.8	9.9	0.05	9.6429
0.51	1.766	8.8	10	0.05	9.6622
0.52	1.779	8.8	10	0.05	9.6867
0.53	1.792	8.8	10	0.05	9.6972
0.54	1.805	8.8	10	0.05	9.7233
0.55	1.818	8.9	10	0.05	9.7419
0.56	1.831	8.9	10	0.05	9.7641

B1.2.2.2.2 1" Water Reflection

Case ID: u5o2N23-icyl-0935-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.2-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder – 93.5% ^{235}U – 1" Water Reflection

Table B1.2.2.2.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder – 93.5% ^{235}U – 1” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Cylinder- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	38.5	73.1	1.7	--
0.015	1.116	28.9	32.1	0.1	--
0.02	1.123	17.2	23.5	0.3	22.2583
0.025	1.129	13.8	17.2	0.1	16.5734
0.03	1.136	12	14.6	0.1	14.1041
0.032	1.138	11.5	14	0.1	13.4448
0.035	1.142	10.9	13.1	0.1	12.6809
0.04	1.149	10.3	12.1	0.1	11.7429
0.05	1.162	9.3	10.9	0.05	10.5669
0.06	1.175	8.7	10.2	0.05	9.8635
0.07	1.188	8.4	9.7	0.05	9.4103
0.08	1.201	8.1	9.4	0.05	9.0703
0.09	1.215	7.9	9.1	0.05	8.8214
0.1	1.228	7.7	8.9	0.05	8.6209
0.118	1.251	7.5	8.7	0.05	8.3757
0.13	1.267	7.4	8.5	0.05	8.2545
0.15	1.293	7.3	8.4	0.05	8.1059
0.2	1.359	7.1	8.1	0.05	7.9002
0.235	1.406	7	8.1	0.05	7.8288
0.25	1.425	7	8.1	0.05	7.8146
0.353	1.561	7	8.1	0.05	7.8077
0.47	1.715	7.1	8.2	0.05	7.9427
0.5	1.753	7.1	8.2	0.05	7.9914
0.51	1.766	7.1	8.3	0.05	8.0166
0.52	1.779	7.2	8.3	0.05	8.0301
0.53	1.792	7.2	8.3	0.35	8.0487
0.54	1.805	7.2	8.3	0.05	8.0631
0.55	1.818	7.2	8.3	0.05	8.076
0.56	1.831	7.2	8.4	0.05	8.0998

B1.2.2.2.2.3 10" Water Reflection

Case ID: u5o2N23-icyl-0935-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.3-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder – 93.5% ^{235}U – 10" Water Reflection

Table B1.2.2.2.3-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Cylinder – 93.5% ^{235}U – 10” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Cylinder- 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.112	42.8	79	1.8	--
0.015	1.116	28.7	74.2	2.2	65.6534
0.02	1.123	16.2	22.2	0.3	21.1077
0.025	1.129	12.6	16.1	0.1	15.3782
0.03	1.136	10.9	13.4	0.1	12.9314
0.032	1.138	10.4	12.7	0.1	12.2641
0.035	1.142	9.8	11.9	0.1	11.4902
0.04	1.149	9.1	10.9	0.1	10.5426
0.05	1.162	8.1	9.7	0.05	9.3699
0.06	1.175	7.5	9	0.05	8.6405
0.07	1.188	7.1	8.4	0.05	8.1645
0.08	1.201	6.9	8.1	0.05	7.8129
0.09	1.215	6.6	7.8	0.05	7.5509
0.1	1.228	6.4	7.6	0.05	7.3434
0.118	1.251	6.2	7.3	0.05	7.08
0.13	1.267	6.1	7.2	0.05	6.9407
0.15	1.293	5.9	7	0.05	6.7659
0.2	1.359	5.7	6.7	0.05	6.5204
0.235	1.406	5.6	6.6	0.05	6.4152
0.25	1.425	5.6	6.6	0.05	6.3878
0.353	1.561	5.5	6.5	0.05	6.3021
0.47	1.715	5.5	6.6	0.05	6.3398
0.5	1.753	5.5	6.6	0.05	6.3883
0.51	1.766	5.6	6.6	0.05	6.3903
0.52	1.779	5.6	6.6	0.05	6.3992
0.53	1.792	5.6	6.7	0.05	6.4147
0.54	1.805	5.6	6.7	0.05	6.421
0.55	1.818	5.6	6.7	0.05	6.4301
0.56	1.831	5.6	6.7	0.05	6.4405

B1.2.2.2.3 6 Molar Excess Acid

B1.2.2.2.3.1 0" Water Reflection

Case ID: u5o2N26-icy1-0935-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.3.1-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder – 93.5% ^{235}U – 0" Water Reflection

Table B1.2.2.2.3.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder – 93.5% ^{235}U – 0” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 6M Cylinder- 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	63.8	83.4	0.9	--
0.015	1.206	26.5	50.1	1.1	--
0.02	1.212	21.6	30.6	0.4	28.6531
0.025	1.219	17	21.3	0.2	20.4587
0.03	1.225	14.8	17.9	0.1	17.299
0.032	1.228	14.2	17	0.1	16.4811
0.035	1.231	13.6	16	0.1	15.5703
0.04	1.238	12.7	14.8	0.1	14.3951
0.05	1.251	11.8	13.4	0.1	13.0453
0.06	1.264	11.3	12.6	0.05	12.2559
0.07	1.277	10.6	12.1	0.05	11.7422
0.08	1.289	10.3	11.7	0.05	11.3681
0.09	1.302	10.1	11.4	0.05	11.0901
0.1	1.315	9.9	11.2	0.05	10.8855
0.118	1.338	9.7	10.85	0.05	10.6128
0.13	1.354	9.5	10.8	0.05	10.4833
0.15	1.38	9.4	10.55	0.05	10.3414
0.2	1.444	9.25	10.4	0.05	10.1356
0.235	1.489	9.25	10.4	0.05	10.0841
0.25	1.508	9.2	10.4	0.1	10.0857
0.353	1.639	9.3	10.5	0.05	10.1661
0.47	1.785	9.55	10.8	0.05	10.4595
0.475	1.791	9.5	10.8	0.05	10.4834
0.48	1.797	9.5	10.7	0.1	10.5006
0.486	1.804	9.6	10.8	0.05	10.5272

B1.2.2.2.3.2 1" Water Reflection

Case ID: u5o2N26-icyl-0935-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.3.2-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder – 93.5% ^{235}U – 1" Water Reflection

Table B1.2.2.2.3.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder – 93.5% ^{235}U – 1” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 6M Cylinder- 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	68.8	92.3	1.1	--
0.015	1.206	50.4	51.2	0.1	--
0.02	1.212	20.1	28.7	0.4	27.0445
0.025	1.219	15.4	19.7	0.4	18.8738
0.03	1.225	13.2	16.3	0.1	15.6895
0.032	1.228	12.7	15.5	0.1	14.8745
0.035	1.231	12	14.4	0.1	13.9444
0.04	1.238	11.1	13.2	0.1	12.8109
0.05	1.251	10	11.8	0.1	11.4625
0.06	1.264	9.4	11	0.1	10.6508
0.07	1.277	9.05	10.35	0.1	10.1279
0.08	1.289	8.7	10.1	0.05	9.7401
0.09	1.302	8.4	9.8	0.05	9.4635
0.1	1.315	8.3	9.5	0.05	9.2599
0.118	1.338	8	9.3	0.1	8.978
0.13	1.354	7.9	9.1	0.05	8.8415
0.15	1.38	7.85	8.9	0.05	8.6794
0.2	1.444	7.6	8.7	0.05	8.4746
0.235	1.489	7.5	8.7	0.05	8.4154
0.25	1.508	7.5	8.7	0.05	8.4064
0.353	1.639	7.6	8.7	0.05	8.4687
0.47	1.785	7.8	9	0.05	8.7242
0.475	1.791	7.8	9	0.1	8.7445
0.48	1.797	7.8	9	0.1	8.7484
0.486	1.804	7.95	9.1	0.05	8.7734

B1.2.2.2.3.3 10" Water Reflection

Case ID: u5o2N26-icyl-0935-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Cylinder

Isotopics: 93.5% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.2.2.3.3-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Cylinder – 93.5% ^{235}U – 10" Water Reflection

Table B1.2.2.2.3.3-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Cylinder – 93.5% ²³⁵U –10” Water Reflection

93.5% U235 UO2(NO3)2 6M Cylinder- 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Diameter (Inches)
0.012	1.202	73.7	101	1.3	--
0.015	1.206	2.61	52.6	5.2	--
0.02	1.212	18.8	27.2	0.4	25.7407
0.025	1.219	14.2	18.5	0.4	17.5967
0.03	1.225	12	15.1	0.1	14.4659
0.032	1.228	11.4	14.2	0.1	13.6342
0.035	1.231	10.7	13.2	0.1	12.6733
0.04	1.238	9.9	12	0.1	11.549
0.05	1.251	8.85	10.45	0.05	10.1539
0.06	1.264	8.5	9.65	0.05	9.3417
0.07	1.277	7.7	9.1	0.05	8.7915
0.08	1.289	7.4	8.7	0.05	8.4064
0.09	1.302	7.25	8.4	0.05	8.117
0.1	1.315	6.95	8.2	0.05	7.8816
0.118	1.338	6.7	7.8	0.05	7.5875
0.13	1.354	6.5	7.7	0.05	7.4378
0.15	1.38	6.45	7.5	0.05	7.2554
0.2	1.444	6.1	7.2	0.05	6.9888
0.235	1.489	6	7.1	0.1	6.8894
0.25	1.508	6	7.1	0.05	6.8653
0.353	1.639	6	7.1	0.05	6.8294
0.47	1.785	6	7.15	0.05	6.9498
0.475	1.791	6.1	7.2	0.05	6.9626
0.48	1.797	6.15	7.2	0.05	6.9803
0.486	1.804	6.1	7.2	0.05	6.9863

B1.2.3 Plane

B1.2.3.1 100% ^{235}U

B1.2.3.1.1 0 Molar Excess Acid

B1.2.3.1.1.1 0" Water Reflection

Case ID: u5o2N20-pl-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.1-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane - 100% ^{235}U – 0" Water Reflection

**Table B1.2.3.1.1.1-1. Critical Dimensions for UO₂(NO₃)₂ 0M – Plane - 100% ²³⁵U – 0”
Water Reflection**

100% U235 UO2(NO3)2 0M Plane - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.013	23.8	46	1.1	--
0.015	1.017	13.6	20.1	0.3	18.7979
0.02	1.024	9.6	12.1	0.1	11.6188
0.025	1.031	8.1	9.8	0.05	9.4489
0.03	1.037	7.3	8.7	0.05	8.3742
0.032	1.04	7.1	8.4	0.05	8.0785
0.035	1.044	6.8	8	0.05	7.7163
0.04	1.051	6.5	7.5	0.05	7.262
0.05	1.064	6	6.9	0.05	6.6889
0.06	1.078	5.7	6.6	0.05	6.3236
0.07	1.091	5.5	6.3	0.05	6.08
0.08	1.105	5.3	6.1	0.05	5.8956
0.09	1.118	5.2	6	0.05	5.7651
0.1	1.131	5.1	5.9	0.05	5.6603
0.118	1.155	5	5.7	0.05	5.5283
0.13	1.172	4.9	5.7	0.05	5.4447
0.15	1.199	4.8	5.6	0.05	5.3663
0.2	1.266	4.7	5.5	0.05	5.2467
0.235	1.313	4.7	5.4	0.05	5.2087
0.25	1.333	4.6	5.4	0.05	5.1877
0.353	1.471	4.6	5.4	0.05	5.1583
0.47	1.63	4.7	5.4	0.05	5.2036
0.5	1.671	4.7	5.4	0.05	5.2095
0.6	1.805	4.7	5.5	0.05	5.2753
0.605	1.812	4.7	5.5	0.05	5.2729
0.61	1.819	4.7	5.5	0.05	5.2742
0.615	1.826	4.7	5.5	0.05	5.2903
0.62	1.832	4.7	5.5	0.05	5.2875
0.625	1.839	4.8	5.5	0.05	5.3071
0.629	1.844	4.8	5.5	0.05	5.3091

B1.2.3.1.1.2 1" Water Reflection

Case ID: u5o2N20-pl-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.1.2-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane - 100% ^{235}U – 1" Water Reflection

**Table B1.2.3.1.1.2-1. Critical Dimensions for UO₂(NO₃)₂ 0M – Plane - 100% ²³⁵U – 1”
Water Reflection**

100% U235 UO ₂ (NO ₃) ₂ 0M Plane - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.013	22.3	47.1	1.2	--
0.015	1.017	12	18.6	0.3	17.2024
0.02	1.024	8.1	10.6	0.1	10.071
0.025	1.031	6.6	8.3	0.05	7.8998
0.03	1.037	5.8	7.1	0.05	6.8476
0.032	1.04	5.6	6.8	0.05	6.5438
0.035	1.044	5.3	6.4	0.05	6.1839
0.04	1.051	4.9	6	0.05	5.7283
0.05	1.064	4.3	5.4	0.05	5.1467
0.06	1.078	1.6	5	0.1	4.7775
0.07	1.091	0.6	4.6	0.2	4.5297
0.08	1.105	0.21	4.4	0.2	4.3488
0.09	1.118	0.21	4.2	0.2	4.2184
0.15	1.199	0.21	5	0.2	3.8126
0.2	1.266	0.01	5	0.2	3.6837
0.235	1.313	0.01	5	0.2	3.6251
0.25	1.333	0.01	5	0.2	3.6139
0.353	1.471	0.01	5	0.2	3.572
0.47	1.63	0.21	5	0.2	3.6058
0.5	1.671	0.01	5	0.2	3.6141
0.6	1.805	0.01	5	0.2	3.6579
0.605	1.812	0.01	5	0.2	3.6647
0.61	1.819	0.01	5	0.2	3.6656
0.615	1.826	0.01	5	0.2	3.6569
0.62	1.832	0.01	5	0.2	3.6668
0.625	1.839	0.01	5	0.2	3.6867
0.629	1.844	0.01	5	0.2	3.6831

B1.2.3.1.1.3 10" Water Reflection

Case ID: u5o2N20-pl-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.1.3-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane - 100% ^{235}U – 10" Water Reflection

Table B1.2.3.1.1.3-1. Critical Dimensions for UO₂(NO₃)₂ 0M – Plane - 100% ²³⁵U – 10” Water Reflection

100% U235 UO2(NO3)2 0M Plane - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.013	21.3	42.5	1	--
0.015	1.017	10.9	17.4	0.3	16.0469
0.02	1.024	7	9.4	0.1	8.9471
0.025	1.031	5.5	7.2	0.05	6.8052
0.03	1.037	4.7	6	0.05	5.7151
0.032	1.04	4.4	5.7	0.05	5.4136
0.035	1.044	4	5.3	0.05	5.0405
0.04	1.051	0.2	4.8	0.2	4.5852
0.05	1.064	0.01	3.9	0.2	3.9763
0.06	1.078	0.01	5	0.2	3.6003
0.07	1.091	0.01	5	0.2	3.3383
0.08	1.105	0.01	5	0.2	3.1373
0.09	1.118	0.01	5	0.2	2.9852
0.1	1.131	0.01	5	0.2	2.8682
0.118	1.155	0.01	5	0.2	2.7081
0.13	1.172	0.01	5	0.2	2.6279
0.15	1.199	0.01	5	0.2	2.5154
0.2	1.266	0.01	5	0.2	2.3447
0.235	1.313	0.01	5	0.2	2.2615
0.25	1.333	0.01	5	0.2	2.2399
0.353	1.471	0.01	5	0.2	2.1302
0.47	1.63	0.01	5	0.2	2.0839
0.5	1.671	0.01	5	0.2	2.0812
0.6	1.805	0.01	5	0.2	2.0825
0.605	1.812	0.01	5	0.2	2.0878
0.61	1.819	0.01	5	0.2	2.0766
0.615	1.826	0.01	5	0.2	2.0729
0.62	1.832	0.01	5	0.2	2.0693
0.625	1.839	0.01	5	0.2	2.0857
0.629	1.844	0.01	5	0.2	2.0811

B1.2.3.1.2 3 Molar Excess Acid

B1.2.3.1.2.1 0" Water Reflection

Case ID: u5o2N23-pl-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.2.1-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Plane - 100% ^{235}U – 0" Water Reflection

**Table B1.2.3.1.2.1-1. Critical Dimensions for UO₂(NO₃)₂ 3M – Plane - 100% ²³⁵U – 0”
Water Reflection**

100% U235 UO2(NO3)2 3M Plane - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.112	25	30.3	0.2	--
0.015	1.116	16.5	27.9	0.5	26.969
0.02	1.123	10.8	14.1	0.1	13.4134
0.025	1.129	8.9	10.9	0.1	10.4911
0.03	1.136	7.9	9.5	0.05	9.1544
0.032	1.138	7.7	9.1	0.05	8.7747
0.035	1.142	7.3	8.7	0.05	8.3651
0.04	1.149	6.9	8.1	0.05	7.8103
0.05	1.162	6.4	7.4	0.05	7.1352
0.06	1.175	6	7	0.05	6.7138
0.07	1.188	5.8	6.7	0.05	6.442
0.08	1.201	5.6	6.5	0.05	6.2582
0.09	1.215	5.5	6.3	0.05	6.0991
0.1	1.228	5.4	6.2	0.05	5.9794
0.118	1.251	5.3	6	0.05	5.8321
0.13	1.267	5.2	6	0.05	5.7633
0.15	1.293	5.1	5.9	0.05	5.6807
0.2	1.359	5	5.8	0.05	5.5438
0.235	1.405	5	5.7	0.05	5.5082
0.25	1.425	5	5.7	0.05	5.4896
0.353	1.56	5	5.7	0.05	5.4868
0.47	1.714	5	5.8	0.05	5.5691
0.5	1.753	5.1	5.8	0.05	5.6031
0.51	1.766	5.1	5.8	0.05	5.5905
0.52	1.779	5.1	5.8	0.05	5.6176
0.53	1.792	5.1	5.8	0.05	5.6273
0.54	1.805	5.1	5.9	0.05	5.6393
0.55	1.818	5.1	5.9	0.05	5.6617
0.56	1.831	5.1	5.9	0.05	5.6751

B1.2.3.1.2.2 1" Water Reflection

Case ID: u5o2N23-pl-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.2-2-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Plane - 100% ^{235}U – 1" Water Reflection

Table B1.2.3.1.2.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 3M – Plane - 100% ^{235}U – 1” Water Reflection

100% U235 $\text{UO}_2(\text{NO}_3)_2$ 3M Plane - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.112	25	31.7	0.3	--
0.015	1.116	15	28	0.6	25.0671
0.02	1.123	9.2	12.5	0.1	11.7976
0.025	1.129	7.4	9.3	0.1	8.9077
0.03	1.136	6.4	7.9	0.05	7.5718
0.032	1.138	6.1	7.5	0.05	7.1945
0.035	1.142	5.8	7	0.05	6.7635
0.04	1.149	5.4	6.5	0.05	6.2289
0.05	1.162	4.8	5.8	0.05	5.5532
0.06	1.175	4.4	5.4	0.05	5.1484
0.07	1.188	4.1	5	0.05	4.8725
0.08	1.201	1.3	4.8	0.1	4.6702
0.09	1.215	0.6	4.6	0.2	4.5062
0.1	1.228	0.1	4.5	0.2	4.3983
0.118	1.251	0.21	4.3	0.2	4.2517
0.13	1.267	0.21	4.2	0.2	4.1662

B1.2.3.1.2.3 10" Water Reflection

Case ID: u5o2N23-pl-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 3 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.2.3-1. $\text{UO}_2(\text{NO}_3)_2$ 3M – Plane - 100% ^{235}U – 10" Water Reflection

**Table B1.2.3.1.2.3-1 Critical Dimensions for UO₂(NO₃)₂ 3M – Plane - 100% ²³⁵U – 10”
Water Reflection**

100% U235 UO2(NO3)2 3M Plane -10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.112	25	32.8	0.4	--
0.015	1.116	13.8	26.5	0.6	24.0236
0.02	1.123	8.1	11.3	0.1	10.6632
0.025	1.129	6.2	8.2	0.1	7.7524
0.03	1.136	5.2	6.7	0.05	6.4056
0.032	1.138	4.9	6.3	0.05	6.0319
0.035	1.142	4.5	5.9	0.05	5.5857
0.04	1.149	4	5.3	0.05	5.0274
0.05	1.162	0.01	4.4	0.2	4.3289
0.06	1.175	0.01	3.8	0.1	3.9021
0.07	1.188	0.01	5	0.2	3.6086
0.08	1.201	0.01	5	0.2	3.398
0.09	1.215	0.01	5	0.2	3.2302
0.1	1.228	0.01	5	0.2	3.0937
0.118	1.251	0.01	5	0.2	2.9129
0.13	1.267	0.01	5	0.2	2.8265
0.15	1.293	0.01	5	0.2	2.7133
0.2	1.359	0.01	5	0.2	2.5223
0.235	1.405	0.01	5	0.2	2.438
0.25	1.425	0.01	5	0.2	2.4251
0.353	1.56	0.01	5	0.2	2.3143
0.47	1.714	0.01	5	0.2	2.2766
0.5	1.753	0.01	5	0.2	2.2759
0.51	1.766	0.01	5	0.2	2.2853
0.52	1.779	0.01	5	0.2	2.285
0.53	1.792	0.01	5	0.2	2.2778
0.54	1.805	0.01	5	0.2	2.287
0.55	1.818	0.01	5	0.2	2.2901
0.56	1.831	0.01	5	0.2	2.2884

B1.2.3.1.3 6 Molar Excess Acid

B1.2.3.1.3.1 0" Water Reflection

Case ID: u5o2N26-pl-1000-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.3.1-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Plane - 100% ^{235}U – 0" Water Reflection

**Table B1.2.3.1.3.1-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Plane - 100% ²³⁵U – 0”
Water Reflection**

100% U235 UO2(NO3)2 6M Plane - 0 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.202	25	32.2	0.3	--
0.015	1.206	21.2	37.6	0.8	--
0.02	1.212	12.3	16.6	0.2	15.7409
0.025	1.219	9.8	12.2	0.1	11.7665
0.03	1.225	8.7	10.5	0.1	10.0652
0.032	1.228	8.3	10	0.05	9.6374
0.035	1.231	7.9	9.4	0.05	9.0939
0.04	1.238	7.5	8.8	0.05	8.4707
0.05	1.251	6.8	8	0.05	7.6849
0.06	1.264	6.5	7.5	0.05	7.2256
0.07	1.277	6.2	7.1	0.05	6.9088
0.08	1.289	6	6.9	0.05	6.7009
0.09	1.302	5.9	6.8	0.05	6.535
0.1	1.315	5.8	6.6	0.05	6.4094
0.118	1.338	5.6	6.5	0.05	6.2484
0.13	1.354	5.6	6.4	0.05	6.1646
0.15	1.38	5.5	6.3	0.05	6.0589
0.2	1.444	5.4	6.1	0.05	5.9434
0.235	1.489	5.4	6.1	0.05	5.9068
0.25	1.508	5.4	6.1	0.05	5.8925
0.353	1.638	5.4	6.1	0.05	5.9451
0.47	1.784	5.5	6.3	0.05	6.1101
0.475	1.79	5.5	6.3	0.05	6.1112
0.48	1.796	5.5	6.3	0.05	6.1159
0.486	1.804	5.5	6.3	0.05	6.1105

B1.2.3.1.3.2 1" Water Reflection

Case ID: u5o2N26-pl-1000-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.3.2-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Plane - 100% ^{235}U – 1" Water Reflection

**Table B1.2.3.1.3.2-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Plane - 100% ²³⁵U – 1”
Water Reflection**

100% U235 UO ₂ (NO ₃) ₂ 6M Plane - 1 Inch of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.202	25	31.5	0.3	--
0.015	1.206	19.6	35.3	0.7	--
0.02	1.212	10.7	15	0.2	14.08
0.025	1.219	8.3	10.6	0.1	10.1575
0.03	1.225	7.1	8.8	0.05	8.4583
0.032	1.228	6.7	8.4	0.05	8.0154
0.035	1.231	6.3	7.8	0.05	7.5094
0.04	1.238	5.9	7.2	0.05	6.8373
0.05	1.251	5.2	6.3	0.05	6.0758
0.06	1.264	4.9	5.8	0.05	5.5914
0.07	1.277	4.6	5.5	0.05	5.2733
0.08	1.289	4.4	5.3	0.05	5.0641
0.09	1.302	4.3	5.1	0.05	4.8882
0.1	1.315	4.2	5	0.05	4.7578
0.118	1.338	4	4.8	0.05	4.6024
0.13	1.354	3.9	4.7	0.05	4.5186
0.15	1.38	3.9	4.6	0.05	4.393
0.2	1.444	3.7	4.4	0.05	4.2691
0.235	1.489	3.7	4.4	0.05	4.216
0.25	1.508	3.7	4.4	0.05	4.2044
0.353	1.638	3.7	4.4	0.05	4.2055
0.47	1.784	3.8	4.5	0.05	4.3502
0.475	1.79	3.8	4.5	0.05	4.3536
0.48	1.796	3.8	4.5	0.05	4.3485
0.486	1.804	3.8	4.5	0.05	4.3659

B1.2.3.1.3.3 10" Water Reflection

Case ID: u5o2N26-pl-1000-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 6 Molar Excess Acid

Geometry: Plane

Isotopics: 100% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.1.3.3-1. $\text{UO}_2(\text{NO}_3)_2$ 6M – Plane - 100% ^{235}U – 10" Water Reflection

Table B1.2.3.1.3.3-1. Critical Dimensions for UO₂(NO₃)₂ 6M – Plane - 100% ²³⁵U – 10” Water Reflection

100% U235 UO2(NO3)2 6M Plane - 10 Inches of Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.202	25	31	0.3	--
0.015	1.206	18.4	34.5	0.8	--
0.02	1.212	9.5	13.7	0.2	12.8796
0.025	1.219	7	9.4	0.1	8.8902
0.03	1.225	5.8	7.6	0.1	7.2192
0.032	1.228	5.5	7.1	0.05	6.767
0.035	1.231	5.1	6.5	0.05	6.218
0.04	1.238	4.6	5.8	0.05	5.5751
0.05	1.251	4	5	0.05	4.7624
0.06	1.264	3.6	4.5	0.05	4.2772
0.07	1.277	3.3	4.1	0.05	3.944
0.08	1.289	3.1	3.9	0.05	3.7
0.09	1.302	2.9	3.7	0.05	3.5213
0.1	1.315	2.8	3.6	0.05	3.3765
0.118	1.338	2.6	3.4	0.05	3.1753
0.13	1.354	2.5	3.3	0.05	3.0776
0.15	1.38	2.4	3.1	0.05	2.9572
0.2	1.444	2.2	2.9	0.05	2.7554
0.235	1.489	2.2	2.9	0.05	2.6664
0.25	1.508	2.1	2.8	0.05	2.6378
0.353	1.638	2	2.7	0.05	2.5478
0.47	1.784	2	2.7	0.05	2.5488
0.475	1.79	2	2.7	0.05	2.5663
0.48	1.796	2	2.8	0.05	2.56
0.486	1.804	2	2.7	0.05	2.5743

B1.2.3.2 93.5% ^{235}U

B1.2.3.2.1 0 Molar Excess Acid

B1.2.3.2.1.1 0" Water Reflection

Case ID: u5o2N20-pl-0935-00

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 93.5% ^{235}U

Reflector: 0" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.2.1.1-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane – 93.5% ^{235}U – 0" Water Reflection

Table B1.2.3.2.1.1-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane – 93.5% ^{235}U – 0” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Plane- 0 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.013	32.5	50.6	0.9	--
0.015	1.017	15.3	25.8	0.5	23.4106
0.02	1.024	10.3	13.2	0.1	12.6306
0.025	1.031	8.5	10.4	0.1	10.0112
0.03	1.037	7.6	9.1	0.05	8.7599
0.032	1.04	7.3	8.7	0.05	8.4125
0.035	1.044	7	8.3	0.05	8.0107
0.04	1.051	6.6	7.8	0.05	7.4985
0.05	1.064	6.1	7.1	0.05	6.8594
0.06	1.078	5.8	6.7	0.05	6.4623
0.07	1.091	5.6	6.4	0.05	6.2018
0.08	1.105	5.4	6.2	0.05	6.0051
0.09	1.118	5.3	6.1	0.05	5.8669
0.1	1.131	5.2	5.9	0.05	5.7563
0.118	1.155	5.1	5.8	0.05	5.6115
0.13	1.172	5	5.7	0.05	5.5348
0.15	1.198	4.9	5.6	0.05	5.4505
0.2	1.266	4.8	5.5	0.05	5.3108
0.235	1.313	4.8	5.4	0.05	5.2683
0.25	1.333	4.7	5.4	0.05	5.2526
0.353	1.472	4.7	5.4	0.05	5.2284
0.47	1.631	4.8	5.5	0.05	5.2675
0.5	1.67	4.8	5.5	0.05	5.2913
0.6	1.805	4.8	5.6	0.05	5.3721
0.605	1.812	4.8	5.6	0.05	5.3737
0.61	1.819	4.8	5.6	0.05	5.3751
0.615	1.825	4.8	5.6	0.05	5.3873
0.62	1.832	4.8	5.6	0.05	5.3897
0.625	1.839	4.8	5.6	0.05	5.3968
0.629	1.844	4.9	5.6	0.05	5.4023

B1.2.3.2.1.2 1" Water Reflection

Case ID: u5o2N20-pl-0935-01

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 93.5% ^{235}U

Reflector: 1" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.2.1.2-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane – 93.5% ^{235}U – 1" Water Reflection

Table B1.2.3.2.1.2-1. Critical Dimensions for $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane – 93.5% ^{235}U – 1” Water Reflection

93.5% U235 $\text{UO}_2(\text{NO}_3)_2$ 0M Plane- 1 Inch Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.013	39.2	120.9	4	--
0.015	1.017	13.8	24.3	0.5	21.8698
0.02	1.024	8.7	11.7	0.1	11.098
0.025	1.031	7	8.9	0.1	8.4795
0.03	1.037	6.1	7.5	0.05	7.226
0.032	1.04	5.8	7.2	0.05	6.879
0.035	1.044	5.5	6.7	0.05	6.4705
0.04	1.051	5.1	6.2	0.05	5.9665
0.05	1.064	4.6	5.5	0.05	5.32
0.06	1.078	4.3	5.1	0.05	4.9234
0.07	1.091	4	4.9	0.05	4.6545
0.08	1.105	3.9	4.7	0.05	4.4608
0.09	1.118	3.8	4.5	0.05	4.3172
0.1	1.131	3.6	4.4	0.05	4.206
0.118	1.155	3.5	4.2	0.05	4.0484
0.13	1.172	3.4	4.1	0.05	3.9733
0.15	1.198	3.4	4	0.05	3.8777
0.2	1.266	3.2	3.9	0.05	3.7389
0.235	1.313	3.2	3.9	0.05	3.6917
0.25	1.333	3.2	3.8	0.05	3.6764
0.353	1.472	3.1	3.8	0.05	3.6334
0.47	1.631	3.2	3.8	0.05	3.6629
0.5	1.67	3.2	3.9	0.05	3.6829
0.6	1.805	3.2	3.9	0.05	3.7524
0.605	1.812	3.2	3.9	0.05	3.7488
0.61	1.819	3.2	3.9	0.05	3.7504
0.615	1.825	3.2	3.9	0.05	3.7591
0.62	1.832	3.2	3.9	0.05	3.764
0.625	1.839	3.2	3.9	0.05	3.7645
0.629	1.844	3.2	3.9	0.05	3.7671

B1.2.3.2.1.3 10" Water Reflection

Case ID: u5o2N20-pl-0935-10

Material: $\text{UO}_2(\text{NO}_3)_2$ 0 Molar Excess Acid

Geometry: Plane

Isotopics: 93.5% ^{235}U

Reflector: 10" water reflected

Code: MCNP5 v1.40

Analyst: Mark Murphy

Date: 8/2011

Figure B1.2.3.2.1.3-1. $\text{UO}_2(\text{NO}_3)_2$ 0M – Plane – 93.5% ^{235}U – 10" Water Reflection

Table B1.2.3.2.1.3-1. Critical Dimensions for UO₂(NO₃)₂ 0M – Plane – 93.5% ²³⁵U – 10” Water Reflection

93.5% U235 UO2(NO3)2 0M Plane- 10 Inches Reflection					
Concentration(g/cc)	Density (g/cc)	First Diameter (Inches)	Last Diameter (Inches)	Delta (Inches)	Critical Height (Inches)
0.012	1.013	34.5	129.5	4.7	--
0.015	1.017	12.7	23.2	0.5	20.7472
0.02	1.024	7.7	10.5	0.1	9.994
0.025	1.031	5.9	7.7	0.1	7.3539
0.03	1.037	5	6.4	0.05	6.107
0.032	1.04	4.7	6	0.05	5.7456
0.035	1.044	4.4	5.6	0.05	5.3356
0.04	1.051	4	5	0.05	4.8175
0.05	1.064	3.5	4.4	0.05	4.1583
0.06	1.078	3.1	3.9	0.05	3.7434
0.07	1.091	2.9	3.6	0.05	3.4616
0.08	1.105	2.7	3.4	0.05	3.2491
0.09	1.118	2.5	3.3	0.05	3.0931
0.1	1.131	2.4	3.1	0.05	2.9638
0.118	1.155	2.3	3	0.05	2.7938
0.13	1.172	2.2	2.9	0.05	2.7055
0.15	1.198	2.25	2.7	0.05	2.592
0.2	1.266	1.9	2.5	0.05	2.4008
0.235	1.313	1.9	2.5	0.05	2.327
0.25	1.333	1.8	2.4	0.05	2.2988
0.353	1.472	1.7	2.3	0.05	2.1902
0.47	1.631	1.7	2.3	0.05	2.145
0.5	1.67	1.7	2.3	0.05	2.1481
0.6	1.805	1.7	2.3	0.05	2.1516
0.605	1.812	1.7	2.3	0.05	2.1529
0.61	1.819	1.7	2.3	0.05	2.1459
0.615	1.825	1.7	2.3	0.05	2.1514
0.62	1.832	1.7	2.3	0.05	2.1546
0.625	1.839	1.7	2.3	0.05	2.153
0.629	1.844	1.7	2.3	0.05	2.1539

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APPENDIX C – CRITVIEW COMPATIBLE DATA FILES

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```

!
!MCNP 2011 Nitrate data, interpolated to provide k=1 values only
!
reset:
title: Critical Sphere; Pu(NO3)4 0M; no reflection; 100% Pu239; MCNP5; PuN40-sp-1000-00
reference: PuN40-sp-1000-00
set: MCNP5 set
source: MCNP5 primary
geometry: sphere
modmat: H2O
Critmat: Pu(NO3)4 0M
isomat: Pu239 1.0
reflmat: none
reflthick: 0 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0120 25.1951
0.0150 20.8696
0.0200 17.7486
0.0250 16.2314
0.0300 15.3321
0.0320 15.0608
0.0350 14.7224
0.0400 14.2986
0.0500 13.7561
0.0600 13.4131
0.0700 13.2066
0.0800 13.0285
0.0900 12.9242
0.1000 12.8444
0.1200 12.7379
0.1300 12.6975
0.1500 12.6422
0.2000 12.6045
0.2390 12.5694
0.2500 12.5847
0.3590 12.6452
0.4780 12.8010
0.5000 12.8299
0.6000 13.1910
0.6500 13.5050
0.7000 14.0332
0.7500 15.4784
0.7520 15.6692
0.7540 15.9074
0.7550 16.2095
reset:
title: Critical Sphere; Pu(NO3)4 0M; 1" H2O reflection; 100% Pu239; MCNP5; PuN40-sp-1000-01
reference: PuN40-sp-1000-01
set: MCNP5 set
source: MCNP5 primary
geometry: sphere
modmat: H2O
Critmat: Pu(NO3)4 0M
isomat: Pu239 1.0

```

```

reflmat: H2O
reflthick: 1 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0120 23.6804
0.0150 19.3958
0.0200 16.2440
0.0250 14.7191
0.0300 13.7966
0.0320 13.5365
0.0350 13.2087
0.0400 12.7979
0.0500 12.2362
0.0600 11.8830
0.0700 11.6830
0.0800 11.5149
0.0900 11.3990
0.1000 11.3167
0.1200 11.2024
0.1300 11.1421
0.1500 11.1162
0.2000 11.0542
0.2390 11.0426
0.2500 11.0596
0.3590 11.1237
0.4780 11.2744
0.5000 11.3077
0.6000 11.6531
0.6500 11.8933
0.7000 12.3762
0.7500 13.6454
0.7520 13.8030
0.7540 14.0230
0.7550 14.2662
reset:
title: Critical Sphere; Pu(NO3)4 0M; 10" H2O reflection; 100% Pu239; MCNP5; PuN40-sp-1000-10
reference: PuN40-sp-1000-10
set: MCNP5 set
source: MCNP5 primary
geometry: sphere
modmat: H2O
Critmat: Pu(NO3)4 0M
isomat: Pu239 1.0
reflmat: H2O
reflthick: 10 inches
keff: 1.0
var: critconc g/cc
var: diameter in
0.0120 22.5941
0.0150 18.2780
0.0200 15.1224
0.0250 13.5784
0.0300 12.6670
0.0320 12.3805
0.0350 12.0395

```


0.0400 11.6072
 0.0500 11.0206
 0.0600 10.6441
 0.0700 10.4159
 0.0800 10.2329
 0.0900 10.1082
 0.1000 9.9986
 0.1200 9.8696
 0.1300 9.8238
 0.1500 9.7448
 0.2000 9.6627
 0.2390 9.6339
 0.2500 9.6243
 0.3590 9.6417
 0.4780 9.7568
 0.5000 9.7776
 0.6000 10.0324
 0.6500 10.2546
 0.7000 10.6141
 0.7500 11.6064
 0.7520 11.7187
 0.7540 11.8904
 0.7550 12.0879

reset:

title: Critical Sphere; Pu(NO₃)₄ 3M; no reflection; 100% Pu239; MCNP5; PuN43-sp-1000-00

reference: PuN43-sp-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

Critmat: Pu(NO₃)₄ 3M

isomat: Pu239 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 28.4707

0.0150 22.8116

0.0200 18.9681

0.0250 17.2009

0.0300 16.1510

0.0320 15.8636

0.0350 15.4806

0.0400 15.0094

0.0500 14.3710

0.0600 14.0023

0.0700 13.7714

0.0800 13.6007

0.0900 13.4759

0.1000 13.4063

0.1200 13.3144

0.1300 13.2571

0.1500 13.2353

0.2000 13.2372

0.2390 13.3043

0.2500 13.3231
 0.3590 13.5618
 0.4780 13.9505
 0.5000 14.0700
 0.6000 14.7937
 0.6500 15.5452
 0.6600 15.7538
 0.6700 16.0442
 0.6800 16.4068
 0.6900 16.9692
 0.6980 18.0199

reset:

title: Critical Sphere; Pu(NO₃)₄ 3M; 1" H₂O reflection; 100% Pu239; MCNP5; PuN43-sp-1000-01

reference: PuN43-sp-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: Sphere

modmat: H₂O

Critmat: Pu(NO₃)₄ 3M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 26.9022

0.0150 21.3045

0.0200 17.4545

0.0250 15.6900

0.0300 14.6221

0.0320 14.3224

0.0350 13.9325

0.0400 13.4673

0.0500 12.8337

0.0600 12.4670

0.0700 12.2277

0.0800 12.0556

0.0900 11.9274

0.1000 11.8522

0.1200 11.7486

0.1300 11.6998

0.1500 11.6698

0.2000 11.6634

0.2390 11.7204

0.2500 11.7404

0.3590 11.9651

0.4780 12.3227

0.5000 12.4224

0.6000 13.0912

0.6500 13.7548

0.6600 13.9309

0.6700 14.1749

0.6800 14.4869

0.6900 14.9934

0.6980 15.9224

reset:

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title: Critical Sphere; Pu(NO₃)₄ 3M; 10" H₂O reflection; 100% Pu239; MCNP5; PuN43-sp-1000-10
reference: PuN43-sp-1000-10
set: MCNP5 set
source: MCNP5 primary
geometry: sphere
modmat: H₂O
Critmat: Pu(NO₃)₄ 3M
isomat: Pu239 1.0
reflmat: H₂O
reflthick: 10 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0120 25.8375
0.0150 20.1470
0.0200 16.3107
0.0250 14.5013
0.0300 13.4248
0.0320 13.1199
0.0350 12.7283
0.0400 12.2358
0.0500 11.5770
0.0600 11.1796
0.0700 10.8980
0.0800 10.7152
0.0900 10.5771
0.1000 10.4810
0.1200 10.3447
0.1300 10.2927
0.1500 10.2474
0.2000 10.1829
0.2390 10.1924
0.2500 10.1990
0.3590 10.3483
0.4780 10.6110
0.5000 10.6835
0.6000 11.2222
0.6500 11.7268
0.6600 11.8749
0.6700 12.0672
0.6800 12.3104
0.6900 12.7144
0.6980 13.4050
reset:
title: Critical Sphere; Pu(NO₃)₄ 6M; no reflection; 100% Pu239; MCNP5; PuN46-sp-1000-00
reference: PuN46-sp-1000-00
set: MCNP5 set
source: MCNP5 primary
geometry: sphere
isomat: Pu239 1.0
modmat: H₂O
Critmat: Pu(NO₃)₄ 6M
reflmat: none
reflthick: 0 in
keff: 1.0
var: critconc g/cc

var: diameter in

0.0120	32.5438
0.0150	25.1795
0.0200	20.5363
0.0250	18.4537
0.0300	17.2569
0.0320	16.9092
0.0350	16.4980
0.0400	15.9575
0.0500	15.2671
0.0600	14.8545
0.0700	14.5993
0.0800	14.4186
0.0900	14.2940
0.1000	14.1966
0.1200	14.1246
0.1300	14.0877
0.1500	14.0575
0.2000	14.1001
0.2390	14.1691
0.2500	14.1880
0.3590	14.4352
0.4780	14.6908
0.5000	14.7547
0.6000	15.0641
0.6500	15.2593
0.7000	15.5397
0.7500	15.9348
0.7600	16.0107
0.7650	16.0437
0.7700	16.1056
0.7750	16.1453

reset:

title: Critical Sphere; Pu(NO₃)₄ 6M; 1" H₂O reflection; 100% Pu239; MCNP5; PuN46-sp-1000-01

reference: PuN46-sp-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

Critmat: Pu(NO₃)₄ 6M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120	31.0286
0.0150	23.6238
0.0200	18.9541
0.0250	16.8655
0.0300	15.6658
0.0320	15.3319
0.0350	14.9000
0.0400	14.3639
0.0500	13.6668
0.0600	13.2492

0.0700 13.0137
 0.0800 12.8111
 0.0900 12.6835
 0.1000 12.5983
 0.1200 12.5064
 0.1300 12.4635
 0.1500 12.4378
 0.2000 12.4367
 0.2390 12.5225
 0.2500 12.5355
 0.3590 12.7834
 0.4780 13.0230
 0.5000 13.0763
 0.6000 13.3679
 0.6500 13.5487
 0.7000 13.8110
 0.7500 14.1695
 0.7600 14.2362
 0.7650 14.3011
 0.7700 14.3402
 0.7750 14.3788

reset:

title: Critical Sphere; Pu(NO₃)₄ 6M; 10" H₂O reflection; 100% Pu²³⁹; MCNP5; PuN46-sp-1000-10

reference: PuN46-sp-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

Critmat: Pu(NO₃)₄ 6M

isomat: Pu²³⁹ 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 29.8142

0.0150 22.3990

0.0200 17.7215

0.0250 15.6154

0.0300 14.3922

0.0320 14.0473

0.0350 13.6147

0.0400 13.0585

0.0500 12.3242

0.0600 11.8955

0.0700 11.6045

0.0800 11.3970

0.0900 11.2398

0.1000 11.1352

0.1200 11.0109

0.1300 10.9592

0.1500 10.8943

0.2000 10.8481

0.2390 10.8672

0.2500 10.8865

0.3590 11.0397

0.4780 11.2146
0.5000 11.2490
0.6000 11.4863
0.6500 11.6409
0.7000 11.8434
0.7500 12.1285
0.7600 12.1982
0.7650 12.2401
0.7700 12.2901
0.7750 12.2976

reset:

title: Critical Sphere; Pu(NO₃)₄ 0M; no reflection; 97% Pu239; MCNP5; PuN40-sp-0970-00

reference: PuN40-sp-0970-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

critmat: Pu(NO₃)₄ 0M

isomat: Pu239 0.970 Pu240 0.030

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 26.7988

0.0150 21.8715

0.0200 18.4693

0.0250 16.8214

0.0300 15.8962

0.0320 15.5977

0.0350 15.2625

0.0400 14.8278

0.0500 14.2829

0.0600 13.9626

0.0700 13.7742

0.0800 13.6490

0.0900 13.5652

0.1000 13.5165

0.1200 13.4851

0.1300 13.4525

0.1500 13.4791

0.2000 13.5525

0.2390 13.6584

0.2500 13.6721

0.3590 13.9422

0.4780 14.2500

0.5000 14.3460

0.6000 14.8084

0.6500 15.1717

0.7000 15.7801

0.7500 17.3634

0.7520 17.5542

0.7540 17.8576

0.7550 18.1310

reset:

title: Critical Sphere; Pu(NO₃)₄ 0M; 1" H₂O reflection; 97% Pu239; MCNP5; PuN40-sp-0970-01

reference: PuN40-sp-0970-01
 set: MCNP5 set
 source: MCNP5 primary
 geometry: sphere
 modmat: H2O
 critmat: Pu(NO3)4 0M
 isomat: Pu239 0.970 Pu240 0.030
 reflmat: H2O
 reflthick: 1 in
 keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 25.2939

0.0150 20.3504

0.0200 16.9398

0.0250 15.3167

0.0300 14.3720

0.0320 14.0753

0.0350 13.7347

0.0400 13.3045

0.0500 12.7423

0.0600 12.4042

0.0700 12.2337

0.0800 12.0974

0.0900 12.0082

0.1000 11.9784

0.1200 11.9289

0.1300 11.8997

0.1500 11.9194

0.2000 12.0055

0.2390 12.0921

0.2500 12.1054

0.3590 12.3994

0.4780 12.7192

0.5000 12.7904

0.6000 13.2142

0.6500 13.5482

0.7000 14.0995

0.7500 15.4952

0.7520 15.6722

0.7540 15.9412

0.7550 16.1840

reset:

title: Critical Sphere; Pu(NO3)4 0M; 10" H2O reflection; 97% Pu239; MCNP5; PuN40-sp-0970-10

reference: PuN40-sp-0970-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

critmat: Pu(NO3)4 0M

isomat: Pu239 0.970 Pu240 0.030

reflmat: H2O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 24.1426
 0.0150 19.2421
 0.0200 15.7884
 0.0250 14.1646
 0.0300 13.1872
 0.0320 12.9124
 0.0350 12.5403
 0.0400 12.1055
 0.0500 11.5089
 0.0600 11.1601
 0.0700 10.9474
 0.0800 10.7807
 0.0900 10.6725
 0.1000 10.6106
 0.1200 10.5341
 0.1300 10.4840
 0.1500 10.4706
 0.2000 10.5005
 0.2390 10.5401
 0.2500 10.5657
 0.3590 10.7667
 0.4780 11.0254
 0.5000 11.0753
 0.6000 11.4276
 0.6500 11.7138
 0.7000 12.1355
 0.7500 13.2636
 0.7520 13.4101
 0.7540 13.5844
 0.7550 13.7982

reset:

title: Critical Sphere; Pu(NO₃)₄ 3M; no reflection; 97% Pu239; MCNP5; PuN43-sp-0970-00

reference: PuN43-sp-0970-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

critmat: Pu(NO₃)₄ 3M

isomat: Pu239 0.970 Pu240 0.030

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 30.6830
 0.0150 24.0455
 0.0200 19.7943
 0.0250 17.8615
 0.0300 16.7663
 0.0320 16.4514
 0.0350 16.1033
 0.0400 15.5734
 0.0500 14.9613
 0.0600 14.6178
 0.0700 14.3966
 0.0800 14.2625

0.0900 14.1859
 0.1000 14.1366
 0.1200 14.1291
 0.1300 14.1062
 0.1500 14.1593
 0.2000 14.3200
 0.2390 14.4825
 0.2500 14.5330
 0.3590 15.0366
 0.4780 15.6306
 0.5000 15.7755
 0.6000 16.6638
 0.6500 17.5040
 0.6600 17.7341
 0.6700 18.0310
 0.6800 18.4405
 0.6900 19.0554
 0.6980 20.1861

reset:

title: Critical Sphere; Pu(NO₃)₄ 3M; 1" H₂O reflection; 97% Pu²³⁹; MCNP5; PuN43-sp-0970-01

reference: PuN43-sp-0970-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

critmat: Pu(NO₃)₄ 3M

isomat: Pu²³⁹ 0.970 Pu²⁴⁰ 0.030

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 29.1391
 0.0150 22.5105
 0.0200 18.2778
 0.0250 16.3283
 0.0300 15.2456
 0.0320 14.9106
 0.0350 14.5226
 0.0400 14.0377
 0.0500 13.4127
 0.0600 13.0459
 0.0700 12.8197
 0.0800 12.6972
 0.0900 12.6123
 0.1000 12.5623
 0.1200 12.5578
 0.1300 12.5233
 0.1500 12.5499
 0.2000 12.6987
 0.2390 12.8714
 0.2500 12.9295
 0.3590 13.3847
 0.4780 13.9490
 0.5000 14.0776
 0.6000 14.9093

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0.6500 15.6647

0.6600 15.8656

0.6700 16.1582

0.6800 16.5030

0.6900 17.0340

0.6980 18.0508

reset:

title: Critical Sphere; Pu(NO₃)₄ 3M; 10" H₂O reflection; 97% Pu239; MCNP5; PuN43-sp-0970-10

reference: PuN43-sp-0970-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

critmat: Pu(NO₃)₄ 3M

isomat: Pu239 0.970 Pu240 0.030

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 27.9227

0.0150 21.3522

0.0200 17.0879

0.0250 15.1336

0.0300 14.0287

0.0320 13.6911

0.0350 13.2861

0.0400 12.7814

0.0500 12.1219

0.0600 11.7320

0.0700 11.4786

0.0800 11.3267

0.0900 11.2128

0.1000 11.1307

0.1200 11.0662

0.1300 11.0353

0.1500 11.0477

0.2000 11.0978

0.2390 11.2215

0.2500 11.2413

0.3590 11.6142

0.4780 12.0633

0.5000 12.1659

0.6000 12.8357

0.6500 13.4404

0.6600 13.6075

0.6700 13.8291

0.6800 14.1053

0.6900 14.5477

0.6980 15.3337

reset:

title: Critical Sphere; Pu(NO₃)₄ 6M; no reflection; 97% Pu239; MCNP5; PuN46-sp-0970-00

reference: PuN46-sp-0970-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: Pu(NO3)4 6M
 modmat: H2O
 isomat: Pu239 0.970 Pu240 0.030
 reflmat: none
 reflthick: 0 in
 keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 35.7046

0.0150 26.6893

0.0200 21.5210

0.0250 19.2538

0.0300 17.9758

0.0320 17.6044

0.0350 17.1693

0.0400 16.6234

0.0500 15.9100

0.0600 15.5463

0.0700 15.3163

0.0800 15.1741

0.0900 15.0784

0.1000 15.0378

0.1200 15.0462

0.1300 15.0369

0.1500 15.0732

0.2000 15.3279

0.2390 15.5214

0.2500 15.5599

0.3590 16.0749

0.4780 16.5150

0.5000 16.5984

0.6000 16.9939

0.6500 17.2119

0.7000 17.4874

0.7500 17.8970

0.7600 17.9670

0.7650 18.0355

0.7700 18.0924

0.7750 18.1300

reset:

title: Critical Sphere; Pu(NO3)4 6M; 1" H2O reflection; 97% Pu239; MCNP5; PuN46-sp-0970-01

reference: PuN46-sp-0970-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: Pu(NO3)4 6M

modmat: H2O

isomat: Pu239 0.970 Pu240 0.030

reflmat: H2O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 34.0721

0.0150 25.1257

0.0200 19.9429

0.0250 17.6589
 0.0300 16.3864
 0.0320 16.0123
 0.0350 15.5826
 0.0400 15.0204
 0.0500 14.3314
 0.0600 13.9198
 0.0700 13.6882
 0.0800 13.5340
 0.0900 13.4607
 0.1000 13.4074
 0.1200 13.4079
 0.1300 13.3809
 0.1500 13.4440
 0.2000 13.6385
 0.2390 13.8158
 0.2500 13.8754
 0.3590 14.3642
 0.4780 14.7812
 0.5000 14.8685
 0.6000 15.2500
 0.6500 15.4812
 0.7000 15.7541
 0.7500 16.1141
 0.7600 16.1926
 0.7650 16.2489
 0.7700 16.3036
 0.7750 16.3310

reset:

title: Critical Sphere; Pu(NO₃)₄ 6M; 10" H₂O reflection; 97% Pu²³⁹; MCNP5; PuN46-sp-0970-10

reference: PuN46-sp-0970-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: Pu(NO₃)₄ 6M

modmat: H₂O

isomat: Pu²³⁹ 0.970 Pu²⁴⁰ 0.030

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 32.9000
 0.0150 23.9407
 0.0200 18.6801
 0.0250 16.3808
 0.0300 15.0936
 0.0320 14.7303
 0.0350 14.2725
 0.0400 13.6916
 0.0500 12.9586
 0.0600 12.5278
 0.0700 12.2619
 0.0800 12.0805
 0.0900 11.9652
 0.1000 11.8702

0.1200 11.8078
 0.1300 11.7854
 0.1500 11.8007
 0.2000 11.8965
 0.2390 12.0256
 0.2500 12.0685
 0.3590 12.4494
 0.4780 12.7739
 0.5000 12.8627
 0.6000 13.1733
 0.6500 13.3626
 0.7000 13.5964
 0.7500 13.8787
 0.7600 13.9575
 0.7650 14.0037
 0.7700 14.0274
 0.7750 14.0692

reset:

title: Critical Sphere; Pu(NO₃)₄ 0M; no reflection; 95% Pu239; MCNP5; PuN40-sp-0950-00

reference: PuN40-sp-0950-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: Pu(NO₃)₄ 0M

modmat: H₂O

isomat: Pu239 0.950 Pu240 0.050

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 27.9794
 0.0150 22.5960
 0.0200 18.9425
 0.0250 17.2251
 0.0300 16.2418
 0.0320 15.9699
 0.0350 15.6204
 0.0400 15.1568
 0.0500 14.6137
 0.0600 14.2833
 0.0700 14.0967
 0.0800 13.9957
 0.0900 13.9371
 0.1000 13.8904
 0.1200 13.8714
 0.1300 13.8419
 0.1500 13.8908
 0.2000 14.0251
 0.2390 14.1418
 0.2500 14.2003
 0.3590 14.5168
 0.4780 14.8756
 0.5000 14.9438
 0.6000 15.4410
 0.6500 15.8050

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0.7000 16.4390

0.7500 18.0811

0.7520 18.2816

0.7540 18.5576

0.7550 18.8395

reset:

title: Critical Sphere; Pu(NO₃)₄ 0M; 1" H₂O reflection; 95% Pu²³⁹; MCNP5; PuN40-sp-0950-01

reference: PuN40-sp-0950-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: Pu(NO₃)₄ 0M

modmat: H₂O

isomat: Pu²³⁹ 0.950 Pu²⁴⁰ 0.050

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 26.4924

0.0150 21.0891

0.0200 17.4364

0.0250 15.7054

0.0300 14.7142

0.0320 14.4369

0.0350 14.0593

0.0400 13.6350

0.0500 13.0681

0.0600 12.7511

0.0700 12.5783

0.0800 12.4427

0.0900 12.3748

0.1000 12.3164

0.1200 12.2970

0.1300 12.3064

0.1500 12.3275

0.2000 12.4449

0.2390 12.5545

0.2500 12.6066

0.3590 12.9504

0.4780 13.2904

0.5000 13.3705

0.6000 13.8482

0.6500 14.1638

0.7000 14.7443

0.7500 16.2010

0.7520 16.4027

0.7540 16.6323

0.7550 16.8892

reset:

title: Critical Sphere; Pu(NO₃)₄ 0M; 10" H₂O reflection; 95% Pu²³⁹; MCNP5; PuN40-sp-0950-10

reference: PuN40-sp-0950-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: Pu(NO₃)₄ 0M

modmat: H2O
 isomat: Pu239 0.950 Pu240 0.050
 reflmat: H2O
 reflthick: 10 in
 keff: 1.0

var: critconc g/cc
 var: diameter in

0.0120	25.3989
0.0150	19.9554
0.0200	16.2795
0.0250	14.5428
0.0300	13.5365
0.0320	13.2398
0.0350	12.8763
0.0400	12.4073
0.0500	11.8271
0.0600	11.4578
0.0700	11.2534
0.0800	11.1090
0.0900	10.9981
0.1000	10.9547
0.1200	10.8700
0.1300	10.8515
0.1500	10.8382
0.2000	10.9012
0.2390	10.9827
0.2500	10.9909
0.3590	11.2579
0.4780	11.5460
0.5000	11.6191
0.6000	11.9991
0.6500	12.2765
0.7000	12.7425
0.7500	13.8909
0.7520	14.0378
0.7540	14.2439
0.7550	14.4358

reset:

title: Critical Cylinder; Pu(NO3)4 0M; no reflection; 100% Pu239; MCNP5; PuN40-icyl-1000-00

reference: PuN40-icyl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

critmat: Pu(NO3)4 0M

isomat: Pu239 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120	18.7761
0.0150	15.5795
0.0200	13.1729
0.0250	12.0253
0.0300	11.3261

0.0320 11.0955
 0.0350 10.8763
 0.0400 10.5513
 0.0500 10.1115
 0.0600 9.8475
 0.0700 9.6909
 0.0800 9.5692
 0.0900 9.4825
 0.1000 9.4255
 0.1200 9.3308
 0.1300 9.3016
 0.1500 9.2506
 0.2000 9.2135
 0.2390 9.1932
 0.2500 9.2177
 0.3590 9.2530
 0.4780 9.3648
 0.5000 9.4094
 0.6000 9.6687
 0.6500 9.8978
 0.7000 10.2797
 0.7500 11.3628
 0.7520 11.5119
 0.7540 11.6832
 0.7550 11.8834

reset:

title: Critical Cylinder; Pu(NO₃)₄ 0M; 1" H₂O reflection; 100% Pu239; MCNP5; PuN40-icyl-1000-01

reference: PuN40-icyl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: Pu(NO₃)₄ 0M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 17.2000

0.0150 14.0524

0.0200 11.6560

0.0250 10.4959

0.0300 9.8103

0.0320 9.5884

0.0350 9.3311

0.0400 9.0184

0.0500 8.5836

0.0600 8.3004

0.0700 8.1548

0.0800 8.0176

0.0900 7.9371

0.1000 7.8817

0.1200 7.7775

0.1300 7.7406

0.1500 7.7079

0.2000 7.6509
 0.2390 7.6660
 0.2500 7.6610
 0.3590 7.6937
 0.4780 7.8280
 0.5000 7.8591
 0.6000 8.1035
 0.6500 8.2772
 0.7000 8.6195
 0.7500 9.4956
 0.7520 9.6257
 0.7540 9.7716
 0.7550 9.9276

reset:

title: Critical Cylinder; Pu(NO₃)₄ 0M; 10" H₂O reflection; 100% Pu²³⁹; MCNP5; PuN40-icyl-1000-10

reference: PuN40-icyl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: Pu(NO₃)₄ 0M

isomat: Pu²³⁹ 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 16.1926

0.0150 12.9348

0.0200 10.5112

0.0250 9.3500

0.0300 8.6283

0.0320 8.4145

0.0350 8.1592

0.0400 7.8122

0.0500 7.3452

0.0600 7.0539

0.0700 6.8709

0.0800 6.7266

0.0900 6.6395

0.1000 6.5323

0.1200 6.4370

0.1300 6.3846

0.1500 6.3201

0.2000 6.2359

0.2390 6.2051

0.2500 6.1832

0.3590 6.1997

0.4780 6.2572

0.5000 6.2785

0.6000 6.4355

0.6500 6.5714

0.7000 6.8096

0.7500 7.4332

0.7520 7.5517

0.7540 7.6435

0.7550 7.7605

reset:

title: Critical Cylinder; Pu(NO₃)₄ 3M; no reflection; 100% Pu239; MCNP5; PuN43-icyl-1000-00

reference: PuN43-icyl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: Pu(NO₃)₄ 3M

isomat: Pu239 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 21.3173

0.0150 17.0363

0.0200 14.0673

0.0250 12.7364

0.0300 11.9349

0.0320 11.7076

0.0350 11.4352

0.0400 11.0646

0.0500 10.5760

0.0600 10.3067

0.0700 10.1186

0.0800 9.9862

0.0900 9.9066

0.1000 9.8483

0.1200 9.7610

0.1300 9.7422

0.1500 9.7084

0.2000 9.7128

0.2390 9.7435

0.2500 9.7825

0.3590 9.9383

0.4780 10.2316

0.5000 10.3235

0.6000 10.8459

0.6500 11.4250

0.6600 11.5800

0.6700 11.7806

0.6800 12.0568

0.6900 12.4660

0.6980 13.2338

reset:

title: Critical Cylinder; Pu(NO₃)₄ 3M; 1" H₂O reflection; 100% Pu239; MCNP5; PuN43-icyl-1000-01

reference: PuN43-icyl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: Pu(NO₃)₄ 3M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 1 in

```

keff: 1.0
var: critconc g/cc
var: diameter in
0.0120 19.7474
0.0150 15.5025
0.0200 12.5503
0.0250 11.1838
0.0300 10.3890
0.0320 10.1707
0.0350 9.8770
0.0400 9.5170
0.0500 9.0320
0.0600 8.7591
0.0700 8.5476
0.0800 8.4508
0.0900 8.3264
0.1000 8.2554
0.1200 8.2023
0.1300 8.1540
0.1500 8.1270
0.2000 8.1185
0.2390 8.1602
0.2500 8.1551
0.3590 8.3307
0.4780 8.5847
0.5000 8.6616
0.6000 9.1176
0.6500 9.5847
0.6600 9.7314
0.6700 9.8980
0.6800 10.1248
0.6900 10.4858
0.6980 11.1261
reset:
title: Critical Cylinder; Pu(NO3)4 3M; 10" H2O reflection; 100% Pu239; MCNP5; PuN43-icyl-1000-10
reference: PuN43-icyl-1000-10
set: MCNP5 set
source: MCNP5 primary
geometry: infcyl
modmat: H2O
Critmat: Pu(NO3)4 3M
isomat: Pu239 1.0
reflmat: H2O
reflthick: 10 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0120 18.6193
0.0150 14.3553
0.0200 11.4010
0.0250 10.0215
0.0300 9.1879
0.0320 8.9546
0.0350 8.6420
0.0400 8.2573
0.0500 7.7602

```

0.0600 7.4304
 0.0700 7.2066
 0.0800 7.0788
 0.0900 6.9636
 0.1000 6.8843
 0.1200 6.7601
 0.1300 6.6984
 0.1500 6.6651
 0.2000 6.6052
 0.2390 6.6114
 0.2500 6.5884
 0.3590 6.6658
 0.4780 6.8372
 0.5000 6.8977
 0.6000 7.2220
 0.6500 7.5676
 0.6600 7.6824
 0.6700 7.7564
 0.6800 7.9737
 0.6900 8.2184
 0.6980 8.6798

reset:

title: Critical Cylinder; Pu(NO₃)₄ 6M; no reflection; 100% Pu239; MCNP5; PuN46-icyl-1000-00

reference: PuN46-icyl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

Critmat: Pu(NO₃)₄ 6M

isomat: Pu239 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 24.4075

0.0150 18.8338

0.0200 15.2923

0.0250 13.6885

0.0300 12.7775

0.0320 12.5027

0.0350 12.2089

0.0400 11.8001

0.0500 11.2439

0.0600 10.9336

0.0700 10.7413

0.0800 10.6166

0.0900 10.5150

0.1000 10.4594

0.1200 10.3749

0.1300 10.3375

0.1500 10.3303

0.2000 10.3564

0.2390 10.3958

0.2500 10.4222

0.3590 10.6134

0.4780 10.7839
 0.5000 10.8350
 0.6000 11.0809
 0.6500 11.2237
 0.7000 11.4224
 0.7500 11.6914
 0.7600 11.7600
 0.7650 11.8168
 0.7700 11.8463
 0.7750 11.8789

reset:

title: Critical Cylinder; Pu(NO₃)₄ 6M; 1" H₂O reflection; 100% Pu239; MCNP5; PuN46-icyl-1000-01

reference: PuN46-icyl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: Pu(NO₃)₄ 6M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 22.8535

0.0150 17.2257

0.0200 13.6965

0.0250 12.1036

0.0300 11.1767

0.0320 10.9263

0.0350 10.6091

0.0400 10.1846

0.0500 9.6547

0.0600 9.3416

0.0700 9.1300

0.0800 9.0033

0.0900 8.8851

0.1000 8.8226

0.1200 8.7419

0.1300 8.7145

0.1500 8.6938

0.2000 8.6941

0.2390 8.7484

0.2500 8.7541

0.3590 8.9245

0.4780 9.0965

0.5000 9.1457

0.6000 9.3490

0.6500 9.4870

0.7000 9.6788

0.7500 9.9220

0.7600 10.0088

0.7650 10.0283

0.7700 10.0809

0.7750 10.0745

reset:

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title: Critical Cylinder; Pu(NO₃)₄ 6M; 10" H₂O reflection; 100% Pu239; MCNP5; PuN46-icyl-1000-10
reference: PuN46-icyl-1000-10
set: MCNP5 set
source: MCNP5 primary
geometry: infcyl
modmat: H₂O
critmat: Pu(NO₃)₄ 6M
isomat: Pu239 1.0
reflmat: H₂O
reflthick: 10 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0120 21.6275
0.0150 15.9890
0.0200 12.4653
0.0250 10.8174
0.0300 9.8863
0.0320 9.6273
0.0350 9.2902
0.0400 8.8573
0.0500 8.2984
0.0600 7.9429
0.0700 7.7076
0.0800 7.5515
0.0900 7.4187
0.1000 7.3434
0.1200 7.2082
0.1300 7.1780
0.1500 7.1303
0.2000 7.0706
0.2390 7.0639
0.2500 7.0760
0.3590 7.1505
0.4780 7.2583
0.5000 7.2854
0.6000 7.4409
0.6500 7.5481
0.7000 7.6681
0.7500 7.8659
0.7600 7.8994
0.7650 7.9464
0.7700 7.9485
0.7750 7.9778
reset:
title: Critical Cylinder; Pu(NO₃)₄ 0M; no reflection; 97% Pu239; MCNP5; PuN40-icyl-0970-00
reference: PuN40-icyl-0970-00
set: MCNP5 set
source: MCNP5 primary
geometry: infcyl
modmat: H₂O
critmat: Pu(NO₃)₄ 0M
isomat: Pu239 0.970 Pu240 0.030
reflmat: none
reflthick: 0 in
keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 20.0419

0.0150 16.2832

0.0200 13.6883

0.0250 12.4409

0.0300 11.7233

0.0320 11.5081

0.0350 11.2518

0.0400 10.9168

0.0500 10.5076

0.0600 10.2621

0.0700 10.1253

0.0800 10.0185

0.0900 9.9538

0.1000 9.9223

0.1200 9.8906

0.1300 9.8694

0.1500 9.8877

0.2000 9.9462

0.2390 10.0085

0.2500 10.0319

0.3590 10.2398

0.4780 10.4771

0.5000 10.5291

0.6000 10.8705

0.6500 11.1356

0.7000 11.5825

0.7500 12.7566

0.7520 12.9027

0.7540 13.1201

0.7550 13.3177

reset:

title: Critical Cylinder; Pu(NO₃)₄ 0M; 1" H₂O reflection; 97% Pu239; MCNP5; PuN40-icyl-0970-01

reference: PuN40-icyl-0970-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: Pu(NO₃)₄ 0M

isomat: Pu239 0.970 Pu240 0.030

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 18.5111

0.0150 14.7652

0.0200 12.1667

0.0250 10.9244

0.0300 10.1940

0.0320 9.9861

0.0350 9.7162

0.0400 9.3854

0.0500 8.9635

0.0600 8.7116

0.0700 8.5725
 0.0800 8.4603
 0.0900 8.3962
 0.1000 8.3554
 0.1200 8.3185
 0.1300 8.3012
 0.1500 8.3076
 0.2000 8.3627
 0.2390 8.4323
 0.2500 8.4505
 0.3590 8.6454
 0.4780 8.8849
 0.5000 8.9487
 0.6000 9.2585
 0.6500 9.4952
 0.7000 9.8849
 0.7500 10.8840
 0.7520 11.0095
 0.7540 11.1936
 0.7550 11.3479

reset:

title: Critical Cylinder; Pu(NO₃)₄ 0M; 10" H₂O reflection; 97% Pu²³⁹; MCNP5; PuN40-icyl-0970-10

reference: PuN40-icyl-0970-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: Pu(NO₃)₄ 0M

isomat: Pu²³⁹ 0.970 Pu²⁴⁰ 0.030

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 17.3852
 0.0150 13.6303
 0.0200 11.0214
 0.0250 9.7576
 0.0300 8.9999
 0.0320 8.7866
 0.0350 8.5131
 0.0400 8.1566
 0.0500 7.7002
 0.0600 7.4258
 0.0700 7.2527
 0.0800 7.1158
 0.0900 7.0336
 0.1000 6.9558
 0.1200 6.8877
 0.1300 6.8571
 0.1500 6.8338
 0.2000 6.8254
 0.2390 6.8599
 0.2500 6.8678
 0.3590 6.9825
 0.4780 7.1528

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0.5000 7.1909
0.6000 7.4360
0.6500 7.6108
0.7000 7.8932
0.7500 8.6343
0.7520 8.7289
0.7540 8.8740
0.7550 8.9866

reset:

title: Critical Cylinder; Pu(NO₃)₄ 3M; no reflection; 97% Pu239; MCNP5; PuN43-icyl-0970-00

reference: PuN43-icyl-0970-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

critmat: Pu(NO₃)₄ 3M

isomat: Pu239 0.970 Pu240 0.030

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 23.0228
0.0150 17.9460
0.0200 14.7180
0.0250 13.2455
0.0300 12.4010
0.0320 12.1607
0.0350 11.8652
0.0400 11.5023
0.0500 11.0282
0.0600 10.7451
0.0700 10.5938
0.0800 10.4960
0.0900 10.4254
0.1000 10.3895
0.1200 10.3774
0.1300 10.3688
0.1500 10.3933
0.2000 10.5191
0.2390 10.6410
0.2500 10.6802
0.3590 11.0399
0.4780 11.4874
0.5000 11.6140
0.6000 12.2412
0.6500 12.8700
0.6600 13.0496
0.6700 13.2741
0.6800 13.5914
0.6900 14.0211
0.6980 14.8525

reset:

title: Critical Cylinder; Pu(NO₃)₄ 3M; 1" H2O reflection; 97% Pu239; MCNP5; PuN43-icyl-0970-01

reference: PuN43-icyl-0970-01

set: MCNP5 set

source: MCNP5 primary
 geometry: infcyl
 modmat: H2O
 critmat: Pu(NO3)4 3M
 isomat: Pu239 0.970 Pu240 0.030
 reflmat: H2O
 reflthick: 1 in
 keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 21.4679

0.0150 16.4142

0.0200 13.1751

0.0250 11.6868

0.0300 10.8662

0.0320 10.6160

0.0350 10.3254

0.0400 9.9346

0.0500 9.4676

0.0600 9.1904

0.0700 9.0115

0.0800 8.9094

0.0900 8.8372

0.1000 8.7927

0.1200 8.7759

0.1300 8.7600

0.1500 8.7907

0.2000 8.8963

0.2390 9.0078

0.2500 9.0445

0.3590 9.3835

0.4780 9.7935

0.5000 9.8915

0.6000 10.4822

0.6500 11.0333

0.6600 11.1822

0.6700 11.3837

0.6800 11.6378

0.6900 12.0144

0.6980 12.7574

reset:

title: Critical Cylinder; Pu(NO3)4 3M; 10" H2O reflection; 97% Pu239; MCNP5; PuN43-icyl-0970-10

reference: PuN43-icyl-0970-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

critmat: Pu(NO3)4 3M

isomat: Pu239 0.970 Pu240 0.030

reflmat: H2O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 20.3307

0.0150 15.2232

0.0200 11.9896
 0.0250 10.4950
 0.0300 9.6291
 0.0320 9.3777
 0.0350 9.0594
 0.0400 8.6634
 0.0500 8.1548
 0.0600 7.8423
 0.0700 7.6431
 0.0800 7.5000
 0.0900 7.4144
 0.1000 7.3543
 0.1200 7.2738
 0.1300 7.2543
 0.1500 7.2403
 0.2000 7.2542
 0.2390 7.3323
 0.2500 7.3399
 0.3590 7.5781
 0.4780 7.8817
 0.5000 7.9559
 0.6000 8.3905
 0.6500 8.8014
 0.6600 8.9137
 0.6700 9.0470
 0.6800 9.2442
 0.6900 9.5317
 0.6980 10.0699

reset:

title: Critical Cylinder; Pu(NO₃)₄ 6M; no reflection; 97% Pu239; MCNP5; PuN46-icyl-0970-00

reference: PuN46-icyl-0970-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: Pu(NO₃)₄ 6M

isomat: Pu239 0.970 Pu240 0.030

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 26.8366
 0.0150 19.9948
 0.0200 16.0108
 0.0250 14.2684
 0.0300 13.3245
 0.0320 13.0233
 0.0350 12.7048
 0.0400 12.2825
 0.0500 11.7565
 0.0600 11.4484
 0.0700 11.2841
 0.0800 11.1708
 0.0900 11.1008
 0.1000 11.0623

0.1200 11.0539
 0.1300 11.0483
 0.1500 11.0981
 0.2000 11.2536
 0.2390 11.4031
 0.2500 11.4474
 0.3590 11.8328
 0.4780 12.1613
 0.5000 12.2139
 0.6000 12.5106
 0.6500 12.6713
 0.7000 12.8927
 0.7500 13.1854
 0.7600 13.2411
 0.7650 13.2868
 0.7700 13.3394
 0.7750 13.3687

reset:

title: Critical Cylinder; Pu(NO₃)₄ 6M; 1" H₂O reflection; 97% Pu²³⁹; MCNP5; PuN46-icyl-0970-01

reference: PuN46-icyl-0970-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: Pu(NO₃)₄ 6M

isomat: Pu²³⁹ 0.970 Pu²⁴⁰ 0.030

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 25.1980
 0.0150 18.3879
 0.0200 14.4374
 0.0250 12.6771
 0.0300 11.7262
 0.0320 11.4404
 0.0350 11.0938
 0.0400 10.6735
 0.0500 10.1260
 0.0600 9.8299
 0.0700 9.6635
 0.0800 9.5380
 0.0900 9.4737
 0.1000 9.4155
 0.1200 9.4093
 0.1300 9.3951
 0.1500 9.4317
 0.2000 9.5717
 0.2390 9.7071
 0.2500 9.7379
 0.3590 10.1035
 0.4780 10.4174
 0.5000 10.4822
 0.6000 10.7574
 0.6500 10.9275

0.7000 11.1276

0.7500 11.3892

0.7600 11.4472

0.7650 11.4993

0.7700 11.5302

0.7750 11.5585

reset:

title: Critical Cylinder; Pu(NO₃)₄ 6M; 10" H₂O reflection; 97% Pu239; MCNP5; PuN46-icyl-0970-10

reference: PuN46-icyl-0970-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: Pu(NO₃)₄ 6M

isomat: Pu239 0.970 Pu240 0.030

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0120 23.9584

0.0150 17.1667

0.0200 13.1750

0.0250 11.4159

0.0300 10.4219

0.0320 10.1284

0.0350 9.7647

0.0400 9.3281

0.0500 8.7600

0.0600 8.4147

0.0700 8.2105

0.0800 8.0517

0.0900 7.9426

0.1000 7.8749

0.1200 7.7985

0.1300 7.7859

0.1500 7.7721

0.2000 7.8235

0.2390 7.8897

0.2500 7.9241

0.3590 8.1655

0.4780 8.3885

0.5000 8.4430

0.6000 8.6508

0.6500 8.7729

0.7000 8.9266

0.7500 9.1516

0.7600 9.1846

0.7650 9.2288

0.7700 9.2516

0.7750 9.2649

reset:

title: Critical Slab; Pu(NO₃)₄ 0M; no reflection; 100% Pu239; MCNP5; PuN40-pl-1000-00

reference: PuN40-pl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infplane
 modmat: H2O
 Critmat: Pu(NO3)4 0M
 isomat: Pu239 1.0
 reflmat: none
 reflthick: 0 in
 keff: 1.0

var: critconc g/cc
 var: height in

0.0120	11.6392
0.0150	9.5107
0.0200	7.9760
0.0250	7.2443
0.0300	6.8072
0.0320	6.6524
0.0350	6.5136
0.0400	6.2929
0.0500	6.0227
0.0600	5.8492
0.0700	5.7401
0.0800	5.6561
0.0900	5.6029
0.1000	5.5629
0.1200	5.5075
0.1300	5.4748
0.1500	5.4524
0.2000	5.4148
0.2390	5.4094
0.2500	5.4144
0.3590	5.4385
0.4780	5.5130
0.5000	5.5249
0.6000	5.6890
0.6500	5.8223
0.7000	6.0588
0.7500	6.6940
0.7520	6.7666
0.7540	6.8822
0.7550	6.9957

reset:

title: Critical Slab; Pu(NO3)4 0M; 1" H2O reflection; 100% Pu239; MCNP5; PuN40-pl-1000-01

reference: PuN40-pl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H2O

Critmat: Pu(NO3)4 0M

isomat: Pu239 1.0

reflmat: H2O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120	10.1075
0.0150	8.0112
0.0200	6.4604

0.0250 5.7064
 0.0300 5.2449
 0.0320 5.1355
 0.0350 4.9572
 0.0400 4.7477
 0.0500 4.4618
 0.0600 4.2864
 0.0700 4.1814
 0.0800 4.1006
 0.0900 4.0338
 0.1000 3.9873
 0.1200 3.9202
 0.1300 3.9091
 0.1500 3.8667
 0.2000 3.8390
 0.2390 3.8335
 0.2500 3.8365
 0.3590 3.8485
 0.4780 3.9149
 0.5000 3.9339
 0.6000 4.0598
 0.6500 4.1688
 0.7000 4.3480
 0.7500 4.8082
 0.7520 4.8791
 0.7540 4.9594
 0.7550 5.0499

reset:

title: Critical Slab; Pu(NO₃)₄ 0M; 10" H₂O reflection; 100% Pu²³⁹; MCNP5; PuN40-pl-1000-10

reference: PuN40-pl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: Pu(NO₃)₄ 0M

isomat: Pu²³⁹ 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120 9.0109
 0.0150 6.8573
 0.0200 5.3050
 0.0250 4.5386
 0.0300 4.0806
 0.0320 3.9273
 0.0350 3.7583
 0.0400 3.5206
 0.0500 3.2126
 0.0600 3.0168
 0.0700 2.8657
 0.0800 2.7678
 0.0900 2.6869
 0.1000 2.6259
 0.1200 2.5404

0.1300 2.4932
 0.1500 2.4416
 0.2000 2.3618
 0.2390 2.3224
 0.2500 2.3080
 0.3590 2.2759
 0.4780 2.2822
 0.5000 2.2923
 0.6000 2.3428
 0.6500 2.3908
 0.7000 2.5072
 0.7500 2.7435
 0.7520 2.8014
 0.7540 2.8271
 0.7550 2.8833

reset:

title: Critical Slab; Pu(NO₃)₄ 3M; no reflection; 100% Pu239; MCNP5; PuN43-pl-1000-00

reference: PuN43-pl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: Pu(NO₃)₄ 3M

isomat: Pu239 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120 13.2494

0.0150 10.4597

0.0200 8.5809

0.0250 7.7138

0.0300 7.1876

0.0320 7.0331

0.0350 6.8541

0.0400 6.6159

0.0500 6.3150

0.0600 6.1357

0.0700 5.9998

0.0800 5.9261

0.0900 5.8743

0.1000 5.8241

0.1200 5.7656

0.1300 5.7447

0.1500 5.7380

0.2000 5.7308

0.2390 5.7593

0.2500 5.7659

0.3590 5.8636

0.4780 6.0428

0.5000 6.0901

0.6000 6.4127

0.6500 6.7495

0.6600 6.8476

0.6700 6.9698

0.6800 7.1268

0.6900 7.3782

0.6980 7.8535

reset:

title: Critical Slab; Pu(NO₃)₄ 3M; 1" H₂O reflection; 100% Pu239; MCNP5; PuN43-pl-1000-01

reference: PuN43-pl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: Pu(NO₃)₄ 3M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120 11.7075

0.0150 8.9095

0.0200 7.0280

0.0250 6.1512

0.0300 5.6232

0.0320 5.4823

0.0350 5.2913

0.0400 5.0704

0.0700 4.4313

0.0800 4.3311

0.0900 4.2686

0.1000 4.2163

0.1200 4.1662

0.1300 4.1563

0.1500 4.1304

0.2000 4.1087

0.2390 4.1177

0.2500 4.1290

0.3590 4.2040

0.4780 4.3407

0.5000 4.3962

0.6600 4.9835

0.6700 5.0503

0.6800 5.1906

0.6900 5.3809

0.6980 5.7550

reset:

title: Critical Slab; Pu(NO₃)₄ 3M; 10" H₂O reflection; 100% Pu239; MCNP5; PuN43-pl-1000-10

reference: PuN43-pl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: Pu(NO₃)₄ 3M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120	10.5566
0.0150	7.7471
0.0200	5.8540
0.0250	4.9351
0.0300	4.3860
0.0320	4.2385
0.0350	4.0406
0.0400	3.7876
0.0500	3.4362
0.0600	3.2238
0.0700	3.0679
0.0800	2.9536
0.0900	2.8716
0.1000	2.8076
0.1200	2.7075
0.1300	2.6733
0.1500	2.6176
0.2000	2.5410
0.2390	2.5157
0.2500	2.5143
0.3590	2.4960
0.4780	2.5598
0.5000	2.5785
0.6000	2.6991
0.6500	2.8613
0.6600	2.8985
0.6700	2.9363
0.6800	3.0257
0.6900	3.1194
0.6980	3.3406

reset:

title: Critical Slab; Pu(NO₃)₄ 6M; no reflection; 100% Pu239; MCNP5; PuN46-pl-1000-00

reference: PuN46-pl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: Pu(NO₃)₄ 6M

isomat: Pu239 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120	15.3038
0.0150	11.5912
0.0200	9.3323
0.0250	8.2911
0.0300	7.7143
0.0320	7.5414
0.0350	7.3602
0.0400	7.0857
0.0500	6.7322
0.0600	6.5226
0.0700	6.3910

0.0800 6.3096
 0.0900 6.2481
 0.1000 6.2063
 0.1200 6.1712
 0.1300 6.1392
 0.1500 6.1146
 0.2000 6.1312
 0.2390 6.1634
 0.2500 6.1720
 0.3590 6.2801
 0.4780 6.4006
 0.5000 6.4188
 0.6000 6.5479
 0.6500 6.6518
 0.7000 6.7850
 0.7500 6.9640
 0.7600 6.9967
 0.7650 7.0219
 0.7700 7.0406
 0.7750 7.0672

reset:

title: Critical Slab; Pu(NO₃)₄ 6M; 1" H₂O reflection; 100% Pu239; MCNP5; PuN46-pl-1000-01

reference: PuN46-pl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: Pu(NO₃)₄ 6M

isomat: Pu239 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120 13.6948
 0.0150 10.0379
 0.0200 7.7531
 0.0250 6.7000
 0.0300 6.1118
 0.0320 5.9415
 0.0350 5.7210
 0.0400 5.4750
 0.0500 5.1219
 0.0600 4.9150
 0.0700 4.7794
 0.0800 4.6688
 0.0900 4.6080
 0.1000 4.5683
 0.1200 4.5090
 0.1300 4.4896
 0.1500 4.4597
 0.2000 4.4421
 0.2390 4.4625
 0.2500 4.4730
 0.3590 4.5537
 0.4780 4.6468

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0.5000 4.6819
0.6000 4.8074
0.6500 4.8826
0.7000 4.9831
0.7500 5.1336
0.7600 5.1823
0.7650 5.1831
0.7700 5.2141
0.7750 5.2340

reset:

title: Critical Slab; Pu(NO₃)₄ 6M; 10" H₂O reflection; 100% Pu²³⁹; MCNP5; PuN46-pl-1000-10

reference: PuN46-pl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: Pu(NO₃)₄ 6M

isomat: Pu²³⁹ 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120 12.4481

0.0150 8.7942

0.0200 6.4719

0.0250 5.4305

0.0300 4.8115

0.0320 4.6369

0.0350 4.4169

0.0400 4.1370

0.0500 3.7432

0.0600 3.4913

0.0700 3.3392

0.0800 3.2070

0.0900 3.1166

0.1000 3.0521

0.1200 2.9542

0.1300 2.9117

0.1500 2.8543

0.2000 2.7775

0.2390 2.7538

0.2500 2.7463

0.3590 2.7526

0.4780 2.7759

0.5000 2.7750

0.6000 2.8474

0.6500 2.8765

0.7000 2.9402

0.7500 3.0123

0.7600 3.0310

0.7650 3.0489

0.7700 3.0632

0.7750 3.0546

reset:

title: Critical Slab; Pu(NO₃)₄ 0M; no reflection; 97% Pu²³⁹; MCNP5; PuN40-pl-0970-00

reference: PuN40-pl-0970-00
set: MCNP5 set
source: MCNP5 primary
geometry: infplane
modmat: H2O
critmat: Pu(NO3)4 0M
isomat: Pu239 0.970 Pu240 0.030
reflmat: none
reflthick: 0 in
keff: 1.0

var: critconc g/cc
var: height in

0.0120	12.4087
0.0150	9.9922
0.0200	8.3229
0.0250	7.5272
0.0300	7.0496
0.0320	6.9120
0.0350	6.7538
0.0400	6.5328
0.0500	6.2643
0.0600	6.1007
0.0700	6.0072
0.0800	5.9341
0.0900	5.8966
0.1000	5.8638
0.1200	5.8448
0.1300	5.8341
0.1500	5.8397
0.2000	5.8749
0.2390	5.9108
0.2500	5.9260
0.3590	6.0512
0.4780	6.1978
0.5000	6.2307
0.6000	6.4404
0.6500	6.5999
0.7000	6.8758
0.7500	7.5745
0.7520	7.6569
0.7540	7.7924
0.7550	7.9114

reset:

title: Critical Slab; Pu(NO3)4 0M; 1" H2O reflection; 97% Pu239; MCNP5; PuN40-pl-0970-01

reference: PuN40-pl-0970-01
set: MCNP5 set
source: MCNP5 primary
geometry: infplane
modmat: H2O
critmat: Pu(NO3)4 0M
isomat: Pu239 0.970 Pu240 0.030
reflmat: H2O
reflthick: 1 in
keff: 1.0
var: critconc g/cc
var: height in

0.0120 10.8698
 0.0150 8.4684
 0.0200 6.7909
 0.0250 5.9830
 0.0300 5.5103
 0.0320 5.3734
 0.0350 5.2048
 0.0400 4.9840
 0.0500 4.7055
 0.0600 4.5328
 0.0700 4.4342
 0.0800 4.3620
 0.0900 4.3160
 0.1000 4.2815
 0.1200 4.2511
 0.1300 4.2405
 0.1500 4.2371
 0.2000 4.2679
 0.2390 4.2988
 0.2500 4.3141
 0.3590 4.4292
 0.4780 4.5766
 0.5000 4.6054
 0.6000 4.7818
 0.6500 4.9203
 0.7000 5.1436
 0.7500 5.6932
 0.7520 5.7637
 0.7540 5.8631
 0.7550 5.9550

reset:

title: Critical Slab; Pu(NO₃)₄ 0M; 10" H₂O reflection; 97% Pu239; MCNP5; PuN40-pl-0970-10

reference: PuN40-pl-0970-10

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

critmat: Pu(NO₃)₄ 0M

isomat: Pu239 0.970 Pu240 0.030

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: height in

0.0120 9.7609
 0.0150 7.3340
 0.0200 5.6323
 0.0250 4.8000
 0.0300 4.3142
 0.0320 4.1642
 0.0350 3.9806
 0.0400 3.7381
 0.0500 3.4267
 0.0600 3.2238
 0.0700 3.0936
 0.0800 2.9937

0.0900 2.9223
 0.1000 2.8658
 0.1200 2.7946
 0.1300 2.7612
 0.1500 2.7259
 0.2000 2.6808
 0.2390 2.6812
 0.2500 2.6784
 0.3590 2.7090
 0.4780 2.7661
 0.5000 2.7809
 0.6000 2.8955
 0.6500 2.9664
 0.7000 3.0989
 0.7500 3.4331
 0.7520 3.4648
 0.7540 3.5241
 0.7550 3.5887

!

!Uranyl Nitrate

!

reset:

title: Critical Sphere; UO₂(NO₃)₂ 0M; no reflection; 100% U235; MCNP5; u5o2N20-sp-1000-00

reference: u5o2N20-sp-1000-00

title: MCNP5 u5o2N20-sp-1000-00

reference: u5o2N20-sp-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: Sphere

modmat: H2O

Critmat: UO₂(NO₃)₂ 0M

isomat: U235 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 39.5184

0.0200 25.0712

0.0250 20.7082

0.0300 18.4868

0.0320 17.8918

0.0350 17.1361

0.0400 16.2045

0.0500 15.0402

0.0600 14.3050

0.0700 13.8117

0.0800 13.4502

0.0900 13.1840

0.1000 12.9674

0.1180 12.7056

0.1300 12.5406

0.1500 12.3789

0.2000 12.1412

0.2350 12.0469

0.2500 12.0288

0.3530 12.0088
 0.4700 12.0901
 0.5000 12.1107
 0.6000 12.2860
 0.6050 12.3024
 0.6100 12.3020
 0.6150 12.2906
 0.6200 12.3133
 0.6250 12.3286
 0.6290 12.3273

reset:

title: Critical Sphere; UO₂(NO₃)₂ 0M; 1" H₂O reflection; 100% U235; MCNP5; u5o2N20-sp-1000-01

reference: u5o2N20-sp-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

Critmat: UO₂(NO₃)₂ 0M

isomat: U235 1.0

reflmat: H2O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 38.0011
 0.0200 23.5307
 0.0250 19.1594
 0.0300 16.9769
 0.0320 16.3652
 0.0350 15.6048
 0.0400 14.7039
 0.0500 13.5084
 0.0600 12.7830
 0.0700 12.2793
 0.0800 11.9246
 0.0900 11.6515
 0.1000 11.4516
 0.1180 11.1625
 0.1300 11.0426
 0.1500 10.8522
 0.2000 10.6136
 0.2350 10.5214
 0.2500 10.4977
 0.3530 10.4607
 0.4700 10.5302
 0.5000 10.5760
 0.6000 10.7287
 0.6050 10.7226
 0.6100 10.7376
 0.6150 10.7481
 0.6200 10.7549
 0.6250 10.7562
 0.6290 10.7747

reset:

title: Critical Sphere; UO₂(NO₃)₂ 0M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N20-sp-1000-10

reference: u5o2N20-sp-1000-10

set: MCNP5 set
 source: MCNP5 primary
 geometry: sphere
 modmat: H2O
 Critmat: UO₂(NO₃)₂ 0M
 isomat: U235 1.0
 reflmat: H2O
 reflthick: 10 in
 keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 36.9010

0.0200 22.4478

0.0250 18.0664

0.0300 15.8688

0.0320 15.2536

0.0350 14.4872

0.0400 13.5737

0.0500 12.3637

0.0600 11.6208

0.0700 11.1255

0.0800 10.7417

0.0900 10.4650

0.1000 10.2606

0.1180 9.9594

0.1300 9.7964

0.1500 9.6140

0.2000 9.3316

0.2350 9.2232

0.2500 9.1874

0.3530 9.0955

0.4700 9.1030

0.5000 9.1315

0.6000 9.2326

0.6050 9.2435

0.6100 9.2452

0.6150 9.2371

0.6200 9.2588

0.6250 9.2713

0.6290 9.2643

reset:

title: Critical Sphere; UO₂(NO₃)₂ 3M; no reflection; 100% U235; MCNP5; u5o2N23-sp-1000-00

reference: u5o2N23-sp-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

Critmat: UO₂(NO₃)₂ 3M

isomat: U235 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 28.6621

0.0250 22.8070

0.0300 20.0636
 0.0320 19.3174
 0.0350 18.4352
 0.0400 17.3443
 0.0500 15.9781
 0.0600 15.1311
 0.0700 14.5787
 0.0800 14.1901
 0.0900 13.8767
 0.1000 13.6520
 0.1180 13.3621
 0.1300 13.2055
 0.1500 13.0260
 0.2000 12.7772
 0.2350 12.6967
 0.2500 12.6758
 0.3530 12.6944
 0.4700 12.8756
 0.5000 12.9574
 0.5100 12.9808
 0.5200 12.9966
 0.5300 13.0261
 0.5400 13.0478
 0.5500 13.0815
 0.5600 13.0919

reset:

title: Critical Sphere; UO₂(NO₃)₂ 3M; 1" H₂O reflection; 100% U235; MCNP5; u5o2N23-sp-1000-01

reference: u5o2N23-sp-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

Critmat: UO₂(NO₃)₂ 3M

isomat: U235 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 27.0990

0.0250 21.2679

0.0300 18.5248

0.0320 17.7878

0.0350 16.8883

0.0400 15.7723

0.0500 14.3990

0.0600 13.5861

0.0700 13.0237

0.0800 12.6116

0.0900 12.3126

0.1000 12.0864

0.1180 11.7848

0.1300 11.6388

0.1500 11.4499

0.2000 11.2027

0.2350 11.1294

0.2500 11.0937
 0.3530 11.1006
 0.4700 11.2654
 0.5000 11.3292
 0.5100 11.3574
 0.5200 11.3743
 0.5300 11.3923
 0.5400 11.4183
 0.5500 11.4375
 0.5600 11.4624

reset:

title: Critical Sphere; UO₂(NO₃)₂ 3M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N23-sp-1000-10

reference: u5o2N23-sp-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

Critmat: UO₂(NO₃)₂ 3M

isomat: U235 1.0

reflmat: H2O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 25.9985

0.0250 20.0919

0.0300 17.3527

0.0320 16.6186

0.0350 15.7077

0.0400 14.6090

0.0500 13.2084

0.0600 12.3787

0.0700 11.8031

0.0800 11.3823

0.0900 11.0660

0.1000 10.8194

0.1180 10.5057

0.1300 10.3447

0.1500 10.1372

0.2000 9.8377

0.2350 9.7310

0.2500 9.7039

0.3530 9.6334

0.4700 9.7135

0.5000 9.7547

0.5100 9.7800

0.5200 9.7784

0.5300 9.8022

0.5400 9.8267

0.5500 9.8330

0.5600 9.8543

reset:

title: Critical Sphere; UO₂(NO₃)₂ 6M; no reflection; 100% U235; MCNP5; u5o2N26-sp-1000-00

reference: u5o2N26-sp-1000-00

set: MCNP5 set

source: MCNP5 primary

```

geometry: sphere
modmat: H2O
Critmat: UO2(NO3)2 6M
isomat: U235 1.0
reflmat: none
reflthick: 0 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0200 33.5161
0.0250 25.4530
0.0300 21.9932
0.0320 21.0746
0.0350 20.0120
0.0400 18.7132
0.0500 17.1319
0.0600 16.1773
0.0700 15.5387
0.0800 15.1084
0.0900 14.7856
0.1000 14.5276
0.1180 14.2041
0.1300 14.0517
0.1500 13.8458
0.2000 13.6021
0.2350 13.5484
0.2500 13.5430
0.3530 13.6800
0.4700 14.0365
0.4750 14.0682
0.4800 14.0775
0.4860 14.1078
reset:
title: Critical Sphere; UO2(NO3)2 6M; 1" H2O reflection; 100% U235; MCNP5; u5o2N26-sp-1000-01
reference: u5o2N26-sp-1000-01
set: MCNP5 set
source: MCNP5 primary
geometry: sphere
modmat: H2O
Critmat: UO2(NO3)2 6M
isomat: U235 1.0
reflmat: H2O
reflthick: 1 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0200 31.8778
0.0250 23.8272
0.0300 20.3917
0.0320 19.4818
0.0350 18.4244
0.0400 17.1120
0.0500 15.5231
0.0600 14.5635
0.0700 13.9334
0.0800 13.4964

```

0.0900 13.1587
 0.1000 12.8969
 0.1180 12.5772
 0.1300 12.4070
 0.1500 12.2110
 0.2000 11.9716
 0.2350 11.8966
 0.2500 11.8832
 0.3530 11.9860
 0.4700 12.3203
 0.4750 12.3209
 0.4800 12.3504
 0.4860 12.3669

reset:

title: Critical Sphere; UO₂(NO₃)₂ 6M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N26-sp-1000-10

reference: u5o2N26-sp-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

Critmat: UO₂(NO₃)₂ 6M

isomat: U235 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 30.6256

0.0250 22.6191

0.0300 19.1805

0.0320 18.2452

0.0350 17.1963

0.0400 15.8655

0.0500 14.2556

0.0600 13.2682

0.0700 12.6363

0.0800 12.1771

0.0900 11.8525

0.1000 11.5198

0.1180 11.2071

0.1300 11.0317

0.1500 10.7869

0.2000 10.5099

0.2350 10.3940

0.2500 10.3814

0.3530 10.3481

0.4700 10.5856

0.4750 10.5938

0.4800 10.6025

0.4860 10.6232

reset:

title: Critical Sphere; UO₂(NO₃)₂ 0M; no reflection; 93.5% U235; MCNP5; u5o2N20-sp-0935-00

reference: u5o2N20-sp-0935-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O
 critmat: UO2(NO3)2 0M
 isomat: U235 0.935 U238 0.065
 reflmat: none
 reflthick: 0 in
 keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 27.1264

0.0250 21.8338

0.0300 19.2685

0.0320 18.5548

0.0350 17.7296

0.0400 16.7057

0.0500 15.3950

0.0600 14.5899

0.0700 14.0595

0.0800 13.6558

0.0900 13.3834

0.1000 13.1624

0.1180 12.8762

0.1300 12.7120

0.1500 12.5321

0.2000 12.2862

0.2350 12.1867

0.2500 12.1728

0.3530 12.1550

0.4700 12.2370

0.5000 12.3000

0.6000 12.4818

0.6050 12.4856

0.6100 12.4989

0.6150 12.5147

0.6200 12.5167

0.6250 12.5297

0.6290 12.5369

reset:

title: Critical Sphere; UO2(NO3)2 0M; 1" H2O reflection; 93.5% U235; MCNP5; u5o2N20-sp-0935-01

reference: u5o2N20-sp-0935-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

critmat: UO2(NO3)2 0M

isomat: U235 0.935 U238 0.065

reflmat: H2O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 47.2572

0.0200 25.6358

0.0250 20.2904

0.0300 17.7398

0.0320 17.0560

0.0350 16.2160

0.0400 15.1769
 0.0500 13.8842
 0.0600 13.0848
 0.0700 12.5335
 0.0800 12.1382
 0.0900 11.8510
 0.1000 11.6350
 0.1180 11.3417
 0.1300 11.1925
 0.1500 11.0091
 0.2000 10.7590
 0.2350 10.6564
 0.2500 10.6374
 0.3530 10.5820
 0.4700 10.6872
 0.5000 10.7477
 0.6000 10.9040
 0.6050 10.9185
 0.6100 10.9259
 0.6150 10.9495
 0.6200 10.9485
 0.6250 10.9633
 0.6290 10.9727

reset:

title: Critical Sphere; UO₂(NO₃)₂ 0M; 10" H₂O reflection; 93.5% U235; MCNP5; u5o2N20-sp-0935-10

reference: u5o2N20-sp-0935-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H₂O

critmat: UO₂(NO₃)₂ 0M

isomat: U235 0.935 U238 0.065

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 45.8947
 0.0200 24.4938
 0.0250 19.1883
 0.0300 16.6519
 0.0320 15.9309
 0.0350 15.1140
 0.0400 14.0597
 0.0500 12.7401
 0.0600 11.9283
 0.0700 11.3748
 0.0800 10.9668
 0.0900 10.6761
 0.1000 10.4408
 0.1180 10.1307
 0.1300 9.9729
 0.1500 9.7631
 0.2000 9.4729
 0.2350 9.3533
 0.2500 9.3226

0.3530 9.2283
 0.4700 9.2589
 0.5000 9.2905
 0.6000 9.4180
 0.6050 9.4002
 0.6100 9.4157
 0.6150 9.4345
 0.6200 9.4288
 0.6250 9.4284
 0.6290 9.4499

reset:

title: Critical Sphere; UO₂(NO₃)₂ 3M; no reflection; 93.5% U235; MCNP5; u5o2N23-sp-0935-00

reference: u5o2N23-sp-0935-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

critmat: UO₂(NO₃)₂ 3M

isomat: U235 0.935 U238 0.065

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 31.6145
 0.0250 24.2514
 0.0300 21.0167
 0.0320 20.1656
 0.0350 19.1454
 0.0400 17.8941
 0.0500 16.3840
 0.0600 15.4607
 0.0700 14.8692
 0.0800 14.4238
 0.0900 14.0913
 0.1000 13.8425
 0.1180 13.5288
 0.1300 13.3819
 0.1500 13.2018
 0.2000 12.9385
 0.2350 12.8424
 0.2500 12.8391
 0.3530 12.8585
 0.4700 13.0649
 0.5000 13.1463
 0.5100 13.1835
 0.5200 13.2103
 0.5300 13.2356
 0.5400 13.2614
 0.5500 13.2899
 0.5600 13.3136

reset:

title: Critical Sphere; UO₂(NO₃)₂ 3M; 1" H2O reflection; 93.5% U235; MCNP5; u5o2N23-sp-0935-01

reference: u5o2N23-sp-0935-01

set: MCNP5 set

source: MCNP5 primary

geometry: sphere
 modmat: H2O
 critmat: UO2(NO3)2 3M
 isomat: U235 0.935 U238 0.065
 reflmat: H2O
 reflthick: 1 in
 keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 30.1553

0.0250 22.6883

0.0300 19.4600

0.0320 18.6105

0.0350 17.5836

0.0400 16.3432

0.0500 14.8196

0.0600 13.8976

0.0700 13.3076

0.0800 12.8714

0.0900 12.5358

0.1000 12.3025

0.1180 11.9687

0.1300 11.8215

0.1500 11.6231

0.2000 11.3577

0.2350 11.2597

0.2500 11.2673

0.3530 11.2539

0.4700 11.4515

0.5000 11.5241

0.5100 11.5533

0.5200 11.5727

0.5300 11.5937

0.5400 11.6292

0.5500 11.6521

0.5600 11.6885

reset:

title: Critical Sphere; UO2(NO3)2 3M; 10" H2O reflection; 93.5% U235; MCNP5; u5o2N23-sp-0935-10

reference: u5o2N23-sp-0935-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

modmat: H2O

critmat: UO2(NO3)2 3M

isomat: U235 0.935 U238 0.065

reflmat: H2O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 28.9724

0.0250 21.5734

0.0300 18.3040

0.0320 17.4458

0.0350 16.4132

0.0400 15.1759

0.0500 13.6463
 0.0600 12.7095
 0.0700 12.0848
 0.0800 11.6472
 0.0900 11.2911
 0.1000 11.0278
 0.1180 10.7001
 0.1300 10.5147
 0.1500 10.3061
 0.2000 9.9991
 0.2350 9.8754
 0.2500 9.8462
 0.3530 9.7874
 0.4700 9.8801
 0.5000 9.9465
 0.5100 9.9582
 0.5200 9.9677
 0.5300 9.9970
 0.5400 10.0132
 0.5500 10.0246
 0.5600 10.0515

reset:

title: Critical Sphere; UO₂(NO₃)₂ 6M; no reflection; 93.5% U235; MCNP5; u5o2N26-sp-0935-00

reference: u5o2N26-sp-0935-00

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: UO₂(NO₃)₂ 6M

modmat: H₂O

isomat: U235 0.935 U238 0.065

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 38.0329

0.0250 27.3469

0.0300 23.1782

0.0320 22.1309

0.0350 20.9007

0.0400 19.4074

0.0500 17.5889

0.0600 16.5804

0.0700 15.8664

0.0800 15.4198

0.0900 15.0451

0.1000 14.7855

0.1180 14.4370

0.1300 14.2312

0.1500 14.0492

0.2000 13.7876

0.2350 13.7217

0.2500 13.7265

0.3530 13.8550

0.4700 14.2500

0.4750 14.2626

0.4800 14.2869
 0.4860 14.3240
 reset:
 title: Critical Sphere; UO₂(NO₃)₂ 6M; 1" H₂O reflection; 93.5% U235; MCNP5; u5o2N26-sp-0935-01
 reference: u5o2N26-sp-0935-01
 set: MCNP5 set
 source: MCNP5 primary
 geometry: sphere
 critmat: UO₂(NO₃)₂ 6M
 modmat: H₂O
 isomat: U235 0.935 U238 0.065
 reflmat: H₂O
 reflthick: 1 in
 keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 36.3891

0.0250 25.7623

0.0300 21.5587

0.0320 20.5309

0.0350 19.2801

0.0400 17.7833

0.0500 16.0069

0.0600 14.9559

0.0700 14.2660

0.0800 13.7812

0.0900 13.4334

0.1000 13.1396

0.1180 12.8022

0.1300 12.6073

0.1500 12.4026

0.2000 12.1449

0.2350 12.0795

0.2500 12.0409

0.3530 12.1632

0.4700 12.5159

0.4750 12.5369

0.4800 12.5628

0.4860 12.5875

reset:

title: Critical Sphere; UO₂(NO₃)₂ 6M; 10" H₂O reflection; 93.5% U235; MCNP5; u5o2N26-sp-0935-10

reference: u5o2N26-sp-0935-10

set: MCNP5 set

source: MCNP5 primary

geometry: sphere

critmat: UO₂(NO₃)₂ 6M

modmat: H₂O

isomat: U235 0.935 U238 0.065

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 35.2807

0.0250 24.5053

0.0300 20.3687

0.0320 19.2771
 0.0350 18.0048
 0.0400 16.5359
 0.0500 14.7330
 0.0600 13.6669
 0.0700 12.9539
 0.0800 12.4498
 0.0900 12.0854
 0.1000 11.7880
 0.1180 11.4171
 0.1300 11.2265
 0.1500 10.9859
 0.2000 10.6787
 0.2350 10.5746
 0.2500 10.5494
 0.3530 10.5486
 0.4700 10.7724
 0.4750 10.7823
 0.4800 10.8039
 0.4860 10.8208

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 0M; no reflection; 100% U235; MCNP5; u5o2N20-icyl-1000-00

reference: u5o2N20-icyl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

Critmat: UO₂(NO₃)₂ 0M

isomat: U235 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 18.7408
 0.0250 15.3915
 0.0300 13.6972
 0.0320 13.2851
 0.0350 12.7345
 0.0400 12.0176
 0.0500 11.1168
 0.0600 10.5306
 0.0700 10.1720
 0.0800 9.9022
 0.0900 9.6949
 0.1000 9.5471
 0.1180 9.3249
 0.1300 9.2254
 0.1500 9.0685
 0.2000 8.9077
 0.2350 8.8109
 0.2500 8.8122
 0.3530 8.7903
 0.4700 8.8553
 0.5000 8.8677
 0.6000 8.9794

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0.6050 8.9903

0.6100 9.0021

0.6150 9.0070

0.6200 9.0232

0.6250 9.0162

0.6290 9.0393

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 0M; 1" H₂O reflection; 100% U235; MCNP5; u5o2N20-icyl-1000-01

reference: u5o2N20-icyl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: UO₂(NO₃)₂ 0M

isomat: U235 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 28.1836

0.0200 17.2166

0.0250 13.8750

0.0300 12.2168

0.0320 11.7714

0.0350 11.1998

0.0400 10.4825

0.0500 9.5846

0.0600 9.0271

0.0700 8.6350

0.0800 8.3673

0.0900 8.1411

0.1000 8.0036

0.1180 7.8036

0.1300 7.6788

0.1500 7.5422

0.2000 7.3560

0.2350 7.2863

0.2500 7.2803

0.3530 7.2369

0.4700 7.2864

0.5000 7.3138

0.6000 7.4176

0.6050 7.4126

0.6100 7.4056

0.6150 7.4310

0.6200 7.4379

0.6250 7.4234

0.6290 7.4480

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 0M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N20-icyl-1000-10

reference: u5o2N20-icyl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

isomat: U235 1.0

modmat: H2O
 Critmat: UO2(NO3)2 0M
 reflmat: H2O
 reflthick: 10 in
 keff: 1.0
 var: critconc g/cc
 var: diameter in
 0.0150 27.0299
 0.0200 16.1253
 0.0250 12.7855
 0.0300 11.1028
 0.0320 10.6532
 0.0350 10.0570
 0.0400 9.3302
 0.0500 8.4217
 0.0600 7.8489
 0.0700 7.4828
 0.0800 7.1655
 0.0900 6.9537
 0.1000 6.7857
 0.1180 6.5597
 0.1300 6.4315
 0.1500 6.2743
 0.2000 6.0491
 0.2350 5.9599
 0.2500 5.9276
 0.3530 5.8220
 0.4700 5.8133
 0.5000 5.8369
 0.6000 5.8812
 0.6050 5.8708
 0.6100 5.8759
 0.6150 5.8674
 0.6200 5.8998
 0.6250 5.9064
 0.6290 5.9082
 reset:
 title: Critical Cylinder; UO2(NO3)2 3M; no reflection; 100% U235; MCNP5; u5o2N23-icyl-1000-00
 reference: u5o2N23-icyl-1000-00
 set: MCNP5 set
 source: MCNP5 primary
 geometry: infcyl
 modmat: H2O
 Critmat: UO2(NO3)2 3M
 isomat: U235 1.0
 reflmat: none
 reflthick: 0 in
 keff: 1.0
 var: critconc g/cc
 var: diameter in
 0.0200 21.4812
 0.0250 17.0257
 0.0300 14.9447
 0.0320 14.3776
 0.0350 13.6965
 0.0400 12.8543

0.0500 11.8150
 0.0600 11.1949
 0.0700 10.7556
 0.0800 10.4504
 0.0900 10.2010
 0.1000 10.0615
 0.1180 9.8218
 0.1300 9.7127
 0.1500 9.5996
 0.2000 9.3776
 0.2350 9.3239
 0.2500 9.3106
 0.3530 9.3041
 0.4700 9.4395
 0.5000 9.5014
 0.5100 9.5024
 0.5200 9.5289
 0.5300 9.5459
 0.5400 9.5614
 0.5500 9.5748
 0.5600 9.6162

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 3M; 1" H₂O reflection; 100% U235; MCNP5; u5o2N23-icyl-1000-01

reference: u5o2N23-icyl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: UO₂(NO₃)₂ 3M

isomat: U235 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 19.9104

0.0250 15.5370

0.0300 13.3692

0.0320 12.8132

0.0350 12.1427

0.0400 11.2976

0.0500 10.2479

0.0600 9.6407

0.0700 9.2014

0.0800 8.8849

0.0900 8.6430

0.1000 8.4639

0.1180 8.2402

0.1300 8.0995

0.1500 7.9907

0.2000 7.8087

0.2350 7.7248

0.2500 7.7104

0.3530 7.7056

0.4700 7.8091

0.5000 7.8437

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0.5100 7.8701

0.5200 7.9006

0.5300 7.9033

0.5400 7.9000

0.5500 7.9482

0.5600 7.9489

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 3M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N23-icyl-1000-10

reference: u5o2N23-icyl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: UO₂(NO₃)₂ 3M

isomat: U235 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 18.8404

0.0250 14.2793

0.0300 12.1867

0.0320 11.6619

0.0350 10.9736

0.0400 10.0943

0.0500 9.0390

0.0600 8.3847

0.0700 7.9360

0.0800 7.6403

0.0900 7.3776

0.1000 7.1887

0.1180 6.9294

0.1300 6.8080

0.1500 6.6401

0.2000 6.4018

0.2350 6.3086

0.2500 6.2797

0.3530 6.1922

0.4700 6.2272

0.5000 6.2360

0.5100 6.2444

0.5200 6.2764

0.5300 6.2729

0.5400 6.2769

0.5500 6.3030

0.5600 6.3007

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 6M; no reflection; 100% U235; MCNP5; u5o2N26-icyl-1000-00

reference: u5o2N26-icyl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: UO₂(NO₃)₂ 6M

isomat: U235 1.0


```

reflmat: none
reflthick: 0 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0200 25.1980
0.0250 19.0428
0.0300 16.3636
0.0320 15.6767
0.0350 14.8686
0.0400 13.8850
0.0500 12.7008
0.0600 11.9626
0.0700 11.4824
0.0800 11.1457
0.0900 10.9174
0.1000 10.6998
0.1180 10.4669
0.1300 10.3325
0.1500 10.1846
0.2000 9.9921
0.2350 9.9631
0.2500 9.9423
0.3530 10.0430
0.4700 10.3112
0.4750 10.3209
0.4800 10.3520
0.4860 10.3525

```

```
reset:
```

```
title: Critical Cylinder; UO2(NO3)2 6M; 1" H2O reflection; 100% U235; MCNP5; u5o2N26-icyl-1000-01
```

```
reference: u5o2N26-icyl-1000-01
```

```
set: MCNP5 set
```

```
source: MCNP5 primary
```

```
geometry: infcyl
```

```
modmat: H2O
```

```
Critmat: UO2(NO3)2 6M
```

```
isomat: U235 1.0
```

```
reflmat: H2O
```

```
reflthick: 1 in
```

```
keff: 1.0
```

```
var: critconc g/cc
```

```
var: diameter in
```

```
0.0200 23.5805
```

```
0.0250 17.4369
```

```
0.0300 14.8413
```

```
0.0320 14.0663
```

```
0.0350 13.3011
```

```
0.0400 12.3215
```

```
0.0500 11.0727
```

```
0.0600 10.3582
```

```
0.0700 9.8681
```

```
0.0800 9.5556
```

```
0.0900 9.2776
```

```
0.1000 9.0777
```

```
0.1180 8.8247
```

```
0.1300 8.7188
```

0.1500 8.5401
 0.2000 8.3653
 0.2350 8.2988
 0.2500 8.2803
 0.3530 8.3579
 0.4700 8.5667
 0.4750 8.5726
 0.4800 8.6123
 0.4860 8.6067

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 6M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N26-icyl-1000-10

reference: u5o2N26-icyl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

Critmat: UO₂(NO₃)₂ 6M

isomat: U235 1.0

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 22.3491

0.0250 16.2046

0.0300 13.5549

0.0320 12.8412

0.0350 12.0310

0.0400 11.0481

0.0500 9.8176

0.0600 9.0473

0.0700 8.5436

0.0800 8.1829

0.0900 7.9204

0.1000 7.7163

0.1180 7.4173

0.1300 7.3105

0.1500 7.0952

0.2000 6.8495

0.2350 6.7648

0.2500 6.7615

0.3530 6.7103

0.4700 6.8065

0.4750 6.8366

0.4800 6.8398

0.4860 6.8354

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 0M; no reflection; 93.5% U235; MCNP5; u5o2N20-icyl-0935-00

reference: u5o2N20-icyl-0935-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: UO₂(NO₃)₂ 0M

isomat: U235 0.935 U238 0.065

reflmat: none

```

reflthick: 0 in
keff: 1.0
var: critconc g/cc
var: diameter in
0.0150 36.9342
0.0200 20.3329
0.0250 16.2718
0.0300 14.2971
0.0320 13.8326
0.0350 13.1772
0.0400 12.3845
0.0500 11.4012
0.0600 10.7831
0.0700 10.3663
0.0800 10.0895
0.0900 9.8407
0.1000 9.6926
0.1180 9.4424
0.1300 9.3349
0.1500 9.2086
0.2000 8.9998
0.2350 8.9433
0.2500 8.9184
0.3530 8.8923
0.4700 8.9700
0.5000 8.9992
0.6000 9.1469
0.6050 9.1542
0.6100 9.1396
0.6150 9.1543
0.6200 9.1682
0.6250 9.1664
0.6290 9.1861

```

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 0M; 1" H₂O reflection; 93.5% U235; MCNP5; u5o2N20-icyl-0935-01
 reference: u5o2N20-icyl-0935-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

critmat: UO₂(NO₃)₂ 0M

isomat: U235 0.935 U238 0.065

reflmat: H2O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

```

0.0150 35.3846
0.0200 18.7982
0.0250 14.7505
0.0300 12.8290
0.0320 12.3012
0.0350 11.6228
0.0400 10.8707
0.0500 9.8652
0.0600 9.2377

```

0.0700 8.8300
 0.0800 8.5537
 0.0900 8.3044
 0.1000 8.1393
 0.1180 7.9136
 0.1300 7.8007
 0.1500 7.6551
 0.2000 7.4578
 0.2350 7.3880
 0.2500 7.3757
 0.3530 7.3213
 0.4700 7.4001
 0.5000 7.4271
 0.6000 7.5430
 0.6050 7.5477
 0.6100 7.5691
 0.6150 7.5792
 0.6200 7.5795
 0.6250 7.5809
 0.6290 7.5846

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 0M; 10" H₂O reflection; 93.5% U235; MCNP5; u5o2N20-icyl-0935-10

reference: u5o2N20-icyl-0935-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: UO₂(NO₃)₂ 0M

isomat: U235 0.935 U238 0.065

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 34.2350
 0.0200 17.6939
 0.0250 13.6407
 0.0300 11.6926
 0.0320 11.1437
 0.0350 10.5238
 0.0400 9.7078
 0.0500 8.6956
 0.0600 8.0734
 0.0700 7.6536
 0.0800 7.3340
 0.0900 7.1095
 0.1000 6.9278
 0.1180 6.6703
 0.1300 6.5370
 0.1500 6.3902
 0.2000 6.1411
 0.2350 6.0496
 0.2500 6.0198
 0.3530 5.9178
 0.4700 5.9202
 0.5000 5.9369

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0.6000 6.0058

0.6050 6.0017

0.6100 6.0103

0.6150 6.0165

0.6200 6.0144

0.6250 6.0238

0.6290 6.0211

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 3M; no reflection; 93.5% U235; MCNP5; u5o2N23-icyl-0935-00

reference: u5o2N23-icyl-0935-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

critmat: UO₂(NO₃)₂ 3M

isomat: U235 0.935 U238 0.065

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 23.8013

0.0250 18.1389

0.0300 15.6523

0.0320 15.0166

0.0350 14.2307

0.0400 13.2932

0.0500 12.1210

0.0600 11.4348

0.0700 10.9784

0.0800 10.6466

0.0900 10.3858

0.1000 10.1994

0.1180 9.9617

0.1300 9.8420

0.1500 9.6929

0.2000 9.4909

0.2350 9.4258

0.2500 9.4181

0.3530 9.4388

0.4700 9.5727

0.5000 9.6429

0.5100 9.6622

0.5200 9.6867

0.5300 9.6972

0.5400 9.7233

0.5500 9.7419

0.5600 9.7641

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 3M; 1" H₂O reflection; 93.5% U235; MCNP5; u5o2N23-icyl-0935-01

reference: u5o2N23-icyl-0935-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

critmat: UO₂(NO₃)₂ 3M

isomat: U235 0.935 U238 0.065

reflmat: H2O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 22.2583

0.0250 16.5734

0.0300 14.1041

0.0320 13.4448

0.0350 12.6809

0.0400 11.7429

0.0500 10.5669

0.0600 9.8635

0.0700 9.4103

0.0800 9.0703

0.0900 8.8214

0.1000 8.6209

0.1180 8.3757

0.1300 8.2545

0.1500 8.1059

0.2000 7.9002

0.2350 7.8288

0.2500 7.8146

0.3530 7.8077

0.4700 7.9427

0.5000 7.9914

0.5100 8.0166

0.5200 8.0301

0.5300 8.0487

0.5400 8.0631

0.5500 8.0760

0.5600 8.0998

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 3M; 10" H₂O reflection; 93.5% U235; MCNP5; u5o2N23-icyl-0935-10

reference: u5o2N23-icyl-0935-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H2O

critmat: UO₂(NO₃)₂ 3M

isomat: U235 0.935 U238 0.065

reflmat: H2O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0150 65.6534

0.0200 21.1077

0.0250 15.3782

0.0300 12.9314

0.0320 12.2641

0.0350 11.4902

0.0400 10.5426

0.0500 9.3699

0.0600 8.6405

0.0700 8.1645
 0.0800 7.8129
 0.0900 7.5509
 0.1000 7.3434
 0.1180 7.0800
 0.1300 6.9407
 0.1500 6.7659
 0.2000 6.5204
 0.2350 6.4152
 0.2500 6.3878
 0.3530 6.3021
 0.4700 6.3398
 0.5000 6.3883
 0.5100 6.3903
 0.5200 6.3992
 0.5300 6.4147
 0.5400 6.4210
 0.5500 6.4301
 0.5600 6.4405

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 6M; no reflection; 93.5% U235; MCNP5; u5o2N26-icyl-0935-00

reference: u5o2N26-icyl-0935-00

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: UO₂(NO₃)₂ 6M

isomat: U235 0.935 U238 0.065

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 28.6531
 0.0250 20.4587
 0.0300 17.2990
 0.0320 16.4811
 0.0350 15.5703
 0.0400 14.3951
 0.0500 13.0453
 0.0600 12.2559
 0.0700 11.7422
 0.0800 11.3681
 0.0900 11.0901
 0.1000 10.8855
 0.1180 10.6128
 0.1300 10.4833
 0.1500 10.3414
 0.2000 10.1356
 0.2350 10.0841
 0.2500 10.0857
 0.3530 10.1661
 0.4700 10.4595
 0.4750 10.4834
 0.4800 10.5006
 0.4860 10.5272

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reset:

title: Critical Cylinder; UO₂(NO₃)₂ 6M; 1" H₂O reflection; 93.5% U235; MCNP5; u5o2N26-icyl-0935-01

reference: u5o2N26-icyl-0935-01

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: UO₂(NO₃)₂ 6M

isomat: U235 0.935 U238 0.065

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 27.0445

0.0250 18.8738

0.0300 15.6895

0.0320 14.8745

0.0350 13.9444

0.0400 12.8109

0.0500 11.4625

0.0600 10.6508

0.0700 10.1279

0.0800 9.7401

0.0900 9.4635

0.1000 9.2599

0.1180 8.9780

0.1300 8.8415

0.1500 8.6794

0.2000 8.4746

0.2350 8.4154

0.2500 8.4064

0.3530 8.4687

0.4700 8.7242

0.4750 8.7445

0.4800 8.7484

0.4860 8.7734

reset:

title: Critical Cylinder; UO₂(NO₃)₂ 6M; 10" H₂O reflection; 93.5% U235; MCNP5; u5o2N26-icyl-0935-10

reference: u5o2N26-icyl-0935-10

set: MCNP5 set

source: MCNP5 primary

geometry: infcyl

modmat: H₂O

critmat: UO₂(NO₃)₂ 6M

isomat: U235 0.935 U238 0.065

reflmat: H₂O

reflthick: 10 in

keff: 1.0

var: critconc g/cc

var: diameter in

0.0200 25.7407

0.0250 17.5967

0.0300 14.4659

0.0320 13.6342

0.0350 12.6733

0.0400 11.5490
 0.0500 10.1539
 0.0600 9.3417
 0.0700 8.7915
 0.0800 8.4064
 0.0900 8.1170
 0.1000 7.8816
 0.1180 7.5875
 0.1300 7.4378
 0.1500 7.2554
 0.2000 6.9888
 0.2350 6.8894
 0.2500 6.8653
 0.3530 6.8294
 0.4700 6.9498
 0.4750 6.9626
 0.4800 6.9803
 0.4860 6.9863

reset:

title: Critical Slab; UO₂(NO₃)₂ 0M; no reflection; 100% U235; MCNP5; u5o2N20-pl-1000-00

reference: u5o2N20-pl-1000-00

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H2O

Critmat: UO₂(NO₃)₂ 0M

isomat: U235 1.0

reflmat: none

reflthick: 0 in

keff: 1.0

var: critconc g/cc

var: height in

0.0150 18.7979
 0.0200 11.6188
 0.0250 9.4489
 0.0300 8.3742
 0.0320 8.0785
 0.0350 7.7163
 0.0400 7.2620
 0.0500 6.6889
 0.0600 6.3236
 0.0700 6.0800
 0.0800 5.8956
 0.0900 5.7651
 0.1000 5.6603
 0.1180 5.5283
 0.1300 5.4447
 0.1500 5.3663
 0.2000 5.2467
 0.2350 5.2087
 0.2500 5.1877
 0.3530 5.1583
 0.4700 5.2036
 0.5000 5.2095
 0.6000 5.2753
 0.6050 5.2729

0.6100 5.2742
 0.6150 5.2903
 0.6200 5.2875
 0.6250 5.3071
 0.6290 5.3091

reset:

title: Critical Slab; UO₂(NO₃)₂ 0M; 1" H₂O reflection; 100% U235; MCNP5; u5o2N20-pl-1000-01

reference: u5o2N20-pl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: UO₂(NO₃)₂ 0M

isomat: U235 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: height in

0.0150 17.2024

0.0200 10.0710

0.0250 7.8998

0.0300 6.8476

0.0320 6.5438

0.0350 6.1839

0.0400 5.7283

0.0500 5.1467

0.0600 4.7775

0.0700 4.5297

0.0800 4.3488

0.0900 4.2184

0.1500 3.8126

0.2000 3.6837

0.2350 3.6251

0.2500 3.6139

0.3530 3.5720

0.4700 3.6058

0.5000 3.6141

0.6000 3.6579

0.6050 3.6647

0.6100 3.6656

0.6150 3.6569

0.6200 3.6668

0.6250 3.6867

0.6290 3.6831

reset:

title: Critical Slab; UO₂(NO₃)₂ 0M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N20-pl-1000-10

reference: u5o2N20-pl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

isomat: U235 1.0

modmat: H₂O

Critmat: UO₂(NO₃)₂ 0M

reflmat: H₂O

reflthick: 10 in

```

keff: 1.0
var: critconc g/cc
var: height in
0.0150 16.0469
0.0200 8.9471
0.0250 6.8052
0.0300 5.7151
0.0320 5.4136
0.0350 5.0405
0.0400 4.5852
0.0500 3.9763
0.0600 3.6003
0.0700 3.3383
0.0800 3.1373
0.0900 2.9852
0.1000 2.8682
0.1180 2.7081
0.1300 2.6279
0.1500 2.5154
0.2000 2.3447
0.2350 2.2615
0.2500 2.2399
0.3530 2.1302
0.4700 2.0839
0.5000 2.0812
0.6000 2.0825
0.6050 2.0878
0.6100 2.0766
0.6150 2.0729
0.6200 2.0693
0.6250 2.0857
0.6290 2.0811
reset:
title: Critical Slab; UO2(NO3)2 3M; no reflection; 100% U235; MCNP5; u5o2N23-pl-1000-00
reference: u5o2N23-pl-1000-00
set: MCNP5 set
source: MCNP5 primary
geometry: infplane
modmat: H2O
Critmat: UO2(NO3)2 3M
isomat: U235 1.0
reflmat: none
reflthick: 0 in
keff: 1.0
var: critconc g/cc
var: height in
0.0150 26.9690
0.0200 13.4134
0.0250 10.4911
0.0300 9.1544
0.0320 8.7747
0.0350 8.3651
0.0400 7.8103
0.0500 7.1352
0.0600 6.7138
0.0700 6.4420

```

0.0800 6.2582
 0.0900 6.0991
 0.1000 5.9794
 0.1180 5.8321
 0.1300 5.7633
 0.1500 5.6807
 0.2000 5.5438
 0.2350 5.5082
 0.2500 5.4896
 0.3530 5.4868
 0.4700 5.5691
 0.5000 5.6031
 0.5100 5.5905
 0.5200 5.6176
 0.5300 5.6273
 0.5400 5.6393
 0.5500 5.6617
 0.5600 5.6751

reset:

title: Critical Slab; UO₂(NO₃)₂ 3M; 1" H₂O reflection; 100% U235; MCNP5; u5o2N23-pl-1000-01

reference: u5o2N23-pl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: UO₂(NO₃)₂ 3M

isomat: U235 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: height in

0.0150 25.0671

0.0200 11.7976

0.0250 8.9077

0.0300 7.5718

0.0320 7.1945

0.0350 6.7635

0.0400 6.2289

0.0500 5.5532

0.0600 5.1484

0.0700 4.8725

0.0800 4.6702

0.0900 4.5062

0.1000 4.3983

0.1180 4.2517

0.1300 4.1662

reset:

title: Critical Slab; UO₂(NO₃)₂ 3M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N23-pl-1000-10

reference: u5o2N23-pl-1000-10

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: UO₂(NO₃)₂ 3M

isomat: U235 1.0

```

reflmat: H2O
reflthick: 10 in
keff: 1.0
var: critconc g/cc
var: height in
0.0150 24.0236
0.0200 10.6632
0.0250 7.7524
0.0300 6.4056
0.0320 6.0319
0.0350 5.5857
0.0400 5.0274
0.0500 4.3289
0.0600 3.9021
0.0700 3.6086
0.0800 3.3980
0.0900 3.2302
0.1000 3.0937
0.1180 2.9129
0.1300 2.8265
0.1500 2.7133
0.2000 2.5223
0.2350 2.4380
0.2500 2.4251
0.3530 2.3143
0.4700 2.2766
0.5000 2.2759
0.5100 2.2853
0.5200 2.2850
0.5300 2.2778
0.5400 2.2870
0.5500 2.2901
0.5600 2.2884
reset:
title: Critical Slab; UO2(NO3)2 6M; no reflection; 100% U235; MCNP5; u5o2N26-pl-1000-00
reference: u5o2N26-pl-1000-00
set: MCNP5 set
source: MCNP5 primary
geometry: infplane
modmat: H2O
Critmat: UO2(NO3)2 6M
isomat: U235 1.0
reflmat: none
reflthick: 0 in
keff: 1.0
var: critconc g/cc
var: height in
0.0200 15.7409
0.0250 11.7665
0.0300 10.0652
0.0320 9.6374
0.0350 9.0939
0.0400 8.4707
0.0500 7.6849
0.0600 7.2256
0.0700 6.9088

```

0.0800 6.7009
 0.0900 6.5350
 0.1000 6.4094
 0.1180 6.2484
 0.1300 6.1646
 0.1500 6.0589
 0.2000 5.9434
 0.2350 5.9068
 0.2500 5.8925
 0.3530 5.9451
 0.4700 6.1101
 0.4750 6.1112
 0.4800 6.1159
 0.4860 6.1105

reset:

title: Critical Slab; UO₂(NO₃)₂ 6M; 1" H₂O reflection; 100% U235; MCNP5; u5o2N26-pl-1000-01

reference: u5o2N26-pl-1000-01

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

Critmat: UO₂(NO₃)₂ 6M

isomat: U235 1.0

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: height in

0.0200 14.0800

0.0250 10.1575

0.0300 8.4583

0.0320 8.0154

0.0350 7.5094

0.0400 6.8373

0.0500 6.0758

0.0600 5.5914

0.0700 5.2733

0.0800 5.0641

0.0900 4.8882

0.1000 4.7578

0.1180 4.6024

0.1300 4.5186

0.1500 4.3930

0.2000 4.2691

0.2350 4.2160

0.2500 4.2044

0.3530 4.2055

0.4700 4.3502

0.4750 4.3536

0.4800 4.3485

0.4860 4.3659

reset:

title: Critical Slab; UO₂(NO₃)₂ 6M; 10" H₂O reflection; 100% U235; MCNP5; u5o2N26-pl-1000-10

reference: u5o2N26-pl-1000-10

set: MCNP5 set

source: MCNP5 primary

```

geometry: infplane
modmat: H2O
Critmat: UO2(NO3)2 6M
isomat: U235 1.0
reflmat: H2O
reflthick: 10 in
keff: 1.0
var: critconc g/cc
var: height in
0.0200 12.8796
0.0250 8.8902
0.0300 7.2192
0.0320 6.7670
0.0350 6.2180
0.0400 5.5751
0.0500 4.7624
0.0600 4.2772
0.0700 3.9440
0.0800 3.7000
0.0900 3.5213
0.1000 3.3765
0.1180 3.1753
0.1300 3.0776
0.1500 2.9572
0.2000 2.7554
0.2350 2.6664
0.2500 2.6378
0.3530 2.5478
0.4700 2.5488
0.4750 2.5663
0.4800 2.5600
0.4860 2.5743
reset:
title: Critical Slab; UO2(NO3)2 0M; no reflection; 93.5% U235; MCNP5; u5o2N20-pl-0935-00
reference: u5o2N20-pl-0935-00
set: MCNP5 set
source: MCNP5 primary
geometry: infplane
modmat: H2O
critmat: UO2(NO3)2 0M
isomat: U235 0.935 U238 0.065
reflmat: none
reflthick: 0 in
keff: 1.0
var: critconc g/cc
var: height in
0.0150 23.4106
0.0200 12.6306
0.0250 10.0112
0.0300 8.7599
0.0320 8.4125
0.0350 8.0107
0.0400 7.4985
0.0500 6.8594
0.0600 6.4623
0.0700 6.2018

```

0.0800 6.0051
 0.0900 5.8669
 0.1000 5.7563
 0.1180 5.6115
 0.1300 5.5348
 0.1500 5.4505
 0.2000 5.3108
 0.2350 5.2683
 0.2500 5.2526
 0.3530 5.2284
 0.4700 5.2675
 0.5000 5.2913
 0.6000 5.3721
 0.6050 5.3737
 0.6100 5.3751
 0.6150 5.3873
 0.6200 5.3897
 0.6250 5.3968
 0.6290 5.4023

reset:

title: Critical Slab; UO₂(NO₃)₂ 0M; 1" H₂O reflection; 93.5% U235; MCNP5; u5o2N20-pl-0935-01

reference: u5o2N20-pl-0935-01

set: MCNP5 set

source: MCNP5 primary

geometry: infplane

modmat: H₂O

critmat: UO₂(NO₃)₂ 0M

isomat: U235 0.935 U238 0.065

reflmat: H₂O

reflthick: 1 in

keff: 1.0

var: critconc g/cc

var: height in

0.0150 21.8698
 0.0200 11.0980
 0.0250 8.4795
 0.0300 7.2260
 0.0320 6.8790
 0.0350 6.4705
 0.0400 5.9665
 0.0500 5.3200
 0.0600 4.9234
 0.0700 4.6545
 0.0800 4.4608
 0.0900 4.3172
 0.1000 4.2060
 0.1180 4.0484
 0.1300 3.9733
 0.1500 3.8777
 0.2000 3.7389
 0.2350 3.6917
 0.2500 3.6764
 0.3530 3.6334
 0.4700 3.6629
 0.5000 3.6829
 0.6000 3.7524

0.6050 3.7488
 0.6100 3.7504
 0.6150 3.7591
 0.6200 3.7640
 0.6250 3.7645
 0.6290 3.7671
 reset:
 title: Critical Slab; UO₂(NO₃)₂ 0M; 10" H₂O reflection; 93.5% U235; MCNP5; u5o2N20-pl-0935-10
 reference: u5o2N20-pl-0935-10
 set: MCNP5 set
 source: MCNP5 primary
 geometry: infplane
 modmat: H2O
 critmat: UO₂(NO₃)₂ 0M
 isomat: U235 0.935 U238 0.065
 reflmat: H2O
 reflthick: 10 in
 keff: 1.0
 var: critconc g/cc
 var: height in
 0.0150 20.7472
 0.0200 9.9940
 0.0250 7.3539
 0.0300 6.1070
 0.0320 5.7456
 0.0350 5.3356
 0.0400 4.8175
 0.0500 4.1583
 0.0600 3.7434
 0.0700 3.4616
 0.0800 3.2491
 0.0900 3.0931
 0.1000 2.9638
 0.1180 2.7938
 0.1300 2.7055
 0.1500 2.5920
 0.2000 2.4008
 0.2350 2.3270
 0.2500 2.2988
 0.3530 2.1902
 0.4700 2.1450
 0.5000 2.1481
 0.6000 2.1516
 0.6050 2.1529
 0.6100 2.1459
 0.6150 2.1514
 0.6200 2.1546
 0.6250 2.1530
 0.6290 2.1539
 !
 !end of MCNP 2011 nitrate (k=1 only) data
 !

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APPENDIX D – TEMPLATE FILES FOR CASES

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Template File for Case: pun40-sp-1000-00

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2   lwtr.60t
c    pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
c    94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: pun40-sp-1000-01

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundreths of inches)

c qqql2 = the maximum dimensions (in hundreths of inches)

c qqql3 = the delta (in hundreths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c    pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
c    94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: pun40-sp-1000-10

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundreths of inches)

c qqql2 = the maximum dimensions (in hundreths of inches)

c qqql3 = the delta (in hundreths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
c     94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN43-sp-1000-00

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundreths of inches)

c qqql2 = the maximum dimensions (in hundreths of inches)

c qqql3 = the delta (in hundreths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
c     94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN43-sp-1000-01

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundreths of inches)

c qqql2 = the maximum dimensions (in hundreths of inches)

c qqql3 = the delta (in hundreths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c  molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  Pu in salt
      94239.66c <molPu*ena|3.4>
c  94240.66c <molPu*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN43-sp-1000-10

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundreths of inches)

c qqql2 = the maximum dimensions (in hundreths of inches)

c qqql3 = the delta (in hundreths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
c     94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: PuN46-sp-1000-00

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
c     94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN46-sp-1000-01

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundreths of inches)

c qqql2 = the maximum dimensions (in hundreths of inches)

c qqql3 = the delta (in hundreths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

 return 1 if(\$_[0]>0);

 return 0;

}

</perl>

c sphere

 20 11 <-denSol|3.6> -1 imp:n=1

 21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

 22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
c     94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN46-sp-1000-10

sp, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c  molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  Pu in salt
      94239.66c <molPu*ena|3.4>
c  94240.66c <molPu*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN40-sp-0970-00

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11  lwtr.60t
c
c

```


Template File for Case: PuN40-sp-0970-01

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN40-sp-0970-10

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN43-sp-0970-00

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN43-sp-0970-01

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: PuN43-sp-0970-10

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN46-sp-0970-00

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN46-sp-0970-01

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN46-sp-0970-10

sp, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: PuN40-sp-0950-00

sp, 95.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.95|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN40-sp-0950-01

sp, 95.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.95|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2   lwtr.60t
c    pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN40-sp-0950-10

sp, 95.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.95|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN40-icyl-1000-00

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qq1 = the minimum dimensions (in hundredths of inches)
c   qq2 = the maximum dimensions (in hundredths of inches)
c   qq3 = the delta (in hundredths of inches)
c
c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c='ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: PuN40-icyl-1000-01

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundreths of inches)

c qqql2 = the maximum dimensions (in hundreths of inches)

c qqql3 = the delta (in hundreths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN40-icyl-1000-10

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN43-icyl-1000-00

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
c     94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN43-icyl-1000-01

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qq1 = the minimum dimensions (in hundredths of inches)
c   qq2 = the maximum dimensions (in hundredths of inches)
c   qq3 = the delta (in hundredths of inches)
c
c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c='ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: PuN43-icyl-1000-10

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1>  $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN46-icyl-1000-00

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN46-icyl-1000-01

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqq1 = the minimum dimensions (in hundreths of inches)
c   qqq2 = the maximum dimensions (in hundreths of inches)
c   qqq3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1>  $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN46-icyl-1000-10

icyl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
c     94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: PuN40-icyl-0970-00

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1>  $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN40-icyl-0970-01

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN40-icyl-0970-10

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1>  $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN43-icyl-0970-00

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1>  $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c  molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: PuN43-icyl-0970-01

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN43-icyl-0970-10

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN46-icyl-0970-00

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1>  $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN46-icyl-0970-01

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: PuN46-icyl-0970-10

icyl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=0.97|1.2> atom fraction Pu239
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c Pu239 = <atwPu239=239.0522|3.4>
c Pu240 = <atwPu240=240.0538|3.4>
c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>
c
c Molarity of solution components
c Mols of Pu per liter <molPu=c/atwPu|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c     molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: PuN40-pl-1000-00

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5   px 100
*6   px -100
*7   pz 100
*8   pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2   $ water
      1001.66c 2
      8016.66c 1
mt2  lwtr.60t
c    pu/water mixture
m11  $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
c    94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN40-pl-1000-01

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN40-pl-1000-10

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5   px  100
*6   px -100
*7   pz  100
*8   pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2   $ water
      1001.66c 2
      8016.66c 1
mt2  lwtr.60t
c    pu/water mixture
m11  $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
c    94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: PuN43-pl-1000-00

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>     $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2    lwtr.60t
c    pu/water mixture
m11    $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
c    94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11    lwtr.60t
c
c

```

Template File for Case: PuN43-pl-1000-01

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN43-pl-1000-10

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px  100
*6    px -100
*7    pz  100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2    lwtr.60t
c    pu/water mixture
m11    $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
c    94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11    lwtr.60t
c
c

```


Template File for Case: PuN46-pl-1000-00

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN46-pl-1000-01

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c= 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2    lwtr.60t
c    pu/water mixture
m11    $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
c    94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11    lwtr.60t
c
c

```

Template File for Case: PuN46-pl-1000-10

pl, 100.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
c 94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN40-pl-0970-00

pl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>     $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2    lwtr.60t
c    pu/water mixture
m11    $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11    lwtr.60t
c
c

```


Template File for Case: PuN40-pl-0970-01

pl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px 100
*6    px -100
*7    pz 100
*8    pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: PuN40-pl-0970-10

pl, 97.0 wt% Pu239, ZZZ1 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g Pu/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.97|1.2> atom fraction Pu239

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H2O = <atwH2O=18.0152|3.4>

c NO3 = <atwNO3=62.0049|3.4>

c HNO3 = <atwHNO3=63.0128|3.4>

c Pu239 = <atwPu239=239.0522|3.4>

c Pu240 = <atwPu240=240.0538|3.4>

c Pu = <atwPu=ena*atwPu239+(1-ena)*atwPu240|3.4>

c

c Molarity of solution components

c Mols of Pu per liter <molPu=c/atwPu|3.4>

c Mols of H2O per liter <molH2O=(1000*denSol-molPu*(atwPu+4*atwNO3)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no
reflector

22 0 3:-4:7:5:-8:-6 imp:n=0

```

1    py <rd|4.4>          $ Cylinder
2    py <-rd|4.4>
3    py <rd+rw*in|4.4>    $ Reflection
4    py <-rd-rw*in|4.4>
*5    px  100
*6    px  -100
*7    pz  100
*8    pz  -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2    lwtr.60t
c    pu/water mixture
m11    $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, ZZZ1 milli-g Pu/cc, <denSol|3.4>
c    molarity pu= <molPu|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c    Pu in salt
      94239.66c <molPu*ena|3.4>
      94240.66c <molPu*(1-ena)|3.4>
c    NO3 in salt plus acid
      7014.66c <4*molPu+molAcid|3.4>
      8016.66c <12*molPu+3*molAcid|3.4>
c    water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11    lwtr.60t
c
c

```

Template File for Case: u5o2N20-sp-1000-00

sp, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N20-sp-1000-01

sp, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: u5o2N20-sp-1000-10

sp, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N23-sp-1000-00

sp, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N23-sp-1000-01

sp, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N23-sp-1000-10

```

sp, 100.0 wt% UO2, ZZZ1 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: u5o2N26-sp-1000-00

```

sp, 100.0 wt% UO2, ZZZ1 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1    so <rd|4.4>          $ Sphere
2    so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N26-sp-1000-01

sp, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N26-sp-1000-10

```

sp, 100.0 wt% UO2, ZZZ1 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundreths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N20-sp-0935-00

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: u5o2N20-sp-0935-01

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N20-sp-0935-10

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N23-sp-0935-00

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N23-sp-0935-01

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: u5o2N23-sp-0935-10

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N26-sp-0935-00

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N26-sp-0935-01

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N26-sp-0935-10

sp, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c sphere

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      so <rd|4.4>          $ Sphere
2      so <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: u5o2N20-icyl-1000-00

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-icyl-1000-01

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-icyl-1000-10

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N23-icyl-1000-00

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: u5o2N23-icyl-1000-01

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N23-icyl-1000-10

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N26-icyl-1000-00

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N26-icyl-1000-01

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
c     92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: u5o2N26-icyl-1000-10

icyl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=1.0|1.2> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c sphere
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-icyl-0935-00

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-icyl-0935-01

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-icyl-0935-10

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=0.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Sphere
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: u5o2N23-icyl-0935-00

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N23-icyl-0935-01

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=3.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N23-icyl-0935-10

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c Cylinder

20 11 <-denSol|3.6> -1 imp:n=1

21 2 -1.000 -2 1 imp:n=<&IMP(rw)|1> \$zero importance if no reflector

22 0 2 imp:n=0

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N26-icyl-0935-00

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=0.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```


Template File for Case: u5o2N26-icyl-0935-01

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=1.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ Cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N26-icyl-0935-10

icyl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer
c radius = <rd=d1*2.54/100/2|5.4> cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = <c = 'ZZZ1'|5> milli-g U/cc
c Reflector width = <rw=10.0|2.1> inches
c Enrichment = <ena=0.935|1.3> atom fraction U
c Mols of Acid per liter <molAcid=6.0|1.2>
c
c
c Density of solution <denSol=ZZZ2/1e5|1.5>
c
c
c Atomic Weights
c H2O = <atwH2O=18.0152|3.4>
c NO3 = <atwNO3=62.0049|3.4>
c O = <atwO = 15.9994|3.4>
c HNO3 = <atwHNO3=63.0128|3.4>
c U235 = <atwU235=235.0439|3.4>
c U238 = <atwU238=238.0508|3.4>
c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>
c
c Molarity of solution components
c Mols of U per liter <molU=c/atwU|3.4>
c Mols of H2O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>
c
c
<perl>
sub IMP
{
  return 1 if( $_[0]>0 );
  return 0;
}
</perl>
c Cylinder
20 11 <-denSol|3.6> -1      imp:n=1
21 2 -1.000 -2 1      imp:n=<&IMP(rw)|1> $zero importance if no reflector
22 0      2      imp:n=0

```

```

1      cz <rd|4.4>          $ cylinder
2      cz <rd+rw*in|4.4>    $ Reflection

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
m11   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c     molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c     U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c     NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c     water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11   lwtr.60t
c
c

```

Template File for Case: u5o2N20-pl-1000-00

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
c  92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-pl-1000-01

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH₂O=18.0152|3.4>

c NO₃ = <atwNO₃=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO₃=63.0128|3.4>

c U₂₃₅ = <atwU₂₃₅=235.0439|3.4>

c U₂₃₈ = <atwU₂₃₈=238.0508|3.4>

c U = <atwU=ena*atwU₂₃₅+(1-ena)*atwU₂₃₈|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH₂O=(1000*denSol-molU*(atwU+2*atwNO₃+2*atwO)-molAcid*atwHNO₃)/atwH₂O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
c  92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: u5o2N20-pl-1000-10

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no
reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00

c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
7014.66c <2*molU+molAcid|3.4>
8016.66c <6*molU+3*molAcid|3.4>
c water
1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: u5o2N23-pl-1000-00

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
c  92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N23-pl-1000-01

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
c  92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N23-pl-1000-10

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 3 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=3.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH₂O=18.0152|3.4>

c NO₃ = <atwNO₃=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO₃=63.0128|3.4>

c U₂₃₅ = <atwU₂₃₅=235.0439|3.4>

c U₂₃₈ = <atwU₂₃₈=238.0508|3.4>

c U = <atwU=ena*atwU₂₃₅+(1-ena)*atwU₂₃₈|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH₂O=(1000*denSol-molU*(atwU+2*atwNO₃+2*atwO)-
molAcid*atwHNO₃)/atwH₂O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector


```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00

c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
7014.66c <2*molU+molAcid|3.4>
8016.66c <6*molU+3*molAcid|3.4>
c water
1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: u5o2N26-pl-1000-00

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00

c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c U in salt
92235.66c <molU*ena|3.4>
c 92238.66c <molU*(1-ena)|3.4>
c NO3 in salt plus acid
7014.66c <2*molU+molAcid|3.4>
8016.66c <6*molU+3*molAcid|3.4>
c water
1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N26-pl-1000-01

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no
reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
c  92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N26-pl-1000-10

pl, 100.0 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 6 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=1.0|1.2> atom fraction U

c Mols of Acid per liter <molAcid=6.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no
reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
c  92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


Template File for Case: u5o2N20-pl-0935-00

pl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1=QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c='ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=0.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO=15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-pl-0935-01

pl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qq1 = the minimum dimensions (in hundredths of inches)

c qq2 = the maximum dimensions (in hundredths of inches)

c qq3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=1.0|2.1> inches

c Enrichment = <ena=0.935|1.3> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

 return 1 if(\$_[0]>0);

 return 0;

}

</perl>

c semi infinite plane

 20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

 21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no
reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```

Template File for Case: u5o2N20-pl-0935-10

pl, 93.5 wt% UO₂, ZZZ1 milli-g/cc, in UO₂(NO₃)₂, with 0 Molar HNO₃

c

c worm notes: format of the form |n.m for floating point, |n for integers

c zzz0 (in upper case) is replaced with the number of cycles

c zzz1 = the actual concentration in units of milli-g/cc

c zzz2 = solution density in g/cc

c qqql = the minimum dimensions (in hundredths of inches)

c qqql2 = the maximum dimensions (in hundredths of inches)

c qqql3 = the delta (in hundredths of inches)

c

c Diameter = <d1= QQQ1:QQQ2:QQQ3|5> hundredths of inches - must be integer

c radius = <rd=d1*2.54/100/2|5.4> cm

c note for perl, numbers with leading zeros must be enclosed in single quotes or else

c they will be interpreted as octal

c Conc = <c = 'ZZZ1'|5> milli-g U/cc

c Reflector width = <rw=10.0|2.1> inches

c Enrichment = <ena=0.935|1.2> atom fraction U

c Mols of Acid per liter <molAcid=0.0|1.2>

c

c

c Density of solution <denSol=ZZZ2/1e5|1.5>

c

c

c Atomic Weights

c H₂O = <atwH2O=18.0152|3.4>

c NO₃ = <atwNO3=62.0049|3.4>

c O = <atwO = 15.9994|3.4>

c HNO₃ = <atwHNO3=63.0128|3.4>

c U₂₃₅ = <atwU235=235.0439|3.4>

c U₂₃₈ = <atwU238=238.0508|3.4>

c U = <atwU=ena*atwU235+(1-ena)*atwU238|3.4>

c

c Molarity of solution components

c Mols of U per liter <molU=c/atwU|3.4>

c Mols of H₂O per liter <molH2O=(1000*denSol-molU*(atwU+2*atwNO3+2*atwO)-
molAcid*atwHNO3)/atwH2O|3.4>

c

c

<perl>

sub IMP

{

return 1 if(\$_[0]>0);

return 0;

}

</perl>

c semi infinite plane

20 11 <-denSol|3.6> -1 2 -7 -5 8 6 imp:n=1

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=<&IMP(rw)|1> \$zero importance if no

reflector

```

22 0      3:-4:7:5:-8:-6      imp:n=0

1  py <rd|4.4>      $ Cylinder
2  py <-rd|4.4>
3  py <rd+rw*in|4.4>      $ Reflection
4  py <-rd-rw*in|4.4>
*5  px 100
*6  px -100
*7  pz 100
*8  pz -100

mode n
kcode 2000 1.0 100 ZZZ0
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, ZZZ1 milli-g U/cc, <denSol|3.4>
c  molarity U= <molU|3.4>, acid= <molAcid|3.4>, H2O= <molH2O|3.4>
c  U in salt
      92235.66c <molU*ena|3.4>
      92238.66c <molU*(1-ena)|3.4>
c  NO3 in salt plus acid
      7014.66c <2*molU+molAcid|3.4>
      8016.66c <6*molU+3*molAcid|3.4>
c  water
      1001.66c <2*molH2O+molAcid|3.4> $Includes Free Hydrogen Ion
      8016.66c <molH2O|3.4>
mt11 lwtr.60t
c
c

```


APPENDIX E – EXAMPLE INPUT FILES

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Appendix E Sample Input Files

```

Example Input for Case: 01 PuN40-sp-1000-00-00070-01245.inp
sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1245 hundreths of inches - must be integer
c radius = 15.8115 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 53.8642
c
c
c sphere
20 11 -1.113000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 15.8115 $ Sphere
2 so 15.8115 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture

```

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```

ml1      $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.1130
c        molarity pu=    0.2928, acid=    0.0000, H2O=   53.8642
c        Pu in salt
c        94239.66c    0.2928
c        94240.66c    0.0000
c        NO3 in salt plus acid
c        7014.66c    1.1713
c        8016.66c    3.5139
c        water
c        1001.66c 107.7284 $Includes Free Hydrogen Ion
c        8016.66c 53.8642
mt11     lwtr.60t
c
c

```

```

Example Input for Case: 02 PuN40-sp-1000-01-00070-01095.inp
sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1095 hundreths of inches - must be integer
c radius =    13.9065 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O =    18.0152
c NO3 =    62.0049
c HNO3 =   63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter    0.2928
c Mols of H2O per liter  53.8642
c
c
c sphere
20 11  -1.113000  -1          imp:n=1
21 2   -1.000    -2 1          imp:n=1    $zero importance if no reflector
22 0      2          imp:n=0

1      so  13.9065          $ Sphere
2      so  16.4465          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50

```

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```

0.00    0.00    1.00
0.00    0.00    2.00
0.00    0.00    3.00
1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       pu/water mixture
ml1     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.1130
c       molarity pu=  0.2928, acid=  0.0000, H2O=  53.8642
c       Pu in salt
        94239.66c    0.2928
c       94240.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    1.1713
        8016.66c    3.5139
c       water
        1001.66c 107.7284 $Includes Free Hydrogen Ion
        8016.66c 53.8642
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 03 PuN40-sp-1000-10-00070-00975.inp
sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 975 hundreths of inches - must be integer
c radius = 12.3825 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c

```

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```

c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 53.8642
c
c
c sphere
20 11 -1.113000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 12.3825 $ Sphere
2 so 37.7825 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130
c molarity pu= 0.2928, acid= 0.0000, H2O= 53.8642
c Pu in salt
    94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
    7014.66c 1.1713
    8016.66c 3.5139
c water
    1001.66c 107.7284 $Includes Free Hydrogen Ion
    8016.66c 53.8642
mt11 lwtr.60t
c
c

Example Input for Case: 04 PuN43-sp-1000-00-00070-01310.inp
sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1310 hundreths of inches - must be integer
c radius = 16.6370 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else

```

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```

c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 49.0328
c
c
c sphere
20 11 -1.215000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 16.6370 $ Sphere
2 so 16.6370 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.2150
c molarity pu= 0.2928, acid= 3.0000, H2O= 49.0328
c Pu in salt
94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
7014.66c 4.1713
8016.66c 12.5139
c water
1001.66c 101.0656 $Includes Free Hydrogen Ion
8016.66c 49.0328
mt11 lwtr.60t
c
c

```


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```

Example Input for Case: 05 PuN43-sp-1000-01-00070-01145.inp
sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1145 hundreths of inches - must be integer
c radius = 14.5415 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 49.0328
c
c
c sphere
20 11 -1.215000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 14.5415 $ Sphere
2 so 17.0815 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t

```

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```

c      pu/water mixture
mtl1   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.2150
c      molarity pu=    0.2928, acid=    3.0000, H2O=   49.0328
c      Pu in salt
      94239.66c    0.2928
c      94240.66c    0.0000
c      NO3 in salt plus acid
      7014.66c    4.1713
      8016.66c   12.5139
c      water
      1001.66c 101.0656 $Includes Free Hydrogen Ion
      8016.66c  49.0328
mtl1    lwtr.60t
c
c

```

Example Input for Case: 06 PuN43-sp-1000-10-00070-01030.inp

sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 1030 hundreths of inches - must be integer
c radius =    13.0810 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O =    18.0152
c NO3 =    62.0049
c HNO3 =   63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter    0.2928
c Mols of H2O per liter  49.0328
c
c
c sphere
20 11  -1.215000  -1          imp:n=1
21  2  -1.000    -2 1          imp:n=1    $zero importance if no reflector
22  0              2          imp:n=0

      1          so    13.0810          $ Sphere
      2          so    38.4810          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10

```

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```

0.00    0.00    0.50
0.00    0.00    1.00
0.00    0.00    2.00
0.00    0.00    3.00
1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       pu/water mixture
m11     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.2150
c       molarity pu=   0.2928, acid=   3.0000, H2O=   49.0328
c       Pu in salt
        94239.66c    0.2928
c       94240.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    4.1713
        8016.66c   12.5139
c       water
        1001.66c 101.0656 $Includes Free Hydrogen Ion
        8016.66c  49.0328
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 07 PuN46-sp-1000-00-00070-01375.inp
sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 1375 hundreths of inches - must be integer
c radius = 17.4625 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522

```

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```

c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 17.4625 $ Sphere
2 so 17.4625 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.3010
c molarity pu= 0.2928, acid= 6.0000, H2O= 43.3133
c Pu in salt
    94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
    7014.66c 7.1713
    8016.66c 21.5139
c water
    1001.66c 92.6266 $Includes Free Hydrogen Ion
    8016.66c 43.3133
mt11 lwtr.60t
c
c

```

Example Input for Case: 08 PuN46-sp-1000-01-00070-01250.inp
 sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1250 hundreths of inches - must be integer
c radius = 15.8750 cm

```

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```

c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 15.8750 $ Sphere
2 so 18.4150 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.3010
c molarity pu= 0.2928, acid= 6.0000, H2O= 43.3133
c Pu in salt
    94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
    7014.66c 7.1713
    8016.66c 21.5139
c water
    1001.66c 92.6266 $Includes Free Hydrogen Ion
    8016.66c 43.3133
mt11 lwtr.60t
c
c

```

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```

Example Input for Case: 09 PuN46-sp-1000-10-00070-01075.inp
sp, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1075 hundreths of inches - must be integer
c radius = 13.6525 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 13.6525 $ Sphere
2 so 39.0525 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1

```

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```

mt2    lwtr.60t
c      pu/water mixture
ml1    $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.3010
c      molarity pu=    0.2928, acid=    6.0000, H2O=    43.3133
c      Pu in salt
        94239.66c    0.2928
c      94240.66c    0.0000
c      NO3 in salt plus acid
        7014.66c    7.1713
        8016.66c    21.5139
c      water
        1001.66c    92.6266 $Includes Free Hydrogen Ion
        8016.66c    43.3133
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 10 PuN40-sp-0970-00-00070-01245.inp
sp, 97.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1245 hundreths of inches - must be integer
c radius =    15.8115 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width =    0.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O =    18.0152
c NO3 =    62.0049
c HNO3 =    63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter    0.2928
c Mols of H2O per liter  53.8647
c
c
c sphere
  20 11  -1.113000  -1          imp:n=1
  21  2  -1.000    -2 1          imp:n=0    $zero importance if no reflector
  22  0           2          imp:n=0
c
  1      so    15.8115          $ Sphere
  2      so    15.8115          $ Reflection
mode n
kcode 2000 1.0 100 500
ksrc 0.00    0.00    0.00

```

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```

0.00    0.00    0.10
0.00    0.00    0.50
0.00    0.00    1.00
0.00    0.00    2.00
0.00    0.00    3.00
1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       pu/water mixture
m11     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.1130
c       molarity pu=   0.2928, acid=   0.0000, H2O=  53.8647
c       Pu in salt
        94239.66c    0.2840
c       94240.66c    0.0088
c       NO3 in salt plus acid
        7014.66c    1.1711
        8016.66c    3.5134
c       water
        1001.66c 107.7294 $Includes Free Hydrogen Ion
        8016.66c  53.8647
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 11 PuN40-sp-0970-01-00070-01095.inp
sp, 97.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1095 hundreths of inches - must be integer
c radius = 13.9065 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538

```


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```

c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter    0.2928
c Mols of H2O per liter  53.8647
c
c
c sphere
20 11  -1.113000  -1          imp:n=1
21  2  -1.000    -2 1          imp:n=1    $zero importance if no reflector
22  0           2          imp:n=0

1      so    13.9065          $ Sphere
2      so    16.4465          $ Reflection

mode n
kcode 2000 1.0 100 500
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2   lwtr.60t
c     pu/water mixture
ml1   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.1130
c     molarity pu= 0.2928, acid= 0.0000, H2O= 53.8647
c     Pu in salt
      94239.66c    0.2840
c     94240.66c    0.0088
c     NO3 in salt plus acid
      7014.66c    1.1711
      8016.66c    3.5134
c     water
      1001.66c 107.7294 $Includes Free Hydrogen Ion
      8016.66c 53.8647
mt11  lwtr.60t
c
c

```

Example Input for Case: 12 PuN40-sp-0970-10-00070-01015.inp
 sp, 97.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql = the maximum dimensions (in hundreths of inches)
c   qqql = the delta (in hundreths of inches)
c
c Diameter = 1015 hundreths of inches - must be integer

```

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```

c radius =      12.8905 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter  0.2928
c Mols of H2O per liter 53.8647
c
c
c sphere
20 11  -1.113000  -1      imp:n=1
21  2  -1.000    -2  1      imp:n=1  $zero importance if no reflector
22  0           2      imp:n=0

      1      so  12.8905      $ Sphere
      2      so  38.2905      $ Reflection

mode n
kcode 2000 1.0 100 500
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130
c molarity pu= 0.2928, acid= 0.0000, H2O= 53.8647
c Pu in salt
      94239.66c 0.2840
c 94240.66c 0.0088
c NO3 in salt plus acid
      7014.66c 1.1711
      8016.66c 3.5134
c water
      1001.66c 107.7294 $Includes Free Hydrogen Ion
      8016.66c 53.8647
mt11 lwtr.60t
c
c

```

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```

Example Input for Case: 13 PuN43-sp-0970-00-00070-01295.inp
sp, 97.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundredths of inches)
c      qqql2 = the maximum dimensions (in hundredths of inches)
c      qqql3 = the delta (in hundredths of inches)
c
c Diameter = 1295 hundredths of inches - must be integer
c radius = 16.4465 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 49.0333
c
c
c sphere
20 11 -1.215000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 16.4465 $ Sphere
2 so 16.4465 $ Reflection

mode n
kcode 2000 1.0 100 500
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2

```

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```

      8016.66c      1
mt2   lwtr.60t
c     pu/water mixture
ml1   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,   1.2150
c     molarity pu=   0.2928, acid=   3.0000, H2O=  49.0333
c     Pu in salt
      94239.66c    0.2840
c     94240.66c    0.0088
c     NO3 in salt plus acid
      7014.66c    4.1711
      8016.66c   12.5134
c     water
      1001.66c 101.0666 $Includes Free Hydrogen Ion
      8016.66c  49.0333
mt11  lwtr.60t
c
c

```

```

Example Input for Case: 14 PuN43-sp-0970-01-00070-01145.inp
sp, 97.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 1145 hundreths of inches - must be integer
c radius =   14.5415 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O =   18.0152
c NO3 =   62.0049
c HNO3 =  63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter  0.2928
c Mols of H2O per liter 49.0333
c
c
c sphere
  20 11  -1.215000  -1          imp:n=1
  21  2  -1.000    -2  1      imp:n=1  $zero importance if no reflector
  22  0           2          imp:n=0
c
c      1      so  14.5415          $ Sphere
c      2      so  17.0815          $ Reflection
mode n
kcode 2000 1.0 100 500

```

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```

ksrc  0.00    0.00    0.00
      0.00    0.00    0.10
      0.00    0.00    0.50
      0.00    0.00    1.00
      0.00    0.00    2.00
      0.00    0.00    3.00
      1.00    1.00    1.00
      1.00    1.00    2.00
      1.00    1.00    3.00
      2.00    2.00    1.00
      2.00    2.00    2.00
      2.00    2.00    3.00
      -1.00   -1.00   -1.00
      -10.00  -10.00  -20.00
      -10.00  -10.00  -30.00

c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2   lwtr.60t
c     pu/water mixture
m11   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.2150
c     molarity pu=   0.2928, acid=   3.0000, H2O=  49.0333
c     Pu in salt
      94239.66c   0.2840
c     94240.66c   0.0088
c     NO3 in salt plus acid
      7014.66c   4.1711
      8016.66c  12.5134
c     water
      1001.66c 101.0666 $Includes Free Hydrogen Ion
      8016.66c  49.0333
mt11   lwtr.60t
c
c

```

```

Example Input for Case: 15 PuN43-sp-0970-10-00070-01030.inp
sp, 97.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1030 hundreths of inches - must be integer
c radius = 13.0810 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522

```

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```

c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 49.0333
c
c
c sphere
20 11 -1.215000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 13.0810 $ Sphere
2 so 38.4810 $ Reflection

mode n
kcode 2000 1.0 100 500
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
ml1 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.2150
c molarity pu= 0.2928, acid= 3.0000, H2O= 49.0333
c Pu in salt
94239.66c 0.2840
c 94240.66c 0.0088
c NO3 in salt plus acid
7014.66c 4.1711
8016.66c 12.5134
c water
1001.66c 101.0666 $Includes Free Hydrogen Ion
8016.66c 49.0333
mt11 lwtr.60t
c
c

```

Example Input for Case: 16 PuN46-sp-0970-00-00012-02770.inp
 sp, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c

```

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```

c Diameter = 2770 hundreths of inches - must be integer
c radius = 35.1790 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 44.6553
c
c
c sphere
20 11 -1.207000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 35.1790 $ Sphere
2 so 35.1790 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.2070
c molarity pu= 0.0502, acid= 6.0000, H2O= 44.6553
c Pu in salt
94239.66c 0.0487
94240.66c 0.0015
c NO3 in salt plus acid
7014.66c 6.2008
8016.66c 18.6023
c water
1001.66c 95.3107 $Includes Free Hydrogen Ion
8016.66c 44.6553
mt11 lwtr.60t
c
c

```

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```

Example Input for Case: 17 PuN46-sp-0970-01-00012-02620.inp
sp, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql = the maximum dimensions (in hundreths of inches)
c   qqql = the delta (in hundreths of inches)
c
c Diameter = 2620 hundreths of inches - must be integer
c radius = 33.2740 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c
c Density of solution 1.20700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 44.6553
c
c
c
c sphere
20 11 -1.207000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 33.2740 $ Sphere
2 so 35.8140 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water

```


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```

      1001.66c      2
      8016.66c      1
mt2   lwtr.60t
c     pu/water mixture
ml1   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc,   1.2070
c     molarity pu=   0.0502, acid=   6.0000, H2O=  44.6553
c     Pu in salt
      94239.66c    0.0487
      94240.66c    0.0015
c     NO3 in salt plus acid
      7014.66c    6.2008
      8016.66c   18.6023
c     water
      1001.66c   95.3107 $Includes Free Hydrogen Ion
      8016.66c   44.6553
mt11  lwtr.60t
c
c

```

```

Example Input for Case: 18 PuN46-sp-0970-10-00012-02500.inp
sp, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqq1 = the minimum dimensions (in hundreths of inches)
c   qqq2 = the maximum dimensions (in hundreths of inches)
c   qqq3 = the delta (in hundreths of inches)
c
c Diameter = 2500 hundreths of inches - must be integer
c radius =   31.7500 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20700
c
c
c Atomic Weights
c H2O =   18.0152
c NO3 =   62.0049
c HNO3 =  63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter   0.0502
c Mols of H2O per liter  44.6553
c
c
c sphere
20 11  -1.207000  -1          imp:n=1
21  2  -1.000    -2 1          imp:n=1   $zero importance if no reflector
22  0           2          imp:n=0

      1      so   31.7500          $ Sphere
      2      so   57.1500          $ Reflection

```

mode n

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```

kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.2070
c molarity pu= 0.0502, acid= 6.0000, H2O= 44.6553
c Pu in salt
    94239.66c 0.0487
    94240.66c 0.0015
c NO3 in salt plus acid
    7014.66c 6.2008
    8016.66c 18.6023
c water
    1001.66c 95.3107 $Includes Free Hydrogen Ion
    8016.66c 44.6553
mt11 lwtr.60t
c
c

```

```

Example Input for Case: 19 PuN40-sp-0950-00-00012-02290.inp
sp, 95.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = 2290 hundredths of inches - must be integer
c radius = 29.0830 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 0.95 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128

```

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```

c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.1023
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 55.0398
c
c
c sphere
20 11 -1.016000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 29.0830 $ Sphere
2 so 29.0830 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.0160
c molarity pu= 0.0502, acid= 0.0000, H2O= 55.0398
c Pu in salt
94239.66c 0.0477
94240.66c 0.0025
c NO3 in salt plus acid
7014.66c 0.2008
8016.66c 0.6023
c water
1001.66c 110.0795 $Includes Free Hydrogen Ion
8016.66c 55.0398
mt11 lwtr.60t
c
c

```

Example Input for Case: 20 PuN40-sp-0950-01-00012-02140.inp
 sp, 95.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)

```

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```

c
c Diameter = 2140 hundredths of inches - must be integer
c radius = 27.1780 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.95 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.1023
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 55.0398
c
c
c sphere
20 11 -1.016000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 27.1780 $ Sphere
2 so 29.7180 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.0160
c molarity pu= 0.0502, acid= 0.0000, H2O= 55.0398
c Pu in salt
94239.66c 0.0477
94240.66c 0.0025
c NO3 in salt plus acid
7014.66c 0.2008
8016.66c 0.6023
c water
1001.66c 110.0795 $Includes Free Hydrogen Ion
8016.66c 55.0398
mt11 lwtr.60t
c

```

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c

```

Example Input for Case: 21 PuN40-sp-0950-10-00012-02030.inp
sp, 95.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 2030 hundreths of inches - must be integer
c radius = 25.7810 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.95 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.1023
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 55.0398
c
c
c sphere
20 11 -1.016000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 25.7810 $ Sphere
2 so 51.1810 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

```

c

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```

m2      $ water
        1001.66c      2
        8016.66c      1
mt2     lwtr.60t
c       pu/water mixture
ml1     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc,      1.0160
c       molarity pu=   0.0502, acid=   0.0000, H2O=   55.0398
c       Pu in salt
        94239.66c     0.0477
        94240.66c     0.0025
c       NO3 in salt plus acid
        7014.66c     0.2008
        8016.66c     0.6023
c       water
        1001.66c 110.0795 $Includes Free Hydrogen Ion
        8016.66c  55.0398
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 22 PuN40-icyl-1000-00-00070-00925.inp
icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 925   hundreths of inches - must be integer
c radius =   11.7475 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O =   18.0152
c NO3 =   62.0049
c HNO3 =  63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 53.8642
c
c
c sphere
20 11  -1.113000  -1          imp:n=1
21  2  -1.000    -2 1          imp:n=0   $zero importance if no reflector
22  0           2          imp:n=0

      1      cz   11.7475          $ Cylinder
      2      cz   11.7475          $ Reflection

```

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```

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130
c molarity pu= 0.2928, acid= 0.0000, H2O= 53.8642
c Pu in salt
    94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
    7014.66c 1.1713
    8016.66c 3.5139
c water
    1001.66c 107.7284 $Includes Free Hydrogen Ion
    8016.66c 53.8642
mt11 lwtr.60t
c
c

```

```

Example Input for Case: 23 PuN40-icyl-1000-01-00070-00775.inp
icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 775 hundreths of inches - must be integer
c radius = 9.8425 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049

```

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```

c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 53.8642
c
c
c sphere
20 11 -1.113000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 9.8425 $ Cylinder
2 cz 12.3825 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130
c molarity pu= 0.2928, acid= 0.0000, H2O= 53.8642
c Pu in salt
94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
7014.66c 1.1713
8016.66c 3.5139
c water
1001.66c 107.7284 $Includes Free Hydrogen Ion
8016.66c 53.8642
mt11 lwtr.60t
c
c

```

Example Input for Case: 24 PuN40-icyl-1000-10-00070-00645.inp
 icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
 c
 c worm notes: format of the form |n.m for floating point, |n for integers
 c zzz0 (in upper case) is replaced with the number of cycles
 c zzz1 = the actual concentration in units of milli-g/cc
 c zzz2 = solution density in g/cc
 c qqql = the minimum dimensions (in hundreths of inches)
 c qqql2 = the maximum dimensions (in hundreths of inches)

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```

c      qq3 = the delta (in hundreths of inches)
c
c Diameter = 645   hundreths of inches - must be integer
c radius =      8.1915 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 =    239.0522
c Pu240 =    240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter  0.2928
c Mols of H2O per liter 53.8642
c
c
c sphere
20 11  -1.113000  -1          imp:n=1
21  2  -1.000    -2 1        imp:n=1  $zero importance if no reflector
22  0           2          imp:n=0

      1      cz      8.1915          $ Cylinder
      2      cz     33.5915          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130
c molarity pu= 0.2928, acid= 0.0000, H2O= 53.8642
c Pu in salt
      94239.66c 0.2928
      94240.66c 0.0000
c NO3 in salt plus acid
      7014.66c 1.1713
      8016.66c 3.5139
c water
      1001.66c 107.7284 $Includes Free Hydrogen Ion
      8016.66c 53.8642
mt11 lwtr.60t

```

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c
c

```

Example Input for Case: 25 PuN43-icyl-1000-00-00070-00965.inp
icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 965   hundreths of inches - must be integer
c radius =   12.2555 cm
c   note for perl, numbers with leading zeros must be enclosed in single quotes or else
c   they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O =   18.0152
c NO3 =   62.0049
c HNO3 =  63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 49.0328
c
c
c sphere
20 11   -1.215000   -1           imp:n=1
21  2   -1.000     -2 1           imp:n=0   $zero importance if no reflector
22  0           2           imp:n=0

      1          cz   12.2555           $ Cylinder
      2          cz   12.2555           $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

```

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```

c
m2      $ water
        1001.66c      2
        8016.66c      1
mt2     lwtr.60t
c       pu/water mixture
m11     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,    1.2150
c       molarity pu= 0.2928, acid= 3.0000, H2O= 49.0328
c       Pu in salt
        94239.66c    0.2928
c       94240.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    4.1713
        8016.66c    12.5139
c       water
        1001.66c    101.0656 $Includes Free Hydrogen Ion
        8016.66c    49.0328
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 26 PuN43-icyl-1000-01-00070-00805.imp
icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 805 hundreths of inches - must be integer
c radius = 10.2235 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 49.0328
c
c
c sphere
20 11 -1.215000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 10.2235 $ Cylinder
2 cz 12.7635 $ Reflection

```

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```

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.2150
c molarity pu= 0.2928, acid= 3.0000, H2O= 49.0328
c Pu in salt
    94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
    7014.66c 4.1713
    8016.66c 12.5139
c water
    1001.66c 101.0656 $Includes Free Hydrogen Ion
    8016.66c 49.0328
mt11 lwtr.60t
c
c

```

```

Example Input for Case: 27 PuN43-icyl-1000-10-00070-00675.inp
icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 675 hundreths of inches - must be integer
c radius = 8.5725 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O = 18.0152

```

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```

c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter   0.2928
c Mols of H2O per liter  49.0328
c
c
c sphere
  20 11   -1.215000   -1           imp:n=1
  21  2   -1.000     -2 1           imp:n=1   $zero importance if no reflector
  22  0           2           imp:n=0

      1      cz      8.5725           $ Cylinder
      2      cz     33.9725           $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
ml1 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.2150
c molarity pu= 0.2928, acid= 3.0000, H2O= 49.0328
c Pu in salt
      94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
      7014.66c 4.1713
      8016.66c 12.5139
c water
      1001.66c 101.0656 $Includes Free Hydrogen Ion
      8016.66c 49.0328
mt11 lwtr.60t
c
c

```

Example Input for Case: 28 PuN46-icyl-1000-00-00070-01015.inp
 icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
 c
 c worm notes: format of the form |n.m for floating point, |n for integers
 c zzz0 (in upper case) is replaced with the number of cycles
 c zzz1 = the actual concentration in units of milli-g/cc
 c zzz2 = solution density in g/cc
 c qqql = the minimum dimensions (in hundredths of inches)

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```

c      qq2 = the maximum dimensions (in hundreths of inches)
c      qq3 = the delta (in hundreths of inches)
c
c Diameter = 1015 hundreths of inches - must be integer
c radius = 12.8905 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 12.8905 $ Cylinder
2 cz 12.8905 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.3010
c molarity pu= 0.2928, acid= 6.0000, H2O= 43.3133
c Pu in salt
94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
7014.66c 7.1713
8016.66c 21.5139
c water
1001.66c 92.6266 $Includes Free Hydrogen Ion
8016.66c 43.3133

```

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```
mt11      lwtr.60t
c
c
```

```
Example Input for Case: 29 PuN46-icyl-1000-01-00070-00855.inp
icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = 855 hundredths of inches - must be integer
c radius = 10.8585 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 10.8585 $ Cylinder
2 cz 13.3985 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
```

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```

-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c      2
        8016.66c      1
mt2     lwtr.60t
c       pu/water mixture
ml1     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.3010
c       molarity pu= 0.2928, acid= 6.0000, H2O= 43.3133
c       Pu in salt
        94239.66c     0.2928
c       94240.66c     0.0000
c       NO3 in salt plus acid
        7014.66c     7.1713
        8016.66c     21.5139
c       water
        1001.66c     92.6266 $Includes Free Hydrogen Ion
        8016.66c     43.3133
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 30 PuN46-icyl-1000-10-00070-00725.inp
icyl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c       zzz0 (in upper case) is replaced with the number of cycles
c       zzz1 = the actual concentration in units of milli-g/cc
c       zzz2 = solution density in g/cc
c       qqql = the minimum dimensions (in hundreths of inches)
c       qqql2 = the maximum dimensions (in hundreths of inches)
c       qqql3 = the delta (in hundreths of inches)
c
c Diameter = 725 hundreths of inches - must be integer
c radius = 9.2075 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0
1 cz 9.2075 $ Cylinder

```


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```

2          cz      34.6075          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.3010
c molarity pu= 0.2928, acid= 6.0000, H2O= 43.3133
c Pu in salt
      94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
      7014.66c 7.1713
      8016.66c 21.5139
c water
      1001.66c 92.6266 $Includes Free Hydrogen Ion
      8016.66c 43.3133
mt11 lwtr.60t
c
c

```

Example Input for Case: 31 Pun40-icyl-0970-00-00012-01640.inp

```

icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1640 hundreths of inches - must be integer
c radius = 20.8280 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights

```

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```

c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter   0.0502
c Mols of H2O per liter 55.0397
c
c
c sphere
20 11      -1.016000   -1          imp:n=1
21  2      -1.000      -2 1          imp:n=0    $zero importance if no reflector
22  0                2          imp:n=0

      1          cz      20.8280          $ Cylinder
      2          cz      20.8280          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc  0.00  0.00  0.00
      0.00  0.00  0.10
      0.00  0.00  0.50
      0.00  0.00  1.00
      0.00  0.00  2.00
      0.00  0.00  3.00
      1.00  1.00  1.00
      1.00  1.00  2.00
      1.00  1.00  3.00
      2.00  2.00  1.00
      2.00  2.00  2.00
      2.00  2.00  3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2      $ water
      1001.66c      2
      8016.66c      1
mt2      lwtr.60t
c      pu/water mixture
ml1      $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.0160
c      molarity pu= 0.0502, acid= 0.0000, H2O= 55.0397
c      Pu in salt
      94239.66c 0.0487
      94240.66c 0.0015
c      NO3 in salt plus acid
      7014.66c 0.2008
      8016.66c 0.6023
c      water
      1001.66c 110.0794 $Includes Free Hydrogen Ion
      8016.66c 55.0397
mt11      lwtr.60t
c
c

```

Example Input for Case: 32 Pun40-icyl-0970-01-00012-01500.inp
 icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc

```

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```

c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 1500 hundreths of inches - must be integer
c radius = 19.0500 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 55.0397
c
c
c sphere
20 11 -1.016000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 19.0500 $ Cylinder
2 cz 21.5900 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.0160
c molarity pu= 0.0502, acid= 0.0000, H2O= 55.0397
c Pu in salt
94239.66c 0.0487
94240.66c 0.0015
c NO3 in salt plus acid
7014.66c 0.2008
8016.66c 0.6023
c water
1001.66c 110.0794 $Includes Free Hydrogen Ion

```

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```

      8016.66c 55.0397
mt11    lwtr.60t
c
c
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1390 hundreths of inches - must be integer
c radius = 17.6530 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 55.0397
c
c
c sphere
20 11 -1.016000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 17.6530 $ Sphere
2 cz 43.0530 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00

```

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```

-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       pu/water mixture
m11     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc,   1.0160
c       molarity pu=   0.0502, acid=   0.0000, H2O=   55.0397
c       Pu in salt
        94239.66c    0.0487
        94240.66c    0.0015
c       NO3 in salt plus acid
        7014.66c    0.2008
        8016.66c    0.6023
c       water
        1001.66c 110.0794 $Includes Free Hydrogen Ion
        8016.66c 55.0397
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 34 PuN43-icyl-0970-00-00012-01840.inp
icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1840 hundreths of inches - must be integer
c radius = 23.3680 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 50.2083
c
c
c sphere
20 11 -1.118000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

```

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```

1      cz      23.3680      $ Cylinder
2      cz      23.3680      $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc  0.00    0.00    0.00
      0.00    0.00    0.10
      0.00    0.00    0.50
      0.00    0.00    1.00
      0.00    0.00    2.00
      0.00    0.00    3.00
      1.00    1.00    1.00
      1.00    1.00    2.00
      1.00    1.00    3.00
      2.00    2.00    1.00
      2.00    2.00    2.00
      2.00    2.00    3.00
      -1.00   -1.00   -1.00
      -10.00  -10.00  -20.00
      -10.00  -10.00  -30.00

c
m2      $ water
      1001.66c      2
      8016.66c      1
mt2      lwtr.60t
c      pu/water mixture
ml1      $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.1180
c      molarity pu= 0.0502, acid= 3.0000, H2O= 50.2083
c      Pu in salt
      94239.66c 0.0487
      94240.66c 0.0015
c      NO3 in salt plus acid
      7014.66c 3.2008
      8016.66c 9.6023
c      water
      1001.66c 103.4167 $Includes Free Hydrogen Ion
      8016.66c 50.2083
mt11      lwtr.60t
c
c

```

Example Input for Case: 35 PuN43-icyl-0970-01-00012-01690.inp
 icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1690 hundreths of inches - must be integer
c radius = 21.4630 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11800
c
c

```

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```

c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 50.2083
c
c
c sphere
20 11 -1.118000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 21.4630 $ Cylinder
2 cz 24.0030 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
ml1 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.1180
c molarity pu= 0.0502, acid= 3.0000, H2O= 50.2083
c Pu in salt
94239.66c 0.0487
94240.66c 0.0015
c NO3 in salt plus acid
7014.66c 3.2008
8016.66c 9.6023
c water
1001.66c 103.4167 $Includes Free Hydrogen Ion
8016.66c 50.2083
mt11 lwtr.60t
c
c

```

Example Input for Case: 36 PuN43-icyl-0970-10-00012-01570.inp
 icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
 c
 c worm notes: format of the form |n.m for floating point, |n for integers
 c zzz0 (in upper case) is replaced with the number of cycles
 c zzz1 = the actual concentration in units of milli-g/cc

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```

c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 1570 hundreths of inches - must be integer
c radius = 19.9390 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 50.2083
c
c
c sphere
20 11 -1.118000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 19.9390 $ Cylinder
2 cz 45.3390 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.1180
c molarity pu= 0.0502, acid= 3.0000, H2O= 50.2083
c Pu in salt
94239.66c 0.0487
94240.66c 0.0015
c NO3 in salt plus acid
7014.66c 3.2008
8016.66c 9.6023
c water

```


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```

1001.66c 103.4167 $Includes Free Hydrogen Ion
8016.66c 50.2083
mt11      lwtr.60t
c
c

Example Input for Case: 37 PuN46-icyl-0970-00-00012-02070.inp
icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 2070 hundreths of inches - must be integer
c radius = 26.2890 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 44.6553
c
c
c sphere
20 11 -1.207000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 26.2890 $ Cylinder
2 cz 26.2890 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00

```

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```

-1.00  -1.00  -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2      $ water
        1001.66c      2
        8016.66c      1
mt2     lwtr.60t
c       pu/water mixture
m11     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.2070
c       molarity pu= 0.0502, acid= 6.0000, H2O= 44.6553
c       Pu in salt
        94239.66c 0.0487
        94240.66c 0.0015
c       NO3 in salt plus acid
        7014.66c 6.2008
        8016.66c 18.6023
c       water
        1001.66c 95.3107 $Includes Free Hydrogen Ion
        8016.66c 44.6553
mt11    lwtr.60t
c
c

```

Example Input for Case: 38 PuN46-icyl-0970-01-00012-01920.inp

icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1920 hundreths of inches - must be integer
c radius = 24.3840 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 44.6553
c
c
c sphere
20 11 -1.207000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

```

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```

1      cz      24.3840      $ Cylinder
2      cz      26.9240      $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc  0.00  0.00  0.00
      0.00  0.00  0.10
      0.00  0.00  0.50
      0.00  0.00  1.00
      0.00  0.00  2.00
      0.00  0.00  3.00
      1.00  1.00  1.00
      1.00  1.00  2.00
      1.00  1.00  3.00
      2.00  2.00  1.00
      2.00  2.00  2.00
      2.00  2.00  3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2      $ water
      1001.66c      2
      8016.66c      1
mt2      lwtr.60t
c      pu/water mixture
m11      $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.2070
c      molarity pu= 0.0502, acid= 6.0000, H2O= 44.6553
c      Pu in salt
      94239.66c 0.0487
      94240.66c 0.0015
c      NO3 in salt plus acid
      7014.66c 6.2008
      8016.66c 18.6023
c      water
      1001.66c 95.3107 $Includes Free Hydrogen Ion
      8016.66c 44.6553
mt11      lwtr.60t
c
c

```

Example Input for Case: 39 PuN46-icyl-0970-10-00012-01790.inp
 icyl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqg2 = the maximum dimensions (in hundreths of inches)
c      qqg3 = the delta (in hundreths of inches)
c
c Diameter = 1790 hundreths of inches - must be integer
c radius = 22.7330 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20700
c

```

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```

c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 44.6553
c
c
c sphere
20 11 -1.207000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 22.7330 $ Cylinder
2 cz 48.1330 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.2070
c molarity pu= 0.0502, acid= 6.0000, H2O= 44.6553
c Pu in salt
    94239.66c 0.0487
    94240.66c 0.0015
c NO3 in salt plus acid
    7014.66c 6.2008
    8016.66c 18.6023
c water
    1001.66c 95.3107 $Includes Free Hydrogen Ion
    8016.66c 44.6553
mt11 lwtr.60t
c
c

```

```

Example Input for Case: 40 PuN40-pl-1000-00-00070-00555.inp
pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles

```

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```

c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 555   hundreths of inches - must be integer
c radius =      7.0485 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 53.8642
c
c
c sphere
  20 11   -1.113000   -1 2 -7 -5 8 6           imp:n=1
  21 2    -1.000     -3 4 6 8 -7 -5 ((1 -3):(-2 4))   imp:n=0   $zero importance if no
reflector
  22 0           3:-4:7:5:-8:-6           imp:n=0

      1      py      7.0485           $ Cylinder
      2      py     -7.0485
      3      py      7.0485           $ Reflection
      4      py     -7.0485
      *5      px      100
      *6      px     -100
      *7      pz      100
      *8      pz     -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2      $ water
      1001.66c      2
      8016.66c      1
mt2      lwtr.60t
c      pu/water mixture
m11      $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130

```

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```

c      molarity pu=   0.2928, acid=   0.0000, H2O=   53.8642
c      Pu in salt
c      94239.66c   0.2928
c      94240.66c   0.0000
c      NO3 in salt plus acid
c      7014.66c   1.1713
c      8016.66c   3.5139
c      water
c      1001.66c 107.7284 $Includes Free Hydrogen Ion
c      8016.66c  53.8642
mtll   lwtr.60t
c
c

```

Example Input for Case: 41 PuN40-pl-1000-01-00070-00390.inp

pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 390   hundreths of inches - must be integer
c radius =      4.9530 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter  0.2928
c Mols of H2O per liter 53.8642
c
c
c sphere
c 20 11 -1.113000 -1 2 -7 -5 8 6          imp:n=1
c 21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4))  imp:n=1  $zero importance if no
reflector
c 22 0          3:-4:7:5:-8:-6          imp:n=0
c
c 1      py      4.9530          $ Cylinder
c 2      py      -4.9530
c 3      py      7.4930          $ Reflection
c 4      py      -7.4930
c *5     px      100
c *6     px      -100
c *7     pz      100
c *8     pz      -100

```

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```

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
ml1 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130
c molarity pu= 0.2928, acid= 0.0000, H2O= 53.8642
c Pu in salt
    94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
    7014.66c 1.1713
    8016.66c 3.5139
c water
    1001.66c 107.7284 $Includes Free Hydrogen Ion
    8016.66c 53.8642
mt11 lwtr.60t
c
c

```

Example Input for Case: 42 PuN40-pl-1000-10-00070-00275.inp

pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 275 hundreths of inches - must be integer
c radius = 3.4925 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.11300
c
c
c Atomic Weights
c H2O = 18.0152

```

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```

c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter   0.2928
c Mols of H2O per liter  53.8642
c
c
c sphere
20 11  -1.113000  -1 2 -7 -5 8 6          imp:n=1
21 2  -1.000    -3 4 6 8 -7 -5 ((1 -3):(-2 4))  imp:n=1  $zero importance if no
reflector
22 0          3:-4:7:5:-8:-6          imp:n=0

1      py      3.4925          $ Cylinder
2      py     -3.4925
3      py     28.8925          $ Reflection
4      py    -28.8925
*5     px      100
*6     px     -100
*7     pz      100
*8     pz     -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.1130
c molarity pu= 0.2928, acid= 0.0000, H2O= 53.8642
c Pu in salt
      94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
      7014.66c 1.1713
      8016.66c 3.5139
c water
      1001.66c 107.7284 $Includes Free Hydrogen Ion
      8016.66c 53.8642
mt11 lwtr.60t
c
c

```

Example Input for Case: 43 PuN43-pl-1000-00-00070-00585.inp

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```

pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 585   hundreths of inches - must be integer
c radius =      7.4295 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width =  0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 =    239.0522
c Pu240 =    240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter  0.2928
c Mols of H2O per liter 49.0328
c
c
c sphere
  20 11  -1.215000  -1 2 -7 -5 8 6          imp:n=1
  21 2  -1.000    -3 4 6 8 -7 -5 ((1 -3):(-2 4))  imp:n=0  $zero importance if no
reflector
  22 0          3:-4:7:5:-8:-6          imp:n=0

  1      py      7.4295          $ Cylinder
  2      py     -7.4295
  3      py      7.4295          $ Reflection
  4      py     -7.4295
  *5     px      100
  *6     px     -100
  *7     pz      100
  *8     pz     -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2  $ water
      1001.66c      2

```

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```

      8016.66c      1
mt2   lwtr.60t
c     pu/water mixture
ml1   $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,   1.2150
c     molarity pu=   0.2928, acid=   3.0000, H2O=  49.0328
c     Pu in salt
      94239.66c    0.2928
c     94240.66c    0.0000
c     NO3 in salt plus acid
      7014.66c    4.1713
      8016.66c   12.5139
c     water
      1001.66c 101.0656 $Includes Free Hydrogen Ion
      8016.66c  49.0328
mt11  lwtr.60t
c
c

```

Example Input for Case: 44 PuN43-pl-1000-01-00070-00425.inp

pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 425   hundreths of inches - must be integer
c radius =      5.3975 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter  0.2928
c Mols of H2O per liter 49.0328
c
c
c sphere
  20 11  -1.215000  -1 2 -7 -5 8 6          imp:n=1
  21 2  -1.000    -3 4 6 8 -7 -5 ((1 -3):(-2 4))  imp:n=1  $zero importance if no
reflector
  22 0          3:-4:7:5:-8:-6          imp:n=0

  1      py      5.3975          $ Cylinder
  2      py     -5.3975
  3      py      7.9375          $ Reflection
  4      py     -7.9375

```

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```

*5      px      100
*6      px      -100
*7      pz      100
*8      pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2      $ water
      1001.66c      2
      8016.66c      1

mt2      lwtr.60t
c      pu/water mixture
m11      $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.2150
c      molarity pu= 0.2928, acid= 3.0000, H2O= 49.0328
c      Pu in salt
      94239.66c 0.2928
c      94240.66c 0.0000
c      NO3 in salt plus acid
      7014.66c 4.1713
      8016.66c 12.5139
c      water
      1001.66c 101.0656 $Includes Free Hydrogen Ion
      8016.66c 49.0328
mt11      lwtr.60t
c
c

```

Example Input for Case: 45 PuN43-pl-1000-10-00070-00285.inp
pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 285 hundreths of inches - must be integer
c radius = 3.6195 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.21500

```

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```

c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 49.0328
c
c
c sphere
20 11 -1.215000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 3.6195 $ Cylinder
2 py -3.6195
3 py 29.0195 $ Reflection
4 py -29.0195
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00

c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.2150
c molarity pu= 0.2928, acid= 3.0000, H2O= 49.0328
c Pu in salt
94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
7014.66c 4.1713
8016.66c 12.5139
c water
1001.66c 101.0656 $Includes Free Hydrogen Ion
8016.66c 49.0328
mt11 lwtr.60t
c
c

```

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```

Example Input for Case: 46 PuN46-pl-1000-00-00070-00615.inp
pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 615 hundreths of inches - must be integer
c radius = 7.8105 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=0 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 7.8105 $ Cylinder
2 py -7.8105
3 py 7.8105 $ Reflection
4 py -7.8105
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00

```

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```

-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       pu/water mixture
ml1     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc,   1.3010
c       molarity pu=  0.2928, acid=   6.0000, H2O=  43.3133
c       Pu in salt
        94239.66c    0.2928
c       94240.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    7.1713
        8016.66c    21.5139
c       water
        1001.66c    92.6266 $Includes Free Hydrogen Ion
        8016.66c    43.3133
mt11    lwtr.60t
c
c

```

Example Input for Case: 47 PuN46-pl-1000-01-00070-00455.inp

pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c       zzz0 (in upper case) is replaced with the number of cycles
c       zzz1 = the actual concentration in units of milli-g/cc
c       zzz2 = solution density in g/cc
c       qqql = the minimum dimensions (in hundreths of inches)
c       qqql2 = the maximum dimensions (in hundreths of inches)
c       qqql3 = the delta (in hundreths of inches)
c
c Diameter = 455   hundreths of inches - must be integer
c radius =      5.7785 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width =  1.0 inches
c Enrichment = 1.00 atom fraction Pu239
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c HNO3 =     63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter  0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
  20 11  -1.301000  -1 2 -7 -5 8 6          imp:n=1
  21 2   -1.000    -3 4 6 8 -7 -5 ((1 -3):(-2 4))  imp:n=1  $zero importance if no
reflector
  22 0          3:-4:7:5:-8:-6          imp:n=0

```

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```

1      py      5.7785          $ Cylinder
2      py      -5.7785
3      py      8.3185          $ Reflection
4      py      -8.3185
*5     px      100
*6     px      -100
*7     pz      100
*8     pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc  0.00  0.00  0.00
      0.00  0.00  0.10
      0.00  0.00  0.50
      0.00  0.00  1.00
      0.00  0.00  2.00
      0.00  0.00  3.00
      1.00  1.00  1.00
      1.00  1.00  2.00
      1.00  1.00  3.00
      2.00  2.00  1.00
      2.00  2.00  2.00
      2.00  2.00  3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2      $ water
      1001.66c      2
      8016.66c      1
mt2     lwtr.60t
c      pu/water mixture
ml1     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.3010
c      molarity pu= 0.2928, acid= 6.0000, H2O= 43.3133
c      Pu in salt
      94239.66c 0.2928
c      94240.66c 0.0000
c      NO3 in salt plus acid
      7014.66c 7.1713
      8016.66c 21.5139
c      water
      1001.66c 92.6266 $Includes Free Hydrogen Ion
      8016.66c 43.3133
mt11    lwtr.60t
c
c

```

Example Input for Case: 48 PuN46-pl-1000-10-00070-00300.inp

pl, 100.0 wt% Pu239, 00070 milli-g/cc, in Pu(NO3)4, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 300 hundreths of inches - must be integer
c radius = 3.8100 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction Pu239

```

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```

c Mols of Acid per liter 6.00
c
c
c Density of solution 1.30100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0522
c
c Molarity of solution components
c Mols of Pu per liter 0.2928
c Mols of H2O per liter 43.3133
c
c
c sphere
20 11 -1.301000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 3.8100 $ Cylinder
2 py -3.8100
3 py 29.2100 $ Reflection
4 py -29.2100
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00

c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00070 milli-g Pu/cc, 1.3010
c molarity pu= 0.2928, acid= 6.0000, H2O= 43.3133
c Pu in salt
94239.66c 0.2928
c 94240.66c 0.0000
c NO3 in salt plus acid
7014.66c 7.1713
8016.66c 21.5139
c water
1001.66c 92.6266 $Includes Free Hydrogen Ion
8016.66c 43.3133
mt11 lwtr.60t
c
c

```


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```

Example Input for Case: 49 PuN40-pl-0970-00-00012-01010.inp
pl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1010 hundreths of inches - must be integer
c radius = 12.8270 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 0.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 55.0397
c
c
c plane
  20 11 -1.016000 -1 2 -7 -5 8 6 imp:n=1
  21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=0 $zero importance if no
reflector
  22 0 3:-4:7:5:-8:-6 imp:n=0

  1 py 12.8270 $ Cylinder
  2 py -12.8270
  3 py 12.8270 $ Reflection
  4 py -12.8270
  *5 px 100
  *6 px -100
  *7 pz 100
  *8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00

```

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```

2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       pu/water mixture
ml1     $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc,    1.0160
c       molarity pu=   0.0502, acid=   0.0000, H2O=   55.0397
c       Pu in salt
        94239.66c    0.0487
        94240.66c    0.0015
c       NO3 in salt plus acid
        7014.66c    0.2008
        8016.66c    0.6023
c       water
        1001.66c 110.0794 $Includes Free Hydrogen Ion
        8016.66c 55.0397
mt11    lwtr.60t
c
c

```

Example Input for Case: 50 PuN40-pl-0970-01-00012-00860.inp

pl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 860    hundreths of inches - must be integer
c radius =    10.9220 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 1.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O =    18.0152
c NO3 =    62.0049
c HNO3 =    63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter    0.0502
c Mols of H2O per liter 55.0397
c
c
c plane
20 11    -1.016000    -1 2 -7 -5 8 6          imp:n=1

```

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```

21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 10.9220 $ Cylinder
2 py -10.9220
3 py 13.4620 $ Reflection
4 py -13.4620
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
ml1 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.0160
c molarity pu= 0.0502, acid= 0.0000, H2O= 55.0397
c Pu in salt
    94239.66c 0.0487
    94240.66c 0.0015
c NO3 in salt plus acid
    7014.66c 0.2008
    8016.66c 0.6023
c water
    1001.66c 110.0794 $Includes Free Hydrogen Ion
    8016.66c 55.0397
mt11 lwtr.60t
c
c

```

Example Input for Case: 51 PuN40-pl-0970-10-00012-00750.inp
pl, 97.0 wt% Pu239, 00012 milli-g/cc, in Pu(NO3)4, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundredths of inches)
c qqql2 = the maximum dimensions (in hundredths of inches)
c qqql3 = the delta (in hundredths of inches)
c
c Diameter = 750 hundredths of inches - must be integer
c radius = 9.5250 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else

```

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```

c they will be interpreted as octal
c Conc = 00012 milli-g Pu/cc
c Reflector width = 10.0 inches
c Enrichment = 0.97 atom fraction Pu239
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01600
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c HNO3 = 63.0128
c Pu239 = 239.0522
c Pu240 = 240.0538
c Pu = 239.0822
c
c Molarity of solution components
c Mols of Pu per liter 0.0502
c Mols of H2O per liter 55.0397
c
c
c plane
  20 11 -1.016000 -1 2 -7 -5 8 6 imp:n=1
  21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
  22 0 3:-4:7:5:-8:-6 imp:n=0

  1 py 9.5250 $ Cylinder
  2 py -9.5250
  3 py 34.9250 $ Reflection
  4 py -34.9250
  *5 px 100
  *6 px -100
  *7 pz 100
  *8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c pu/water mixture
m11 $ Pu(NO3)4 - NO3 - H2O, 100.0 wt% Pu239, 00012 milli-g Pu/cc, 1.0160
c molarity pu= 0.0502, acid= 0.0000, H2O= 55.0397
c Pu in salt
    94239.66c 0.0487
    94240.66c 0.0015
c NO3 in salt plus acid
    7014.66c 0.2008
    8016.66c 0.6023
c water
    1001.66c 110.0794 $Includes Free Hydrogen Ion

```

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```

      8016.66c 55.0397
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 52 u5o2N20-sp-1000-00-00070-01295.inp
sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1295 hundreths of inches - must be integer
c radius = 16.4465 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 54.0953
c
c
c sphere
20 11 -1.091000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 16.4465 $ Sphere
2 so 16.4465 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00

```

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```

-1.00  -1.00  -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2      $ water
        1001.66c      2
        8016.66c      1
mt2     lwtr.60t
c       UO2/water mixture
ml1     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.0910
c       molarity U= 0.2978, acid= 0.0000, H2O= 54.0953
c       U in salt
        92235.66c 0.2978
c       92238.66c 0.0000
c       NO3 in salt plus acid
        7014.66c 0.5956
        8016.66c 1.7869
c       water
        1001.66c 108.1906 $Includes Free Hydrogen Ion
        8016.66c 54.0953
mt11    lwtr.60t
c
c

```

Example Input for Case: 53 u5o2N20-sp-1000-01-00070-01145.inp

sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1145 hundreths of inches - must be integer
c radius = 14.5415 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 54.0953
c
c
c sphere
20 11 -1.091000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector

```

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```

22  0          2          imp:n=0

1          so  14.5415          $ Sphere
2          so  17.0815          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc  0.00  0.00  0.00
      0.00  0.00  0.10
      0.00  0.00  0.50
      0.00  0.00  1.00
      0.00  0.00  2.00
      0.00  0.00  3.00
      1.00  1.00  1.00
      1.00  1.00  2.00
      1.00  1.00  3.00
      2.00  2.00  1.00
      2.00  2.00  2.00
      2.00  2.00  3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
    1001.66c  2
    8016.66c  1

mt2  lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.0910
c  molarity U= 0.2978, acid= 0.0000, H2O= 54.0953
c  U in salt
    92235.66c  0.2978
c  92238.66c  0.0000
c  NO3 in salt plus acid
    7014.66c  0.5956
    8016.66c  1.7869
c  water
    1001.66c 108.1906 $Includes Free Hydrogen Ion
    8016.66c 54.0953
mt11  lwtr.60t
c
c

```

Example Input for Case: 54 u5o2N20-sp-1000-10-00070-01035.inp
 sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1035 hundreths of inches - must be integer
c radius = 13.1445 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100

```

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```

c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 54.0953
c
c
c sphere
20 11 -1.091000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 13.1445 $ Sphere
2 so 38.5445 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.0910
c molarity U= 0.2978, acid= 0.0000, H2O= 54.0953
c U in salt
    92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
    7014.66c 0.5956
    8016.66c 1.7869
c water
    1001.66c 108.1906 $Includes Free Hydrogen Ion
    8016.66c 54.0953
mt11 lwtr.60t
c
c

```

Example Input for Case: 55 u5o2N23-sp-1000-00-00070-01380.inp
 sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
 c

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```

c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1380 hundreths of inches - must be integer
c radius = 17.5260 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864
c
c
c sphere
20 11 -1.188000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 17.5260 $ Sphere
2 so 17.5260 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.1880
c molarity U= 0.2978, acid= 3.0000, H2O= 48.9864
c U in salt
92235.66c 0.2978
c 92238.66c 0.0000

```

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```

c      NO3 in salt plus acid
      7014.66c  3.5956
      8016.66c 10.7869
c      water
      1001.66c 100.9728 $Includes Free Hydrogen Ion
      8016.66c  48.9864
mt11   lwtr.60t
c
c

```

```

Example Input for Case: 56 u5o2N23-sp-1000-01-00070-01215.inp
sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 1215 hundreths of inches - must be integer
c radius = 15.4305 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864
c
c
c sphere
20 11 -1.188000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 15.4305 $ Sphere
2 so 17.9705 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00

```

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```

1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
ml1     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc,    1.1880
c       molarity U=   0.2978, acid=   3.0000, H2O=   48.9864
c       U in salt
        92235.66c    0.2978
c       92238.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    3.5956
        8016.66c   10.7869
c       water
        1001.66c 100.9728 $Includes Free Hydrogen Ion
        8016.66c 48.9864
mt11    lwtr.60t
c
c

```

Example Input for Case: 57 u5o2N23-sp-1000-10-00070-01095.inp
 sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1095 hundreths of inches - must be integer
c radius = 13.9065 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864

```

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```

c
c
c sphere
20 11 -1.188000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 13.9065 $ Sphere
2 so 39.3065 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.1880
c molarity U= 0.2978, acid= 3.0000, H2O= 48.9864
c U in salt
    92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
    7014.66c 3.5956
    8016.66c 10.7869
c water
    1001.66c 100.9728 $Includes Free Hydrogen Ion
    8016.66c 48.9864
mt11 lwtr.60t
c
c

```

Example Input for Case: 58 u5o2N26-sp-1000-00-00070-01500.inp
 sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1500 hundreths of inches - must be integer
c radius = 19.0500 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 0.0 inches

```

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```

c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 43.4334
c
c
c sphere
20 11 -1.277000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 19.0500 $ Sphere
2 so 19.0500 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
ml1 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c U in salt
92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
7014.66c 6.5956
8016.66c 19.7869
c water
1001.66c 92.8668 $Includes Free Hydrogen Ion
8016.66c 43.4334
mt11 lwtr.60t
c
c

```

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```

Example Input for Case: 59 u5o2N26-sp-1000-01-00070-01340.inp
sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundredths of inches)
c   qqql2 = the maximum dimensions (in hundredths of inches)
c   qqql3 = the delta (in hundredths of inches)
c
c Diameter = 1340 hundredths of inches - must be integer
c radius = 17.0180 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 43.4334
c
c
c sphere
20 11 -1.277000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 17.0180 $ Sphere
2 so 19.5580 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture

```

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```

ml1      $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c        molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c        U in salt
c        92235.66c 0.2978
c        92238.66c 0.0000
c        NO3 in salt plus acid
c        7014.66c 6.5956
c        8016.66c 19.7869
c        water
c        1001.66c 92.8668 $Includes Free Hydrogen Ion
c        8016.66c 43.4334
mt11     lwtr.60t
c
c

```

```

Example Input for Case: 60 u5o2N26-sp-1000-10-00070-01210.inp
sp, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1210 hundreths of inches - must be integer
c radius = 15.3670 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 43.4334
c
c
c sphere
20 11 -1.277000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 15.3670 $ Sphere
2 so 40.7670 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10

```

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```

0.00    0.00    0.50
0.00    0.00    1.00
0.00    0.00    2.00
0.00    0.00    3.00
1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
m11     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc,    1.2770
c       molarity U=   0.2978, acid=   6.0000, H2O=  43.4334
c       U in salt
        92235.66c    0.2978
c       92238.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    6.5956
        8016.66c   19.7869
c       water
        1001.66c   92.8668  $Includes Free Hydrogen Ion
        8016.66c   43.4334
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 61 u5o2N20-sp-0935-00-00012-06900.inp
sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 6900 hundreths of inches - must be integer
c radius = 87.6300 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508

```


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```

c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c sphere
20 11 -1.013000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 87.6300 $ Sphere
2 so 87.6300 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c U in salt
    92235.66c 0.0477
    92238.66c 0.0033
c NO3 in salt plus acid
    7014.66c 0.1020
    8016.66c 0.3061
c water
    1001.66c 110.2449 $Includes Free Hydrogen Ion
    8016.66c 55.1224
mt11 lwtr.60t
c
c

```

Example Input for Case: 62 u5o2N20-sp-0935-01-00012-07470.inp
 sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 7470 hundreths of inches - must be integer

```

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```

c radius =      94.8690 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width =  1.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c  O =      15.9994
c HNO3 =     63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter  0.0510
c Mols of H2O per liter 55.1224
c
c
c sphere
20 11  -1.013000  -1          imp:n=1
21  2  -1.000    -2 1          imp:n=1  $zero importance if no reflector
22  0              2          imp:n=0

      1      so  94.8690          $ Sphere
      2      so  97.4090          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c U in salt
      92235.66c 0.0477
      92238.66c 0.0033
c NO3 in salt plus acid
      7014.66c 0.1020
      8016.66c 0.3061
c water
      1001.66c 110.2449 $Includes Free Hydrogen Ion
      8016.66c 55.1224
mt11 lwtr.60t
c
c

```

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```

Example Input for Case: 63 u5o2N20-sp-0935-10-00012-06990.inp
sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 6990 hundreths of inches - must be integer
c radius = 88.7730 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c sphere
20 11 -1.013000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 88.7730 $ Sphere
2 so 114.1730 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c

```

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```

m2      $ water
        1001.66c      2
        8016.66c      1
mt2     lwtr.60t
c       UO2/water mixture
ml1     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c       molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c       U in salt
        92235.66c 0.0477
        92238.66c 0.0033
c       NO3 in salt plus acid
        7014.66c 0.1020
        8016.66c 0.3061
c       water
        1001.66c 110.2449 $Includes Free Hydrogen Ion
        8016.66c 55.1224
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 64 u5o2N23-sp-0935-00-00012-10710.inp
sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 10710 hundreths of inches - must be integer
c radius = 136.0170 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 50.1245
c
c
c sphere
20 11 -1.112000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 136.0170 $ Sphere
2 so 136.0170 $ Reflection

```

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```

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.1120
c molarity U= 0.0510, acid= 3.0000, H2O= 50.1245
c U in salt
    92235.66c 0.0477
    92238.66c 0.0033
c NO3 in salt plus acid
    7014.66c 3.1020
    8016.66c 9.3061
c water
    1001.66c 103.2490 $Includes Free Hydrogen Ion
    8016.66c 50.1245
mt11 lwtr.60t
c
c

```

```

Example Input for Case: 65 u5o2N23-sp-0935-01-00012-14430.inp
sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 14430 hundreths of inches - must be integer
c radius = 183.2610 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11200
c
c
c Atomic Weights
c H2O = 18.0152

```

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```

c NO3 =      62.0049
c O =      15.9994
c HNO3 =     63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter  0.0510
c Mols of H2O per liter  50.1245
c
c
c sphere
20 11  -1.112000  -1          imp:n=1
21 2  -1.000    -2 1          imp:n=1  $zero importance if no reflector
22 0           2          imp:n=0

1      so  183.2610          $ Sphere
2      so  185.8010          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.1120
c molarity U= 0.0510, acid= 3.0000, H2O= 50.1245
c U in salt
    92235.66c 0.0477
    92238.66c 0.0033
c NO3 in salt plus acid
    7014.66c 3.1020
    8016.66c 9.3061
c water
    1001.66c 103.2490 $Includes Free Hydrogen Ion
    8016.66c 50.1245
mt11 lwtr.60t
c
c

```

Example Input for Case: 66 u5o2N23-sp-0935-10-00012-10550.inp
 sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc

```

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```

c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 10550 hundreths of inches - must be integer
c radius = 133.9850 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 50.1245
c
c
c sphere
20 11 -1.112000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 133.9850 $ Sphere
2 so 159.3850 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.1120
c molarity U= 0.0510, acid= 3.0000, H2O= 50.1245
c U in salt
92235.66c 0.0477
92238.66c 0.0033
c NO3 in salt plus acid
7014.66c 3.1020
8016.66c 9.3061
c water

```

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```

1001.66c 103.2490 $Includes Free Hydrogen Ion
8016.66c 50.1245
mt11 lwtr.60t
c
c

Example Input for Case: 67 u5o2N26-sp-0935-00-00012-14780.inp
sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 14780 hundreths of inches - must be integer
c radius = 187.7060 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 44.6270
c
c
c sphere
20 11 -1.202000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 so 187.7060 $ Sphere
2 so 187.7060 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00

```


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```

      2.00    2.00    3.00
     -1.00   -1.00   -1.00
    -10.00  -10.00  -20.00
    -10.00  -10.00  -30.00
c
m2    $ water
      1001.66c    2
      8016.66c    1
mt2   lwtr.60t
c     UO2/water mixture
ml1   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.2020
c     molarity U= 0.0510, acid= 6.0000, H2O= 44.6270
c     U in salt
      92235.66c  0.0477
      92238.66c  0.0033
c     NO3 in salt plus acid
      7014.66c  6.1020
      8016.66c 18.3061
c     water
      1001.66c 95.2541 $Includes Free Hydrogen Ion
      8016.66c 44.6270
mt11   lwtr.60t
c
c

```

```

Example Input for Case: 68 u5o2N26-sp-0935-01-00012-18990.inp
sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 18990 hundreths of inches - must be integer
c radius = 241.1730 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 44.6270
c
c
c sphere
20 11 -1.202000 -1 imp:n=1

```

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```

21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 241.1730 $ Sphere
2 so 243.7130 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.2020
c molarity U= 0.0510, acid= 6.0000, H2O= 44.6270
c U in salt
    92235.66c 0.0477
    92238.66c 0.0033
c NO3 in salt plus acid
    7014.66c 6.1020
    8016.66c 18.3061
c water
    1001.66c 95.2541 $Includes Free Hydrogen Ion
    8016.66c 44.6270
mt11 lwtr.60t
c
c

```

Example Input for Case: 69 u5o2N26-sp-0935-10-00012-13430.inp
 sp, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 13430 hundreths of inches - must be integer
c radius = 170.5610 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 6.00
c
c

```

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```

c Density of solution 1.20200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 44.6270
c
c
c sphere
20 11 -1.202000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 so 170.5610 $ Sphere
2 so 195.9610 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.2020
c molarity U= 0.0510, acid= 6.0000, H2O= 44.6270
c U in salt
92235.66c 0.0477
92238.66c 0.0033
c NO3 in salt plus acid
7014.66c 6.1020
8016.66c 18.3061
c water
1001.66c 95.2541 $Includes Free Hydrogen Ion
8016.66c 44.6270
mt11 lwtr.60t
c
c

```

Example Input for Case: 70 u5o2N20-icyl-1000-00-00070-00950.inp
 icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

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```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundredths of inches)
c      qqql2 = the maximum dimensions (in hundredths of inches)
c      qqql3 = the delta (in hundredths of inches)
c
c Diameter = 950 hundredths of inches - must be integer
c radius = 12.0650 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 54.0953
c
c
c sphere
20 11 -1.091000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 12.0650 $ Sphere
2 cz 12.0650 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.0910
c molarity U= 0.2978, acid= 0.0000, H2O= 54.0953
c U in salt
92235.66c 0.2978

```

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```
c 92238.66c 0.0000
c NO3 in salt plus acid
c 7014.66c 0.5956
c 8016.66c 1.7869
c water
c 1001.66c 108.1906 $Includes Free Hydrogen Ion
c 8016.66c 54.0953
mt11 lwtr.60t
c
c
```

```
Example Input for Case: 71 u5o2N20-icyl-1000-01-00070-00800.inp
icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 800 hundreths of inches - must be integer
c radius = 10.1600 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 54.0953
c
c
c sphere
20 11 -1.091000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 10.1600 $ Sphere
2 cz 12.7000 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
```

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```

1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
m11     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc,    1.0910
c       molarity U=   0.2978, acid=   0.0000, H2O=   54.0953
c       U in salt
        92235.66c    0.2978
c       92238.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    0.5956
        8016.66c    1.7869
c       water
        1001.66c 108.1906 $Includes Free Hydrogen Ion
        8016.66c  54.0953
mt11    lwtr.60t
c
c

```

Example Input for Case: 72 u5o2N20-icyl-1000-10-00070-00690.inp

icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 690   hundreths of inches - must be integer
c radius =      8.7630 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O =    18.0152
c NO3 =    62.0049
c O =     15.9994
c HNO3 =   63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter   0.2978

```

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```

c Mols of H2O per liter  54.0953
c
c
c sphere
20 11  -1.091000  -1          imp:n=1
21  2  -1.000     -2 1          imp:n=1    $zero importance if no reflector
22  0           2          imp:n=0

      1      cz      8.7630          $ Sphere
      2      cz      34.1630        $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
ml1 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.0910
c molarity U= 0.2978, acid= 0.0000, H2O= 54.0953
c U in salt
      92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
      7014.66c 0.5956
      8016.66c 1.7869
c water
      1001.66c 108.1906 $Includes Free Hydrogen Ion
      8016.66c 54.0953
mt11 lwtr.60t
c
c

```

Example Input for Case: 73 u5o2N23-icyl-1000-00-00070-01015.inp
 icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1015 hundreths of inches - must be integer
c radius = 12.8905 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc

```

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```

c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864
c
c
c sphere
20 11 -1.188000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 12.8905 $ Sphere
2 cz 12.8905 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.1880
c molarity U= 0.2978, acid= 3.0000, H2O= 48.9864
c U in salt
92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
7014.66c 3.5956
8016.66c 10.7869
c water
1001.66c 100.9728 $Includes Free Hydrogen Ion
8016.66c 48.9864
mt11 lwtr.60t
c
c

```


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```

Example Input for Case: 74 u5o2N23-icyl-1000-01-00070-00865.inp
icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundredths of inches)
c      qqql2 = the maximum dimensions (in hundredths of inches)
c      qqql3 = the delta (in hundredths of inches)
c
c Diameter = 865 hundredths of inches - must be integer
c radius = 10.9855 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864
c
c
c sphere
20 11 -1.188000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0
1 cz 10.9855 $ Sphere
2 cz 13.5255 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t

```

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```

c      UO2/water mixture
mt11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.1880
c      molarity U= 0.2978, acid= 3.0000, H2O= 48.9864
c      U in salt
      92235.66c 0.2978
c      92238.66c 0.0000
c      NO3 in salt plus acid
      7014.66c 3.5956
      8016.66c 10.7869
c      water
      1001.66c 100.9728 $Includes Free Hydrogen Ion
      8016.66c 48.9864
mt11  lwtr.60t
c
c

```

Example Input for Case: 75 u5o2N23-icyl-1000-10-00070-00760.inp
 icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 760 hundreths of inches - must be integer
c radius = 9.6520 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864
c
c
c sphere
      20 11 -1.188000 -1 imp:n=1
      21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
      22 0 2 imp:n=0
      1 cz 9.6520 $ Sphere
      2 cz 35.0520 $ Reflection
mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00

```

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```

0.00    0.00    0.10
0.00    0.00    0.50
0.00    0.00    1.00
0.00    0.00    2.00
0.00    0.00    3.00
1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
m11     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc,    1.1880
c       molarity U=  0.2978, acid=   3.0000, H2O=  48.9864
c       U in salt
        92235.66c    0.2978
c       92238.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    3.5956
        8016.66c   10.7869
c       water
        1001.66c 100.9728 $Includes Free Hydrogen Ion
        8016.66c 48.9864
mt11    lwtr.60t
c
c

```

Example Input for Case: 76 u5o2N26-icyl-1000-00-00070-01085.inp
 icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 1085 hundreths of inches - must be integer
c radius = 13.7795 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439

```

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```

c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 43.4334
c
c
c sphere
20 11 -1.277000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 13.7795 $ Sphere
2 cz 13.7795 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
ml1 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c U in salt
92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
7014.66c 6.5956
8016.66c 19.7869
c water
1001.66c 92.8668 $Includes Free Hydrogen Ion
8016.66c 43.4334
mt11 lwtr.60t
c
c

```

Example Input for Case: 77 u5o2N26-icyl-1000-01-00070-00925.inp
 icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c

```

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```

c Diameter = 925   hundreths of inches - must be integer
c radius =      11.7475 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c  O =      15.9994
c HNO3 =     63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter  0.2978
c Mols of H2O per liter 43.4334
c
c
c sphere
20 11  -1.277000  -1          imp:n=1
21  2  -1.000    -2 1          imp:n=1  $zero importance if no reflector
22  0              2          imp:n=0

      1      cz      11.7475          $ Sphere
      2      cz      14.2875          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc  0.00  0.00  0.00
      0.00  0.00  0.10
      0.00  0.00  0.50
      0.00  0.00  1.00
      0.00  0.00  2.00
      0.00  0.00  3.00
      1.00  1.00  1.00
      1.00  1.00  2.00
      1.00  1.00  3.00
      2.00  2.00  1.00
      2.00  2.00  2.00
      2.00  2.00  3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c  2
      8016.66c  1
mt2  lwtr.60t
c  UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c  molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c  U in salt
      92235.66c  0.2978
c  92238.66c  0.0000
c  NO3 in salt plus acid
      7014.66c  6.5956
      8016.66c  19.7869
c  water
      1001.66c  92.8668  $Includes Free Hydrogen Ion
      8016.66c  43.4334
mt11  lwtr.60t
c

```

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c

```

Example Input for Case: 78 u5o2N26-icyl-1000-10-00070-00795.inp
icyl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 795   hundreths of inches - must be integer
c radius =   10.0965 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O =   18.0152
c NO3 =   62.0049
c  O =   15.9994
c HNO3 =  63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter   0.2978
c Mols of H2O per liter 43.4334
c
c
c sphere
20 11   -1.277000   -1           imp:n=1
21  2   -1.000     -2 1           imp:n=1   $zero importance if no reflector
22  0           2           imp:n=0

      1      cz   10.0965           $ Sphere
      2      cz   35.4965           $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc  0.00  0.00  0.00
      0.00  0.00  0.10
      0.00  0.00  0.50
      0.00  0.00  1.00
      0.00  0.00  2.00
      0.00  0.00  3.00
      1.00  1.00  1.00
      1.00  1.00  2.00
      1.00  1.00  3.00
      2.00  2.00  1.00
      2.00  2.00  2.00
      2.00  2.00  3.00
     -1.00 -1.00 -1.00
    -10.00 -10.00 -20.00
    -10.00 -10.00 -30.00

```

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```

c
m2      $ water
        1001.66c      2
        8016.66c      1
mt2     lwtr.60t
c       UO2/water mixture
m11     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c       molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c       U in salt
        92235.66c 0.2978
c       92238.66c 0.0000
c       NO3 in salt plus acid
        7014.66c 6.5956
        8016.66c 19.7869
c       water
        1001.66c 92.8668 $Includes Free Hydrogen Ion
        8016.66c 43.4334
mt11    lwtr.60t
c
c

```

Example Input for Case: 79 u5o2N20-icyl-0935-00-00012-02350.inp

icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundredths of inches)
c      qqql = the maximum dimensions (in hundredths of inches)
c      qqql = the delta (in hundredths of inches)
c
c Diameter = 2350 hundredths of inches - must be integer
c radius = 29.8450 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c Cylinder
20 11 -1.013000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0
1 cz 29.8450 $ Sphere

```

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```

2          cz      29.8450          $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
ml1 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c U in salt
      92235.66c 0.0477
      92238.66c 0.0033
c NO3 in salt plus acid
      7014.66c 0.1020
      8016.66c 0.3061
c water
      1001.66c 110.2449 $Includes Free Hydrogen Ion
      8016.66c 55.1224
mt11 lwtr.60t
c
c

```

```

Example Input for Case: 80 u5o2N20-icyl-0935-01-00012-02500.inp
icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 2500 hundreths of inches - must be integer
c radius = 31.7500 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights

```


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```

c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c Cylinder
20 11 -1.013000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 31.7500 $ Sphere
2 cz 34.2900 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c U in salt
92235.66c 0.0477
92238.66c 0.0033
c NO3 in salt plus acid
7014.66c 0.1020
8016.66c 0.3061
c water
1001.66c 110.2449 $Includes Free Hydrogen Ion
8016.66c 55.1224
mt11 lwtr.60t
c
c

```

Example Input for Case: 81 u5o2N20-icyl-0935-10-00012-03170.inp
 icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
 c
 c worm notes: format of the form |n.m for floating point, |n for integers
 c zzz0 (in upper case) is replaced with the number of cycles
 c zzz1 = the actual concentration in units of milli-g/cc

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```

c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 3170 hundreths of inches - must be integer
c radius = 40.2590 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c Cylinder
20 11 -1.013000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 40.2590 $ Sphere
2 cz 65.6590 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c U in salt
      92235.66c 0.0477
      92238.66c 0.0033
c NO3 in salt plus acid
      7014.66c 0.1020
      8016.66c 0.3061

```

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```
c      water
      1001.66c 110.2449 $Includes Free Hydrogen Ion
      8016.66c 55.1224
mt11   lwtr.60t
c
c
```

```
Example Input for Case: 82 u5o2N23-icyl-0935-00-00012-05210.inp
icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 5210 hundreths of inches - must be integer
c radius = 66.1670 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 50.1245
c
c
c Cylinder
20 11 -1.112000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 66.1670 $ Cylinder
2 cz 66.1670 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
```

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```

2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
ml1     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc,  1.1120
c       molarity U=   0.0510, acid=   3.0000, H2O=  50.1245
c       U in salt
        92235.66c    0.0477
        92238.66c    0.0033
c       NO3 in salt plus acid
        7014.66c    3.1020
        8016.66c    9.3061
c       water
        1001.66c 103.2490 $Includes Free Hydrogen Ion
        8016.66c  50.1245
mt11    lwtr.60t
c
c

```

Example Input for Case: 83 u5o2N23-icyl-0935-01-00012-03850.inp

icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 3850 hundreths of inches - must be integer
c radius = 48.8950 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.11200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 50.1245
c
c
c Cylinder

```

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```

20 11 -1.112000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 48.8950 $ Cylinder
2 cz 51.4350 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
ml1 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.1120
c molarity U= 0.0510, acid= 3.0000, H2O= 50.1245
c U in salt
    92235.66c 0.0477
    92238.66c 0.0033
c NO3 in salt plus acid
    7014.66c 3.1020
    8016.66c 9.3061
c water
    1001.66c 103.2490 $Includes Free Hydrogen Ion
    8016.66c 50.1245
mt11 lwtr.60t
c
c

```

Example Input for Case: 84 u5o2N23-icyl-0935-10-00012-04280.inp
 icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundredths of inches)
c qqql2 = the maximum dimensions (in hundredths of inches)
c qqql3 = the delta (in hundredths of inches)
c
c Diameter = 4280 hundredths of inches - must be integer
c radius = 54.3560 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 3.00
c

```

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```

c
c Density of solution 1.11200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 50.1245
c
c
c Cylinder
20 11 -1.112000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 54.3560 $ Cylinder
2 cz 79.7560 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00

c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.1120
c molarity U= 0.0510, acid= 3.0000, H2O= 50.1245
c U in salt
92235.66c 0.0477
92238.66c 0.0033
c NO3 in salt plus acid
7014.66c 3.1020
8016.66c 9.3061
c water
1001.66c 103.2490 $Includes Free Hydrogen Ion
8016.66c 50.1245
mt11 lwtr.60t
c
c

```

Example Input for Case: 85 u5o2N26-icyl-0935-00-00012-06380.inp

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```

icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 6380 hundreths of inches - must be integer
c radius = 81.0260 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 44.6270
c
c
c Cylinder
20 11 -1.202000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=0 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 81.0260 $ Cylinder
2 cz 81.0260 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.2020
c molarity U= 0.0510, acid= 6.0000, H2O= 44.6270
c U in salt

```

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```

92235.66c 0.0477
92238.66c 0.0033
c NO3 in salt plus acid
7014.66c 6.1020
8016.66c 18.3061
c water
1001.66c 95.2541 $Includes Free Hydrogen Ion
8016.66c 44.6270
mt11 lwtr.60t
c
c

```

Example Input for Case: 86 u5o2N26-icyl-0935-01-00012-06880.inp
 icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundredths of inches)
c qqql2 = the maximum dimensions (in hundredths of inches)
c qqql3 = the delta (in hundredths of inches)
c
c Diameter = 6880 hundredths of inches - must be integer
c radius = 87.3760 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 44.6270
c
c
c Cylinder
20 11 -1.202000 -1 imp:n=1
21 2 -1.000 -2 1 imp:n=1 $zero importance if no reflector
22 0 2 imp:n=0

1 cz 87.3760 $ Cylinder
2 cz 89.9160 $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00

```


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```

0.00    0.00    3.00
1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
ml1     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc,    1.2020
c       molarity U=   0.0510, acid=   6.0000, H2O=  44.6270
c       U in salt
        92235.66c    0.0477
        92238.66c    0.0033
c       NO3 in salt plus acid
        7014.66c    6.1020
        8016.66c   18.3061
c       water
        1001.66c   95.2541 $Includes Free Hydrogen Ion
        8016.66c   44.6270
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 87 u5o2N26-icyl-0935-10-00012-07370.inp
icyl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql = the maximum dimensions (in hundreths of inches)
c   qqql = the delta (in hundreths of inches)
c
c Diameter = 7370 hundreths of inches - must be integer
c radius = 93.5990 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.20200
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components

```

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```

c Mols of U per liter    0.0510
c Mols of H2O per liter  44.6270
c
c
c Cylinder
20 11  -1.202000  -1      imp:n=1
21  2  -1.000    -2  1      imp:n=1    $zero importance if no reflector
22  0           2      imp:n=0

      1      cz      93.5990      $ cylinder
      2      cz      118.9990    $ Reflection

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2 $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.2020
c molarity U= 0.0510, acid= 6.0000, H2O= 44.6270
c U in salt
      92235.66c 0.0477
      92238.66c 0.0033
c NO3 in salt plus acid
      7014.66c 6.1020
      8016.66c 18.3061
c water
      1001.66c 95.2541 $Includes Free Hydrogen Ion
      8016.66c 44.6270
mt11 lwtr.60t
c
c

```

Example Input for Case: 88 u5o2N20-pl-1000-00-00070-00580.inp
 pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 580 hundreths of inches - must be integer
c radius = 7.3660 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal

```

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```

c Conc = 00070 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 54.0953
c
c
c semi infinite plane
20 11 -1.091000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=0 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 7.3660 $ Cylinder
2 py -7.3660
3 py 7.3660 $ Reflection
4 py -7.3660
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.0910
c molarity U= 0.2978, acid= 0.0000, H2O= 54.0953
c U in salt
92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
7014.66c 0.5956
8016.66c 1.7869
c water
1001.66c 108.1906 $Includes Free Hydrogen Ion

```

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```

      8016.66c  54.0953
mt11      lwtr.60t
c
c
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cyles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 405   hundreths of inches - must be integer
c radius =      5.1435 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c O =       15.9994
c HNO3 =     63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 54.0953
c
c
c semi infinite plane
20 11 -1.091000 -1 2 -7 -5 8 6          imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4))  imp:n=1 $zero importance if no
reflector
22 0          3:-4:7:5:-8:-6          imp:n=0

1      py      5.1435          $ Cylinder
2      py      -5.1435
3      py      7.6835          $ Reflection
4      py      -7.6835
*5      px      100
*6      px      -100
*7      pz      100
*8      pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00

```

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```

0.00    0.00    3.00
1.00    1.00    1.00
1.00    1.00    2.00
1.00    1.00    3.00
2.00    2.00    1.00
2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
ml1     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc,    1.0910
c       molarity U=   0.2978, acid=   0.0000, H2O=   54.0953
c       U in salt
        92235.66c    0.2978
c       92238.66c    0.0000
c       NO3 in salt plus acid
        7014.66c    0.5956
        8016.66c    1.7869
c       water
        1001.66c 108.1906 $Includes Free Hydrogen Ion
        8016.66c 54.0953
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 90 u5o2N20-pl-1000-10-00070-00325.inp
pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql = the maximum dimensions (in hundreths of inches)
c   qqql = the delta (in hundreths of inches)
c
c Diameter = 325 hundreths of inches - must be integer
c radius = 4.1275 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.09100
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components

```

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```

c Mols of U per liter    0.2978
c Mols of H2O per liter  54.0953
c
c
c semi infinite plane
20 11  -1.091000  -1 2 -7 -5 8 6      imp:n=1
21 2  -1.000    -3 4 6 8 -7 -5 ((1 -3):(-2 4))      imp:n=1    $zero importance if no
reflector
22 0          3:-4:7:5:-8:-6      imp:n=0

1      py      4.1275          $ Cylinder
2      py      -4.1275
3      py      29.5275          $ Reflection
4      py      -29.5275
*5     px      100
*6     px      -100
*7     pz      100
*8     pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c 2
      8016.66c 1
mt2   lwtr.60t
c     UO2/water mixture
ml1   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.0910
c     molarity U= 0.2978, acid= 0.0000, H2O= 54.0953
c     U in salt
      92235.66c 0.2978
c     92238.66c 0.0000
c     NO3 in salt plus acid
      7014.66c 0.5956
      8016.66c 1.7869
c     water
      1001.66c 108.1906 $Includes Free Hydrogen Ion
      8016.66c 54.0953
mt11  lwtr.60t
c
c

```

Example Input for Case: 91 u5o2N23-pl-1000-00-00070-00625.inp
 pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
 c
 c worm notes: format of the form |n.m for floating point, |n for integers
 c zzz0 (in upper case) is replaced with the number of cycles
 c zzz1 = the actual concentration in units of milli-g/cc
 c zzz2 = solution density in g/cc
 c qqql = the minimum dimensions (in hundredths of inches)

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```

c      qq2 = the maximum dimensions (in hundreths of inches)
c      qq3 = the delta (in hundreths of inches)
c
c Diameter = 625   hundreths of inches - must be integer
c radius =      7.9375 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c  O =      15.9994
c HNO3 =     63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864
c
c
c semi infinite plane
20 11 -1.188000 -1 2 -7 -5 8 6      imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4))      imp:n=0      $zero importance if no
reflector:
22 0      3:-4:7:5:-8:-6      imp:n=0

1      py      7.9375      $ Cylinder
2      py      -7.9375
3      py      7.9375      $ Reflection
4      py      -7.9375
*5      px      100
*6      px      -100
*7      pz      100
*8      pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2      $ water
      1001.66c      2
      8016.66c      1
mt2      lwtr.60t
c      UO2/water mixture
m11      $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.1880
c      molarity U= 0.2978, acid= 3.0000, H2O= 48.9864
c      U in salt

```

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```

92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
7014.66c 3.5956
8016.66c 10.7869
c water
1001.66c 100.9728 $Includes Free Hydrogen Ion
8016.66c 48.9864
mt11 lwtr.60t
c
c

```

Example Input for Case: 92 u5o2N23-pl-1000-01-00070-00460.inp
 pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundredths of inches)
c qqql2 = the maximum dimensions (in hundredths of inches)
c qqql3 = the delta (in hundredths of inches)
c
c Diameter = 460 hundredths of inches - must be integer
c radius = 5.8420 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 48.9864
c
c
c semi infinite plane
20 11 -1.188000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 5.8420 $ Cylinder
2 py -5.8420
3 py 8.3820 $ Reflection
4 py -8.3820
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

```


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```

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
    1001.66c 2
    8016.66c 1

mt2 lwtr.60t
c UO2/water mixture
ml1 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.1880
c molarity U= 0.2978, acid= 3.0000, H2O= 48.9864
c U in salt
    92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
    7014.66c 3.5956
    8016.66c 10.7869
c water
    1001.66c 100.9728 $Includes Free Hydrogen Ion
    8016.66c 48.9864
mt11 lwtr.60t
c
c

```

```

Example Input for Case: 93 u5o2N23-pl-1000-10-00070-00345.inp
pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 3 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 345 hundreths of inches - must be integer
c radius = 4.3815 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 3.00
c
c
c Density of solution 1.18800
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049

```

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```

c  O =      15.9994
c HNO3 =     63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter   0.2978
c Mols of H2O per liter 48.9864
c
c
c semi infinite plane
20 11  -1.188000  -1 2 -7 -5 8 6          imp:n=1
21 2  -1.000    -3 4 6 8 -7 -5 ((1 -3):(-2 4))  imp:n=1  $zero importance if no
reflector
22 0          3:-4:7:5:-8:-6          imp:n=0

1      py      4.3815          $ Cylinder
2      py      -4.3815
3      py      29.7815          $ Reflection
4      py      -29.7815
*5     px      100
*6     px      -100
*7     pz      100
*8     pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2  $ water
      1001.66c 2
      8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11  $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.1880
c molarity U= 0.2978, acid= 3.0000, H2O= 48.9864
c U in salt
      92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
      7014.66c 3.5956
      8016.66c 10.7869
c water
      1001.66c 100.9728 $Includes Free Hydrogen Ion
      8016.66c 48.9864
mt11 lwtr.60t
c
c

```

Example Input for Case: 94 u5o2N26-pl-1000-00-00070-00665.inp

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```

pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql2 = the maximum dimensions (in hundreths of inches)
c      qqql3 = the delta (in hundreths of inches)
c
c Diameter = 665   hundreths of inches - must be integer
c radius =      8.4455 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width =  0.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O =      18.0152
c NO3 =      62.0049
c  O =      15.9994
c HNO3 =     63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter  0.2978
c Mols of H2O per liter 43.4334
c
c
c semi infinite plane
20 11  -1.277000  -1 2 -7 -5 8 6      imp:n=1
21 2  -1.000  -3 4 6 8 -7 -5 ((1 -3):(-2 4))      imp:n=0  $zero importance if no
reflector
22 0      3:-4:7:5:-8:-6      imp:n=0

1      py      8.4455      $ Cylinder
2      py      -8.4455
3      py      8.4455      $ Reflection
4      py      -8.4455
*5      px      100
*6      px      -100
*7      pz      100
*8      pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00
c
m2      $ water

```

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```

      1001.66c      2
      8016.66c      1
mt2   lwtr.60t
c     UO2/water mixture
ml1   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c     molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c     U in salt
      92235.66c    0.2978
c     92238.66c    0.0000
c     NO3 in salt plus acid
      7014.66c    6.5956
      8016.66c    19.7869
c     water
      1001.66c    92.8668 $Includes Free Hydrogen Ion
      8016.66c    43.4334
mt11   lwtr.60t
c
c

```

```

Example Input for Case: 95 u5o2N26-pl-1000-01-00070-00505.inp
pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c   zzz0 (in upper case) is replaced with the number of cycles
c   zzz1 = the actual concentration in units of milli-g/cc
c   zzz2 = solution density in g/cc
c   qqql = the minimum dimensions (in hundreths of inches)
c   qqql2 = the maximum dimensions (in hundreths of inches)
c   qqql3 = the delta (in hundreths of inches)
c
c Diameter = 505 hundreths of inches - must be integer
c radius = 6.4135 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c
c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 43.4334
c
c
c semi infinite plane
20 11 -1.277000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 6.4135 $ Cylinder
2 py -6.4135

```

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```

3      py      8.9535      $ Reflection
4      py      -8.9535
*5     px      100
*6     px      -100
*7     pz      100
*8     pz      -100

mode n
kcode 2000 1.0 100 2000
ksrc  0.00  0.00  0.00
      0.00  0.00  0.10
      0.00  0.00  0.50
      0.00  0.00  1.00
      0.00  0.00  2.00
      0.00  0.00  3.00
      1.00  1.00  1.00
      1.00  1.00  2.00
      1.00  1.00  3.00
      2.00  2.00  1.00
      2.00  2.00  2.00
      2.00  2.00  3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2    $ water
      1001.66c      2
      8016.66c      1
mt2   lwtr.60t
c     UO2/water mixture
ml1   $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c     molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c     U in salt
      92235.66c 0.2978
c     92238.66c 0.0000
c     NO3 in salt plus acid
      7014.66c 6.5956
      8016.66c 19.7869
c     water
      1001.66c 92.8668 $Includes Free Hydrogen Ion
      8016.66c 43.4334
mt11  lwtr.60t
c
c

```

Example Input for Case: 96 u5o2N26-pl-1000-10-00070-00390.inp
 pl, 100.0 wt% UO2, 00070 milli-g/cc, in UO2(NO3)2, with 6 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundredths of inches)
c      qqql2 = the maximum dimensions (in hundredths of inches)
c      qqql3 = the delta (in hundredths of inches)
c
c Diameter = 390 hundredths of inches - must be integer
c radius = 4.9530 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00070 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 1.00 atom fraction U
c Mols of Acid per liter 6.00
c

```

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```

c
c Density of solution 1.27700
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.0439
c
c Molarity of solution components
c Mols of U per liter 0.2978
c Mols of H2O per liter 43.4334
c
c
c semi infinite plane
20 11 -1.277000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 4.9530 $ Cylinder
2 py -4.9530
3 py 30.3530 $ Reflection
4 py -30.3530
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00

c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00070 milli-g U/cc, 1.2770
c molarity U= 0.2978, acid= 6.0000, H2O= 43.4334
c U in salt
92235.66c 0.2978
c 92238.66c 0.0000
c NO3 in salt plus acid
7014.66c 6.5956
8016.66c 19.7869
c water
1001.66c 92.8668 $Includes Free Hydrogen Ion
8016.66c 43.4334
mt11 lwtr.60t
c
c

```

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```

Example Input for Case: 97 u5o2N20-pl-0935-00-00012-03250.inp
pl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundredths of inches)
c      qqql2 = the maximum dimensions (in hundredths of inches)
c      qqql3 = the delta (in hundredths of inches)
c
c Diameter = 3250 hundredths of inches - must be integer
c radius = 41.2750 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 0.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c semi infinite plane
20 11 -1.013000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=0 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 41.2750 $ Cylinder
2 py -41.2750
3 py 41.2750 $ Reflection
4 py -41.2750
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00

```

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```

2.00    2.00    2.00
2.00    2.00    3.00
-1.00   -1.00   -1.00
-10.00  -10.00  -20.00
-10.00  -10.00  -30.00
c
m2      $ water
        1001.66c    2
        8016.66c    1
mt2     lwtr.60t
c       UO2/water mixture
ml1     $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c       molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c       U in salt
        92235.66c    0.0477
        92238.66c    0.0033
c       NO3 in salt plus acid
        7014.66c    0.1020
        8016.66c    0.3061
c       water
        1001.66c 110.2449 $Includes Free Hydrogen Ion
        8016.66c 55.1224
mt11    lwtr.60t
c
c

```

```

Example Input for Case: 98 u5o2N20-pl-0935-01-00012-03920.inp
pl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3
c
c worm notes: format of the form |n.m for floating point, |n for integers
c      zzz0 (in upper case) is replaced with the number of cycles
c      zzz1 = the actual concentration in units of milli-g/cc
c      zzz2 = solution density in g/cc
c      qqql = the minimum dimensions (in hundreths of inches)
c      qqql = the maximum dimensions (in hundreths of inches)
c      qqql = the delta (in hundreths of inches)
c
c Diameter = 3920 hundreths of inches - must be integer
c radius = 49.7840 cm
c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 1.0 inches
c Enrichment = 0.935 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c semi infinite plane

```


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```

20 11 -1.013000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 49.7840 $ Cylinder
2 py -49.7840
3 py 52.3240 $ Reflection
4 py -52.3240
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
      0.00 0.00 0.10
      0.00 0.00 0.50
      0.00 0.00 1.00
      0.00 0.00 2.00
      0.00 0.00 3.00
      1.00 1.00 1.00
      1.00 1.00 2.00
      1.00 1.00 3.00
      2.00 2.00 1.00
      2.00 2.00 2.00
      2.00 2.00 3.00
      -1.00 -1.00 -1.00
      -10.00 -10.00 -20.00
      -10.00 -10.00 -30.00

c
m2 $ water
    1001.66c 2
    8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c U in salt
    92235.66c 0.0477
    92238.66c 0.0033
c NO3 in salt plus acid
    7014.66c 0.1020
    8016.66c 0.3061
c water
    1001.66c 110.2449 $Includes Free Hydrogen Ion
    8016.66c 55.1224
mt11 lwtr.60t
c
c

```

Example Input for Case: 99 u5o2N20-pl-0935-10-00012-03450.inp
 pl, 93.5 wt% UO2, 00012 milli-g/cc, in UO2(NO3)2, with 0 Molar HNO3

```

c
c worm notes: format of the form |n.m for floating point, |n for integers
c zzz0 (in upper case) is replaced with the number of cycles
c zzz1 = the actual concentration in units of milli-g/cc
c zzz2 = solution density in g/cc
c qqql = the minimum dimensions (in hundreths of inches)
c qqql2 = the maximum dimensions (in hundreths of inches)
c qqql3 = the delta (in hundreths of inches)
c
c Diameter = 3450 hundreths of inches - must be integer
c radius = 43.8150 cm

```

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```

c note for perl, numbers with leading zeros must be enclosed in single quotes or else
c they will be interpreted as octal
c Conc = 00012 milli-g U/cc
c Reflector width = 10.0 inches
c Enrichment = 0.94 atom fraction U
c Mols of Acid per liter 0.00
c
c
c Density of solution 1.01300
c
c
c Atomic Weights
c H2O = 18.0152
c NO3 = 62.0049
c O = 15.9994
c HNO3 = 63.0128
c U235 = 235.0439
c U238 = 238.0508
c U = 235.2393
c
c Molarity of solution components
c Mols of U per liter 0.0510
c Mols of H2O per liter 55.1224
c
c
c semi infinite plane
20 11 -1.013000 -1 2 -7 -5 8 6 imp:n=1
21 2 -1.000 -3 4 6 8 -7 -5 ((1 -3):(-2 4)) imp:n=1 $zero importance if no
reflector
22 0 3:-4:7:5:-8:-6 imp:n=0

1 py 43.8150 $ Cylinder
2 py -43.8150
3 py 69.2150 $ Reflection
4 py -69.2150
*5 px 100
*6 px -100
*7 pz 100
*8 pz -100

mode n
kcode 2000 1.0 100 2000
ksrc 0.00 0.00 0.00
0.00 0.00 0.10
0.00 0.00 0.50
0.00 0.00 1.00
0.00 0.00 2.00
0.00 0.00 3.00
1.00 1.00 1.00
1.00 1.00 2.00
1.00 1.00 3.00
2.00 2.00 1.00
2.00 2.00 2.00
2.00 2.00 3.00
-1.00 -1.00 -1.00
-10.00 -10.00 -20.00
-10.00 -10.00 -30.00
c
m2 $ water
1001.66c 2
8016.66c 1
mt2 lwtr.60t
c UO2/water mixture
m11 $ UO2(NO3)2 - NO3 - H2O, 100.0 wt% U235, 00012 milli-g U/cc, 1.0130
c molarity U= 0.0510, acid= 0.0000, H2O= 55.1224
c U in salt
92235.66c 0.0477
92238.66c 0.0033
c NO3 in salt plus acid
7014.66c 0.1020
8016.66c 0.3061

```

```
c      water
      1001.66c 110.2449 $Includes Free Hydrogen Ion
      8016.66c  55.1224
mt11    lwtr.60t
c
c
```

APPENDIX F – RAW DATA LISTING

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15.20 0.95253 0.00043	14.40 0.95306 0.00047	14.20 0.95435 0.00046
15.30 0.95746 0.00043	14.50 0.95851 0.00047	14.30 0.96005 0.00045
15.40 0.96223 0.00045	14.60 0.96378 0.00046	14.40 0.96626 0.00045
15.50 0.96758 0.00044	14.70 0.96851 0.00046	14.50 0.97082 0.00046
15.60 0.97167 0.00045	14.80 0.97310 0.00045	14.60 0.97533 0.00047
15.70 0.97551 0.00044	14.90 0.97917 0.00047	14.70 0.98071 0.00046
15.80 0.98093 0.00044	15.00 0.98440 0.00046	14.80 0.98628 0.00047
15.90 0.98504 0.00043	15.10 0.98870 0.00046	14.90 0.99244 0.00047
16.00 0.98903 0.00043	15.20 0.99362 0.00046	15.00 0.99655 0.00047
16.10 0.99391 0.00045	15.30 0.99850 0.00046	15.10 1.00222 0.00047
16.20 0.99846 0.00044	15.40 1.00318 0.00046	15.20 1.00751 0.00047
16.30 1.00336 0.00044	15.50 1.00860 0.00046	15.30 1.01263 0.00047
16.40 1.00667 0.00044	15.60 1.01309 0.00044	15.40 1.01687 0.00047
16.50 1.01150 0.00044	15.70 1.01842 0.00046	
16.60 1.01479 0.00044	15.80 1.02277 0.00045	
16.70 1.01943 0.00043		

35	40	50
13.30 0.91833 0.00050	13.00 0.92125 0.00049	12.50 0.91893 0.00051
13.40 0.92414 0.00048	13.05 0.92451 0.00049	12.55 0.92207 0.00050
13.50 0.93020 0.00047	13.10 0.92792 0.00049	12.60 0.92550 0.00049
13.60 0.93676 0.00047	13.15 0.93137 0.00049	12.65 0.92969 0.00049
13.70 0.94281 0.00048	13.20 0.93424 0.00051	12.70 0.93307 0.00050
13.80 0.94804 0.00047	13.25 0.93752 0.00048	12.75 0.93586 0.00051
13.90 0.95460 0.00050	13.30 0.94104 0.00049	12.80 0.94007 0.00050
14.00 0.96016 0.00048	13.35 0.94261 0.00049	12.85 0.94403 0.00052
14.10 0.96556 0.00048	13.40 0.94605 0.00047	12.90 0.94591 0.00051
14.20 0.97132 0.00049	13.45 0.94987 0.00048	12.95 0.95039 0.00050
14.30 0.97720 0.00048	13.50 0.95306 0.00049	13.00 0.95276 0.00049
14.40 0.98180 0.00047	13.55 0.95652 0.00049	13.05 0.95647 0.00050
14.50 0.98802 0.00047	13.60 0.95881 0.00050	13.10 0.95910 0.00049
14.60 0.99356 0.00047	13.65 0.96174 0.00049	13.15 0.96256 0.00050
14.70 0.99874 0.00048	13.70 0.96547 0.00049	13.20 0.96612 0.00051
14.80 1.00436 0.00047	13.75 0.96845 0.00049	13.25 0.96926 0.00050
14.90 1.00848 0.00048	13.80 0.97079 0.00049	13.30 0.97189 0.00051
15.00 1.01397 0.00049	13.85 0.97389 0.00048	13.35 0.97562 0.00050
15.10 1.01923 0.00047	13.90 0.97764 0.00048	13.40 0.97880 0.00050
	13.95 0.97997 0.00048	13.45 0.98162 0.00050
	14.00 0.98290 0.00049	13.50 0.98549 0.00051
	14.05 0.98609 0.00049	13.55 0.98664 0.00053
	14.10 0.98800 0.00049	13.60 0.99057 0.00049
	14.15 0.99116 0.00049	13.65 0.99372 0.00050
	14.20 0.99381 0.00048	13.70 0.99715 0.00050
	14.25 0.99690 0.00050	13.75 0.99963 0.00049
	14.30 1.00009 0.00050	13.80 1.00266 0.00050
	14.35 1.00198 0.00049	13.85 1.00576 0.00052
	14.40 1.00626 0.00048	13.90 1.00914 0.00049
	14.45 1.00841 0.00050	13.95 1.01176 0.00050
	14.50 1.01029 0.00048	14.00 1.01475 0.00052

14.55	1.01275	0.00049	14.05	1.01828	0.00050
14.60	1.01671	0.00049	14.10	1.02129	0.00051
14.65	1.01915	0.00047	14.15	1.02415	0.00049
14.70	1.02293	0.00047	14.20	1.02592	0.00051

60	70	80
12.20 0.91772 0.00051	12.00 0.91693 0.00053	11.90 0.91946 0.00052
12.25 0.92098 0.00051	12.05 0.92002 0.00051	11.95 0.92351 0.00052
12.30 0.92549 0.00051	12.10 0.92519 0.00052	12.00 0.92697 0.00051
12.35 0.92802 0.00052	12.15 0.92795 0.00053	12.05 0.93103 0.00052
12.40 0.93202 0.00052	12.20 0.93129 0.00050	12.10 0.93376 0.00052
12.45 0.93604 0.00050	12.25 0.93581 0.00053	12.15 0.93884 0.00054
12.50 0.93991 0.00051	12.30 0.93770 0.00051	12.20 0.94123 0.00053
12.55 0.94311 0.00051	12.35 0.94253 0.00052	12.25 0.94544 0.00052
12.60 0.94685 0.00052	12.40 0.94570 0.00052	12.30 0.94986 0.00051
12.65 0.94983 0.00051	12.45 0.95018 0.00052	12.35 0.95191 0.00052
12.70 0.95330 0.00051	12.50 0.95286 0.00052	12.40 0.95539 0.00051
12.75 0.95655 0.00050	12.55 0.95565 0.00052	12.45 0.96032 0.00053
12.80 0.96098 0.00052	12.60 0.96026 0.00051	12.50 0.96347 0.00053
12.85 0.96274 0.00053	12.65 0.96291 0.00053	12.55 0.96631 0.00052
12.90 0.96840 0.00051	12.70 0.96664 0.00053	12.60 0.97072 0.00051
12.95 0.97045 0.00050	12.75 0.97030 0.00053	12.65 0.97336 0.00053
13.00 0.97385 0.00052	12.80 0.97299 0.00053	12.70 0.97781 0.00052
13.05 0.97720 0.00051	12.85 0.97710 0.00053	12.75 0.98185 0.00052
13.10 0.98097 0.00051	12.90 0.98038 0.00052	12.80 0.98427 0.00053
13.15 0.98287 0.00052	12.95 0.98442 0.00050	12.85 0.98684 0.00052
13.20 0.98586 0.00051	13.00 0.98719 0.00052	12.90 0.99138 0.00054
13.25 0.98953 0.00051	13.05 0.99055 0.00051	12.95 0.99328 0.00052
13.30 0.99351 0.00051	13.10 0.99238 0.00052	13.00 0.99733 0.00052
13.35 0.99622 0.00050	13.15 0.99680 0.00052	13.05 1.00202 0.00050
13.40 0.99931 0.00050	13.20 0.99964 0.00052	13.10 1.00364 0.00052
13.45 1.00195 0.00052	13.25 1.00236 0.00052	13.15 1.00682 0.00053
13.50 1.00571 0.00050	13.30 1.00672 0.00051	13.20 1.01123 0.00052
13.55 1.00852 0.00052	13.35 1.00992 0.00052	13.25 1.01374 0.00052
13.60 1.01314 0.00051	13.40 1.01300 0.00052	13.30 1.01715 0.00053
13.65 1.01486 0.00051	13.45 1.01581 0.00050	13.35 1.01974 0.00053
13.70 1.01873 0.00051	13.50 1.01944 0.00053	13.40 1.02313 0.00052
13.75 1.02141 0.00053		
13.80 1.02473 0.00051		

90	100	120
11.80 0.91855 0.00053	11.70 0.91639 0.00052	11.60 0.91653 0.00052
11.85 0.92328 0.00052	11.75 0.92017 0.00052	11.65 0.92113 0.00053
11.90 0.92631 0.00052	11.80 0.92551 0.00053	11.70 0.92453 0.00052
11.95 0.93031 0.00053	11.85 0.92841 0.00052	11.75 0.92744 0.00053
12.00 0.93415 0.00052	11.90 0.93222 0.00053	11.80 0.93167 0.00053
12.05 0.93829 0.00053	11.95 0.93607 0.00052	11.85 0.93601 0.00054

12.10 0.94114 0.00053	12.00 0.94048 0.00053	11.90 0.93983 0.00052
12.15 0.94609 0.00052	12.05 0.94370 0.00052	11.95 0.94320 0.00053
12.20 0.94903 0.00051	12.10 0.94687 0.00053	12.00 0.94679 0.00054
12.25 0.95281 0.00054	12.15 0.94993 0.00051	12.05 0.95104 0.00054
12.30 0.95787 0.00051	12.20 0.95500 0.00051	12.10 0.95483 0.00053
12.35 0.95986 0.00054	12.25 0.95867 0.00053	12.15 0.95827 0.00052
12.40 0.96381 0.00052	12.30 0.96265 0.00053	12.20 0.96199 0.00053
12.45 0.96628 0.00054	12.35 0.96505 0.00054	12.25 0.96490 0.00053
12.50 0.97022 0.00052	12.40 0.96901 0.00053	12.30 0.96839 0.00053
12.55 0.97419 0.00052	12.45 0.97251 0.00053	12.35 0.97237 0.00053
12.60 0.97899 0.00051	12.50 0.97537 0.00054	12.40 0.97588 0.00052
12.65 0.98232 0.00053	12.55 0.98061 0.00053	12.45 0.98055 0.00052
12.70 0.98454 0.00052	12.60 0.98362 0.00053	12.50 0.98317 0.00053
12.75 0.98759 0.00053	12.65 0.98733 0.00053	12.55 0.98594 0.00052
12.80 0.99120 0.00052	12.70 0.99022 0.00054	12.60 0.99003 0.00052
12.85 0.99440 0.00053	12.75 0.99309 0.00053	12.65 0.99459 0.00053
12.90 0.99844 0.00053	12.80 0.99722 0.00053	12.70 0.99722 0.00053
12.95 1.00166 0.00053	12.85 1.00035 0.00052	12.75 1.00089 0.00053
13.00 1.00513 0.00052	12.90 1.00326 0.00053	12.80 1.00381 0.00053
13.05 1.00792 0.00052	12.95 1.00862 0.00053	12.85 1.00690 0.00053
13.10 1.01024 0.00053	13.00 1.00946 0.00053	12.90 1.01037 0.00053
13.15 1.01417 0.00052	13.05 1.01423 0.00054	12.95 1.01352 0.00055
13.20 1.01926 0.00054	13.10 1.01653 0.00052	13.00 1.01772 0.00053
13.25 1.02134 0.00055	13.15 1.02072 0.00053	13.05 1.02028 0.00053
13.30 1.02375 0.00053	13.20 1.02393 0.00052	13.10 1.02376 0.00053

130	150	200
11.60 0.91959 0.00053	11.50 0.91552 0.00053	11.40 0.91270 0.00053
11.65 0.92468 0.00052	11.55 0.91989 0.00052	11.45 0.91587 0.00053
11.70 0.92754 0.00054	11.60 0.92358 0.00052	11.50 0.91866 0.00053
11.75 0.93166 0.00054	11.65 0.92687 0.00051	11.55 0.92362 0.00053
11.80 0.93520 0.00054	11.70 0.93036 0.00052	11.60 0.92798 0.00055
11.85 0.93993 0.00051	11.75 0.93421 0.00054	11.65 0.93172 0.00054
11.90 0.94267 0.00052	11.80 0.93832 0.00052	11.70 0.93494 0.00053
11.95 0.94676 0.00052	11.85 0.94140 0.00053	11.75 0.93910 0.00052
12.00 0.95035 0.00054	11.90 0.94674 0.00054	11.80 0.94234 0.00054
12.05 0.95489 0.00054	11.95 0.95036 0.00052	11.85 0.94652 0.00053
12.10 0.95837 0.00053	12.00 0.95399 0.00054	11.90 0.95073 0.00053
12.15 0.96176 0.00054	12.05 0.95624 0.00052	11.95 0.95386 0.00052
12.20 0.96525 0.00052	12.10 0.96105 0.00054	12.00 0.95837 0.00053
12.25 0.96856 0.00053	12.15 0.96505 0.00054	12.05 0.96100 0.00053
12.30 0.97284 0.00054	12.20 0.96784 0.00053	12.10 0.96545 0.00054
12.35 0.97668 0.00053	12.25 0.97130 0.00053	12.15 0.96935 0.00053
12.40 0.97952 0.00052	12.30 0.97417 0.00052	12.20 0.97129 0.00052
12.45 0.98324 0.00053	12.35 0.97964 0.00054	12.25 0.97584 0.00053
12.50 0.98736 0.00054	12.40 0.98238 0.00053	12.30 0.97994 0.00053
12.55 0.99015 0.00055	12.45 0.98694 0.00052	12.35 0.98482 0.00052
12.60 0.99295 0.00053	12.50 0.99002 0.00054	12.40 0.98620 0.00054
12.65 0.99674 0.00053	12.55 0.99280 0.00054	12.45 0.99124 0.00052

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12.70	1.00017	0.00054	12.60	0.99619	0.00054	12.50	0.99364	0.00055
12.75	1.00416	0.00053	12.65	1.00070	0.00053	12.55	0.99696	0.00053
12.80	1.00802	0.00052	12.70	1.00353	0.00053	12.60	0.99957	0.00054
12.85	1.01158	0.00055	12.75	1.00635	0.00053	12.65	1.00440	0.00052
12.90	1.01517	0.00052	12.80	1.01128	0.00054	12.70	1.00734	0.00053
12.95	1.01723	0.00053	12.85	1.01392	0.00054	12.75	1.01125	0.00055
13.00	1.02098	0.00053	12.90	1.01670	0.00053	12.80	1.01480	0.00053
			12.95	1.02070	0.00053	12.85	1.01764	0.00053
			13.00	1.02432	0.00052	12.90	1.02205	0.00052

239	250	359						
11.50	0.92000	0.00054	11.40	0.91230	0.00053	11.50	0.91648	0.00052
11.55	0.92402	0.00053	11.45	0.91619	0.00054	11.55	0.91983	0.00053
11.60	0.92837	0.00053	11.50	0.92014	0.00053	11.60	0.92380	0.00052
11.65	0.93211	0.00053	11.55	0.92473	0.00055	11.65	0.92881	0.00051
11.70	0.93592	0.00053	11.60	0.92813	0.00052	11.70	0.93298	0.00052
11.75	0.94017	0.00054	11.65	0.93203	0.00054	11.75	0.93551	0.00052
11.80	0.94374	0.00053	11.70	0.93532	0.00053	11.80	0.93933	0.00053
11.85	0.94739	0.00052	11.75	0.93877	0.00054	11.85	0.94320	0.00052
11.90	0.95095	0.00052	11.80	0.94283	0.00051	11.90	0.94644	0.00053
11.95	0.95402	0.00052	11.85	0.94687	0.00051	11.95	0.94914	0.00053
12.00	0.95779	0.00052	11.90	0.95187	0.00052	12.00	0.95336	0.00050
12.05	0.96258	0.00053	11.95	0.95414	0.00053	12.05	0.95787	0.00053
12.10	0.96666	0.00052	12.00	0.95765	0.00054	12.10	0.96144	0.00052
12.15	0.96951	0.00055	12.05	0.96213	0.00052	12.15	0.96544	0.00051
12.20	0.97277	0.00054	12.10	0.96575	0.00054	12.20	0.96887	0.00053
12.25	0.97599	0.00054	12.15	0.96881	0.00053	12.25	0.97196	0.00052
12.30	0.98047	0.00055	12.20	0.97294	0.00054	12.30	0.97579	0.00053
12.35	0.98362	0.00053	12.25	0.97644	0.00054	12.35	0.97921	0.00053
12.40	0.98739	0.00053	12.30	0.98020	0.00053	12.40	0.98300	0.00053
12.45	0.99125	0.00054	12.35	0.98342	0.00052	12.45	0.98593	0.00053
12.50	0.99482	0.00053	12.40	0.98790	0.00052	12.50	0.99003	0.00053
12.55	0.99851	0.00053	12.45	0.99007	0.00052	12.55	0.99417	0.00053
12.60	1.00236	0.00053	12.50	0.99422	0.00054	12.60	0.99718	0.00053
12.65	1.00491	0.00053	12.55	0.99818	0.00052	12.65	1.00030	0.00054
12.70	1.00821	0.00052	12.60	1.00080	0.00054	12.70	1.00340	0.00054
12.75	1.01151	0.00054	12.65	1.00480	0.00051	12.75	1.00703	0.00053
12.80	1.01512	0.00053	12.70	1.00801	0.00054	12.80	1.01041	0.00052
12.85	1.01799	0.00053	12.75	1.01133	0.00053	12.85	1.01406	0.00050
12.90	1.02117	0.00053	12.80	1.01466	0.00053	12.90	1.01770	0.00053
			12.85	1.01751	0.00054	12.95	1.02021	0.00053
			12.90	1.02151	0.00052	13.00	1.02409	0.00052

478	500	600						
11.70	0.92051	0.00054	11.70	0.91775	0.00051	12.00	0.91620	0.00054
11.75	0.92395	0.00052	11.75	0.92098	0.00052	12.05	0.92048	0.00050
11.80	0.92813	0.00052	11.80	0.92523	0.00052	12.10	0.92343	0.00051

11.85 0.93276 0.00053	11.85 0.92868 0.00052	12.15 0.92728 0.00051
11.90 0.93523 0.00051	11.90 0.93178 0.00050	12.20 0.93133 0.00052
11.95 0.94087 0.00053	11.95 0.93703 0.00051	12.25 0.93507 0.00052
12.00 0.94245 0.00051	12.00 0.94022 0.00052	12.30 0.93750 0.00052
12.05 0.94759 0.00051	12.05 0.94341 0.00054	12.35 0.94261 0.00051
12.10 0.95099 0.00052	12.10 0.94777 0.00052	12.40 0.94536 0.00052
12.15 0.95437 0.00051	12.15 0.95166 0.00051	12.45 0.94871 0.00051
12.20 0.95759 0.00052	12.20 0.95496 0.00053	12.50 0.95243 0.00053
12.25 0.96282 0.00052	12.25 0.95901 0.00053	12.55 0.95645 0.00052
12.30 0.96513 0.00052	12.30 0.96194 0.00053	12.60 0.95925 0.00051
12.35 0.96880 0.00051	12.35 0.96675 0.00053	12.65 0.96347 0.00053
12.40 0.97250 0.00053	12.40 0.96988 0.00053	12.70 0.96660 0.00053
12.45 0.97659 0.00052	12.45 0.97300 0.00052	12.75 0.96875 0.00053
12.50 0.97973 0.00052	12.50 0.97643 0.00052	12.80 0.97398 0.00052
12.55 0.98244 0.00053	12.55 0.98018 0.00052	12.85 0.97730 0.00053
12.60 0.98697 0.00052	12.60 0.98320 0.00051	12.90 0.98057 0.00052
12.65 0.99052 0.00053	12.65 0.98679 0.00051	12.95 0.98429 0.00051
12.70 0.99274 0.00052	12.70 0.99046 0.00053	13.00 0.98700 0.00053
12.75 0.99600 0.00052	12.75 0.99331 0.00052	13.05 0.99011 0.00051
12.80 0.99993 0.00051	12.80 0.99770 0.00052	13.10 0.99373 0.00052
12.85 1.00338 0.00052	12.85 1.00155 0.00053	13.15 0.99751 0.00050
12.90 1.00673 0.00052	12.90 1.00341 0.00051	13.20 1.00055 0.00053
12.95 1.01007 0.00051	12.95 1.00779 0.00053	13.25 1.00403 0.00052
13.00 1.01397 0.00052	13.00 1.01144 0.00053	13.30 1.00632 0.00053
13.05 1.01748 0.00054	13.05 1.01370 0.00052	13.35 1.01063 0.00052
13.10 1.02074 0.00052	13.10 1.01715 0.00053	13.40 1.01428 0.00052
13.15 1.02042 0.00053	13.45 1.01664 0.00052	
13.20 1.02378 0.00052	13.50 1.02000 0.00052	
	13.55 1.02358 0.00052	
	13.60 1.02551 0.00053	

650	700	750
12.30 0.91782 0.00052	12.80 0.91801 0.00052	14.10 0.91616 0.00052
12.35 0.92148 0.00051	12.85 0.92199 0.00051	14.20 0.92311 0.00051
12.40 0.92429 0.00052	12.90 0.92505 0.00051	14.30 0.92862 0.00051
12.45 0.92865 0.00052	12.95 0.92843 0.00052	14.40 0.93537 0.00052
12.50 0.93161 0.00052	13.00 0.93223 0.00050	14.50 0.94049 0.00051
12.55 0.93558 0.00051	13.05 0.93542 0.00051	14.60 0.94768 0.00053
12.60 0.93913 0.00051	13.10 0.93857 0.00050	14.70 0.95310 0.00051
12.65 0.94260 0.00051	13.15 0.94293 0.00053	14.80 0.96034 0.00051
12.70 0.94661 0.00051	13.20 0.94566 0.00052	14.90 0.96527 0.00052
12.75 0.95000 0.00053	13.25 0.94967 0.00052	15.00 0.97258 0.00052
12.80 0.95254 0.00050	13.30 0.95355 0.00052	15.10 0.97724 0.00051
12.85 0.95679 0.00051	13.35 0.95568 0.00051	15.20 0.98383 0.00052
12.90 0.96035 0.00052	13.40 0.95826 0.00052	15.30 0.98953 0.00052
12.95 0.96350 0.00052	13.45 0.96246 0.00052	15.40 0.99521 0.00051
13.00 0.96729 0.00052	13.50 0.96604 0.00052	15.50 1.00132 0.00051
13.05 0.97013 0.00052	13.55 0.96982 0.00053	15.60 1.00716 0.00052
13.10 0.97351 0.00051	13.60 0.97218 0.00050	15.70 1.01141 0.00052

13.15 0.97739 0.00051	13.65 0.97654 0.00052	15.80 1.01823 0.00051
13.20 0.98051 0.00053	13.70 0.97819 0.00052	15.90 1.02410 0.00052
13.25 0.98382 0.00053	13.75 0.98145 0.00051	
13.30 0.98750 0.00051	13.80 0.98452 0.00053	
13.35 0.99095 0.00053	13.85 0.98761 0.00052	
13.40 0.99385 0.00051	13.90 0.99249 0.00052	
13.45 0.99768 0.00051	13.95 0.99434 0.00052	
13.50 0.99963 0.00052	14.00 0.99764 0.00051	
13.55 1.00336 0.00051	14.05 1.00119 0.00052	
13.60 1.00765 0.00052	14.10 1.00364 0.00051	
13.65 1.00964 0.00052	14.15 1.00749 0.00052	
13.70 1.01266 0.00051	14.20 1.00978 0.00050	
13.75 1.01707 0.00052	14.25 1.01277 0.00050	
13.80 1.01983 0.00052	14.30 1.01709 0.00051	
13.85 1.02277 0.00051	14.35 1.01981 0.00052	
13.90 1.02569 0.00052	14.40 1.02312 0.00053	

752	754	755
14.30 0.91790 0.00052	14.50 0.91614 0.00052	14.80 0.91844 0.00052
14.40 0.92356 0.00050	14.60 0.92194 0.00050	14.90 0.92467 0.00051
14.50 0.93066 0.00051	14.70 0.92876 0.00051	15.00 0.93035 0.00052
14.60 0.93700 0.00052	14.80 0.93364 0.00053	15.10 0.93600 0.00051
14.70 0.94331 0.00052	14.90 0.94035 0.00051	15.20 0.94324 0.00053
14.80 0.94903 0.00051	15.00 0.94705 0.00054	15.30 0.94851 0.00052
14.90 0.95570 0.00051	15.10 0.95319 0.00051	15.40 0.95464 0.00051
15.00 0.96177 0.00052	15.20 0.95840 0.00051	15.50 0.95974 0.00052
15.10 0.96650 0.00052	15.30 0.96507 0.00051	15.60 0.96609 0.00051
15.20 0.97346 0.00051	15.40 0.97044 0.00054	15.70 0.97166 0.00052
15.30 0.97860 0.00052	15.50 0.97676 0.00051	15.80 0.97798 0.00052
15.40 0.98474 0.00051	15.60 0.98179 0.00050	15.90 0.98313 0.00052
15.50 0.99145 0.00051	15.70 0.98811 0.00052	16.00 0.98920 0.00051
15.60 0.99513 0.00050	15.80 0.99377 0.00053	16.10 0.99408 0.00051
15.70 1.00217 0.00052	15.90 0.99968 0.00052	16.20 0.99940 0.00051
15.80 1.00699 0.00051	16.00 1.00398 0.00051	16.30 1.00573 0.00052
15.90 1.01333 0.00052	16.10 1.01037 0.00051	16.40 1.00970 0.00052
16.00 1.01902 0.00053	16.20 1.01681 0.00051	16.50 1.01614 0.00052
16.10 1.02472 0.00052	16.30 1.02119 0.00052	16.60 1.02208 0.00052

13.80 0.95754 0.00043	13.00 0.95825 0.00044	12.80 0.95972 0.00044
13.90 0.96272 0.00042	13.10 0.96378 0.00044	12.90 0.96659 0.00045
14.00 0.96840 0.00043	13.20 0.96973 0.00044	13.00 0.97156 0.00044
14.10 0.97194 0.00042	13.30 0.97513 0.00045	13.10 0.97658 0.00044
14.20 0.97700 0.00042	13.40 0.97925 0.00044	13.20 0.98212 0.00045
14.30 0.98135 0.00043	13.50 0.98503 0.00044	13.30 0.98721 0.00045
14.40 0.98500 0.00042	13.60 0.98881 0.00046	13.40 0.99214 0.00045
14.50 0.99075 0.00043	13.70 0.99403 0.00045	13.50 0.99794 0.00045
14.60 0.99455 0.00043	13.80 1.00021 0.00044	13.60 1.00358 0.00046
14.70 0.99909 0.00042	13.90 1.00547 0.00045	13.70 1.00746 0.00047
14.80 1.00385 0.00043	14.00 1.00897 0.00044	13.80 1.01233 0.00044
14.90 1.00773 0.00043	14.10 1.01411 0.00045	13.90 1.01752 0.00046
15.00 1.01092 0.00042	14.20 1.01835 0.00043	14.00 1.02194 0.00043
15.10 1.01604 0.00043		
15.20 1.01953 0.00043		

35	40	50
11.80 0.91957 0.00047	11.40 0.91625 0.00047	11.00 0.92041 0.00048
11.90 0.92530 0.00046	11.50 0.92230 0.00047	11.05 0.92335 0.00049
12.00 0.93164 0.00045	11.60 0.92845 0.00047	11.10 0.92687 0.00048
12.10 0.93654 0.00045	11.70 0.93504 0.00047	11.15 0.93032 0.00048
12.20 0.94303 0.00046	11.80 0.94157 0.00047	11.20 0.93510 0.00048
12.30 0.94898 0.00044	11.90 0.94749 0.00047	11.25 0.93748 0.00048
12.40 0.95583 0.00045	12.00 0.95416 0.00048	11.30 0.94043 0.00047
12.50 0.96131 0.00046	12.10 0.96017 0.00046	11.35 0.94314 0.00048
12.60 0.96616 0.00046	12.20 0.96607 0.00047	11.40 0.94691 0.00048
12.70 0.97258 0.00045	12.30 0.97185 0.00046	11.45 0.95082 0.00049
12.80 0.97719 0.00046	12.40 0.97759 0.00047	11.50 0.95390 0.00047
12.90 0.98249 0.00045	12.50 0.98367 0.00048	11.55 0.95807 0.00048
13.00 0.98763 0.00045	12.60 0.98955 0.00047	11.60 0.96031 0.00049
13.10 0.99427 0.00046	12.70 0.99538 0.00046	11.65 0.96333 0.00047
13.20 0.99953 0.00046	12.80 1.00010 0.00047	11.70 0.96681 0.00048
13.30 1.00493 0.00047	12.90 1.00649 0.00046	11.75 0.97044 0.00048
13.40 1.00975 0.00045	13.00 1.01214 0.00045	11.80 0.97331 0.00048
13.50 1.01510 0.00045	13.10 1.01898 0.00046	11.85 0.97733 0.00047
13.60 1.02052 0.00045	13.20 1.02315 0.00047	11.90 0.97896 0.00048
		11.95 0.98188 0.00048
		12.00 0.98557 0.00048
		12.05 0.98836 0.00047
		12.10 0.99150 0.00048
		12.15 0.99500 0.00048
		12.20 0.99776 0.00047
		12.25 1.00085 0.00048
		12.30 1.00497 0.00048
		12.35 1.00719 0.00050
		12.40 1.01018 0.00047
		12.45 1.01296 0.00048
		12.50 1.01662 0.00048
		12.55 1.01889 0.00048
		12.60 1.02229 0.00047

60	70	80
10.70 0.92026 0.00048	10.50 0.91878 0.00049	10.40 0.92016 0.00049
10.75 0.92380 0.00047	10.55 0.92190 0.00049	10.45 0.92546 0.00052
10.80 0.92686 0.00048	10.60 0.92498 0.00050	10.50 0.92775 0.00049
10.85 0.92920 0.00049	10.65 0.92984 0.00050	10.55 0.93292 0.00050
10.90 0.93348 0.00049	10.70 0.93324 0.00050	10.60 0.93562 0.00049
10.95 0.93773 0.00049	10.75 0.93601 0.00050	10.65 0.93985 0.00049
11.00 0.94061 0.00049	10.80 0.93923 0.00050	10.70 0.94226 0.00051
11.05 0.94391 0.00049	10.85 0.94363 0.00048	10.75 0.94601 0.00050
11.10 0.94743 0.00050	10.90 0.94702 0.00049	10.80 0.95015 0.00050
11.15 0.95037 0.00049	10.95 0.95141 0.00050	10.85 0.95414 0.00051
11.20 0.95487 0.00049	11.00 0.95446 0.00050	10.90 0.95740 0.00051
11.25 0.95733 0.00050	11.05 0.95772 0.00050	10.95 0.95989 0.00050
11.30 0.96101 0.00047	11.10 0.96119 0.00050	11.00 0.96486 0.00051
11.35 0.96420 0.00050	11.15 0.96437 0.00050	11.05 0.96789 0.00050
11.40 0.96777 0.00049	11.20 0.96760 0.00049	11.10 0.97174 0.00050
11.45 0.97170 0.00050	11.25 0.97239 0.00049	11.15 0.97588 0.00050
11.50 0.97455 0.00051	11.30 0.97521 0.00051	11.20 0.97772 0.00051
11.55 0.97858 0.00049	11.35 0.97754 0.00051	11.25 0.98198 0.00050
11.60 0.98133 0.00050	11.40 0.98091 0.00051	11.30 0.98628 0.00049
11.65 0.98519 0.00050	11.45 0.98533 0.00050	11.35 0.98933 0.00051
11.70 0.98764 0.00049	11.50 0.98805 0.00050	11.40 0.99269 0.00049
11.75 0.99073 0.00050	11.55 0.99211 0.00049	11.45 0.99553 0.00050
11.80 0.99444 0.00049	11.60 0.99604 0.00049	11.50 0.99870 0.00051
11.85 0.99770 0.00050	11.65 0.99788 0.00049	11.55 1.00307 0.00051
11.90 1.00119 0.00049	11.70 1.00109 0.00050	11.60 1.00573 0.00049
11.95 1.00296 0.00050	11.75 1.00458 0.00048	11.65 1.00954 0.00051
12.00 1.00677 0.00050	11.80 1.00873 0.00049	11.70 1.01254 0.00051
12.05 1.01003 0.00048	11.85 1.01160 0.00050	11.75 1.01599 0.00052
12.10 1.01379 0.00048	11.90 1.01455 0.00051	11.80 1.01927 0.00051
12.15 1.01646 0.00049	11.95 1.01845 0.00049	
12.20 1.01927 0.00047	12.00 1.02153 0.00050	

90	100	120
10.30 0.92117 0.00051	10.20 0.91844 0.00050	10.10 0.91893 0.00050
10.35 0.92456 0.00050	10.25 0.92267 0.00052	10.15 0.92283 0.00049
10.40 0.92946 0.00052	10.30 0.92628 0.00050	10.20 0.92594 0.00051
10.45 0.93255 0.00050	10.35 0.93110 0.00050	10.25 0.93009 0.00051
10.50 0.93591 0.00052	10.40 0.93473 0.00052	10.30 0.93407 0.00050
10.55 0.93960 0.00051	10.45 0.93915 0.00050	10.35 0.93853 0.00051
10.60 0.94268 0.00050	10.50 0.94203 0.00051	10.40 0.94176 0.00050
10.65 0.94626 0.00049	10.55 0.94575 0.00050	10.45 0.94422 0.00052
10.70 0.95213 0.00050	10.60 0.94981 0.00050	10.50 0.94963 0.00051
10.75 0.95361 0.00051	10.65 0.95325 0.00050	10.55 0.95302 0.00052
10.80 0.95824 0.00050	10.70 0.95720 0.00053	10.60 0.95580 0.00050
10.85 0.96069 0.00050	10.75 0.96031 0.00051	10.65 0.95932 0.00051
10.90 0.96573 0.00051	10.80 0.96410 0.00051	10.70 0.96510 0.00050

10.95 0.96920 0.00051	10.85 0.96816 0.00050	10.75 0.96786 0.00051
11.00 0.97291 0.00052	10.90 0.97142 0.00051	10.80 0.97056 0.00051
11.05 0.97543 0.00050	10.95 0.97400 0.00051	10.85 0.97540 0.00050
11.10 0.97970 0.00050	11.00 0.97859 0.00050	10.90 0.97799 0.00051
11.15 0.98341 0.00049	11.05 0.98214 0.00052	10.95 0.98061 0.00052
11.20 0.98551 0.00053	11.10 0.98502 0.00051	11.00 0.98470 0.00052
11.25 0.98957 0.00049	11.15 0.98932 0.00051	11.05 0.98873 0.00051
11.30 0.99453 0.00051	11.20 0.99196 0.00050	11.10 0.99264 0.00051
11.35 0.99663 0.00051	11.25 0.99496 0.00051	11.15 0.99585 0.00051
11.40 1.00007 0.00049	11.30 0.99902 0.00052	11.20 0.99982 0.00052
11.45 1.00446 0.00051	11.35 1.00195 0.00051	11.25 1.00356 0.00049
11.50 1.00688 0.00050	11.40 1.00587 0.00051	11.30 1.00674 0.00049
11.55 1.00970 0.00049	11.45 1.01004 0.00052	11.35 1.00901 0.00051
11.60 1.01412 0.00051	11.50 1.01325 0.00052	11.40 1.01278 0.00051
11.65 1.01710 0.00049	11.55 1.01547 0.00053	11.45 1.01645 0.00051
11.70 1.02067 0.00051	11.60 1.01942 0.00052	11.50 1.01968 0.00051

130	150	200
10.10 0.92302 0.00052	10.00 0.91749 0.00051	10.00 0.92203 0.00050
10.15 0.92576 0.00050	10.05 0.92095 0.00050	10.05 0.92551 0.00052
10.20 0.93008 0.00050	10.10 0.92486 0.00049	10.10 0.92854 0.00052
10.25 0.93394 0.00051	10.15 0.92982 0.00051	10.15 0.93400 0.00052
10.30 0.93779 0.00052	10.20 0.93411 0.00051	10.20 0.93724 0.00051
10.35 0.94086 0.00051	10.25 0.93737 0.00051	10.25 0.94106 0.00051
10.40 0.94550 0.00052	10.30 0.94149 0.00052	10.30 0.94494 0.00051
10.45 0.94926 0.00051	10.35 0.94450 0.00052	10.35 0.94937 0.00051
10.50 0.95230 0.00051	10.40 0.94824 0.00050	10.40 0.95288 0.00051
10.55 0.95572 0.00052	10.45 0.95109 0.00051	10.45 0.95617 0.00051
10.60 0.96050 0.00051	10.50 0.95501 0.00052	10.50 0.95967 0.00051
10.65 0.96391 0.00051	10.55 0.95904 0.00052	10.55 0.96379 0.00053
10.70 0.96779 0.00052	10.60 0.96270 0.00051	10.60 0.96754 0.00051
10.75 0.97140 0.00053	10.65 0.96693 0.00052	10.65 0.97134 0.00050
10.80 0.97446 0.00051	10.70 0.96936 0.00052	10.70 0.97403 0.00052
10.85 0.97820 0.00051	10.75 0.97491 0.00052	10.75 0.97821 0.00051
10.90 0.98176 0.00052	10.80 0.97732 0.00051	10.80 0.98175 0.00052
10.95 0.98541 0.00051	10.85 0.98139 0.00051	10.85 0.98531 0.00052
11.00 0.98804 0.00052	10.90 0.98511 0.00051	10.90 0.98740 0.00053
11.05 0.99220 0.00051	10.95 0.98931 0.00050	10.95 0.99241 0.00052
11.10 0.99656 0.00052	11.00 0.99281 0.00051	11.00 0.99667 0.00051
11.15 1.00065 0.00051	11.05 0.99578 0.00052	11.05 0.99967 0.00050
11.20 1.00318 0.00051	11.10 0.99875 0.00052	11.10 1.00357 0.00050
11.25 1.00634 0.00050	11.15 1.00260 0.00051	11.15 1.00633 0.00050
11.30 1.00955 0.00051	11.20 1.00668 0.00051	11.20 1.00880 0.00052
11.35 1.01327 0.00051	11.25 1.00994 0.00051	11.25 1.01305 0.00052
11.40 1.01715 0.00052	11.30 1.01277 0.00051	11.30 1.01633 0.00051
11.45 1.02025 0.00052	11.35 1.01620 0.00053	11.35 1.02049 0.00051
11.50 1.02352 0.00051	11.40 1.01881 0.00051	11.40 1.02285 0.00052

239	250	359
10.00 0.92277 0.00051	10.00 0.92213 0.00052	10.00 0.91608 0.00050
10.05 0.92675 0.00051	10.05 0.92644 0.00051	10.05 0.92130 0.00051
10.10 0.93010 0.00051	10.10 0.92911 0.00050	10.10 0.92494 0.00051
10.15 0.93328 0.00050	10.15 0.93332 0.00051	10.15 0.92879 0.00051
10.20 0.93834 0.00051	10.20 0.93726 0.00053	10.20 0.93249 0.00050
10.25 0.94065 0.00050	10.25 0.94160 0.00052	10.25 0.93617 0.00052
10.30 0.94599 0.00051	10.30 0.94406 0.00051	10.30 0.93957 0.00049
10.35 0.94889 0.00052	10.35 0.94829 0.00054	10.35 0.94401 0.00052
10.40 0.95303 0.00050	10.40 0.95252 0.00052	10.40 0.94887 0.00051
10.45 0.95696 0.00052	10.45 0.95562 0.00051	10.45 0.95116 0.00051
10.50 0.95938 0.00051	10.50 0.95879 0.00052	10.50 0.95558 0.00049
10.55 0.96423 0.00051	10.55 0.96350 0.00051	10.55 0.95949 0.00052
10.60 0.96785 0.00052	10.60 0.96692 0.00052	10.60 0.96310 0.00051
10.65 0.97152 0.00052	10.65 0.97151 0.00052	10.65 0.96624 0.00049
10.70 0.97470 0.00051	10.70 0.97457 0.00049	10.70 0.97017 0.00050
10.75 0.97916 0.00052	10.75 0.97816 0.00050	10.75 0.97433 0.00052
10.80 0.98256 0.00051	10.80 0.98096 0.00052	10.80 0.97622 0.00053
10.85 0.98537 0.00051	10.85 0.98549 0.00053	10.85 0.98122 0.00051
10.90 0.98855 0.00052	10.90 0.98916 0.00051	10.90 0.98544 0.00051
10.95 0.99305 0.00051	10.95 0.99289 0.00052	10.95 0.98708 0.00051
11.00 0.99629 0.00050	11.00 0.99637 0.00051	11.00 0.99135 0.00052
11.05 1.00064 0.00051	11.05 0.99922 0.00051	11.05 0.99482 0.00050
11.10 1.00305 0.00052	11.10 1.00329 0.00051	11.10 0.99781 0.00050
11.15 1.00715 0.00052	11.15 1.00672 0.00052	11.15 1.00243 0.00052
11.20 1.00946 0.00052	11.20 1.00913 0.00051	11.20 1.00489 0.00053
11.25 1.01224 0.00051	11.25 1.01209 0.00052	11.25 1.00920 0.00050
11.30 1.01675 0.00051	11.30 1.01665 0.00052	11.30 1.01225 0.00051
11.35 1.02013 0.00051	11.35 1.02038 0.00050	11.35 1.01569 0.00052
11.40 1.02450 0.00051	11.40 1.02310 0.00051	11.40 1.01800 0.00050
		11.45 1.02180 0.00051
		11.50 1.02470 0.00050

478	500	600
10.20 0.92208 0.00050	10.20 0.91881 0.00050	10.50 0.91980 0.00051
10.25 0.92565 0.00051	10.25 0.92349 0.00051	10.55 0.92320 0.00051
10.30 0.93004 0.00051	10.30 0.92764 0.00052	10.60 0.92739 0.00051
10.35 0.93416 0.00050	10.35 0.93161 0.00053	10.65 0.93075 0.00052
10.40 0.93685 0.00050	10.40 0.93404 0.00051	10.70 0.93394 0.00052
10.45 0.94128 0.00051	10.45 0.93929 0.00052	10.75 0.93941 0.00053
10.50 0.94479 0.00051	10.50 0.94093 0.00051	10.80 0.94315 0.00051
10.55 0.94883 0.00050	10.55 0.94557 0.00052	10.85 0.94493 0.00052
10.60 0.95289 0.00050	10.60 0.95017 0.00052	10.90 0.94855 0.00051
10.65 0.95496 0.00051	10.65 0.95345 0.00051	10.95 0.95307 0.00051
10.70 0.95994 0.00050	10.70 0.95647 0.00052	11.00 0.95665 0.00052
10.75 0.96270 0.00050	10.75 0.96091 0.00051	11.05 0.95981 0.00050
10.80 0.96750 0.00054	10.80 0.96392 0.00051	11.10 0.96309 0.00051
10.85 0.97042 0.00052	10.85 0.96707 0.00050	11.15 0.96674 0.00052

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10.90 0.97460 0.00051	10.90 0.96978 0.00051	11.25 0.97368 0.00050
10.95 0.97734 0.00051	10.95 0.97385 0.00052	11.30 0.97758 0.00050
11.00 0.98134 0.00051	11.00 0.97731 0.00051	11.35 0.98073 0.00050
11.05 0.98530 0.00051	11.05 0.98153 0.00053	11.40 0.98381 0.00050
11.10 0.98848 0.00050	11.10 0.98570 0.00051	11.45 0.98738 0.00051
11.15 0.99207 0.00052	11.15 0.98865 0.00051	11.50 0.99068 0.00051
11.20 0.99461 0.00052	11.20 0.99288 0.00051	11.55 0.99433 0.00049
11.30 1.00185 0.00051	11.25 0.99531 0.00052	11.60 0.99785 0.00050
11.35 1.00585 0.00051	11.30 0.99951 0.00050	11.65 0.99970 0.00053
11.40 1.00918 0.00052	11.35 1.00269 0.00052	11.70 1.00458 0.00051
11.45 1.01247 0.00050	11.40 1.00480 0.00051	11.75 1.00672 0.00050
11.50 1.01559 0.00051	11.45 1.00878 0.00051	11.80 1.01119 0.00050
11.55 1.01884 0.00051	11.50 1.01258 0.00051	11.85 1.01369 0.00053
11.60 1.02135 0.00050	11.55 1.01543 0.00053	11.90 1.01775 0.00050
	11.60 1.01889 0.00053	11.95 1.01927 0.00050
	11.65 1.02296 0.00050	12.00 1.02297 0.00052
	11.70 1.02458 0.00051	

650	700	750
10.70 0.91698 0.00050	11.20 0.92253 0.00050	12.30 0.91960 0.00051
10.75 0.92095 0.00051	11.25 0.92509 0.00051	12.35 0.92220 0.00052
10.80 0.92386 0.00050	11.30 0.92825 0.00051	12.40 0.92556 0.00050
10.85 0.92818 0.00051	11.35 0.93249 0.00050	12.45 0.92878 0.00051
10.90 0.93124 0.00051	11.40 0.93580 0.00051	12.50 0.93236 0.00050
10.95 0.93480 0.00052	11.45 0.93982 0.00049	12.55 0.93548 0.00049
11.00 0.93836 0.00051	11.50 0.94299 0.00050	12.60 0.93739 0.00050
11.05 0.94264 0.00051	11.55 0.94480 0.00051	12.65 0.94179 0.00052
11.10 0.94511 0.00051	11.60 0.94954 0.00053	12.70 0.94412 0.00049
11.15 0.94847 0.00050	11.65 0.95352 0.00052	12.75 0.94725 0.00050
11.20 0.95258 0.00051	11.70 0.95599 0.00050	12.80 0.95010 0.00048
11.25 0.95670 0.00050	11.75 0.96097 0.00050	12.85 0.95345 0.00052
11.30 0.95957 0.00051	11.80 0.96248 0.00052	12.90 0.95648 0.00050
11.35 0.96336 0.00051	11.85 0.96629 0.00049	12.95 0.95877 0.00050
11.40 0.96714 0.00053	11.90 0.96900 0.00051	13.00 0.96313 0.00051
11.45 0.97037 0.00051	11.95 0.97268 0.00051	13.05 0.96667 0.00051
11.50 0.97253 0.00050	12.00 0.97549 0.00052	13.10 0.96903 0.00051
11.55 0.97680 0.00051	12.05 0.97942 0.00052	13.15 0.97117 0.00051
11.60 0.98024 0.00051	12.10 0.98165 0.00050	13.20 0.97406 0.00051
11.65 0.98401 0.00051	12.15 0.98563 0.00051	13.25 0.97699 0.00051
11.70 0.98582 0.00050	12.20 0.98829 0.00052	13.30 0.97985 0.00050
11.75 0.98962 0.00051	12.25 0.99196 0.00052	13.35 0.98324 0.00050
11.80 0.99316 0.00049	12.30 0.99376 0.00052	13.40 0.98519 0.00052
11.85 0.99640 0.00051	12.35 0.99786 0.00053	13.45 0.98775 0.00050
11.90 1.00056 0.00051	12.40 1.00195 0.00052	13.50 0.99211 0.00051
11.95 1.00357 0.00052	12.45 1.00394 0.00051	13.55 0.99439 0.00052
12.00 1.00675 0.00051	12.50 1.00744 0.00050	13.60 0.99751 0.00050
12.05 1.00924 0.00051	12.55 1.01125 0.00051	13.65 1.00025 0.00051
12.10 1.01186 0.00052	12.60 1.01331 0.00051	13.70 1.00388 0.00051
12.15 1.01642 0.00051	12.65 1.01710 0.00051	13.75 1.00557 0.00051

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12.20 1.01915 0.00051	12.70 1.01977 0.00051	13.80 1.00976 0.00052
12.25 1.02215 0.00051		13.85 1.01289 0.00051
12.30 1.02506 0.00050		13.90 1.01429 0.00050
		13.95 1.01662 0.00052
		14.00 1.02095 0.00050

752	754	755
12.40 0.91627 0.00050	12.70 0.92206 0.00051	12.90 0.92179 0.00052
12.50 0.92323 0.00049	12.75 0.92647 0.00050	13.00 0.92755 0.00050
12.60 0.92931 0.00051	12.80 0.92832 0.00051	13.10 0.93286 0.00051
12.70 0.93446 0.00051	12.85 0.93221 0.00051	13.20 0.93915 0.00052
12.80 0.94139 0.00050	12.90 0.93482 0.00052	13.30 0.94567 0.00050
12.90 0.94808 0.00051	12.95 0.93855 0.00051	13.40 0.95101 0.00051
13.00 0.95326 0.00049	13.00 0.94208 0.00051	13.50 0.95530 0.00052
13.10 0.95941 0.00051	13.05 0.94395 0.00051	13.60 0.96174 0.00051
13.20 0.96517 0.00050	13.10 0.94770 0.00051	13.70 0.96780 0.00049
13.30 0.97173 0.00050	13.15 0.95094 0.00051	13.80 0.97344 0.00049
13.40 0.97714 0.00050	13.20 0.95269 0.00051	13.90 0.97882 0.00049
13.50 0.98317 0.00051	13.25 0.95592 0.00051	14.00 0.98505 0.00050
13.60 0.98873 0.00052	13.30 0.95896 0.00051	14.10 0.99015 0.00051
13.70 0.99478 0.00051	13.35 0.96165 0.00050	14.20 0.99562 0.00050
13.80 0.99980 0.00051	13.40 0.96473 0.00049	14.30 1.00224 0.00051
13.90 1.00639 0.00050	13.45 0.96772 0.00050	14.40 1.00644 0.00050
14.00 1.01141 0.00051	13.50 0.97030 0.00052	14.50 1.01233 0.00051
14.10 1.01695 0.00052	13.55 0.97395 0.00051	14.60 1.01824 0.00053
14.20 1.02155 0.00051	13.60 0.97604 0.00052	14.70 1.02299 0.00052
	13.65 0.97849 0.00051	
	13.70 0.98185 0.00050	
	13.75 0.98545 0.00051	
	13.80 0.98809 0.00053	
	13.85 0.99052 0.00053	
	13.90 0.99351 0.00052	
	13.95 0.99610 0.00052	
	14.00 0.99909 0.00051	
	14.05 1.00107 0.00051	
	14.10 1.00427 0.00052	
	14.15 1.00799 0.00052	
	14.20 1.00890 0.00051	
	14.25 1.01279 0.00050	
	14.30 1.01531 0.00049	
	14.35 1.01722 0.00051	
	14.40 1.02106 0.00052	

12.80 0.96441 0.00040	12.10 0.97136 0.00041	11.90 0.97422 0.00042
12.90 0.96998 0.00040	12.20 0.97640 0.00042	12.00 0.97984 0.00041
13.00 0.97299 0.00041	12.30 0.98135 0.00042	12.10 0.98498 0.00041
13.10 0.97802 0.00039	12.40 0.98708 0.00040	12.20 0.99000 0.00042
13.20 0.98246 0.00039	12.50 0.99245 0.00040	12.30 0.99477 0.00042
13.30 0.98760 0.00040	12.60 0.99690 0.00040	12.40 1.00127 0.00044
13.40 0.99129 0.00040	12.70 1.00153 0.00041	12.50 1.00620 0.00042
13.50 0.99687 0.00040	12.80 1.00670 0.00041	12.60 1.01090 0.00041
13.60 1.00086 0.00040	12.90 1.01169 0.00041	12.70 1.01616 0.00042
13.70 1.00431 0.00039	13.00 1.01644 0.00042	12.80 1.02013 0.00041
13.80 1.00852 0.00039	13.10 1.02103 0.00041	
13.90 1.01355 0.00040		
14.00 1.01726 0.00041		

35	40	50
10.70 0.92097 0.00044	10.30 0.91931 0.00042	9.80 0.91824 0.00044
10.75 0.92439 0.00042	10.35 0.92259 0.00043	9.85 0.92342 0.00045
10.80 0.92797 0.00041	10.40 0.92600 0.00043	9.90 0.92501 0.00044
10.85 0.93091 0.00042	10.45 0.92840 0.00043	9.95 0.92929 0.00045
10.90 0.93375 0.00042	10.50 0.93265 0.00042	10.00 0.93275 0.00045
10.95 0.93608 0.00043	10.55 0.93539 0.00042	10.05 0.93594 0.00045
11.00 0.93939 0.00043	10.60 0.93910 0.00044	10.10 0.93994 0.00044
11.05 0.94326 0.00043	10.65 0.94174 0.00043	10.15 0.94315 0.00044
11.10 0.94634 0.00043	10.70 0.94497 0.00042	10.20 0.94635 0.00045
11.15 0.94900 0.00043	10.75 0.94894 0.00044	10.25 0.94953 0.00045
11.20 0.95209 0.00042	10.80 0.95028 0.00043	10.30 0.95307 0.00044
11.25 0.95475 0.00042	10.85 0.95511 0.00043	10.35 0.95696 0.00044
11.30 0.95822 0.00043	10.90 0.95780 0.00043	10.40 0.96071 0.00045
11.35 0.96109 0.00043	10.95 0.96100 0.00044	10.45 0.96319 0.00045
11.40 0.96437 0.00042	11.00 0.96544 0.00042	10.50 0.96636 0.00045
11.45 0.96724 0.00043	11.05 0.96737 0.00044	10.55 0.96985 0.00046
11.50 0.96916 0.00043	11.10 0.97039 0.00044	10.60 0.97392 0.00045
11.55 0.97269 0.00042	11.15 0.97311 0.00044	10.65 0.97711 0.00046
11.60 0.97463 0.00044	11.20 0.97618 0.00044	10.70 0.97949 0.00046
11.65 0.97698 0.00042	11.25 0.97834 0.00044	10.75 0.98346 0.00043
11.70 0.98046 0.00044	11.30 0.98259 0.00043	10.80 0.98548 0.00045
11.75 0.98301 0.00041	11.35 0.98626 0.00042	10.85 0.98842 0.00044
11.80 0.98651 0.00043	11.40 0.98818 0.00043	10.90 0.99213 0.00045
11.85 0.98963 0.00042	11.45 0.99039 0.00044	10.95 0.99567 0.00045
11.90 0.99256 0.00042	11.50 0.99376 0.00044	11.00 0.99907 0.00046
11.95 0.99507 0.00042	11.55 0.99667 0.00043	11.05 1.00133 0.00046
12.00 0.99797 0.00041	11.60 0.99938 0.00045	11.10 1.00400 0.00045
12.05 1.00054 0.00042	11.65 1.00366 0.00043	11.15 1.00726 0.00045
12.10 1.00237 0.00042	11.70 1.00561 0.00043	11.20 1.01051 0.00044
12.15 1.00522 0.00042	11.75 1.00827 0.00043	11.25 1.01519 0.00045
12.20 1.00846 0.00044	11.80 1.01189 0.00044	11.30 1.01722 0.00045
12.25 1.01107 0.00043	11.85 1.01375 0.00044	11.35 1.02024 0.00045
12.30 1.01445 0.00043	11.90 1.01609 0.00043	11.40 1.02274 0.00044
12.35 1.01580 0.00043	11.95 1.01968 0.00043	
12.40 1.01796 0.00042	12.00 1.02260 0.00044	

60	70	80
9.50 0.91921 0.00045	9.30 0.92074 0.00046	9.10 0.91645 0.00046
9.55 0.92378 0.00046	9.35 0.92334 0.00045	9.15 0.92015 0.00045
9.60 0.92671 0.00045	9.40 0.92798 0.00045	9.20 0.92499 0.00047
9.65 0.93048 0.00046	9.45 0.93154 0.00047	9.25 0.92849 0.00047
9.70 0.93389 0.00045	9.50 0.93471 0.00047	9.30 0.93234 0.00047
9.75 0.93872 0.00045	9.55 0.93837 0.00047	9.35 0.93573 0.00047
9.80 0.94141 0.00045	9.60 0.94197 0.00047	9.40 0.93925 0.00046
9.85 0.94517 0.00045	9.65 0.94637 0.00047	9.45 0.94349 0.00046
9.90 0.94843 0.00045	9.70 0.94937 0.00046	9.50 0.94647 0.00048
9.95 0.95345 0.00046	9.75 0.95384 0.00046	9.55 0.95071 0.00046
10.00 0.95638 0.00047	9.80 0.95655 0.00046	9.60 0.95422 0.00046
10.10 0.96276 0.00046	9.85 0.96088 0.00046	9.65 0.95850 0.00046
10.15 0.96676 0.00046	9.90 0.96389 0.00046	9.70 0.96215 0.00046
10.20 0.97001 0.00046	9.95 0.96903 0.00045	9.75 0.96552 0.00046
10.25 0.97364 0.00045	10.00 0.97147 0.00047	9.80 0.96947 0.00047
10.30 0.97741 0.00046	10.05 0.97555 0.00046	9.85 0.97268 0.00046
10.35 0.97925 0.00046	10.10 0.97866 0.00046	9.90 0.97689 0.00046
10.40 0.98346 0.00047	10.15 0.98234 0.00046	9.95 0.98025 0.00046
10.45 0.98704 0.00046	10.20 0.98471 0.00047	10.00 0.98316 0.00047
10.50 0.98954 0.00046	10.25 0.98933 0.00044	10.05 0.98634 0.00047
10.55 0.99252 0.00046	10.30 0.99226 0.00046	10.10 0.98957 0.00047
10.60 0.99649 0.00045	10.35 0.99578 0.00047	10.15 0.99396 0.00046
10.65 1.00047 0.00045	10.40 0.99882 0.00047	10.20 0.99669 0.00046
10.70 1.00284 0.00045	10.45 1.00252 0.00048	10.25 1.00172 0.00048
10.75 1.00754 0.00046	10.50 1.00674 0.00047	10.30 1.00415 0.00048
10.80 1.01034 0.00046	10.55 1.00900 0.00045	10.35 1.00754 0.00047
10.85 1.01222 0.00046	10.60 1.01160 0.00047	10.40 1.01186 0.00047
10.90 1.01480 0.00045	10.65 1.01575 0.00046	10.45 1.01371 0.00046
10.95 1.01964 0.00045	10.70 1.01829 0.00046	10.50 1.01801 0.00047
11.00 1.02159 0.00045		10.55 1.02105 0.00045
		10.60 1.02463 0.00047
90	100	120
9.00 0.91762 0.00046	8.90 0.91707 0.00046	8.80 0.91887 0.00048
9.05 0.92233 0.00047	8.95 0.92157 0.00047	8.85 0.92254 0.00047
9.10 0.92530 0.00046	9.00 0.92478 0.00046	8.90 0.92725 0.00047
9.15 0.93002 0.00047	9.05 0.92878 0.00047	8.95 0.93067 0.00047
9.20 0.93312 0.00047	9.10 0.93263 0.00046	9.00 0.93441 0.00047
9.25 0.93685 0.00047	9.15 0.93600 0.00047	9.05 0.93782 0.00046
9.30 0.94076 0.00047	9.20 0.94060 0.00046	9.10 0.94255 0.00048
9.35 0.94519 0.00046	9.25 0.94467 0.00047	9.15 0.94628 0.00046
9.40 0.94894 0.00046	9.30 0.94866 0.00046	9.20 0.95048 0.00047
9.45 0.95251 0.00047	9.35 0.95262 0.00047	9.25 0.95392 0.00046
9.50 0.95627 0.00048	9.40 0.95653 0.00047	9.30 0.95713 0.00047
9.55 0.96042 0.00046	9.45 0.95929 0.00045	9.35 0.96128 0.00047
9.60 0.96369 0.00047	9.50 0.96321 0.00047	9.45 0.96950 0.00047

9.65 0.96684 0.00047	9.55 0.96647 0.00048	9.50 0.97279 0.00047
9.70 0.97110 0.00046	9.60 0.97061 0.00046	9.55 0.97613 0.00048
9.75 0.97509 0.00046	9.65 0.97496 0.00047	9.60 0.98057 0.00048
9.80 0.97794 0.00046	9.70 0.97792 0.00047	9.65 0.98378 0.00046
9.85 0.98136 0.00046	9.75 0.98206 0.00049	9.70 0.98673 0.00047
9.90 0.98518 0.00048	9.80 0.98523 0.00047	9.75 0.99137 0.00047
9.95 0.98858 0.00046	9.85 0.98886 0.00047	9.80 0.99457 0.00047
10.00 0.99318 0.00048	9.90 0.99273 0.00047	9.85 0.99898 0.00046
10.05 0.99580 0.00048	9.95 0.99497 0.00046	9.90 1.00158 0.00047
10.10 0.99959 0.00046	10.00 1.00015 0.00047	9.95 1.00491 0.00048
10.15 1.00209 0.00047	10.05 1.00268 0.00046	10.00 1.00818 0.00047
10.20 1.00659 0.00048	10.10 1.00628 0.00048	10.05 1.01289 0.00047
10.25 1.00988 0.00046	10.15 1.01012 0.00046	10.10 1.01546 0.00046
10.30 1.01339 0.00047	10.20 1.01320 0.00049	10.15 1.01959 0.00046
10.35 1.01712 0.00045	10.25 1.01642 0.00047	10.20 1.02203 0.00048
10.40 1.01990 0.00047	10.30 1.02063 0.00046	

130	150	200
8.80 0.92302 0.00048	8.70 0.91923 0.00047	8.60 0.92004 0.00047
8.85 0.92719 0.00047	8.75 0.92399 0.00048	8.65 0.92364 0.00047
8.90 0.93015 0.00047	8.80 0.92790 0.00046	8.70 0.92732 0.00047
8.95 0.93522 0.00047	8.85 0.93177 0.00046	8.75 0.93134 0.00047
9.00 0.93881 0.00046	8.90 0.93532 0.00048	8.80 0.93504 0.00047
9.05 0.94302 0.00046	8.95 0.94026 0.00048	8.85 0.93883 0.00048
9.10 0.94679 0.00048	9.00 0.94395 0.00047	8.90 0.94346 0.00048
9.15 0.94969 0.00047	9.05 0.94775 0.00047	8.95 0.94651 0.00048
9.20 0.95419 0.00048	9.10 0.95153 0.00049	9.00 0.95086 0.00047
9.25 0.95854 0.00047	9.15 0.95549 0.00048	9.05 0.95500 0.00047
9.30 0.96180 0.00047	9.20 0.96020 0.00047	9.10 0.95849 0.00047
9.35 0.96584 0.00047	9.25 0.96362 0.00047	9.15 0.96257 0.00048
9.40 0.96901 0.00047	9.30 0.96653 0.00047	9.20 0.96617 0.00047
9.45 0.97342 0.00047	9.35 0.97092 0.00048	9.25 0.96931 0.00048
9.50 0.97653 0.00047	9.40 0.97414 0.00047	9.30 0.97421 0.00048
9.55 0.98079 0.00047	9.45 0.97807 0.00047	9.35 0.97765 0.00048
9.60 0.98455 0.00049	9.50 0.98180 0.00048	9.40 0.98213 0.00047
9.65 0.98775 0.00047	9.55 0.98564 0.00048	9.45 0.98542 0.00048
9.70 0.99229 0.00047	9.60 0.98888 0.00049	9.50 0.98897 0.00045
9.75 0.99527 0.00046	9.65 0.99349 0.00048	9.55 0.99204 0.00047
9.80 0.99845 0.00047	9.70 0.99622 0.00047	9.60 0.99662 0.00048
9.85 1.00171 0.00048	9.75 1.00044 0.00047	9.65 0.99905 0.00047
9.90 1.00606 0.00047	9.80 1.00268 0.00047	9.70 1.00278 0.00046
9.95 1.00918 0.00048	9.85 1.00753 0.00048	9.75 1.00691 0.00047
10.00 1.01272 0.00047	9.90 1.01007 0.00048	9.80 1.01053 0.00047
10.05 1.01667 0.00048	9.95 1.01480 0.00047	9.85 1.01391 0.00048
10.10 1.01954 0.00048	10.00 1.01754 0.00045	9.90 1.01717 0.00047
	10.05 1.02146 0.00048	9.95 1.02142 0.00047
	10.10 1.02539 0.00048	10.00 1.02518 0.00049

239	250	359
8.60 0.92187 0.00047	8.60 0.92257 0.00050	8.60 0.92063 0.00046
8.65 0.92558 0.00047	8.65 0.92652 0.00047	8.65 0.92581 0.00048
8.70 0.93027 0.00047	8.70 0.92929 0.00048	8.70 0.92940 0.00048
8.75 0.93302 0.00049	8.75 0.93373 0.00047	8.75 0.93245 0.00048
8.80 0.93786 0.00047	8.80 0.93740 0.00047	8.80 0.93704 0.00047
8.85 0.94021 0.00047	8.85 0.94187 0.00047	8.85 0.94115 0.00049
8.90 0.94509 0.00048	8.90 0.94515 0.00047	8.90 0.94410 0.00047
8.95 0.94906 0.00048	8.95 0.95028 0.00048	8.95 0.94819 0.00048
9.00 0.95259 0.00046	9.00 0.95385 0.00048	9.00 0.95190 0.00046
9.05 0.95724 0.00046	9.05 0.95763 0.00047	9.05 0.95597 0.00047
9.10 0.96170 0.00046	9.10 0.96122 0.00048	9.10 0.95992 0.00047
9.15 0.96469 0.00047	9.15 0.96548 0.00046	9.15 0.96263 0.00046
9.20 0.96787 0.00048	9.20 0.96829 0.00047	9.20 0.96703 0.00047
9.25 0.97251 0.00049	9.25 0.97214 0.00049	9.25 0.97132 0.00047
9.30 0.97648 0.00048	9.30 0.97604 0.00048	9.30 0.97505 0.00045
9.35 0.97969 0.00047	9.35 0.98089 0.00047	9.35 0.97844 0.00047
9.40 0.98304 0.00048	9.40 0.98367 0.00048	9.40 0.98263 0.00049
9.45 0.98768 0.00048	9.45 0.98684 0.00048	9.45 0.98528 0.00048
9.50 0.99082 0.00046	9.50 0.99046 0.00047	9.50 0.98867 0.00047
9.55 0.99441 0.00047	9.55 0.99407 0.00049	9.55 0.99281 0.00048
9.60 0.99813 0.00048	9.60 0.99856 0.00048	9.60 0.99590 0.00047
9.65 1.00089 0.00047	9.65 1.00152 0.00048	9.65 1.00082 0.00049
9.70 1.00572 0.00047	9.70 1.00520 0.00048	9.70 1.00433 0.00049
9.75 1.00937 0.00048	9.75 1.00991 0.00046	9.75 1.00682 0.00048
9.80 1.01209 0.00048	9.80 1.01212 0.00047	9.80 1.01071 0.00048
9.85 1.01570 0.00047	9.85 1.01588 0.00048	9.85 1.01433 0.00047
9.90 1.01820 0.00048	9.90 1.01893 0.00047	9.90 1.01703 0.00047
478	500	600
8.70 0.92215 0.00047	8.70 0.91872 0.00046	8.90 0.91905 0.00046
8.75 0.92594 0.00048	8.75 0.92405 0.00047	8.95 0.92106 0.00046
8.80 0.92963 0.00047	8.80 0.92678 0.00048	9.00 0.92612 0.00048
8.85 0.93339 0.00047	8.85 0.93104 0.00048	9.05 0.92994 0.00047
8.90 0.93738 0.00046	8.90 0.93497 0.00047	9.10 0.93385 0.00047
8.95 0.94128 0.00047	8.95 0.93908 0.00049	9.15 0.93692 0.00047
9.00 0.94393 0.00048	9.00 0.94251 0.00047	9.20 0.94139 0.00048
9.05 0.94873 0.00048	9.05 0.94613 0.00046	9.25 0.94454 0.00047
9.10 0.95260 0.00047	9.10 0.95006 0.00048	9.30 0.94810 0.00048
9.15 0.95663 0.00047	9.15 0.95467 0.00047	9.35 0.95228 0.00049
9.20 0.96041 0.00048	9.20 0.95837 0.00048	9.40 0.95494 0.00047
9.25 0.96297 0.00049	9.25 0.96093 0.00048	9.45 0.95970 0.00048
9.30 0.96717 0.00047	9.30 0.96519 0.00048	9.50 0.96219 0.00047
9.35 0.97116 0.00049	9.35 0.96915 0.00047	9.55 0.96690 0.00047
9.40 0.97501 0.00048	9.40 0.97274 0.00048	9.60 0.97007 0.00047
9.45 0.97821 0.00047	9.45 0.97646 0.00047	9.65 0.97368 0.00047
9.50 0.98214 0.00047	9.50 0.98010 0.00048	9.70 0.97653 0.00047
9.55 0.98482 0.00047	9.55 0.98320 0.00048	9.75 0.97969 0.00048

9.60 0.98932 0.00047	9.65 0.98973 0.00048	9.80 0.98300 0.00047
9.65 0.99281 0.00047	9.70 0.99366 0.00048	9.85 0.98752 0.00049
9.70 0.99631 0.00047	9.75 0.99777 0.00048	9.90 0.99053 0.00047
9.75 0.99944 0.00050	9.80 1.00181 0.00047	10.05 1.00126 0.00048
9.80 1.00357 0.00049	9.85 1.00506 0.00047	10.10 1.00474 0.00047
9.85 1.00678 0.00048	9.90 1.00809 0.00046	10.15 1.00713 0.00047
9.90 1.01021 0.00049	9.95 1.01080 0.00048	10.20 1.01146 0.00047
9.95 1.01277 0.00048	10.00 1.01437 0.00048	10.25 1.01470 0.00048
10.00 1.01700 0.00048	10.05 1.01906 0.00047	10.30 1.01796 0.00047
10.05 1.02033 0.00049	10.10 1.02123 0.00048	10.35 1.02037 0.00047
10.10 1.02301 0.00049		10.40 1.02401 0.00047

650	700	750
9.10 0.91934 0.00048	9.40 0.91890 0.00046	10.30 0.92152 0.00046
9.15 0.92277 0.00047	9.45 0.92169 0.00048	10.35 0.92454 0.00046
9.20 0.92709 0.00048	9.50 0.92534 0.00047	10.40 0.92762 0.00046
9.25 0.93104 0.00048	9.55 0.92855 0.00047	10.45 0.93063 0.00047
9.30 0.93461 0.00047	9.60 0.93213 0.00048	10.50 0.93422 0.00047
9.35 0.93822 0.00049	9.65 0.93656 0.00046	10.55 0.93722 0.00047
9.40 0.94163 0.00048	9.70 0.93978 0.00047	10.60 0.94050 0.00047
9.45 0.94550 0.00048	9.75 0.94294 0.00047	10.65 0.94345 0.00048
9.50 0.94903 0.00048	9.80 0.94655 0.00047	10.70 0.94651 0.00047
9.55 0.95168 0.00049	9.85 0.94950 0.00049	10.90 0.95906 0.00048
9.60 0.95520 0.00046	9.90 0.95309 0.00047	10.95 0.96089 0.00048
9.65 0.95968 0.00048	9.95 0.95737 0.00047	11.00 0.96557 0.00047
9.70 0.96285 0.00047	10.00 0.95912 0.00048	11.05 0.96867 0.00047
9.75 0.96649 0.00047	10.05 0.96281 0.00047	11.10 0.97086 0.00047
9.80 0.96916 0.00047	10.10 0.96719 0.00047	11.15 0.97365 0.00046
9.85 0.97320 0.00048	10.15 0.96964 0.00048	11.20 0.97786 0.00048
9.90 0.97598 0.00048	10.20 0.97252 0.00048	11.25 0.97984 0.00047
9.95 0.97966 0.00048	10.25 0.97556 0.00047	11.30 0.98254 0.00047
10.00 0.98416 0.00048	10.30 0.97960 0.00048	11.35 0.98509 0.00047
10.05 0.98590 0.00048	10.35 0.98304 0.00047	11.40 0.98911 0.00047
10.10 0.99000 0.00047	10.40 0.98583 0.00048	11.45 0.99141 0.00049
10.15 0.99259 0.00049	10.60 0.99897 0.00049	11.50 0.99451 0.00048
10.20 0.99611 0.00047	10.65 1.00263 0.00047	11.55 0.99679 0.00046
10.25 0.99957 0.00047	10.70 1.00509 0.00046	11.60 0.99958 0.00049
10.30 1.00422 0.00049	10.75 1.00719 0.00047	11.65 1.00286 0.00049
10.35 1.00647 0.00047	10.80 1.01218 0.00048	11.70 1.00682 0.00047
10.40 1.01006 0.00048	10.85 1.01529 0.00048	11.75 1.00854 0.00046
10.45 1.01392 0.00048	10.90 1.01794 0.00047	11.80 1.01148 0.00048
10.50 1.01582 0.00048	10.95 1.02006 0.00049	11.85 1.01494 0.00046
10.55 1.01989 0.00048	11.00 1.02330 0.00047	11.90 1.01723 0.00046
10.60 1.02325 0.00049		11.95 1.02001 0.00049
		12.00 1.02288 0.00047

752	754	755
10.40 0.92062 0.00047	10.50 0.91839 0.00048	10.70 0.92092 0.00046
10.45 0.92538 0.00046	10.60 0.92567 0.00047	10.80 0.92689 0.00047
10.50 0.92694 0.00048	10.70 0.92935 0.00047	10.90 0.93230 0.00048
10.55 0.93030 0.00047	10.80 0.93670 0.00047	11.00 0.93854 0.00047
10.60 0.93383 0.00048	10.90 0.94195 0.00047	11.10 0.94478 0.00047
10.65 0.93671 0.00047	11.00 0.94906 0.00047	11.20 0.94985 0.00047
10.70 0.93985 0.00049	11.10 0.95426 0.00047	11.30 0.95551 0.00047
10.75 0.94147 0.00048	11.20 0.96120 0.00048	11.40 0.96148 0.00047
10.80 0.94570 0.00047	11.30 0.96590 0.00046	11.50 0.96785 0.00048
10.85 0.94848 0.00047	11.40 0.97265 0.00048	11.60 0.97359 0.00046
10.90 0.95144 0.00047	11.50 0.97802 0.00049	11.70 0.97954 0.00047
10.95 0.95499 0.00047	11.60 0.98399 0.00047	11.80 0.98519 0.00047
11.00 0.95748 0.00048	11.70 0.98923 0.00047	11.90 0.99077 0.00046
11.05 0.96120 0.00047	11.80 0.99461 0.00047	12.00 0.99521 0.00048
11.10 0.96391 0.00047	11.90 1.00057 0.00047	12.10 1.00066 0.00047
11.15 0.96617 0.00047	12.00 1.00645 0.00048	12.20 1.00649 0.00047
11.20 0.96918 0.00047	12.10 1.01151 0.00048	12.30 1.01162 0.00047
11.25 0.97262 0.00048	12.20 1.01640 0.00047	12.40 1.01777 0.00048
11.30 0.97594 0.00048	12.30 1.02298 0.00047	12.50 1.02177 0.00049
11.35 0.97910 0.00046		
11.40 0.98138 0.00047		
11.45 0.98486 0.00048		
11.50 0.98793 0.00048		
11.55 0.99053 0.00047		
11.60 0.99400 0.00047		
11.65 0.99595 0.00047		
11.70 0.99900 0.00047		
11.75 1.00167 0.00048		
11.80 1.00432 0.00046		
11.85 1.00680 0.00047		
11.90 1.01023 0.00048		
11.95 1.01327 0.00048		
12.00 1.01635 0.00048		
12.05 1.01779 0.00048		
12.10 1.02131 0.00046		

16.70 0.98015 0.00043	15.90 0.98901 0.00044	15.70 0.99323 0.00046
16.80 0.98462 0.00043	16.00 0.99254 0.00045	15.80 0.99771 0.00046
16.90 0.98738 0.00044	16.10 0.99748 0.00044	15.90 1.00131 0.00045
17.00 0.99164 0.00043	16.20 1.00242 0.00044	16.00 1.00689 0.00047
17.10 0.99642 0.00043	16.30 1.00634 0.00046	16.10 1.01143 0.00045
17.20 0.99997 0.00042	16.40 1.01090 0.00045	16.20 1.01666 0.00046
17.30 1.00316 0.00043	16.50 1.01540 0.00047	16.30 1.02021 0.00046
17.40 1.00899 0.00042	16.60 1.01978 0.00045	
17.50 1.01216 0.00044		
17.60 1.01439 0.00041		
17.70 1.01939 0.00042		

35	40	50
13.90 0.91536 0.00047	13.50 0.91482 0.00049	13.00 0.91582 0.00050
14.00 0.92179 0.00045	13.60 0.92077 0.00048	13.05 0.92043 0.00050
14.10 0.92752 0.00047	13.70 0.92755 0.00048	13.10 0.92313 0.00050
14.20 0.93351 0.00047	13.80 0.93342 0.00047	13.15 0.92636 0.00049
14.30 0.93827 0.00048	13.90 0.94016 0.00048	13.20 0.92989 0.00050
14.40 0.94388 0.00047	14.00 0.94486 0.00048	13.25 0.93269 0.00050
14.50 0.95020 0.00047	14.10 0.95126 0.00049	13.30 0.93461 0.00049
14.60 0.95494 0.00045	14.20 0.95658 0.00047	13.35 0.93833 0.00051
14.70 0.96036 0.00047	14.30 0.96242 0.00048	13.40 0.94153 0.00050
14.80 0.96612 0.00047	14.40 0.96800 0.00049	13.45 0.94499 0.00050
14.90 0.97151 0.00046	14.50 0.97389 0.00047	13.50 0.94832 0.00049
15.00 0.97588 0.00046	14.60 0.97884 0.00048	13.55 0.95189 0.00050
15.10 0.98194 0.00046	14.70 0.98365 0.00048	13.60 0.95438 0.00051
15.20 0.98651 0.00047	14.80 0.98984 0.00048	13.65 0.95566 0.00051
15.30 0.99132 0.00046	14.90 0.99479 0.00048	13.70 0.96079 0.00049
15.40 0.99680 0.00047	15.00 0.99939 0.00047	13.75 0.96333 0.00051
15.50 1.00077 0.00048	15.10 1.00587 0.00047	13.80 0.96702 0.00051
15.60 1.00618 0.00046	15.20 1.01016 0.00048	13.85 0.96966 0.00050
15.70 1.01086 0.00046	15.30 1.01494 0.00048	13.90 0.97254 0.00050
15.80 1.01639 0.00046	15.40 1.02154 0.00048	13.95 0.97540 0.00050
15.90 1.02037 0.00046		14.00 0.97880 0.00051
		14.05 0.98106 0.00049
		14.10 0.98456 0.00050
		14.20 0.98963 0.00049
		14.25 0.99382 0.00049
		14.30 0.99635 0.00049
		14.35 0.99890 0.00049
		14.40 1.00152 0.00050
		14.45 1.00472 0.00049
		14.50 1.00706 0.00049
		14.55 1.01010 0.00050
		14.60 1.01261 0.00048
		14.65 1.01535 0.00049
		14.70 1.01789 0.00049

60	70	80
12.70 0.91536 0.00051	12.50 0.91749 0.00050	12.40 0.91911 0.00053
12.75 0.91974 0.00050	12.55 0.92069 0.00051	12.45 0.92305 0.00051
12.80 0.92235 0.00050	12.60 0.92444 0.00050	12.50 0.92722 0.00051
12.85 0.92758 0.00050	12.65 0.92786 0.00051	12.55 0.93021 0.00051
12.90 0.92989 0.00050	12.70 0.93152 0.00051	12.60 0.93411 0.00051
12.95 0.93275 0.00050	12.75 0.93441 0.00051	12.65 0.93754 0.00052
13.00 0.93671 0.00050	12.80 0.93840 0.00050	12.70 0.94145 0.00053
13.05 0.93989 0.00050	12.85 0.94153 0.00051	12.75 0.94534 0.00052
13.10 0.94317 0.00050	12.90 0.94439 0.00052	12.80 0.94853 0.00053
13.15 0.94649 0.00050	12.95 0.94822 0.00052	12.85 0.95077 0.00051
13.20 0.95014 0.00051	13.00 0.95168 0.00053	12.90 0.95445 0.00054
13.25 0.95243 0.00050	13.05 0.95517 0.00051	12.95 0.95730 0.00053
13.30 0.95621 0.00051	13.10 0.95828 0.00051	13.00 0.96101 0.00051
13.35 0.96044 0.00051	13.15 0.96193 0.00051	13.05 0.96406 0.00052
13.40 0.96249 0.00052	13.20 0.96433 0.00049	13.10 0.96788 0.00052
13.45 0.96598 0.00052	13.25 0.96730 0.00050	13.15 0.97092 0.00053
13.50 0.96923 0.00049	13.30 0.97146 0.00051	13.20 0.97493 0.00053
13.55 0.97154 0.00050	13.35 0.97420 0.00051	13.25 0.97774 0.00052
13.60 0.97439 0.00051	13.40 0.97833 0.00052	13.30 0.98150 0.00053
13.65 0.97795 0.00050	13.45 0.98054 0.00052	13.35 0.98486 0.00053
13.70 0.98166 0.00051	13.50 0.98454 0.00052	13.40 0.98843 0.00051
13.75 0.98392 0.00051	13.55 0.98697 0.00050	13.45 0.99108 0.00053
13.80 0.98778 0.00051	13.60 0.99126 0.00051	13.50 0.99358 0.00052
13.85 0.99061 0.00051	13.65 0.99360 0.00051	13.60 0.99995 0.00052
13.90 0.99290 0.00050	13.70 0.99685 0.00051	13.65 1.00353 0.00052
13.95 0.99770 0.00053	13.75 0.99887 0.00052	13.70 1.00675 0.00052
14.00 0.99987 0.00051	13.80 1.00151 0.00053	13.75 1.00957 0.00053
14.05 1.00273 0.00050	13.85 1.00573 0.00051	13.80 1.01243 0.00052
14.10 1.00523 0.00050	13.90 1.00953 0.00051	13.85 1.01570 0.00050
14.15 1.00816 0.00051	13.95 1.01068 0.00052	13.90 1.01886 0.00054
14.20 1.01206 0.00050	14.00 1.01450 0.00052	13.95 1.02205 0.00052
14.25 1.01456 0.00050	14.05 1.01679 0.00050	14.00 1.02424 0.00050
14.30 1.01645 0.00051	14.10 1.02232 0.00051	
14.35 1.02034 0.00051		
14.40 1.02351 0.00051		

90	100	120
12.30 0.92040 0.00052	12.20 0.91755 0.00052	12.10 0.91610 0.00053
12.35 0.92317 0.00053	12.25 0.92112 0.00052	12.15 0.92029 0.00052
12.40 0.92779 0.00053	12.30 0.92456 0.00052	12.20 0.92228 0.00052
12.45 0.93089 0.00051	12.35 0.92854 0.00053	12.25 0.92664 0.00054
12.50 0.93382 0.00055	12.40 0.93171 0.00054	12.30 0.93086 0.00053
12.55 0.93853 0.00054	12.45 0.93588 0.00053	12.35 0.93348 0.00052
12.60 0.94169 0.00052	12.50 0.93750 0.00050	12.40 0.93675 0.00055
12.65 0.94510 0.00052	12.55 0.94240 0.00053	12.45 0.94028 0.00052
12.70 0.94765 0.00052	12.60 0.94622 0.00052	12.50 0.94466 0.00053
12.75 0.95174 0.00052	12.65 0.94965 0.00051	12.55 0.94804 0.00053

12.80 0.95469 0.00051	12.70 0.95304 0.00052	12.60 0.95240 0.00052
12.85 0.95847 0.00052	12.75 0.95618 0.00054	12.65 0.95502 0.00054
12.90 0.96184 0.00053	12.80 0.96054 0.00054	12.70 0.95827 0.00054
12.95 0.96539 0.00052	12.85 0.96489 0.00052	12.75 0.96260 0.00052
13.00 0.96912 0.00053	12.90 0.96763 0.00052	12.80 0.96548 0.00053
13.05 0.97129 0.00052	12.95 0.96988 0.00052	12.85 0.96868 0.00053
13.10 0.97476 0.00052	13.00 0.97324 0.00053	12.90 0.97219 0.00053
13.15 0.97845 0.00050	13.05 0.97695 0.00052	12.95 0.97540 0.00053
13.20 0.98277 0.00052	13.10 0.98115 0.00053	13.00 0.97793 0.00052
13.25 0.98470 0.00054	13.15 0.98352 0.00053	13.05 0.98256 0.00052
13.30 0.98912 0.00053	13.20 0.98696 0.00053	13.10 0.98543 0.00052
13.35 0.99163 0.00053	13.25 0.99171 0.00053	13.15 0.98813 0.00053
13.40 0.99429 0.00053	13.30 0.99352 0.00053	13.20 0.99283 0.00052
13.45 0.99788 0.00052	13.35 0.99711 0.00054	13.25 0.99604 0.00053
13.50 1.00197 0.00053	13.40 0.99954 0.00052	13.30 0.99915 0.00052
13.55 1.00418 0.00053	13.45 1.00321 0.00054	13.35 1.00210 0.00052
13.60 1.00778 0.00053	13.50 1.00519 0.00053	13.40 1.00484 0.00052
13.65 1.01010 0.00053	13.55 1.00958 0.00053	13.45 1.00875 0.00054
13.70 1.01518 0.00051	13.60 1.01367 0.00051	13.50 1.01330 0.00053
13.75 1.01765 0.00052	13.65 1.01607 0.00051	13.55 1.01491 0.00053
13.80 1.01987 0.00053	13.70 1.01914 0.00052	13.60 1.01801 0.00052
	13.75 1.02195 0.00052	13.65 1.02176 0.00053
	13.80 1.02515 0.00053	13.70 1.02475 0.00055

130	150	200
12.10 0.91902 0.00053	12.10 0.91964 0.00054	12.10 0.92152 0.00052
12.15 0.92278 0.00052	12.15 0.92430 0.00053	12.15 0.92367 0.00052
12.20 0.92649 0.00052	12.20 0.92718 0.00053	12.20 0.92747 0.00052
12.25 0.92920 0.00052	12.25 0.93041 0.00054	12.25 0.93160 0.00053
12.30 0.93192 0.00053	12.30 0.93424 0.00053	12.30 0.93457 0.00052
12.35 0.93671 0.00053	12.35 0.93894 0.00052	12.35 0.93891 0.00052
12.40 0.93991 0.00053	12.40 0.94228 0.00054	12.40 0.94085 0.00053
12.45 0.94472 0.00053	12.45 0.94586 0.00052	12.45 0.94538 0.00054
12.50 0.94808 0.00051	12.50 0.94872 0.00053	12.50 0.94900 0.00053
12.55 0.95130 0.00053	12.55 0.95294 0.00052	12.55 0.95249 0.00053
12.60 0.95510 0.00053	12.60 0.95647 0.00052	12.60 0.95581 0.00053
12.65 0.95784 0.00052	12.65 0.95898 0.00054	12.65 0.95980 0.00053
12.70 0.96096 0.00051	12.75 0.96727 0.00052	12.70 0.96284 0.00052
12.75 0.96437 0.00053	12.80 0.97022 0.00051	12.75 0.96663 0.00053
12.80 0.96792 0.00054	12.85 0.97241 0.00052	12.80 0.97011 0.00053
12.85 0.97247 0.00052	12.90 0.97619 0.00052	12.85 0.97375 0.00053
12.90 0.97457 0.00051	12.95 0.98076 0.00054	12.90 0.97678 0.00052
12.95 0.97909 0.00055	13.00 0.98321 0.00053	12.95 0.98006 0.00052
13.00 0.98200 0.00052	13.05 0.98610 0.00052	13.00 0.98269 0.00055
13.05 0.98563 0.00054	13.10 0.99022 0.00053	13.05 0.98713 0.00053
13.10 0.99009 0.00053	13.15 0.99365 0.00051	13.10 0.99096 0.00054
13.15 0.99324 0.00053	13.20 0.99620 0.00054	13.15 0.99452 0.00052
13.20 0.99595 0.00052	13.25 1.00158 0.00052	13.20 0.99666 0.00052
13.25 0.99970 0.00052	13.30 1.00336 0.00053	13.25 1.00115 0.00053

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13.30 1.00180 0.00051	13.35 1.00707 0.00054	13.30 1.00334 0.00052
13.35 1.00566 0.00053	13.40 1.01026 0.00052	13.35 1.00746 0.00052
13.40 1.00850 0.00053	13.45 1.01305 0.00053	13.40 1.01027 0.00052
13.45 1.01159 0.00052	13.50 1.01727 0.00053	13.45 1.01312 0.00054
13.50 1.01522 0.00053	13.55 1.02047 0.00053	13.50 1.01678 0.00053
13.55 1.01720 0.00052	13.60 1.02235 0.00052	13.55 1.01939 0.00052
13.60 1.02117 0.00053		13.60 1.02288 0.00052

239	250	359
12.10 0.91673 0.00053	12.10 0.91467 0.00051	12.40 0.91974 0.00052
12.15 0.92043 0.00052	12.15 0.91817 0.00050	12.45 0.92440 0.00053
12.20 0.92329 0.00053	12.20 0.92209 0.00052	12.50 0.92880 0.00052
12.25 0.92627 0.00052	12.25 0.92561 0.00055	12.55 0.93134 0.00052
12.30 0.93166 0.00053	12.30 0.92972 0.00052	12.60 0.93537 0.00052
12.35 0.93542 0.00053	12.35 0.93324 0.00052	12.65 0.93826 0.00052
12.40 0.93727 0.00053	12.40 0.93691 0.00051	12.70 0.94275 0.00051
12.45 0.94068 0.00053	12.45 0.94063 0.00052	12.75 0.94583 0.00052
12.50 0.94404 0.00052	12.50 0.94406 0.00053	12.80 0.94967 0.00052
12.55 0.94840 0.00051	12.55 0.94763 0.00054	12.85 0.95248 0.00050
12.60 0.95079 0.00052	12.60 0.95053 0.00051	12.90 0.95617 0.00053
12.65 0.95543 0.00052	12.65 0.95434 0.00053	12.95 0.96039 0.00053
12.70 0.95876 0.00053	12.70 0.95769 0.00052	13.00 0.96375 0.00052
12.75 0.96260 0.00052	12.75 0.96110 0.00053	13.05 0.96500 0.00050
12.80 0.96662 0.00050	12.80 0.96502 0.00053	13.10 0.96968 0.00053
12.85 0.96925 0.00053	12.85 0.96861 0.00053	13.15 0.97356 0.00052
12.90 0.97315 0.00052	12.90 0.97125 0.00051	13.20 0.97638 0.00052
12.95 0.97663 0.00053	12.95 0.97443 0.00054	13.25 0.98028 0.00052
13.00 0.97949 0.00053	13.00 0.97752 0.00053	13.30 0.98185 0.00052
13.05 0.98395 0.00053	13.05 0.98150 0.00052	13.35 0.98597 0.00053
13.10 0.98688 0.00052	13.10 0.98524 0.00052	13.40 0.98873 0.00054
13.15 0.98964 0.00053	13.15 0.98853 0.00051	13.45 0.99257 0.00053
13.20 0.99325 0.00052	13.20 0.99166 0.00053	13.50 0.99588 0.00051
13.25 0.99574 0.00051	13.25 0.99436 0.00052	13.55 0.99946 0.00052
13.30 0.99964 0.00052	13.30 0.99830 0.00052	13.60 1.00174 0.00052
13.35 1.00379 0.00053	13.35 1.00198 0.00052	13.65 1.00579 0.00053
13.40 1.00653 0.00052	13.40 1.00489 0.00054	13.70 1.00856 0.00052
13.45 1.00980 0.00054	13.45 1.00819 0.00053	13.75 1.01161 0.00051
13.50 1.01266 0.00052	13.50 1.01129 0.00052	13.80 1.01526 0.00053
13.55 1.01607 0.00054	13.55 1.01438 0.00053	13.85 1.01717 0.00053
13.60 1.01952 0.00053	13.60 1.01777 0.00054	13.90 1.02135 0.00051
13.65 1.02173 0.00053	13.65 1.02117 0.00052	13.95 1.02454 0.00052
13.70 1.02539 0.00054	13.70 1.02421 0.00053	14.00 1.02733 0.00054

478	500	600
12.70 0.91572 0.00053	12.80 0.91614 0.00052	13.50 0.91791 0.00053
12.75 0.92013 0.00051	12.85 0.91939 0.00050	13.55 0.92097 0.00051
12.80 0.92313 0.00052	12.90 0.92246 0.00050	13.60 0.92446 0.00051

12.85 0.92700 0.00051	12.95 0.92570 0.00052	13.65 0.92903 0.00051
12.90 0.93057 0.00052	13.00 0.92980 0.00051	13.70 0.93104 0.00052
12.95 0.93399 0.00052	13.05 0.93349 0.00052	13.75 0.93509 0.00052
13.00 0.93698 0.00051	13.10 0.93636 0.00050	13.80 0.93857 0.00052
13.05 0.94150 0.00052	13.15 0.94002 0.00054	13.85 0.94159 0.00052
13.10 0.94488 0.00051	13.20 0.94263 0.00051	13.90 0.94522 0.00052
13.15 0.94810 0.00051	13.25 0.94719 0.00052	13.95 0.94763 0.00054
13.20 0.95141 0.00052	13.30 0.95031 0.00051	14.00 0.95038 0.00053
13.25 0.95486 0.00053	13.35 0.95408 0.00052	14.10 0.95749 0.00051
13.30 0.95814 0.00052	13.40 0.95755 0.00053	14.15 0.95981 0.00052
13.35 0.96099 0.00052	13.45 0.96110 0.00052	14.20 0.96299 0.00052
13.40 0.96409 0.00051	13.50 0.96417 0.00051	14.25 0.96685 0.00052
13.45 0.96753 0.00052	13.55 0.96595 0.00054	14.30 0.96968 0.00052
13.50 0.97222 0.00052	13.60 0.96923 0.00052	14.35 0.97354 0.00052
13.55 0.97499 0.00052	13.65 0.97299 0.00051	14.40 0.97643 0.00053
13.60 0.97785 0.00050	13.70 0.97667 0.00051	14.45 0.97975 0.00052
13.65 0.98048 0.00052	13.75 0.97947 0.00054	14.50 0.98237 0.00052
13.70 0.98456 0.00050	13.80 0.98286 0.00052	14.55 0.98531 0.00053
13.75 0.98780 0.00051	13.85 0.98640 0.00051	14.60 0.98855 0.00051
13.80 0.99051 0.00052	13.90 0.98891 0.00051	14.65 0.99114 0.00053
13.85 0.99384 0.00052	13.95 0.99310 0.00053	14.70 0.99542 0.00053
13.90 0.99752 0.00052	14.00 0.99529 0.00053	14.75 0.99675 0.00051
13.95 0.99997 0.00051	14.05 0.99853 0.00051	14.80 1.00047 0.00051
14.00 1.00313 0.00053	14.10 1.00221 0.00051	14.85 1.00282 0.00051
14.05 1.00502 0.00053	14.15 1.00552 0.00053	14.90 1.00715 0.00052
14.10 1.00915 0.00051	14.20 1.00743 0.00053	14.95 1.00913 0.00051
14.15 1.01237 0.00052	14.25 1.01083 0.00051	15.00 1.01143 0.00051
14.20 1.01576 0.00053	14.30 1.01375 0.00052	15.05 1.01536 0.00052
14.25 1.01760 0.00053	14.35 1.01728 0.00052	15.10 1.01780 0.00051
14.30 1.02106 0.00051	14.40 1.01980 0.00052	15.15 1.02043 0.00050
		15.20 1.02450 0.00051

650	660	670
14.20 0.91893 0.00050	14.40 0.91818 0.00051	14.80 0.92938 0.00051
14.25 0.92249 0.00052	14.45 0.92128 0.00051	14.90 0.93446 0.00051
14.30 0.92669 0.00052	14.50 0.92563 0.00050	15.00 0.94040 0.00050
14.35 0.92803 0.00050	14.55 0.92883 0.00050	15.10 0.94606 0.00051
14.40 0.93216 0.00052	14.60 0.93112 0.00050	15.20 0.95208 0.00051
14.45 0.93533 0.00050	14.65 0.93508 0.00051	15.30 0.95833 0.00051
14.50 0.93886 0.00052	14.70 0.93717 0.00050	15.40 0.96380 0.00052
14.55 0.94014 0.00051	14.75 0.94010 0.00052	15.50 0.96966 0.00052
14.70 0.95095 0.00052	14.80 0.94328 0.00051	15.60 0.97516 0.00051
14.75 0.95306 0.00050	14.85 0.94631 0.00052	15.70 0.98149 0.00051
14.80 0.95659 0.00053	14.90 0.94987 0.00051	15.80 0.98712 0.00052
14.85 0.95941 0.00052	14.95 0.95208 0.00053	15.90 0.99203 0.00053
14.90 0.96206 0.00051	15.00 0.95538 0.00051	16.00 0.99766 0.00053
14.95 0.96585 0.00050	15.05 0.95814 0.00051	16.10 1.00295 0.00051
15.00 0.96783 0.00052	15.10 0.96144 0.00052	16.20 1.00919 0.00051
15.05 0.97118 0.00051	15.15 0.96457 0.00051	16.30 1.01454 0.00053

15.10 0.97442 0.00051	15.20 0.96719 0.00050	16.40 1.01941 0.00051
15.15 0.97678 0.00051	15.25 0.97020 0.00051	
15.20 0.97948 0.00051	15.30 0.97323 0.00052	
15.25 0.98294 0.00051	15.35 0.97654 0.00052	
15.30 0.98651 0.00052	15.40 0.97951 0.00051	
15.35 0.98838 0.00051	15.45 0.98200 0.00052	
15.40 0.99057 0.00051	15.50 0.98494 0.00051	
15.45 0.99519 0.00051	15.55 0.98773 0.00052	
15.50 0.99791 0.00051	15.60 0.99034 0.00051	
15.55 1.00022 0.00051	15.65 0.99387 0.00051	
15.60 1.00160 0.00052	15.70 0.99605 0.00051	
15.65 1.00601 0.00051	15.75 0.99981 0.00052	
15.70 1.00821 0.00052	15.80 1.00231 0.00053	
15.75 1.01118 0.00052	15.85 1.00406 0.00052	
15.80 1.01374 0.00050	15.90 1.00842 0.00052	
15.85 1.01753 0.00053	15.95 1.01050 0.00052	
15.90 1.02001 0.00051	16.00 1.01258 0.00052	
	16.05 1.01590 0.00052	

680	690	698
15.00 0.91949 0.00051	15.50 0.91868 0.00051	16.50 0.92081 0.00050
15.10 0.92609 0.00052	15.60 0.92520 0.00051	16.60 0.92636 0.00053
15.20 0.93103 0.00051	15.70 0.93068 0.00051	16.70 0.93189 0.00052
15.70 0.96126 0.00052	15.80 0.93607 0.00051	16.80 0.93768 0.00052
15.80 0.96679 0.00051	15.90 0.94237 0.00052	16.90 0.94321 0.00051
15.90 0.97241 0.00052	16.00 0.94624 0.00051	17.00 0.94771 0.00050
16.00 0.97744 0.00052	16.10 0.95288 0.00051	17.10 0.95370 0.00052
16.10 0.98452 0.00051	16.20 0.95918 0.00051	17.20 0.95869 0.00051
16.20 0.98840 0.00052	16.30 0.96334 0.00052	17.30 0.96331 0.00051
16.30 0.99504 0.00051	16.40 0.97033 0.00052	17.40 0.96949 0.00051
16.40 0.99953 0.00050	16.50 0.97480 0.00051	17.50 0.97472 0.00050
16.50 1.00642 0.00052	16.60 0.97955 0.00051	17.60 0.97958 0.00050
16.60 1.00953 0.00053	16.70 0.98544 0.00050	17.70 0.98466 0.00050
16.70 1.01579 0.00051	16.80 0.99053 0.00052	17.80 0.98860 0.00051
16.80 1.02153 0.00051	16.90 0.99612 0.00050	17.90 0.99362 0.00052
	17.00 1.00173 0.00051	18.00 0.99895 0.00052
	17.10 1.00609 0.00051	18.10 1.00422 0.00050
	17.20 1.01198 0.00050	18.20 1.00900 0.00052
	17.30 1.01721 0.00052	18.30 1.01458 0.00051
	17.40 1.02199 0.00051	18.40 1.01865 0.00054
		18.50 1.02386 0.00052

15.40 0.98976 0.00042	14.60 0.99929 0.00044	14.20 0.99539 0.00043
15.50 0.99312 0.00041	14.70 1.00251 0.00044	14.30 0.99910 0.00044
15.60 0.99758 0.00042	14.80 1.00754 0.00043	14.40 1.00312 0.00045
15.70 1.00027 0.00041	14.90 1.01291 0.00044	14.50 1.00922 0.00044
15.80 1.00552 0.00042	15.00 1.01629 0.00043	14.60 1.01276 0.00043
15.90 1.00833 0.00042	15.10 1.02052 0.00043	14.70 1.01774 0.00043
16.00 1.01254 0.00042		
16.10 1.01587 0.00041		
16.20 1.02033 0.00041		

35	40	50
12.40 0.91858 0.00045	12.00 0.91734 0.00045	11.50 0.91851 0.00049
12.50 0.92417 0.00045	12.10 0.92411 0.00047	11.55 0.92159 0.00046
12.60 0.92955 0.00045	12.20 0.92840 0.00045	11.60 0.92454 0.00046
12.70 0.93553 0.00044	12.30 0.93505 0.00046	11.65 0.92854 0.00046
12.80 0.94110 0.00046	12.40 0.94143 0.00046	11.70 0.93233 0.00047
12.90 0.94531 0.00046	12.50 0.94695 0.00047	11.75 0.93452 0.00047
13.00 0.95117 0.00044	12.60 0.95358 0.00046	11.80 0.93738 0.00046
13.10 0.95679 0.00046	12.70 0.95844 0.00047	11.85 0.94042 0.00047
13.20 0.96320 0.00044	12.80 0.96415 0.00046	11.90 0.94326 0.00048
13.30 0.96793 0.00045	12.90 0.97017 0.00048	11.95 0.94723 0.00048
13.40 0.97179 0.00044	13.00 0.97430 0.00045	12.00 0.95022 0.00046
13.50 0.97880 0.00046	13.10 0.97992 0.00047	12.05 0.95448 0.00048
13.60 0.98283 0.00045	13.20 0.98609 0.00045	12.10 0.95666 0.00048
13.70 0.98782 0.00045	13.30 0.99135 0.00047	12.15 0.96061 0.00050
13.80 0.99340 0.00046	13.40 0.99578 0.00046	12.20 0.96265 0.00048
13.90 0.99835 0.00044	13.50 1.00205 0.00046	12.25 0.96503 0.00048
14.00 1.00343 0.00044	13.60 1.00723 0.00045	12.30 0.96910 0.00048
14.10 1.00807 0.00045	13.70 1.01269 0.00046	12.35 0.97163 0.00047
14.20 1.01258 0.00045	13.80 1.01770 0.00047	12.40 0.97497 0.00048
14.30 1.01743 0.00043	13.90 1.02255 0.00045	12.45 0.97814 0.00047
		12.50 0.98136 0.00049
		12.55 0.98364 0.00048
		12.60 0.98658 0.00047
		12.65 0.98940 0.00049
		12.70 0.99231 0.00047
		12.75 0.99522 0.00047
		12.80 0.99801 0.00048
		12.85 1.00096 0.00048
		12.90 1.00359 0.00047
		12.95 1.00692 0.00047
		13.00 1.00873 0.00047
		13.05 1.01241 0.00047
		13.10 1.01482 0.00046
		13.15 1.01748 0.00047
		13.20 1.02095 0.00047

60	70	80
11.20 0.91925 0.00048	11.00 0.91981 0.00049	10.80 0.91621 0.00050
11.25 0.92274 0.00049	11.05 0.92466 0.00050	10.85 0.91950 0.00051
11.30 0.92619 0.00048	11.10 0.92782 0.00049	10.90 0.92257 0.00050
11.35 0.92980 0.00049	11.15 0.93123 0.00049	10.95 0.92678 0.00049
11.40 0.93268 0.00049	11.20 0.93401 0.00050	11.00 0.93047 0.00048
11.45 0.93576 0.00047	11.25 0.93680 0.00049	11.05 0.93424 0.00049
11.50 0.93868 0.00049	11.30 0.94012 0.00049	11.10 0.93697 0.00050
11.55 0.94242 0.00050	11.35 0.94417 0.00049	11.15 0.94085 0.00050
11.60 0.94538 0.00049	11.40 0.94817 0.00050	11.20 0.94513 0.00050
11.65 0.94880 0.00048	11.45 0.95149 0.00050	11.25 0.94774 0.00050
11.70 0.95266 0.00049	11.50 0.95387 0.00050	11.30 0.95062 0.00050
11.75 0.95593 0.00049	11.55 0.95821 0.00050	11.35 0.95447 0.00050
11.80 0.95874 0.00048	11.60 0.96135 0.00047	11.40 0.95788 0.00049
11.85 0.96134 0.00049	11.65 0.96509 0.00049	11.45 0.96129 0.00049
11.90 0.96596 0.00049	11.70 0.96683 0.00050	11.50 0.96451 0.00050
11.95 0.96894 0.00049	11.75 0.97075 0.00049	11.55 0.96845 0.00049
12.00 0.97151 0.00050	11.80 0.97575 0.00050	11.60 0.97145 0.00049
12.05 0.97531 0.00049	11.85 0.97772 0.00049	11.65 0.97429 0.00051
12.10 0.97773 0.00049	11.90 0.98104 0.00049	11.70 0.97822 0.00050
12.15 0.98145 0.00047	11.95 0.98437 0.00049	11.75 0.98118 0.00050
12.20 0.98333 0.00049	12.00 0.98661 0.00049	11.80 0.98475 0.00049
12.25 0.98725 0.00049	12.05 0.98993 0.00049	11.85 0.98747 0.00050
12.30 0.98982 0.00050	12.10 0.99224 0.00053	11.90 0.99100 0.00049
12.35 0.99347 0.00049	12.15 0.99597 0.00051	11.95 0.99497 0.00050
12.40 0.99595 0.00050	12.20 0.99833 0.00050	12.00 0.99725 0.00048
12.45 0.99866 0.00048	12.25 1.00134 0.00049	12.05 0.99969 0.00049
12.50 1.00259 0.00048	12.30 1.00501 0.00048	12.10 1.00245 0.00051
12.55 1.00535 0.00049	12.35 1.00823 0.00049	12.15 1.00749 0.00049
12.60 1.00808 0.00050	12.40 1.01097 0.00049	12.20 1.01039 0.00050
12.65 1.01123 0.00049	12.45 1.01517 0.00049	12.25 1.01190 0.00051
12.70 1.01463 0.00049	12.50 1.01795 0.00050	12.30 1.01562 0.00050
12.75 1.01733 0.00049	12.55 1.02075 0.00050	12.35 1.01854 0.00050
12.80 1.01970 0.00048	12.60 1.02325 0.00049	12.40 1.02201 0.00050

90	100	120
10.70 0.91668 0.00051	10.70 0.92079 0.00051	10.60 0.92045 0.00052
10.75 0.92046 0.00049	10.75 0.92458 0.00051	10.65 0.92417 0.00051
10.80 0.92304 0.00051	10.80 0.92871 0.00050	10.70 0.92724 0.00050
10.85 0.92724 0.00051	10.85 0.93329 0.00051	10.75 0.93151 0.00051
10.90 0.92966 0.00050	10.90 0.93534 0.00050	10.80 0.93465 0.00050
10.95 0.93395 0.00049	10.95 0.93818 0.00050	10.85 0.93799 0.00051
11.00 0.93800 0.00050	11.00 0.94290 0.00050	10.90 0.94190 0.00051
11.05 0.94139 0.00050	11.05 0.94716 0.00051	10.95 0.94592 0.00050
11.10 0.94437 0.00050	11.10 0.95096 0.00050	11.00 0.94897 0.00052
11.15 0.94799 0.00050	11.15 0.95302 0.00050	11.05 0.95224 0.00051
11.20 0.95090 0.00049	11.20 0.95658 0.00049	11.10 0.95598 0.00052
11.25 0.95466 0.00050	11.25 0.96070 0.00050	11.15 0.95939 0.00050
11.30 0.95845 0.00050	11.30 0.96501 0.00051	11.20 0.96335 0.00051

11.35 0.96192 0.00050	11.35 0.96732 0.00051	11.25 0.96664 0.00050
11.40 0.96471 0.00050	11.40 0.97136 0.00048	11.30 0.96974 0.00052
11.45 0.96864 0.00050	11.45 0.97486 0.00051	11.35 0.97407 0.00050
11.50 0.97345 0.00051	11.50 0.97762 0.00050	11.40 0.97709 0.00050
11.55 0.97538 0.00049	11.55 0.97997 0.00051	11.45 0.98046 0.00051
11.60 0.97917 0.00050	11.60 0.98321 0.00050	11.50 0.98281 0.00050
11.65 0.98159 0.00050	11.65 0.98753 0.00049	11.55 0.98693 0.00051
11.70 0.98596 0.00050	11.70 0.99059 0.00051	11.60 0.99041 0.00052
11.75 0.98885 0.00049	11.75 0.99420 0.00051	11.65 0.99275 0.00050
11.80 0.99191 0.00051	11.80 0.99637 0.00050	11.70 0.99622 0.00051
11.85 0.99553 0.00051	11.85 0.99985 0.00050	11.75 1.00011 0.00050
11.90 0.99817 0.00051	11.90 1.00332 0.00049	11.80 1.00342 0.00052
11.95 1.00151 0.00052	11.95 1.00591 0.00050	11.85 1.00615 0.00050
12.00 1.00428 0.00050	12.00 1.00894 0.00049	11.90 1.00963 0.00050
12.05 1.00758 0.00051	12.05 1.01359 0.00050	11.95 1.01352 0.00051
12.10 1.01136 0.00050	12.10 1.01719 0.00051	12.00 1.01684 0.00051
12.15 1.01362 0.00048	12.15 1.02019 0.00050	12.05 1.02018 0.00051
12.20 1.01801 0.00051	12.20 1.02161 0.00051	12.10 1.02218 0.00051
12.25 1.01969 0.00050		
12.30 1.02321 0.00051		

130	150	200
10.60 0.92338 0.00052	10.50 0.91755 0.00052	10.50 0.91787 0.00050
10.65 0.92633 0.00050	10.55 0.92053 0.00050	10.55 0.92191 0.00052
10.70 0.93036 0.00051	10.60 0.92529 0.00051	10.60 0.92573 0.00053
10.75 0.93296 0.00052	10.65 0.92860 0.00051	10.65 0.92977 0.00051
10.80 0.93792 0.00051	10.70 0.93178 0.00052	10.70 0.93293 0.00051
10.85 0.94189 0.00053	10.75 0.93609 0.00052	10.75 0.93630 0.00051
10.90 0.94495 0.00051	10.80 0.93972 0.00051	10.80 0.93953 0.00051
10.95 0.94802 0.00051	10.85 0.94330 0.00051	10.85 0.94383 0.00050
11.00 0.95138 0.00051	10.90 0.94634 0.00052	10.90 0.94738 0.00050
11.05 0.95586 0.00050	10.95 0.94975 0.00050	10.95 0.95091 0.00051
11.10 0.95836 0.00050	11.00 0.95418 0.00051	11.00 0.95362 0.00051
11.15 0.96233 0.00051	11.05 0.95779 0.00051	11.05 0.95721 0.00051
11.20 0.96707 0.00052	11.10 0.96079 0.00051	11.10 0.96191 0.00050
11.25 0.96952 0.00052	11.15 0.96479 0.00052	11.15 0.96581 0.00053
11.30 0.97163 0.00053	11.20 0.96764 0.00051	11.20 0.96876 0.00052
11.35 0.97689 0.00051	11.25 0.97116 0.00051	11.25 0.97196 0.00051
11.40 0.97873 0.00051	11.30 0.97456 0.00050	11.30 0.97596 0.00050
11.45 0.98389 0.00051	11.35 0.97836 0.00051	11.35 0.97883 0.00051
11.50 0.98674 0.00051	11.40 0.98111 0.00051	11.40 0.98158 0.00051
11.55 0.99030 0.00052	11.45 0.98552 0.00051	11.45 0.98534 0.00050
11.60 0.99377 0.00050	11.50 0.98856 0.00051	11.50 0.98841 0.00052
11.65 0.99694 0.00051	11.55 0.99062 0.00051	11.55 0.99247 0.00051
11.70 1.00001 0.00051	11.60 0.99492 0.00052	11.60 0.99479 0.00050
11.75 1.00265 0.00053	11.65 0.99916 0.00051	11.65 0.99911 0.00051
11.80 1.00668 0.00051	11.70 1.00128 0.00051	11.70 1.00242 0.00050
11.85 1.00896 0.00050	11.75 1.00484 0.00051	11.75 1.00465 0.00052
11.90 1.01230 0.00052	11.80 1.00765 0.00051	11.80 1.00794 0.00051

11.95 1.01634 0.00052	11.85 1.01113 0.00051	11.85 1.01194 0.00052
12.00 1.02029 0.00052	11.90 1.01428 0.00051	11.90 1.01630 0.00051
12.05 1.02234 0.00051	11.95 1.01753 0.00051	11.95 1.01883 0.00051
12.10 1.02526 0.00051	12.00 1.02180 0.00050	12.00 1.02161 0.00051

239	250	359
10.60 0.92256 0.00052	10.60 0.92051 0.00050	10.80 0.92151 0.00052
10.65 0.92549 0.00050	10.65 0.92428 0.00051	10.85 0.92470 0.00051
10.70 0.92942 0.00050	10.70 0.92757 0.00051	10.90 0.92833 0.00049
10.75 0.93360 0.00051	10.75 0.93223 0.00050	10.95 0.93245 0.00052
10.80 0.93573 0.00051	10.80 0.93638 0.00051	11.00 0.93633 0.00050
10.85 0.93983 0.00051	10.85 0.93865 0.00049	11.05 0.93949 0.00053
10.90 0.94358 0.00050	10.90 0.94345 0.00050	11.10 0.94278 0.00051
10.95 0.94805 0.00052	10.95 0.94587 0.00053	11.25 0.95295 0.00052
11.00 0.95000 0.00051	11.00 0.94949 0.00052	11.30 0.95653 0.00051
11.05 0.95448 0.00053	11.05 0.95361 0.00050	11.35 0.95933 0.00051
11.10 0.95814 0.00049	11.10 0.95645 0.00050	11.40 0.96340 0.00053
11.15 0.96127 0.00051	11.15 0.96036 0.00050	11.45 0.96660 0.00050
11.20 0.96461 0.00051	11.20 0.96304 0.00051	11.50 0.96951 0.00052
11.25 0.96855 0.00052	11.25 0.96744 0.00050	11.55 0.97341 0.00052
11.30 0.97204 0.00050	11.30 0.97139 0.00049	11.60 0.97641 0.00051
11.35 0.97485 0.00051	11.35 0.97462 0.00051	11.65 0.97947 0.00050
11.40 0.97816 0.00052	11.40 0.97869 0.00052	11.70 0.98253 0.00051
11.45 0.98224 0.00051	11.45 0.98152 0.00050	11.75 0.98635 0.00052
11.50 0.98541 0.00051	11.50 0.98333 0.00052	11.80 0.98963 0.00051
11.55 0.98868 0.00054	11.55 0.98760 0.00051	11.85 0.99313 0.00050
11.60 0.99299 0.00052	11.60 0.99115 0.00050	11.90 0.99602 0.00051
11.65 0.99549 0.00052	11.65 0.99396 0.00051	11.95 0.99909 0.00053
11.70 0.99901 0.00051	11.70 0.99714 0.00050	12.00 1.00211 0.00051
11.75 1.00144 0.00051	11.75 1.00068 0.00051	12.05 1.00456 0.00051
11.80 1.00498 0.00052	11.80 1.00378 0.00051	12.10 1.00967 0.00051
11.85 1.00799 0.00052	11.85 1.00662 0.00051	12.15 1.01285 0.00051
11.90 1.01203 0.00050	11.90 1.00999 0.00052	12.20 1.01582 0.00052
11.95 1.01559 0.00051	11.95 1.01342 0.00051	12.25 1.01899 0.00050
12.00 1.01817 0.00050	12.00 1.01735 0.00052	12.30 1.02094 0.00050
12.05 1.02083 0.00051	12.05 1.01979 0.00052	
12.10 1.02441 0.00051	12.10 1.02285 0.00051	

478	500	600
11.10 0.91937 0.00051	11.20 0.92077 0.00051	11.80 0.92065 0.00049
11.15 0.92236 0.00051	11.25 0.92352 0.00052	11.85 0.92373 0.00050
11.20 0.92584 0.00051	11.30 0.92661 0.00052	11.90 0.92727 0.00052
11.25 0.92971 0.00049	11.35 0.92950 0.00050	11.95 0.92955 0.00051
11.30 0.93290 0.00052	11.40 0.93347 0.00051	12.00 0.93373 0.00049
11.35 0.93657 0.00051	11.45 0.93620 0.00051	12.05 0.93642 0.00049
11.40 0.94176 0.00050	11.50 0.94080 0.00050	12.10 0.94084 0.00049
11.45 0.94396 0.00050	11.55 0.94329 0.00051	12.15 0.94430 0.00051

11.50 0.94647 0.00051	11.60 0.94732 0.00050	12.20 0.94637 0.00050
11.55 0.94974 0.00050	11.65 0.94854 0.00051	12.25 0.94979 0.00051
11.60 0.95421 0.00051	11.70 0.95284 0.00052	12.30 0.95224 0.00050
11.65 0.95658 0.00051	11.75 0.95697 0.00051	12.35 0.95558 0.00049
11.70 0.95913 0.00052	11.80 0.96021 0.00051	12.40 0.95870 0.00050
11.75 0.96309 0.00052	11.85 0.96307 0.00052	12.45 0.96271 0.00051
11.80 0.96616 0.00050	11.90 0.96733 0.00050	12.50 0.96488 0.00050
11.85 0.97068 0.00051	11.95 0.97004 0.00052	12.55 0.96769 0.00051
11.90 0.97333 0.00051	12.00 0.97164 0.00051	12.60 0.97103 0.00052
11.95 0.97618 0.00050	12.05 0.97705 0.00049	12.65 0.97540 0.00050
12.00 0.98011 0.00051	12.10 0.97926 0.00052	12.70 0.97686 0.00050
12.05 0.98250 0.00053	12.15 0.98246 0.00052	12.75 0.98039 0.00051
12.10 0.98622 0.00051	12.20 0.98658 0.00051	12.80 0.98406 0.00051
12.15 0.98948 0.00052	12.25 0.98966 0.00050	12.85 0.98696 0.00051
12.20 0.99180 0.00052	12.30 0.99138 0.00050	12.90 0.98949 0.00052
12.25 0.99573 0.00051	12.35 0.99611 0.00051	12.95 0.99276 0.00050
12.30 0.99861 0.00051	12.40 0.99879 0.00051	13.00 0.99555 0.00051
12.35 1.00167 0.00052	12.45 1.00149 0.00050	13.05 0.99920 0.00051
12.40 1.00523 0.00050	12.50 1.00515 0.00052	13.10 1.00017 0.00050
12.45 1.00887 0.00052	12.55 1.00743 0.00050	13.15 1.00414 0.00052
12.50 1.01112 0.00050	12.60 1.01079 0.00053	13.20 1.00736 0.00050
12.55 1.01533 0.00050	12.65 1.01399 0.00052	13.25 1.01056 0.00051
12.60 1.01676 0.00050	12.70 1.01649 0.00052	13.30 1.01375 0.00051
12.65 1.02018 0.00051	12.75 1.02061 0.00053	13.35 1.01640 0.00052
12.70 1.02345 0.00051	12.80 1.02258 0.00052	13.40 1.01906 0.00052

650	660	670
12.40 0.92157 0.00051	12.60 0.92251 0.00051	12.80 0.92167 0.00049
12.45 0.92288 0.00052	12.65 0.92557 0.00051	12.85 0.92385 0.00051
12.50 0.92637 0.00050	12.70 0.92751 0.00052	12.90 0.92769 0.00050
12.55 0.92892 0.00050	12.75 0.93073 0.00053	12.95 0.92954 0.00052
12.60 0.93292 0.00050	12.80 0.93385 0.00050	13.00 0.93233 0.00052
12.65 0.93587 0.00050	12.85 0.93737 0.00051	13.05 0.93535 0.00050
12.70 0.93918 0.00051	12.90 0.94002 0.00051	13.10 0.93921 0.00049
12.75 0.94145 0.00051	12.95 0.94313 0.00051	13.15 0.94166 0.00052
12.80 0.94511 0.00050	13.00 0.94658 0.00051	13.20 0.94467 0.00050
12.85 0.94767 0.00050	13.05 0.94962 0.00051	13.25 0.94699 0.00051
12.90 0.95051 0.00051	13.10 0.95115 0.00052	13.30 0.95030 0.00050
12.95 0.95295 0.00051	13.15 0.95502 0.00051	13.35 0.95423 0.00050
13.00 0.95641 0.00050	13.20 0.95757 0.00051	13.40 0.95662 0.00051
13.05 0.95960 0.00050	13.25 0.96161 0.00050	13.45 0.95954 0.00050
13.10 0.96270 0.00051	13.30 0.96323 0.00052	13.50 0.96271 0.00050
13.15 0.96572 0.00051	13.35 0.96711 0.00050	13.55 0.96541 0.00052
13.20 0.96836 0.00051	13.40 0.96930 0.00050	13.60 0.96753 0.00052
13.25 0.97142 0.00052	13.45 0.97171 0.00050	13.65 0.96992 0.00051
13.30 0.97371 0.00050	13.50 0.97488 0.00051	13.70 0.97347 0.00050
13.35 0.97915 0.00050	13.55 0.97756 0.00052	13.75 0.97686 0.00051
13.40 0.98003 0.00052	13.60 0.98152 0.00053	13.80 0.97993 0.00051
13.45 0.98369 0.00052	13.65 0.98402 0.00052	13.85 0.98139 0.00051

13.50 0.98709 0.00051	13.70 0.98724 0.00052	13.90 0.98486 0.00050
13.55 0.98894 0.00051	13.75 0.98915 0.00051	13.95 0.98805 0.00051
13.60 0.99265 0.00051	13.80 0.99203 0.00051	14.00 0.99150 0.00051
13.65 0.99424 0.00051	13.85 0.99497 0.00051	14.05 0.99390 0.00050
13.70 0.99744 0.00052	13.90 0.99816 0.00051	14.10 0.99569 0.00052
13.75 0.99968 0.00051	13.95 1.00114 0.00050	14.15 0.99819 0.00052
13.80 1.00300 0.00052	14.00 1.00359 0.00050	14.20 1.00183 0.00049
13.85 1.00611 0.00052	14.05 1.00663 0.00052	14.25 1.00556 0.00050
13.90 1.00899 0.00052	14.10 1.00849 0.00051	14.30 1.00708 0.00052
13.95 1.01171 0.00050	14.15 1.01255 0.00052	14.35 1.00949 0.00051
14.00 1.01453 0.00052	14.20 1.01412 0.00050	14.40 1.01275 0.00052
14.05 1.01775 0.00050	14.25 1.01718 0.00051	14.45 1.01511 0.00050
14.10 1.01987 0.00051	14.30 1.01998 0.00051	14.50 1.01749 0.00053

680	690	698
13.10 0.92162 0.00050	13.50 0.91794 0.00050	14.30 0.91707 0.00051
13.20 0.92746 0.00051	13.60 0.92391 0.00051	14.40 0.92183 0.00051
13.30 0.93302 0.00050	13.70 0.92915 0.00051	14.50 0.92850 0.00051
13.40 0.93811 0.00053	13.80 0.93645 0.00051	14.60 0.93372 0.00052
13.50 0.94386 0.00051	13.90 0.94110 0.00052	14.70 0.93880 0.00051
13.60 0.95021 0.00050	14.00 0.94668 0.00051	14.80 0.94414 0.00049
13.70 0.95739 0.00050	14.10 0.95166 0.00050	14.90 0.94901 0.00051
13.80 0.96201 0.00050	14.20 0.95669 0.00051	15.00 0.95457 0.00051
13.90 0.96768 0.00050	14.30 0.96347 0.00051	15.10 0.95904 0.00051
14.00 0.97334 0.00051	14.40 0.96830 0.00052	15.20 0.96427 0.00051
14.10 0.97894 0.00050	14.50 0.97297 0.00052	15.30 0.97040 0.00051
14.20 0.98393 0.00049	14.60 0.97850 0.00050	15.40 0.97466 0.00049
14.30 0.98963 0.00052	14.70 0.98450 0.00052	15.50 0.97900 0.00051
14.40 0.99514 0.00051	14.80 0.98893 0.00050	15.60 0.98537 0.00050
14.50 1.00073 0.00051	14.90 0.99618 0.00050	15.70 0.98977 0.00051
14.60 1.00561 0.00050	15.00 1.00027 0.00051	15.80 0.99408 0.00050
14.70 1.01122 0.00051	15.10 1.00577 0.00050	15.90 0.99863 0.00052
14.80 1.01630 0.00051	15.20 1.01042 0.00051	16.00 1.00475 0.00052
14.90 1.02210 0.00051	15.30 1.01614 0.00052	16.10 1.00947 0.00050
	15.40 1.01998 0.00053	16.20 1.01408 0.00051
		16.30 1.01909 0.00050

14.30 0.99228 0.00039	13.40 0.99877 0.00040	13.20 1.00411 0.00041
14.40 0.99659 0.00039	13.50 1.00373 0.00040	13.30 1.00979 0.00042
14.50 0.99993 0.00038	13.60 1.00772 0.00040	13.40 1.01356 0.00041
14.60 1.00529 0.00038	13.70 1.01251 0.00041	13.50 1.01768 0.00041
14.70 1.00833 0.00040	13.80 1.01622 0.00040	13.60 1.02289 0.00042
14.80 1.01250 0.00040	13.90 1.02142 0.00040	
14.90 1.01609 0.00038		
15.00 1.01999 0.00037		

35	40	50
11.30 0.92275 0.00042	10.90 0.92446 0.00042	10.30 0.92045 0.00045
11.40 0.92962 0.00042	10.95 0.92690 0.00042	10.35 0.92438 0.00044
11.50 0.93504 0.00042	11.00 0.92983 0.00042	10.40 0.92751 0.00044
11.60 0.93981 0.00043	11.05 0.93234 0.00043	10.45 0.92976 0.00045
11.70 0.94672 0.00042	11.10 0.93654 0.00043	10.50 0.93386 0.00045
11.80 0.95071 0.00042	11.15 0.93966 0.00044	10.55 0.93732 0.00044
11.90 0.95703 0.00042	11.20 0.94177 0.00041	10.60 0.93996 0.00045
12.00 0.96178 0.00042	11.25 0.94433 0.00042	10.65 0.94358 0.00044
12.10 0.96742 0.00042	11.30 0.94768 0.00043	10.70 0.94621 0.00044
12.20 0.97281 0.00042	11.35 0.95001 0.00042	10.75 0.95055 0.00043
12.30 0.97812 0.00042	11.40 0.95378 0.00043	10.80 0.95310 0.00045
12.40 0.98321 0.00042	11.45 0.95657 0.00043	10.85 0.95680 0.00044
12.50 0.98849 0.00042	11.50 0.95983 0.00043	10.90 0.95903 0.00046
12.60 0.99421 0.00041	11.55 0.96180 0.00042	10.95 0.96202 0.00045
12.70 0.99857 0.00041	11.60 0.96557 0.00043	11.00 0.96622 0.00044
12.80 1.00363 0.00042	11.65 0.96765 0.00043	11.05 0.96923 0.00045
12.90 1.00903 0.00041	11.70 0.97015 0.00043	11.10 0.97151 0.00044
13.00 1.01319 0.00042	11.75 0.97432 0.00042	11.15 0.97513 0.00044
13.10 1.01865 0.00041	11.80 0.97664 0.00043	11.20 0.97852 0.00045
	11.85 0.97907 0.00044	11.25 0.98023 0.00045
	11.90 0.98249 0.00042	11.30 0.98302 0.00044
	11.95 0.98411 0.00043	11.35 0.98681 0.00044
	12.00 0.98785 0.00042	11.40 0.99096 0.00045
	12.05 0.99053 0.00044	11.45 0.99375 0.00043
	12.10 0.99249 0.00043	11.50 0.99550 0.00044
	12.15 0.99463 0.00043	11.55 0.99850 0.00043
	12.20 0.99839 0.00043	11.60 1.00128 0.00045
	12.25 1.00064 0.00043	11.65 1.00398 0.00044
	12.30 1.00406 0.00043	11.70 1.00671 0.00045
	12.35 1.00586 0.00042	11.75 1.01025 0.00045
	12.40 1.00876 0.00043	11.80 1.01311 0.00044
	12.45 1.01023 0.00042	11.85 1.01541 0.00043
	12.50 1.01419 0.00043	11.90 1.01811 0.00044
	12.55 1.01691 0.00043	
	12.60 1.01964 0.00043	

60	70	80
10.00 0.92315 0.00046	9.70 0.91758 0.00046	9.50 0.91570 0.00047
10.05 0.92677 0.00045	9.75 0.92216 0.00046	9.55 0.92018 0.00046
10.10 0.93011 0.00045	9.80 0.92553 0.00045	9.60 0.92307 0.00045
10.15 0.93325 0.00044	9.85 0.93002 0.00046	9.65 0.92621 0.00045
10.20 0.93630 0.00044	9.90 0.93269 0.00046	9.70 0.93081 0.00045
10.25 0.94033 0.00045	9.95 0.93630 0.00046	9.75 0.93462 0.00046
10.30 0.94395 0.00045	10.00 0.94004 0.00045	9.80 0.93753 0.00045
10.35 0.94713 0.00046	10.05 0.94337 0.00045	9.85 0.94149 0.00046
10.40 0.95039 0.00045	10.10 0.94647 0.00045	9.90 0.94465 0.00046
10.45 0.95479 0.00046	10.15 0.95072 0.00044	9.95 0.94949 0.00045
10.50 0.95801 0.00045	10.20 0.95390 0.00045	10.00 0.95238 0.00047
10.55 0.95948 0.00047	10.25 0.95762 0.00047	10.05 0.95540 0.00044
10.60 0.96328 0.00045	10.30 0.96075 0.00045	10.10 0.95824 0.00047
10.65 0.96646 0.00044	10.35 0.96348 0.00045	10.15 0.96266 0.00045
10.70 0.96986 0.00044	10.40 0.96746 0.00045	10.20 0.96520 0.00047
10.75 0.97366 0.00045	10.45 0.97108 0.00045	10.25 0.96916 0.00047
10.80 0.97716 0.00045	10.50 0.97377 0.00047	10.30 0.97200 0.00044
10.85 0.97932 0.00045	10.55 0.97717 0.00045	10.35 0.97601 0.00045
10.90 0.98250 0.00046	10.60 0.97997 0.00046	10.40 0.97964 0.00047
10.95 0.98559 0.00045	10.70 0.98686 0.00045	10.45 0.98231 0.00047
11.00 0.98871 0.00045	10.75 0.99014 0.00045	10.50 0.98563 0.00047
11.05 0.99222 0.00043	10.80 0.99308 0.00047	10.55 0.98901 0.00046
11.10 0.99436 0.00045	10.85 0.99618 0.00046	10.60 0.99327 0.00046
11.15 0.99894 0.00046	10.90 1.00016 0.00047	10.65 0.99509 0.00045
11.20 1.00073 0.00046	10.95 1.00357 0.00046	10.70 0.99884 0.00046
11.25 1.00413 0.00045	11.00 1.00620 0.00047	10.75 1.00265 0.00047
11.30 1.00696 0.00045	11.05 1.00903 0.00046	10.80 1.00555 0.00047
11.35 1.00998 0.00046	11.10 1.01244 0.00045	10.85 1.00773 0.00047
11.40 1.01288 0.00046	11.15 1.01448 0.00046	10.90 1.01116 0.00048
11.45 1.01589 0.00046	11.20 1.01829 0.00044	10.95 1.01467 0.00047
11.50 1.01936 0.00046		11.00 1.01785 0.00047

90	100	120
9.40 0.91721 0.00046	9.30 0.91622 0.00046	9.20 0.91729 0.00047
9.45 0.92148 0.00045	9.35 0.92046 0.00047	9.25 0.92158 0.00046
9.50 0.92507 0.00046	9.40 0.92386 0.00045	9.30 0.92579 0.00047
9.55 0.92921 0.00046	9.45 0.92724 0.00047	9.35 0.92900 0.00046
9.60 0.93279 0.00047	9.50 0.93164 0.00047	9.40 0.93318 0.00048
9.65 0.93620 0.00048	9.55 0.93529 0.00047	9.45 0.93704 0.00047
9.70 0.93930 0.00047	9.60 0.93811 0.00046	9.50 0.94052 0.00046
9.75 0.94319 0.00047	9.65 0.94212 0.00047	9.55 0.94404 0.00046
9.80 0.94683 0.00046	9.70 0.94657 0.00047	9.60 0.94743 0.00046
9.85 0.95104 0.00046	9.75 0.94986 0.00047	9.65 0.95162 0.00048
9.90 0.95438 0.00046	9.80 0.95350 0.00048	9.70 0.95504 0.00047
9.95 0.95708 0.00046	9.85 0.95713 0.00045	9.75 0.95887 0.00047
10.00 0.96067 0.00046	9.90 0.96054 0.00046	9.80 0.96236 0.00048
10.05 0.96446 0.00045	9.95 0.96430 0.00046	9.85 0.96585 0.00048
10.10 0.96802 0.00047	10.00 0.96791 0.00046	9.90 0.96942 0.00046

10.15 0.97205 0.00045	10.05 0.97024 0.00047	9.95 0.97221 0.00047
10.20 0.97375 0.00047	10.10 0.97444 0.00047	10.00 0.97640 0.00046
10.25 0.97757 0.00047	10.15 0.97842 0.00048	10.05 0.97944 0.00048
10.30 0.98139 0.00048	10.20 0.98058 0.00048	10.10 0.98268 0.00045
10.35 0.98459 0.00048	10.25 0.98395 0.00047	10.15 0.98644 0.00047
10.40 0.98830 0.00047	10.30 0.98847 0.00047	10.20 0.98923 0.00047
10.45 0.99138 0.00047	10.35 0.99182 0.00047	10.25 0.99375 0.00048
10.50 0.99458 0.00046	10.40 0.99466 0.00047	10.30 0.99707 0.00047
10.55 0.99823 0.00046	10.45 0.99808 0.00048	10.35 1.00035 0.00047
10.60 1.00149 0.00046	10.50 1.00118 0.00046	10.40 1.00317 0.00048
10.65 1.00433 0.00047	10.55 1.00400 0.00047	10.45 1.00667 0.00048
10.70 1.00840 0.00047	10.60 1.00807 0.00047	10.50 1.01024 0.00047
10.75 1.01107 0.00047	10.65 1.01178 0.00047	10.55 1.01295 0.00047
10.80 1.01553 0.00046	10.70 1.01475 0.00046	10.60 1.01647 0.00046
10.85 1.01649 0.00048	10.75 1.01786 0.00048	10.65 1.02006 0.00046
10.90 1.02058 0.00048	10.80 1.02090 0.00047	10.70 1.02326 0.00047

130	150	200
9.20 0.92153 0.00047	9.10 0.91866 0.00047	9.10 0.92278 0.00047
9.25 0.92538 0.00048	9.15 0.92124 0.00048	9.15 0.92535 0.00046
9.30 0.92880 0.00047	9.20 0.92567 0.00046	9.20 0.93085 0.00046
9.35 0.93328 0.00046	9.25 0.92991 0.00046	9.25 0.93394 0.00048
9.40 0.93621 0.00046	9.30 0.93297 0.00048	9.30 0.93706 0.00047
9.45 0.93993 0.00046	9.35 0.93682 0.00046	9.35 0.94095 0.00047
9.50 0.94416 0.00048	9.40 0.94015 0.00048	9.40 0.94478 0.00046
9.55 0.94775 0.00048	9.45 0.94513 0.00046	9.45 0.94848 0.00047
9.60 0.95034 0.00047	9.50 0.94744 0.00047	9.50 0.95227 0.00050
9.65 0.95484 0.00047	9.55 0.95190 0.00048	9.55 0.95578 0.00047
9.70 0.95844 0.00047	9.60 0.95592 0.00047	9.60 0.95961 0.00047
9.75 0.96212 0.00047	9.65 0.95959 0.00046	9.65 0.96254 0.00047
9.80 0.96600 0.00047	9.70 0.96262 0.00047	9.70 0.96716 0.00048
9.90 0.97215 0.00046	9.75 0.96576 0.00048	9.75 0.97028 0.00047
9.95 0.97605 0.00046	9.80 0.96936 0.00049	9.80 0.97303 0.00047
10.00 0.97971 0.00046	9.85 0.97481 0.00046	9.85 0.97694 0.00048
10.05 0.98262 0.00047	9.90 0.97623 0.00047	9.90 0.98086 0.00048
10.10 0.98544 0.00046	9.95 0.97950 0.00048	9.95 0.98425 0.00047
10.15 0.98962 0.00048	10.00 0.98448 0.00047	10.00 0.98740 0.00048
10.20 0.99313 0.00048	10.05 0.98733 0.00048	10.05 0.99111 0.00048
10.25 0.99737 0.00047	10.10 0.99084 0.00046	10.10 0.99440 0.00046
10.30 1.00045 0.00047	10.15 0.99429 0.00046	10.15 0.99817 0.00047
10.35 1.00421 0.00049	10.20 0.99802 0.00047	10.20 1.00095 0.00047
10.40 1.00749 0.00047	10.25 1.00011 0.00047	10.25 1.00521 0.00048
10.45 1.01093 0.00047	10.30 1.00402 0.00047	10.30 1.00881 0.00047
10.50 1.01295 0.00048	10.35 1.00763 0.00047	10.35 1.01068 0.00047
10.55 1.01621 0.00046	10.40 1.01128 0.00047	10.40 1.01488 0.00047
10.60 1.02010 0.00048	10.45 1.01495 0.00047	10.45 1.01766 0.00048
	10.50 1.01755 0.00047	10.50 1.02089 0.00047

239	250	359
9.10 0.92241 0.00047	9.10 0.92129 0.00046	9.20 0.92015 0.00047
9.15 0.92561 0.00048	9.15 0.92468 0.00048	9.25 0.92435 0.00047
9.20 0.92958 0.00047	9.20 0.92844 0.00047	9.30 0.92777 0.00047
9.25 0.93248 0.00048	9.25 0.93307 0.00047	9.35 0.93068 0.00047
9.30 0.93722 0.00047	9.30 0.93723 0.00048	9.40 0.93533 0.00047
9.35 0.94108 0.00047	9.35 0.93947 0.00046	9.45 0.93909 0.00048
9.40 0.94470 0.00048	9.40 0.94351 0.00047	9.50 0.94171 0.00048
9.45 0.94807 0.00047	9.45 0.94823 0.00046	9.55 0.94595 0.00046
9.50 0.95087 0.00047	9.50 0.95148 0.00048	9.60 0.94883 0.00048
9.55 0.95503 0.00047	9.55 0.95473 0.00048	9.65 0.95246 0.00048
9.60 0.95894 0.00049	9.60 0.95798 0.00047	9.70 0.95606 0.00047
9.65 0.96270 0.00047	9.65 0.96191 0.00047	9.75 0.95950 0.00047
9.70 0.96522 0.00046	9.70 0.96487 0.00046	9.80 0.96309 0.00047
9.75 0.96948 0.00047	9.75 0.96851 0.00047	9.85 0.96662 0.00048
9.80 0.97392 0.00047	9.80 0.97200 0.00048	9.90 0.97039 0.00048
9.85 0.97544 0.00047	9.85 0.97512 0.00048	9.95 0.97326 0.00047
9.90 0.98023 0.00048	9.90 0.97977 0.00047	10.00 0.97696 0.00048
9.95 0.98337 0.00049	9.95 0.98216 0.00046	10.05 0.98108 0.00049
10.00 0.98633 0.00047	10.00 0.98642 0.00046	10.10 0.98364 0.00048
10.05 0.99089 0.00047	10.05 0.98943 0.00047	10.15 0.98738 0.00048
10.10 0.99442 0.00047	10.10 0.99300 0.00047	10.20 0.99055 0.00048
10.15 0.99612 0.00047	10.15 0.99569 0.00048	10.25 0.99315 0.00047
10.20 1.00070 0.00046	10.20 1.00009 0.00048	10.30 0.99629 0.00046
10.25 1.00326 0.00048	10.25 1.00357 0.00049	10.35 1.00013 0.00048
10.30 1.00717 0.00047	10.30 1.00642 0.00046	10.40 1.00341 0.00048
10.35 1.01031 0.00047	10.35 1.00923 0.00048	10.45 1.00651 0.00048
10.40 1.01311 0.00048	10.40 1.01201 0.00048	10.50 1.00967 0.00049
10.45 1.01658 0.00048	10.45 1.01642 0.00047	10.55 1.01268 0.00047
10.50 1.02061 0.00048	10.50 1.01909 0.00047	10.60 1.01632 0.00046
		10.65 1.01967 0.00047
		10.70 1.02295 0.00046
478	500	600
9.40 0.91818 0.00047	9.50 0.91960 0.00048	10.00 0.92410 0.00046
9.45 0.92181 0.00047	9.55 0.92307 0.00048	10.05 0.92594 0.00048
9.50 0.92495 0.00047	9.60 0.92794 0.00047	10.10 0.93116 0.00046
9.55 0.92826 0.00047	9.65 0.93105 0.00049	10.15 0.93418 0.00046
9.60 0.93184 0.00047	9.70 0.93407 0.00047	10.20 0.93752 0.00047
9.65 0.93518 0.00049	9.75 0.93775 0.00046	10.25 0.94071 0.00046
9.70 0.93874 0.00048	9.80 0.94102 0.00047	10.30 0.94458 0.00047
9.75 0.94261 0.00047	9.85 0.94409 0.00046	10.35 0.94723 0.00048
9.80 0.94571 0.00047	9.90 0.94844 0.00048	10.40 0.95035 0.00046
9.85 0.94973 0.00048	9.95 0.95179 0.00048	10.45 0.95318 0.00047
9.90 0.95344 0.00047	10.00 0.95421 0.00047	10.50 0.95652 0.00046
9.95 0.95555 0.00047	10.05 0.95722 0.00047	10.55 0.95996 0.00047
10.00 0.95973 0.00048	10.10 0.96184 0.00047	10.60 0.96262 0.00047
10.05 0.96310 0.00047	10.15 0.96509 0.00048	10.65 0.96700 0.00048

10.10 0.96656 0.00047	10.20 0.96876 0.00047	10.70 0.96964 0.00046
10.15 0.96918 0.00048	10.25 0.97156 0.00048	10.75 0.97178 0.00047
10.20 0.97344 0.00047	10.30 0.97520 0.00047	10.80 0.97558 0.00047
10.25 0.97671 0.00047	10.35 0.97768 0.00049	10.85 0.97779 0.00047
10.30 0.97910 0.00048	10.40 0.98179 0.00047	10.90 0.98184 0.00048
10.35 0.98268 0.00048	10.45 0.98445 0.00047	10.95 0.98511 0.00046
10.40 0.98643 0.00048	10.50 0.98755 0.00047	11.00 0.98739 0.00048
10.45 0.98945 0.00047	10.55 0.99041 0.00048	11.05 0.99069 0.00047
10.50 0.99249 0.00047	10.60 0.99317 0.00046	11.10 0.99382 0.00048
10.55 0.99492 0.00047	10.65 0.99778 0.00047	11.15 0.99580 0.00049
10.60 0.99943 0.00049	10.70 1.00109 0.00048	11.20 0.99850 0.00049
10.65 1.00202 0.00047	10.75 1.00302 0.00047	11.25 1.00188 0.00048
10.70 1.00418 0.00048	10.80 1.00659 0.00049	11.30 1.00575 0.00048
10.75 1.00826 0.00046	10.85 1.00831 0.00047	11.35 1.00872 0.00047
10.80 1.01097 0.00047	10.90 1.01282 0.00048	11.40 1.01080 0.00046
10.85 1.01420 0.00048	10.95 1.01541 0.00048	11.45 1.01419 0.00049
10.90 1.01800 0.00047	11.00 1.01909 0.00048	11.50 1.01739 0.00049
	11.05 1.02213 0.00048	

650	660	670
10.40 0.92038 0.00046	10.60 0.92483 0.00046	10.70 0.92093 0.00047
10.45 0.92376 0.00047	10.65 0.92780 0.00046	10.75 0.92379 0.00046
10.50 0.92631 0.00045	10.70 0.93182 0.00047	10.80 0.92728 0.00046
10.55 0.92934 0.00048	10.75 0.93467 0.00047	10.85 0.92990 0.00046
10.60 0.93254 0.00048	10.80 0.93605 0.00047	10.90 0.93341 0.00048
10.65 0.93645 0.00045	10.85 0.93939 0.00047	10.95 0.93610 0.00047
10.70 0.93958 0.00046	10.90 0.94279 0.00047	11.00 0.93941 0.00048
10.75 0.94223 0.00047	10.95 0.94583 0.00046	11.05 0.94155 0.00048
10.80 0.94550 0.00047	11.00 0.94891 0.00048	11.10 0.94546 0.00047
10.85 0.94831 0.00047	11.05 0.95228 0.00048	11.30 0.95712 0.00046
10.90 0.95224 0.00048	11.10 0.95343 0.00045	11.35 0.95938 0.00047
10.95 0.95378 0.00047	11.15 0.95838 0.00046	11.40 0.96280 0.00048
11.00 0.95820 0.00047	11.20 0.96100 0.00048	11.45 0.96522 0.00049
11.05 0.96030 0.00047	11.25 0.96323 0.00047	11.50 0.96897 0.00048
11.10 0.96468 0.00046	11.30 0.96711 0.00047	11.55 0.97029 0.00047
11.15 0.96612 0.00047	11.35 0.96945 0.00047	11.60 0.97425 0.00047
11.20 0.96919 0.00048	11.40 0.97278 0.00047	11.65 0.97686 0.00046
11.25 0.97323 0.00047	11.45 0.97588 0.00047	11.70 0.97954 0.00048
11.30 0.97587 0.00046	11.50 0.97870 0.00047	11.75 0.98293 0.00048
11.35 0.97805 0.00047	11.55 0.98158 0.00048	11.80 0.98546 0.00049
11.40 0.98165 0.00047	11.60 0.98389 0.00047	11.85 0.98783 0.00047
11.45 0.98450 0.00047	11.65 0.98718 0.00047	11.90 0.98987 0.00047
11.50 0.98682 0.00048	11.85 0.99853 0.00047	11.95 0.99375 0.00049
11.55 0.98965 0.00047	11.90 1.00148 0.00048	12.00 0.99643 0.00047
11.60 0.99326 0.00048	11.95 1.00437 0.00048	12.05 0.99903 0.00048
11.65 0.99609 0.00047	12.00 1.00645 0.00048	12.10 1.00185 0.00047
11.70 0.99827 0.00048	12.05 1.00935 0.00046	12.15 1.00396 0.00047
11.75 1.00150 0.00047	12.10 1.01273 0.00048	12.20 1.00859 0.00048
11.80 1.00393 0.00047	12.15 1.01473 0.00047	12.25 1.01057 0.00048

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11.85 1.00715 0.00048	12.20 1.01637 0.00047	12.30 1.01305 0.00048
11.90 1.00966 0.00047	12.25 1.02025 0.00047	12.35 1.01513 0.00047
11.95 1.01230 0.00047	12.30 1.02280 0.00048	12.40 1.01701 0.00047
12.00 1.01543 0.00047		
12.05 1.01783 0.00047		
12.10 1.02080 0.00048		

680	690	698
10.90 0.92021 0.00048	11.20 0.91749 0.00048	11.90 0.92343 0.00048
11.00 0.92589 0.00047	11.30 0.92326 0.00047	12.00 0.92827 0.00046
11.10 0.93278 0.00048	11.40 0.92927 0.00047	12.10 0.93300 0.00047
11.20 0.93687 0.00046	11.50 0.93537 0.00046	12.20 0.93817 0.00046
11.30 0.94390 0.00049	11.60 0.94024 0.00046	12.30 0.94482 0.00047
11.40 0.94957 0.00047	11.70 0.94602 0.00046	12.40 0.94994 0.00046
11.50 0.95547 0.00046	11.80 0.95169 0.00047	12.50 0.95406 0.00047
11.60 0.96114 0.00047	11.90 0.95766 0.00047	12.60 0.96028 0.00049
11.70 0.96610 0.00047	12.00 0.96314 0.00048	12.70 0.96458 0.00047
11.80 0.97140 0.00047	12.10 0.96816 0.00048	12.80 0.96912 0.00046
11.90 0.97734 0.00048	12.20 0.97390 0.00047	12.90 0.97505 0.00047
12.00 0.98284 0.00048	12.30 0.97830 0.00047	13.00 0.98019 0.00047
12.10 0.98855 0.00046	12.40 0.98399 0.00047	13.10 0.98457 0.00047
12.20 0.99435 0.00047	12.50 0.98956 0.00047	13.20 0.99057 0.00048
12.30 0.99945 0.00047	12.60 0.99535 0.00046	13.30 0.99457 0.00046
12.40 1.00475 0.00047	12.70 0.99909 0.00048	13.40 0.99979 0.00047
12.50 1.00980 0.00046	12.80 1.00540 0.00047	13.50 1.00402 0.00047
12.60 1.01501 0.00049	12.90 1.00965 0.00047	13.60 1.00948 0.00047
12.70 1.02023 0.00048	13.00 1.01596 0.00047	13.70 1.01400 0.00046
	13.10 1.02025 0.00047	13.80 1.01897 0.00047

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12	15	20
26.10 0.92694 0.00030	21.30 0.92270 0.00035	18.00 0.92147 0.00041
26.50 0.93220 0.00030	21.50 0.92740 0.00035	18.10 0.92524 0.00039
26.90 0.93858 0.00029	21.70 0.93223 0.00035	18.20 0.92782 0.00040
27.30 0.94411 0.00030	21.90 0.93656 0.00034	18.30 0.93279 0.00041
27.70 0.94778 0.00030	22.10 0.94136 0.00034	18.40 0.93514 0.00040
28.10 0.95384 0.00029	22.30 0.94487 0.00034	18.50 0.93828 0.00039
28.50 0.95830 0.00029	22.50 0.94966 0.00034	18.60 0.94258 0.00039
28.90 0.96265 0.00029	22.70 0.95395 0.00034	18.70 0.94604 0.00039
29.30 0.96786 0.00028	22.90 0.95815 0.00034	18.80 0.94916 0.00039
29.70 0.97245 0.00028	23.10 0.96166 0.00034	18.90 0.95125 0.00038
30.10 0.97654 0.00029	23.30 0.96572 0.00033	19.00 0.95426 0.00040
30.50 0.98030 0.00028	23.50 0.97000 0.00034	19.10 0.95775 0.00039
30.90 0.98462 0.00029	23.70 0.97287 0.00034	19.20 0.96116 0.00039
31.30 0.98767 0.00028	23.90 0.97699 0.00034	19.30 0.96503 0.00039
31.70 0.99252 0.00027	24.10 0.98147 0.00033	19.40 0.96811 0.00038
32.10 0.99597 0.00028	24.30 0.98417 0.00034	19.50 0.97044 0.00039
32.50 0.99967 0.00027	24.50 0.98829 0.00033	19.60 0.97368 0.00038
32.90 1.00268 0.00027	24.70 0.99179 0.00034	19.70 0.97616 0.00040
33.30 1.00643 0.00027	24.90 0.99615 0.00032	19.80 0.97997 0.00039
33.70 1.00900 0.00026	25.10 0.99860 0.00033	19.90 0.98115 0.00038
34.00 1.01171 0.00027	25.30 1.00212 0.00033	20.00 0.98512 0.00038
	25.50 1.00509 0.00033	20.10 0.98824 0.00039
	25.70 1.00799 0.00032	20.20 0.99013 0.00040
	25.90 1.01138 0.00033	20.30 0.99256 0.00038
	26.10 1.01516 0.00031	20.40 0.99604 0.00038
		20.50 0.99876 0.00040
		20.60 1.00218 0.00038
		20.70 1.00374 0.00039
		20.80 1.00654 0.00039
		20.90 1.00933 0.00039
		21.00 1.01184 0.00038
		21.10 1.01480 0.00038
		21.20 1.01737 0.00037
25	30	32
16.40 0.92077 0.00043	15.50 0.92168 0.00045	15.20 0.92085 0.00045
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16.60 0.92825 0.00043	15.70 0.93118 0.00045	15.40 0.93021 0.00045
16.70 0.93369 0.00043	15.80 0.93582 0.00045	15.50 0.93565 0.00047
16.80 0.93790 0.00043	15.90 0.94191 0.00046	15.60 0.94017 0.00044
16.90 0.94116 0.00042	16.00 0.94568 0.00045	15.70 0.94535 0.00046
17.00 0.94545 0.00043	16.10 0.95143 0.00045	15.80 0.94892 0.00046
17.10 0.95038 0.00042	16.20 0.95553 0.00044	15.90 0.95501 0.00045
17.20 0.95366 0.00042	16.30 0.95948 0.00044	16.00 0.95969 0.00045
17.30 0.95679 0.00044	16.40 0.96378 0.00045	16.10 0.96364 0.00046
17.40 0.96200 0.00042	16.50 0.96947 0.00044	16.20 0.96835 0.00045

17.50 0.96562 0.00043	16.60 0.97155 0.00044	16.30 0.97247 0.00046
17.60 0.96895 0.00042	16.70 0.97660 0.00044	16.40 0.97840 0.00046
17.70 0.97228 0.00042	16.80 0.98037 0.00044	16.50 0.98217 0.00044
17.80 0.97703 0.00041	16.90 0.98440 0.00044	16.60 0.98529 0.00046
17.90 0.98046 0.00042	17.00 0.98932 0.00044	16.70 0.99063 0.00044
18.00 0.98428 0.00041	17.10 0.99299 0.00045	16.80 0.99515 0.00045
18.10 0.98709 0.00042	17.20 0.99741 0.00045	16.90 0.99962 0.00045
18.20 0.99139 0.00041	17.30 1.00196 0.00045	17.00 1.00373 0.00046
18.30 0.99551 0.00043	17.40 1.00548 0.00044	17.10 1.00772 0.00045
18.40 0.99824 0.00043	17.50 1.00888 0.00045	17.20 1.01241 0.00045
18.50 1.00152 0.00041	17.60 1.01417 0.00044	17.30 1.01587 0.00044
18.60 1.00601 0.00041	17.70 1.01753 0.00044	17.40 1.01919 0.00044
18.70 1.00906 0.00042		
18.80 1.01241 0.00041		
18.90 1.01627 0.00041		
19.00 1.01859 0.00042		

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14.90 0.92329 0.00046	14.50 0.92518 0.00047	13.90 0.92344 0.00049
15.00 0.92812 0.00047	14.60 0.93063 0.00048	14.00 0.93006 0.00051
15.10 0.93359 0.00046	14.70 0.93567 0.00048	14.10 0.93584 0.00051
15.20 0.93843 0.00046	14.80 0.94131 0.00048	14.20 0.94103 0.00050
15.30 0.94335 0.00046	14.90 0.94652 0.00046	14.30 0.94707 0.00050
15.40 0.94822 0.00046	15.00 0.95197 0.00048	14.40 0.95322 0.00047
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15.60 0.95746 0.00045	15.20 0.96394 0.00047	14.60 0.96468 0.00051
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15.80 0.96758 0.00047	15.40 0.97254 0.00048	14.80 0.97507 0.00050
15.90 0.97251 0.00047	15.50 0.97835 0.00048	14.90 0.98070 0.00049
16.00 0.97753 0.00048	15.60 0.98260 0.00048	15.00 0.98682 0.00049
16.10 0.98177 0.00046	15.70 0.98721 0.00048	15.10 0.99083 0.00048
16.20 0.98710 0.00046	15.80 0.99260 0.00047	15.20 0.99616 0.00048
16.40 0.99615 0.00047	15.90 0.99673 0.00049	15.30 1.00188 0.00049
16.50 1.00008 0.00047	16.00 1.00242 0.00048	15.40 1.00667 0.00049
16.60 1.00459 0.00046	16.10 1.00523 0.00046	15.50 1.01097 0.00050
16.70 1.00944 0.00046	16.20 1.01114 0.00048	15.60 1.01834 0.00048
16.80 1.01390 0.00046	16.30 1.01627 0.00048	15.70 1.02287 0.00049
16.90 1.01762 0.00046	16.40 1.02029 0.00048	

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13.55 0.92280 0.00049	13.35 0.92439 0.00051	13.15 0.92034 0.00052
13.60 0.92603 0.00051	13.40 0.92720 0.00051	13.20 0.92352 0.00051
13.65 0.92961 0.00049	13.45 0.93035 0.00050	13.25 0.92749 0.00051
13.70 0.93246 0.00052	13.50 0.93447 0.00051	13.30 0.93070 0.00052
13.75 0.93651 0.00050	13.55 0.93657 0.00052	13.35 0.93389 0.00052

13.80 0.93886 0.00051	13.60 0.93967 0.00050	13.40 0.93746 0.00051
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13.90 0.94414 0.00049	13.70 0.94435 0.00051	13.50 0.94380 0.00050
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14.00 0.95024 0.00050	13.80 0.95170 0.00051	13.60 0.94949 0.00051
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14.10 0.95659 0.00050	13.90 0.95952 0.00051	13.70 0.95522 0.00051
14.15 0.96007 0.00050	13.95 0.96082 0.00051	13.75 0.95974 0.00051
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14.30 0.96927 0.00050	14.10 0.97150 0.00052	13.90 0.96908 0.00052
14.35 0.97229 0.00051	14.15 0.97368 0.00053	13.95 0.97239 0.00051
14.40 0.97433 0.00051	14.20 0.97585 0.00049	14.00 0.97426 0.00051
14.45 0.97770 0.00051	14.25 0.97980 0.00052	14.05 0.97726 0.00052
14.50 0.97955 0.00050	14.30 0.98292 0.00052	14.10 0.98125 0.00052
14.55 0.98210 0.00051	14.35 0.98595 0.00050	14.15 0.98469 0.00052
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14.70 0.99200 0.00050	14.50 0.99407 0.00052	14.30 0.99262 0.00052
14.75 0.99458 0.00049	14.55 0.99716 0.00050	14.35 0.99614 0.00051
14.80 0.99698 0.00050	14.60 1.00004 0.00051	14.40 0.99882 0.00052
14.85 0.99973 0.00050	14.65 1.00275 0.00050	14.45 1.00199 0.00051
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14.95 1.00548 0.00051	14.75 1.00870 0.00050	14.55 1.00735 0.00053
15.00 1.00809 0.00050	14.80 1.01177 0.00052	14.60 1.00991 0.00052
15.05 1.01185 0.00051	14.85 1.01432 0.00051	14.65 1.01282 0.00052
15.10 1.01344 0.00049	14.90 1.01722 0.00051	14.70 1.01578 0.00051
15.15 1.01652 0.00049	14.95 1.01999 0.00050	14.75 1.01980 0.00052
15.20 1.01978 0.00051	15.00 1.02222 0.00051	14.80 1.02171 0.00053

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13.10 0.92541 0.00052	13.00 0.92199 0.00053	13.00 0.92644 0.00053
13.15 0.92799 0.00051	13.05 0.92627 0.00053	13.05 0.93123 0.00053
13.20 0.93189 0.00051	13.10 0.92904 0.00051	13.10 0.93497 0.00053
13.25 0.93428 0.00052	13.15 0.93281 0.00052	13.15 0.93784 0.00053
13.30 0.93751 0.00052	13.20 0.93706 0.00051	13.20 0.94167 0.00051
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13.40 0.94559 0.00052	13.30 0.94281 0.00050	13.30 0.94755 0.00052
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13.55 0.95360 0.00052	13.45 0.95259 0.00052	13.45 0.95814 0.00052
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14.00 0.98257 0.00050	13.90 0.98163 0.00052	13.90 0.98684 0.00052
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14.10 0.98813 0.00053	14.00 0.98736 0.00053	14.00 0.99228 0.00053
14.15 0.99149 0.00051	14.05 0.99038 0.00053	14.05 0.99566 0.00053
14.20 0.99474 0.00052	14.10 0.99538 0.00051	14.10 0.99885 0.00053
14.25 0.99663 0.00052	14.15 0.99699 0.00053	14.15 1.00119 0.00053
14.30 1.00046 0.00052	14.20 1.00022 0.00052	14.20 1.00470 0.00053
14.35 1.00298 0.00050	14.25 1.00309 0.00054	14.25 1.00841 0.00053
14.40 1.00577 0.00052	14.30 1.00653 0.00052	14.30 1.01067 0.00053
14.45 1.00874 0.00052	14.35 1.00883 0.00052	14.35 1.01368 0.00052
14.50 1.01218 0.00052	14.40 1.01311 0.00052	14.40 1.01677 0.00052
14.55 1.01468 0.00051	14.45 1.01470 0.00052	14.45 1.01927 0.00051
14.60 1.01831 0.00052	14.50 1.01710 0.00051	14.50 1.02251 0.00052
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14.70 1.02414 0.00052	14.60 1.02358 0.00053	

130	150	200
12.80 0.91519 0.00053	12.80 0.91655 0.00053	12.80 0.91487 0.00054
12.85 0.91914 0.00051	12.85 0.92017 0.00052	12.85 0.91794 0.00052
12.90 0.92210 0.00051	12.90 0.92414 0.00053	12.90 0.92207 0.00052
12.95 0.92570 0.00054	12.95 0.92804 0.00052	12.95 0.92428 0.00053
13.00 0.92997 0.00052	13.00 0.93073 0.00051	13.00 0.92776 0.00052
13.05 0.93217 0.00052	13.05 0.93376 0.00052	13.05 0.93179 0.00054
13.10 0.93623 0.00052	13.10 0.93859 0.00052	13.10 0.93486 0.00053
13.15 0.93928 0.00052	13.15 0.94045 0.00052	13.15 0.93817 0.00053
13.20 0.94328 0.00053	13.20 0.94428 0.00053	13.20 0.94267 0.00053
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13.45 0.95909 0.00053	13.45 0.96144 0.00053	13.45 0.95890 0.00053
13.50 0.96303 0.00053	13.50 0.96366 0.00052	13.50 0.96220 0.00052
13.55 0.96505 0.00053	13.55 0.96795 0.00052	13.55 0.96633 0.00054
13.60 0.96817 0.00053	13.60 0.97025 0.00053	13.60 0.96904 0.00051
13.65 0.97178 0.00053	13.65 0.97481 0.00052	13.65 0.97169 0.00053
13.70 0.97510 0.00055	13.70 0.97691 0.00052	13.70 0.97504 0.00054
13.75 0.97945 0.00053	13.75 0.98094 0.00053	13.75 0.97757 0.00053
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13.85 0.98433 0.00054	13.85 0.98686 0.00052	13.85 0.98423 0.00053
13.90 0.98761 0.00053	13.90 0.98908 0.00052	13.90 0.98780 0.00054
13.95 0.99172 0.00052	13.95 0.99331 0.00052	13.95 0.99066 0.00052
14.00 0.99436 0.00054	14.00 0.99687 0.00052	14.00 0.99383 0.00053
14.05 0.99803 0.00052	14.05 0.99967 0.00053	14.05 0.99702 0.00051
14.10 1.00064 0.00052	14.10 1.00186 0.00053	14.10 0.99999 0.00053
14.15 1.00347 0.00052	14.15 1.00563 0.00052	14.15 1.00355 0.00052
14.20 1.00670 0.00052	14.20 1.00882 0.00052	14.20 1.00520 0.00053
14.25 1.01071 0.00053	14.25 1.01210 0.00052	14.25 1.00868 0.00054

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14.30 1.01287 0.00052	14.30 1.01400 0.00053	14.30 1.01204 0.00051
14.35 1.01645 0.00053	14.35 1.01840 0.00052	14.35 1.01507 0.00052
14.40 1.01992 0.00052	14.40 1.02034 0.00051	14.40 1.01805 0.00052

239	250	359
12.90 0.91816 0.00051	12.90 0.91610 0.00052	13.20 0.92205 0.00052
13.00 0.92413 0.00053	12.95 0.91954 0.00053	13.25 0.92495 0.00051
13.05 0.92869 0.00054	13.00 0.92344 0.00053	13.30 0.92706 0.00052
13.10 0.93218 0.00053	13.05 0.92694 0.00053	13.35 0.93182 0.00051
13.15 0.93440 0.00050	13.10 0.93023 0.00053	13.40 0.93467 0.00052
13.20 0.93881 0.00051	13.15 0.93309 0.00052	13.45 0.93710 0.00052
13.25 0.94112 0.00051	13.20 0.93787 0.00053	13.50 0.94138 0.00052
13.30 0.94477 0.00052	13.25 0.94156 0.00053	13.55 0.94491 0.00052
13.35 0.94853 0.00052	13.30 0.94285 0.00052	13.60 0.94703 0.00050
13.40 0.95054 0.00052	13.35 0.94677 0.00054	13.65 0.95085 0.00052
13.45 0.95549 0.00052	13.40 0.95038 0.00052	13.70 0.95533 0.00053
13.50 0.95762 0.00052	13.45 0.95372 0.00053	13.75 0.95630 0.00052
13.55 0.96252 0.00053	13.50 0.95683 0.00052	13.80 0.96029 0.00051
13.60 0.96393 0.00053	13.55 0.95940 0.00051	13.85 0.96469 0.00052
13.65 0.96765 0.00053	13.60 0.96301 0.00054	13.90 0.96570 0.00052
13.70 0.97028 0.00052	13.65 0.96631 0.00053	13.95 0.97059 0.00052
13.75 0.97421 0.00053	13.70 0.96928 0.00052	14.00 0.97326 0.00052
13.80 0.97725 0.00053	13.75 0.97303 0.00053	14.05 0.97612 0.00051
13.85 0.98166 0.00054	13.80 0.97569 0.00054	14.10 0.97913 0.00053
13.90 0.98346 0.00053	13.85 0.97946 0.00052	14.15 0.98235 0.00052
13.95 0.98653 0.00051	13.90 0.98151 0.00053	14.20 0.98596 0.00051
14.00 0.99021 0.00053	13.95 0.98513 0.00053	14.25 0.98905 0.00053
14.05 0.99169 0.00052	14.00 0.98870 0.00052	14.30 0.99188 0.00053
14.10 0.99675 0.00052	14.05 0.99180 0.00052	14.35 0.99630 0.00051
14.15 0.99839 0.00051	14.10 0.99464 0.00052	14.40 0.99726 0.00052
14.20 1.00260 0.00052	14.15 0.99743 0.00053	14.45 1.00115 0.00053
14.25 1.00544 0.00054	14.20 1.00081 0.00053	14.50 1.00310 0.00053
14.30 1.00861 0.00053	14.25 1.00402 0.00052	14.55 1.00723 0.00052
14.35 1.01098 0.00052	14.30 1.00681 0.00052	14.60 1.00976 0.00051
14.40 1.01380 0.00053	14.35 1.01036 0.00052	14.65 1.01372 0.00052
14.45 1.01770 0.00053	14.40 1.01290 0.00054	14.70 1.01567 0.00051
14.50 1.02028 0.00052	14.45 1.01555 0.00051	14.75 1.01774 0.00051
14.55 1.02318 0.00051	14.50 1.01859 0.00053	14.80 1.02210 0.00053
14.60 1.02573 0.00052		

478	500	600
13.40 0.91957 0.00051	13.50 0.92179 0.00053	13.70 0.91559 0.00053
13.45 0.92179 0.00053	13.55 0.92510 0.00051	13.80 0.92274 0.00051
13.50 0.92494 0.00052	13.60 0.92742 0.00051	13.90 0.92882 0.00052
13.55 0.92812 0.00050	13.65 0.93194 0.00052	14.00 0.93632 0.00051
13.60 0.93246 0.00052	13.70 0.93565 0.00052	14.10 0.94185 0.00050
13.65 0.93456 0.00052	13.75 0.93832 0.00053	14.20 0.94704 0.00053
13.70 0.93853 0.00051	13.80 0.94143 0.00052	14.30 0.95265 0.00051

13.75 0.94043 0.00051	13.85 0.94418 0.00050	14.40 0.96015 0.00050
13.80 0.94543 0.00051	13.90 0.94771 0.00052	14.50 0.96623 0.00051
13.85 0.94818 0.00051	13.95 0.95122 0.00052	14.60 0.97311 0.00052
13.90 0.95094 0.00053	14.00 0.95395 0.00052	14.70 0.97826 0.00051
13.95 0.95421 0.00051	14.05 0.95743 0.00052	14.80 0.98630 0.00051
14.00 0.95818 0.00052	14.10 0.96139 0.00053	14.90 0.99092 0.00050
14.05 0.96132 0.00050	14.15 0.96273 0.00052	15.00 0.99712 0.00050
14.10 0.96397 0.00052	14.20 0.96530 0.00052	15.10 1.00161 0.00051
14.15 0.96710 0.00050	14.25 0.96890 0.00051	15.20 1.00851 0.00052
14.20 0.97030 0.00052	14.30 0.97301 0.00050	15.30 1.01445 0.00051
14.25 0.97252 0.00051	14.35 0.97623 0.00053	15.40 1.01988 0.00053
14.30 0.97606 0.00052	14.40 0.97907 0.00052	15.50 1.02561 0.00051
14.35 0.97984 0.00051	14.45 0.98262 0.00051	
14.40 0.98331 0.00052	14.50 0.98471 0.00051	
14.45 0.98545 0.00052	14.55 0.98774 0.00052	
14.50 0.98891 0.00052	14.60 0.99077 0.00051	
14.55 0.99241 0.00052	14.65 0.99435 0.00052	
14.60 0.99494 0.00053	14.70 0.99725 0.00051	
14.65 0.99766 0.00050	14.75 0.99968 0.00052	
14.70 1.00053 0.00052	14.80 1.00309 0.00052	
14.75 1.00320 0.00054	14.85 1.00682 0.00053	
14.80 1.00708 0.00053	14.90 1.00882 0.00051	
14.85 1.00966 0.00053	14.95 1.01162 0.00052	
14.90 1.01305 0.00052	15.00 1.01447 0.00051	
14.95 1.01478 0.00052	15.05 1.01788 0.00051	
15.00 1.01819 0.00052	15.10 1.01988 0.00052	
15.05 1.02158 0.00052		
15.10 1.02351 0.00051		

650	700	750
13.90 0.91722 0.00051	14.20 0.91918 0.00054	14.50 0.91516 0.00050
14.00 0.92257 0.00051	14.25 0.92265 0.00051	14.60 0.92074 0.00050
14.10 0.93059 0.00050	14.30 0.92542 0.00052	14.70 0.92826 0.00050
14.20 0.93448 0.00051	14.35 0.92906 0.00054	14.80 0.93483 0.00053
14.30 0.94288 0.00051	14.40 0.93150 0.00051	14.90 0.94092 0.00050
14.50 0.95531 0.00052	14.45 0.93500 0.00051	15.00 0.94603 0.00052
14.60 0.96023 0.00051	14.50 0.93781 0.00051	15.10 0.95224 0.00052
14.70 0.96537 0.00052	14.55 0.94154 0.00053	15.20 0.95854 0.00050
14.80 0.97326 0.00052	14.60 0.94408 0.00051	15.30 0.96444 0.00052
14.90 0.97864 0.00051	14.65 0.94698 0.00052	15.40 0.97080 0.00052
15.00 0.98591 0.00052	14.70 0.95089 0.00051	15.50 0.97606 0.00052
15.10 0.99088 0.00052	14.75 0.95440 0.00051	15.60 0.98149 0.00052
15.20 0.99641 0.00051	14.80 0.95598 0.00051	15.70 0.98753 0.00051
15.30 1.00246 0.00053	14.85 0.95866 0.00051	15.80 0.99364 0.00051
15.40 1.00824 0.00051	14.90 0.96252 0.00051	15.90 0.99816 0.00051
15.50 1.01288 0.00052	14.95 0.96521 0.00051	16.00 1.00344 0.00052
15.60 1.02023 0.00051	15.00 0.96849 0.00050	16.10 1.00912 0.00051
15.70 1.02527 0.00050	15.05 0.97075 0.00052	16.20 1.01568 0.00051
	15.10 0.97505 0.00052	16.30 1.02115 0.00051

15.15 0.97789 0.00053
 15.20 0.98023 0.00052
 15.25 0.98377 0.00052
 15.30 0.98659 0.00049
 15.35 0.98831 0.00054
 15.40 0.99269 0.00050
 15.45 0.99448 0.00052
 15.50 0.99784 0.00051
 15.55 1.00056 0.00050
 15.60 1.00275 0.00052
 15.65 1.00625 0.00053
 15.70 1.00874 0.00052
 15.75 1.01187 0.00052
 15.80 1.01543 0.00051
 15.85 1.01761 0.00051
 15.90 1.02001 0.00052

760	765	770
14.60 0.91708 0.00051	14.60 0.91319 0.00050	14.70 0.91657 0.00051
14.70 0.92330 0.00050	14.70 0.92020 0.00051	14.80 0.92235 0.00052
14.80 0.92871 0.00051	14.80 0.92671 0.00051	14.90 0.92856 0.00051
14.90 0.93490 0.00051	14.90 0.93287 0.00049	15.00 0.93537 0.00051
15.00 0.94072 0.00050	15.00 0.93853 0.00051	15.10 0.94168 0.00052
15.10 0.94777 0.00051	15.10 0.94472 0.00052	15.20 0.94676 0.00050
15.20 0.95380 0.00052	15.20 0.95061 0.00052	15.30 0.95252 0.00051
15.30 0.95990 0.00051	15.30 0.95593 0.00052	15.40 0.95924 0.00050
15.40 0.96535 0.00051	15.40 0.96230 0.00050	15.50 0.96437 0.00050
15.50 0.97174 0.00052	15.50 0.96826 0.00051	15.60 0.97080 0.00051
15.60 0.97694 0.00053	15.60 0.97368 0.00050	15.70 0.97756 0.00052
15.70 0.98214 0.00051	15.70 0.97931 0.00050	15.80 0.98231 0.00050
15.80 0.98858 0.00052	15.80 0.98500 0.00051	15.90 0.98716 0.00049
15.90 0.99375 0.00052	15.90 0.99020 0.00051	16.00 0.99284 0.00051
16.00 0.99938 0.00050	16.00 0.99778 0.00051	16.10 0.99971 0.00051
16.10 1.00516 0.00052	16.10 1.00286 0.00052	16.20 1.00485 0.00051
16.20 1.01101 0.00051	16.20 1.00797 0.00051	16.30 1.01034 0.00052
16.30 1.01677 0.00051	16.30 1.01353 0.00050	16.40 1.01560 0.00052
16.40 1.02146 0.00050	16.40 1.01878 0.00051	16.50 1.02013 0.00051

775	0
14.70 0.91474 0.00051	
14.80 0.92043 0.00051	
14.90 0.92704 0.00052	
15.00 0.93383 0.00052	
15.10 0.93869 0.00052	
15.20 0.94441 0.00052	
15.30 0.95196 0.00050	
15.40 0.95722 0.00052	
15.50 0.96306 0.00051	
15.60 0.96842 0.00050	
15.70 0.97405 0.00052	
15.80 0.97995 0.00051	
15.90 0.98467 0.00051	
16.00 0.99098 0.00052	
16.10 0.99690 0.00051	
16.20 1.00375 0.00051	
16.30 1.00737 0.00050	
16.40 1.01416 0.00053	
16.50 1.01890 0.00052	
16.60 1.02370 0.00050	

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12	15	20
24.40 0.92604 0.00029	19.80 0.92439 0.00033	16.40 0.92101 0.00038
24.80 0.93102 0.00029	20.00 0.92905 0.00033	16.50 0.92421 0.00038
25.20 0.93647 0.00029	20.20 0.93362 0.00034	16.60 0.92793 0.00039
25.60 0.94212 0.00029	20.40 0.93841 0.00033	16.70 0.93154 0.00038
26.00 0.94673 0.00028	20.60 0.94288 0.00034	16.80 0.93447 0.00038
26.40 0.95231 0.00028	20.80 0.94739 0.00034	16.90 0.93723 0.00038
26.80 0.95666 0.00029	21.00 0.95089 0.00033	17.00 0.94046 0.00038
27.20 0.96185 0.00028	21.20 0.95548 0.00033	17.10 0.94373 0.00039
27.60 0.96684 0.00027	21.40 0.95918 0.00034	17.20 0.94795 0.00039
28.00 0.96984 0.00027	21.60 0.96331 0.00033	17.30 0.95091 0.00037
28.40 0.97502 0.00027	21.80 0.96758 0.00034	17.40 0.95337 0.00039
28.80 0.97982 0.00027	22.00 0.97126 0.00032	17.50 0.95760 0.00038
29.20 0.98325 0.00027	22.20 0.97541 0.00032	17.60 0.96070 0.00039
29.60 0.98744 0.00027	22.40 0.97909 0.00032	17.70 0.96409 0.00037
30.00 0.99092 0.00028	22.60 0.98323 0.00033	17.80 0.96703 0.00038
30.40 0.99463 0.00028	22.80 0.98587 0.00033	17.90 0.96946 0.00037
30.80 0.99852 0.00027	23.00 0.98928 0.00032	18.00 0.97336 0.00038
31.20 1.00111 0.00026	23.20 0.99241 0.00032	18.10 0.97577 0.00039
31.60 1.00496 0.00027	23.40 0.99615 0.00033	18.20 0.97827 0.00038
32.00 1.00761 0.00026	23.60 0.99961 0.00031	18.30 0.98065 0.00037
32.40 1.01092 0.00027	23.80 1.00289 0.00033	18.40 0.98410 0.00039
32.60 1.01331 0.00027	24.00 1.00588 0.00032	18.50 0.98734 0.00036
	24.20 1.00933 0.00032	18.60 0.99004 0.00037
	24.40 1.01218 0.00031	18.70 0.99312 0.00037
	24.50 1.01412 0.00032	18.80 0.99516 0.00038
		18.90 0.99887 0.00038
		19.00 1.00096 0.00038
		19.10 1.00405 0.00037
		19.20 1.00622 0.00037
		19.30 1.00901 0.00037
		19.40 1.01232 0.00037
		19.50 1.01448 0.00037
		19.60 1.01704 0.00037

25	30	32
14.90 0.92357 0.00040	13.90 0.92161 0.00042	13.60 0.92014 0.00043
15.00 0.92807 0.00042	14.00 0.92567 0.00043	13.70 0.92462 0.00043
15.10 0.93261 0.00039	14.10 0.93093 0.00043	13.80 0.93037 0.00044
15.20 0.93601 0.00040	14.20 0.93551 0.00043	13.90 0.93455 0.00044
15.30 0.94038 0.00042	14.30 0.93995 0.00044	14.00 0.94025 0.00045
15.40 0.94472 0.00040	14.40 0.94484 0.00043	14.10 0.94392 0.00045
15.50 0.94831 0.00041	14.50 0.94884 0.00043	14.20 0.94962 0.00045
15.60 0.95278 0.00042	14.60 0.95447 0.00042	14.30 0.95397 0.00044
15.70 0.95663 0.00041	14.70 0.95756 0.00042	14.40 0.95893 0.00044
15.80 0.96036 0.00041	14.80 0.96253 0.00041	14.50 0.96362 0.00044
15.90 0.96421 0.00043	14.90 0.96850 0.00043	14.60 0.96725 0.00044

16.00 0.96838 0.00041	15.00 0.97190 0.00043	14.70 0.97220 0.00044
16.10 0.97189 0.00040	15.10 0.97581 0.00042	14.90 0.98077 0.00044
16.20 0.97566 0.00041	15.20 0.98019 0.00042	15.00 0.98568 0.00044
16.30 0.97944 0.00042	15.30 0.98445 0.00044	15.10 0.98975 0.00044
16.40 0.98367 0.00041	15.40 0.98802 0.00043	15.20 0.99423 0.00045
16.50 0.98614 0.00041	15.50 0.99325 0.00044	15.30 0.99881 0.00043
16.60 0.99052 0.00040	15.60 0.99648 0.00042	15.40 1.00254 0.00043
16.70 0.99340 0.00041	15.70 1.00183 0.00043	15.50 1.00766 0.00046
16.80 0.99649 0.00040	15.80 1.00486 0.00043	15.60 1.01082 0.00045
16.90 1.00185 0.00041	15.90 1.00961 0.00043	15.70 1.01552 0.00042
17.00 1.00480 0.00042	16.00 1.01329 0.00043	15.80 1.01973 0.00042
17.10 1.00862 0.00040	16.10 1.01624 0.00042	
17.20 1.01172 0.00041	16.20 1.02010 0.00042	
17.30 1.01445 0.00040		

35	40	50
13.30 0.92218 0.00044	12.80 0.91793 0.00044	12.20 0.91642 0.00047
13.40 0.92685 0.00045	12.90 0.92374 0.00046	12.30 0.92275 0.00047
13.50 0.93286 0.00044	13.00 0.92980 0.00047	12.40 0.92846 0.00049
13.60 0.93822 0.00044	13.10 0.93489 0.00046	12.50 0.93571 0.00048
13.70 0.94294 0.00045	13.20 0.93971 0.00046	12.60 0.94066 0.00047
13.80 0.94862 0.00043	13.30 0.94604 0.00046	12.70 0.94597 0.00048
13.90 0.95262 0.00045	13.40 0.95181 0.00045	12.80 0.95285 0.00049
14.00 0.95726 0.00044	13.50 0.95589 0.00045	12.90 0.95792 0.00048
14.10 0.96269 0.00045	13.60 0.96156 0.00045	13.00 0.96445 0.00047
14.20 0.96761 0.00044	13.70 0.96740 0.00046	13.10 0.96898 0.00046
14.30 0.97228 0.00044	13.80 0.97207 0.00045	13.20 0.97471 0.00048
14.40 0.97733 0.00044	13.90 0.97692 0.00046	13.30 0.97978 0.00048
14.50 0.98209 0.00045	14.00 0.98153 0.00044	13.40 0.98516 0.00046
14.60 0.98512 0.00045	14.10 0.98678 0.00045	13.50 0.99122 0.00049
14.70 0.99037 0.00045	14.20 0.99254 0.00047	13.60 0.99646 0.00047
14.80 0.99441 0.00046	14.30 0.99717 0.00045	13.70 1.00176 0.00048
14.90 1.00000 0.00045	14.40 1.00160 0.00045	13.80 1.00635 0.00049
15.00 1.00378 0.00043	14.50 1.00620 0.00044	13.90 1.01128 0.00047
15.10 1.00861 0.00044	14.60 1.01126 0.00047	14.00 1.01656 0.00047
15.20 1.01299 0.00045	14.70 1.01618 0.00046	14.10 1.02345 0.00046
15.30 1.01805 0.00045	14.80 1.02019 0.00048	

60	70	80
11.90 0.91931 0.00047	11.60 0.91415 0.00050	11.50 0.91719 0.00051
11.95 0.92217 0.00048	11.70 0.92118 0.00049	11.55 0.92026 0.00049
12.00 0.92549 0.00048	11.80 0.92757 0.00049	11.60 0.92419 0.00049
12.05 0.92887 0.00049	11.90 0.93360 0.00049	11.65 0.92685 0.00051
12.10 0.93168 0.00049	12.00 0.94011 0.00048	11.70 0.93127 0.00050
12.15 0.93599 0.00048	12.10 0.94563 0.00049	11.75 0.93386 0.00049
12.20 0.93788 0.00049	12.20 0.95282 0.00050	11.80 0.93765 0.00050
12.25 0.94182 0.00048	12.30 0.95756 0.00049	11.85 0.94051 0.00049

12.30 0.94473 0.00048	12.40 0.96532 0.00049	11.90 0.94462 0.00050
12.35 0.94707 0.00047	12.50 0.97126 0.00050	11.95 0.94621 0.00050
12.40 0.94990 0.00048	12.60 0.97598 0.00050	12.00 0.95060 0.00050
12.45 0.95350 0.00049	12.70 0.98227 0.00050	12.05 0.95390 0.00050
12.50 0.95634 0.00049	12.80 0.98798 0.00050	12.10 0.95673 0.00050
12.55 0.95977 0.00048	12.90 0.99479 0.00050	12.15 0.96015 0.00049
12.60 0.96222 0.00048	13.00 0.99906 0.00049	12.20 0.96286 0.00050
12.65 0.96498 0.00049	13.10 1.00592 0.00048	12.25 0.96699 0.00049
12.70 0.96836 0.00048	13.20 1.01146 0.00049	12.30 0.96909 0.00049
12.75 0.97164 0.00048	13.30 1.01647 0.00050	12.35 0.97262 0.00051
12.80 0.97362 0.00047	13.40 1.02290 0.00051	12.40 0.97534 0.00050
12.85 0.97642 0.00049		12.45 0.97770 0.00048
12.90 0.98017 0.00049		12.50 0.98151 0.00048
12.95 0.98341 0.00049		12.55 0.98418 0.00050
13.00 0.98584 0.00049		12.60 0.98763 0.00048
13.05 0.98871 0.00049		12.65 0.99006 0.00050
13.10 0.99133 0.00048		12.70 0.99276 0.00049
13.15 0.99447 0.00049		12.75 0.99571 0.00048
13.20 0.99767 0.00047		12.80 0.99940 0.00049
13.25 1.00004 0.00049		12.85 1.00210 0.00049
13.30 1.00312 0.00049		12.90 1.00454 0.00050
13.35 1.00554 0.00049		12.95 1.00720 0.00050
13.40 1.00831 0.00048		13.00 1.01063 0.00051
13.45 1.01027 0.00048		13.05 1.01491 0.00049
13.50 1.01401 0.00049		13.10 1.01728 0.00048
13.55 1.01646 0.00048		13.15 1.01898 0.00050
13.60 1.01995 0.00048		13.20 1.02260 0.00051

90	100	120
11.40 0.91748 0.00050	11.30 0.91651 0.00051	11.35 0.92570 0.00052
11.45 0.92099 0.00050	11.35 0.92057 0.00050	11.40 0.92866 0.00051
11.50 0.92525 0.00050	11.40 0.92363 0.00048	11.45 0.93155 0.00050
11.55 0.92810 0.00051	11.45 0.92699 0.00050	11.50 0.93591 0.00052
11.60 0.93113 0.00050	11.50 0.93026 0.00051	11.55 0.93849 0.00052
11.65 0.93511 0.00050	11.55 0.93352 0.00049	11.60 0.94254 0.00049
11.70 0.93833 0.00050	11.60 0.93623 0.00049	11.65 0.94697 0.00049
11.75 0.94190 0.00048	11.65 0.94051 0.00050	11.70 0.94811 0.00050
11.80 0.94449 0.00050	11.70 0.94346 0.00050	11.75 0.95219 0.00052
11.85 0.94883 0.00049	11.75 0.94699 0.00049	11.80 0.95565 0.00050
11.90 0.95128 0.00051	11.80 0.94957 0.00050	11.85 0.95921 0.00050
11.95 0.95439 0.00049	11.85 0.95394 0.00050	11.90 0.96260 0.00051
12.00 0.95797 0.00051	11.90 0.95759 0.00052	11.95 0.96512 0.00052
12.05 0.96000 0.00049	11.95 0.95962 0.00050	12.00 0.96862 0.00051
12.10 0.96436 0.00049	12.00 0.96310 0.00050	12.05 0.97089 0.00050
12.15 0.96846 0.00050	12.05 0.96725 0.00051	12.10 0.97523 0.00052
12.20 0.96967 0.00050	12.10 0.97000 0.00049	12.15 0.97857 0.00051
12.25 0.97317 0.00051	12.15 0.97254 0.00049	12.20 0.98141 0.00051
12.30 0.97622 0.00049	12.20 0.97647 0.00050	12.25 0.98330 0.00050
12.35 0.98015 0.00049	12.25 0.97921 0.00050	12.30 0.98837 0.00051

12.40 0.98267 0.00050	12.30 0.98198 0.00051	12.35 0.99087 0.00049
12.45 0.98547 0.00051	12.35 0.98510 0.00052	12.40 0.99398 0.00052
12.50 0.98928 0.00050	12.40 0.98812 0.00050	12.45 0.99646 0.00049
12.55 0.99107 0.00049	12.45 0.99144 0.00051	12.50 0.99953 0.00052
12.60 0.99476 0.00050	12.50 0.99421 0.00051	12.55 1.00323 0.00050
12.65 0.99839 0.00051	12.55 0.99739 0.00051	12.60 1.00625 0.00050
12.70 1.00079 0.00050	12.60 1.00009 0.00051	12.65 1.00873 0.00050
12.75 1.00457 0.00051	12.65 1.00372 0.00051	12.70 1.01159 0.00050
12.80 1.00747 0.00050	12.70 1.00591 0.00050	12.75 1.01428 0.00050
12.85 1.00956 0.00050	12.75 1.00922 0.00050	12.80 1.01756 0.00053
12.90 1.01270 0.00050	12.80 1.01252 0.00049	12.85 1.02101 0.00050
12.95 1.01538 0.00050	12.85 1.01479 0.00050	12.90 1.02366 0.00052
13.00 1.01846 0.00050	12.90 1.01841 0.00050	
13.05 1.02179 0.00050	12.95 1.02072 0.00049	
13.10 1.02397 0.00049	13.00 1.02407 0.00050	

130	150	200
11.20 0.91744 0.00051	11.20 0.91931 0.00052	11.20 0.91843 0.00050
11.25 0.92039 0.00051	11.25 0.92287 0.00049	11.25 0.92149 0.00050
11.30 0.92468 0.00050	11.30 0.92645 0.00051	11.30 0.92478 0.00051
11.35 0.92727 0.00049	11.35 0.92921 0.00051	11.35 0.92825 0.00050
11.40 0.93079 0.00051	11.40 0.93313 0.00051	11.40 0.93174 0.00052
11.45 0.93428 0.00051	11.45 0.93703 0.00050	11.45 0.93523 0.00051
11.50 0.93795 0.00050	11.50 0.94114 0.00050	11.50 0.93957 0.00050
11.55 0.94110 0.00050	11.55 0.94243 0.00051	11.55 0.94286 0.00050
11.60 0.94506 0.00050	11.60 0.94557 0.00050	11.60 0.94562 0.00051
11.65 0.94796 0.00050	11.65 0.94960 0.00051	11.65 0.94818 0.00051
11.70 0.95197 0.00052	11.70 0.95334 0.00051	11.70 0.95090 0.00050
11.75 0.95441 0.00051	11.75 0.95646 0.00051	11.75 0.95559 0.00051
11.80 0.95903 0.00051	11.80 0.95919 0.00051	11.80 0.95860 0.00052
11.85 0.96105 0.00050	11.85 0.96291 0.00050	11.85 0.96047 0.00050
11.90 0.96514 0.00050	11.90 0.96644 0.00051	11.90 0.96459 0.00052
11.95 0.96660 0.00050	11.95 0.97025 0.00051	11.95 0.96818 0.00051
12.00 0.97090 0.00052	12.00 0.97307 0.00051	12.00 0.97192 0.00051
12.05 0.97407 0.00050	12.05 0.97565 0.00049	12.05 0.97409 0.00051
12.10 0.97663 0.00051	12.10 0.97792 0.00051	12.10 0.97796 0.00051
12.15 0.98003 0.00053	12.15 0.98178 0.00049	12.15 0.98135 0.00051
12.20 0.98295 0.00052	12.20 0.98553 0.00052	12.20 0.98407 0.00051
12.25 0.98677 0.00051	12.25 0.98863 0.00051	12.25 0.98711 0.00051
12.30 0.98932 0.00051	12.30 0.99163 0.00050	12.30 0.99055 0.00051
12.35 0.99305 0.00051	12.35 0.99485 0.00050	12.35 0.99347 0.00052
12.40 0.99552 0.00049	12.40 0.99830 0.00051	12.40 0.99752 0.00052
12.45 0.99910 0.00050	12.45 1.00055 0.00052	12.45 1.00090 0.00051
12.50 1.00244 0.00049	12.50 1.00382 0.00051	12.50 1.00293 0.00051
12.55 1.00452 0.00050	12.55 1.00816 0.00050	12.55 1.00586 0.00052
12.60 1.00794 0.00051	12.60 1.01035 0.00052	12.60 1.00926 0.00051
12.65 1.01113 0.00051	12.65 1.01327 0.00051	12.65 1.01208 0.00050
12.70 1.01446 0.00051	12.70 1.01601 0.00051	12.70 1.01427 0.00051
12.75 1.01566 0.00051	12.75 1.02012 0.00051	12.75 1.01849 0.00052
12.80 1.01965 0.00052	12.80 1.02205 0.00052	12.80 1.02106 0.00051

239	250	359
11.30 0.92171 0.00050	11.30 0.92036 0.00050	11.50 0.92010 0.00051
11.35 0.92486 0.00050	11.35 0.92265 0.00051	11.55 0.92262 0.00050
11.40 0.92691 0.00050	11.40 0.92760 0.00051	11.60 0.92576 0.00051
11.45 0.93175 0.00051	11.45 0.93072 0.00050	11.65 0.92984 0.00051
11.50 0.93516 0.00050	11.50 0.93439 0.00051	11.70 0.93260 0.00052
11.55 0.93825 0.00051	11.55 0.93640 0.00050	11.75 0.93563 0.00051
11.60 0.94086 0.00052	11.60 0.94058 0.00050	11.80 0.93957 0.00049
11.65 0.94497 0.00051	11.65 0.94413 0.00051	11.85 0.94211 0.00051
11.70 0.94849 0.00052	11.70 0.94738 0.00052	11.90 0.94565 0.00052
11.75 0.95210 0.00052	11.75 0.94954 0.00050	11.95 0.94938 0.00052
11.80 0.95535 0.00051	11.80 0.95351 0.00050	12.00 0.95197 0.00052
11.85 0.95789 0.00052	11.85 0.95736 0.00051	12.05 0.95521 0.00051
11.90 0.96043 0.00052	11.90 0.96140 0.00052	12.10 0.95942 0.00050
11.95 0.96357 0.00052	11.95 0.96368 0.00052	12.15 0.96235 0.00050
12.00 0.96792 0.00050	12.00 0.96616 0.00051	12.20 0.96447 0.00051
12.05 0.97132 0.00052	12.05 0.96994 0.00051	12.25 0.96779 0.00051
12.10 0.97374 0.00049	12.10 0.97282 0.00052	12.30 0.97088 0.00050
12.15 0.97655 0.00051	12.15 0.97593 0.00051	12.35 0.97443 0.00050
12.20 0.98027 0.00051	12.20 0.97815 0.00050	12.40 0.97702 0.00051
12.25 0.98438 0.00050	12.25 0.98282 0.00050	12.45 0.98020 0.00051
12.30 0.98635 0.00051	12.30 0.98561 0.00051	12.50 0.98359 0.00050
12.35 0.99005 0.00052	12.35 0.98835 0.00052	12.55 0.98668 0.00051
12.40 0.99293 0.00051	12.40 0.99158 0.00052	12.60 0.99002 0.00051
12.45 0.99540 0.00051	12.45 0.99432 0.00050	12.65 0.99264 0.00051
12.50 0.99846 0.00051	12.50 0.99713 0.00051	12.70 0.99575 0.00051
12.55 1.00188 0.00052	12.55 1.00117 0.00049	12.75 0.99865 0.00050
12.60 1.00474 0.00052	12.60 1.00544 0.00050	12.80 1.00067 0.00051
12.65 1.00782 0.00052	12.65 1.00626 0.00049	12.85 1.00439 0.00052
12.70 1.01119 0.00051	12.70 1.01008 0.00051	12.90 1.00699 0.00051
12.75 1.01374 0.00051	12.75 1.01267 0.00051	12.95 1.01107 0.00052
12.80 1.01691 0.00050	12.80 1.01612 0.00050	13.00 1.01378 0.00051
12.85 1.02032 0.00050	12.85 1.01889 0.00051	13.05 1.01639 0.00051
12.90 1.02326 0.00052	12.90 1.02193 0.00049	13.10 1.01986 0.00052

478	500	600
11.70 0.91687 0.00050	11.80 0.92184 0.00051	12.10 0.92251 0.00050
11.75 0.92157 0.00051	11.85 0.92405 0.00051	12.15 0.92583 0.00050
11.80 0.92403 0.00052	11.90 0.92762 0.00050	12.20 0.92784 0.00050
11.85 0.92667 0.00052	11.95 0.93131 0.00049	12.25 0.93218 0.00049
11.90 0.93135 0.00051	12.00 0.93397 0.00050	12.30 0.93500 0.00051
11.95 0.93405 0.00050	12.05 0.93725 0.00051	12.35 0.93907 0.00050
12.00 0.93789 0.00050	12.10 0.94045 0.00051	12.40 0.94098 0.00051
12.05 0.94032 0.00050	12.15 0.94253 0.00051	12.45 0.94524 0.00049
12.10 0.94305 0.00051	12.20 0.94638 0.00051	12.50 0.94693 0.00050
12.15 0.94751 0.00051	12.25 0.94914 0.00052	12.55 0.95075 0.00050

12.20 0.94865 0.00052	12.30 0.95303 0.00052	12.60 0.95368 0.00050
12.25 0.95302 0.00052	12.35 0.95532 0.00050	12.65 0.95725 0.00052
12.30 0.95587 0.00051	12.40 0.95881 0.00051	12.70 0.96075 0.00052
12.35 0.95877 0.00051	12.45 0.96270 0.00051	12.75 0.96342 0.00050
12.40 0.96196 0.00052	12.50 0.96540 0.00052	12.80 0.96624 0.00051
12.45 0.96702 0.00051	12.55 0.96842 0.00050	12.85 0.96938 0.00052
12.50 0.96849 0.00051	12.60 0.97216 0.00050	12.90 0.97240 0.00051
12.55 0.97184 0.00051	12.65 0.97452 0.00051	12.95 0.97477 0.00052
12.60 0.97505 0.00051	12.70 0.97738 0.00052	13.00 0.97844 0.00052
12.65 0.97813 0.00050	12.75 0.98133 0.00051	13.05 0.98144 0.00050
12.70 0.98157 0.00052	12.80 0.98426 0.00050	13.10 0.98350 0.00052
12.75 0.98434 0.00051	12.85 0.98737 0.00049	13.15 0.98692 0.00051
12.80 0.98729 0.00051	12.90 0.98954 0.00051	13.20 0.99023 0.00051
12.85 0.99143 0.00052	12.95 0.99253 0.00052	13.25 0.99344 0.00051
12.90 0.99306 0.00051	13.00 0.99566 0.00051	13.30 0.99550 0.00054
12.95 0.99634 0.00052	13.05 0.99808 0.00051	13.35 0.99907 0.00051
13.00 0.99891 0.00052	13.10 1.00173 0.00051	13.40 1.00167 0.00050
13.05 1.00128 0.00050	13.15 1.00416 0.00051	13.45 1.00507 0.00051
13.10 1.00484 0.00052	13.20 1.00626 0.00052	13.50 1.00783 0.00050
13.15 1.00804 0.00051	13.25 1.00978 0.00052	13.55 1.01019 0.00050
13.20 1.01117 0.00051	13.30 1.01289 0.00050	13.60 1.01289 0.00051
13.25 1.01314 0.00053	13.35 1.01515 0.00052	13.65 1.01661 0.00050
13.30 1.01630 0.00049	13.40 1.01941 0.00051	13.70 1.01809 0.00051
13.35 1.02006 0.00053	13.45 1.02159 0.00052	13.75 1.02100 0.00052
13.40 1.02173 0.00051	13.50 1.02569 0.00052	13.80 1.02483 0.00052

650	700	750
12.20 0.91818 0.00050	12.50 0.92164 0.00051	12.80 0.92015 0.00052
12.30 0.92424 0.00050	12.55 0.92550 0.00051	12.90 0.92706 0.00049
12.40 0.93041 0.00051	12.60 0.92699 0.00050	13.00 0.93325 0.00050
12.50 0.93767 0.00050	12.65 0.93121 0.00051	13.10 0.93957 0.00051
12.60 0.94280 0.00050	12.70 0.93450 0.00049	13.20 0.94422 0.00050
12.70 0.94957 0.00051	12.75 0.93659 0.00051	13.30 0.95060 0.00051
12.80 0.95569 0.00052	12.80 0.94052 0.00052	13.40 0.95562 0.00051
12.90 0.96115 0.00050	12.85 0.94306 0.00051	13.50 0.96278 0.00049
13.00 0.96811 0.00050	12.90 0.94586 0.00052	13.60 0.96830 0.00051
13.10 0.97265 0.00051	12.95 0.94984 0.00050	13.70 0.97469 0.00051
13.20 0.97918 0.00051	13.00 0.95258 0.00050	13.80 0.97923 0.00049
13.30 0.98544 0.00050	13.05 0.95594 0.00051	13.90 0.98590 0.00051
13.40 0.99128 0.00051	13.10 0.95797 0.00050	14.00 0.99132 0.00052
13.50 0.99687 0.00051	13.15 0.96199 0.00049	14.10 0.99645 0.00052
13.60 1.00330 0.00051	13.20 0.96419 0.00050	14.20 1.00156 0.00052
13.70 1.00857 0.00050	13.25 0.96773 0.00050	14.30 1.00804 0.00051
13.80 1.01437 0.00052	13.30 0.97046 0.00050	14.40 1.01236 0.00051
13.90 1.01973 0.00051	13.35 0.97408 0.00051	14.50 1.01896 0.00051
14.00 1.02551 0.00052	13.40 0.97521 0.00050	14.60 1.02403 0.00050
	13.45 0.97873 0.00050	
	13.50 0.98189 0.00053	
	13.55 0.98458 0.00052	

13.60 0.98819 0.00051
 13.65 0.99073 0.00051
 13.70 0.99366 0.00051
 13.75 0.99572 0.00051
 13.80 0.99937 0.00051
 13.85 1.00224 0.00050
 13.90 1.00556 0.00051
 13.95 1.00792 0.00051
 14.00 1.01074 0.00052
 14.05 1.01287 0.00049
 14.10 1.01497 0.00050
 14.15 1.01889 0.00050
 14.20 1.02265 0.00050

760	765	770
12.90 0.92241 0.00050	12.90 0.92117 0.00050	12.90 0.91579 0.00050
12.95 0.92489 0.00051	13.00 0.92527 0.00051	13.00 0.92251 0.00049
13.00 0.92828 0.00051	13.10 0.93098 0.00051	13.10 0.92915 0.00049
13.05 0.93143 0.00051	13.20 0.93736 0.00051	13.20 0.93534 0.00050
13.10 0.93422 0.00050	13.30 0.94324 0.00051	13.30 0.94062 0.00050
13.15 0.93768 0.00051	13.40 0.94897 0.00049	13.40 0.94589 0.00050
13.20 0.94075 0.00051	13.50 0.95550 0.00050	13.50 0.95263 0.00050
13.25 0.94347 0.00050	13.60 0.96120 0.00051	13.60 0.95914 0.00051
13.30 0.94636 0.00050	13.70 0.96695 0.00051	13.70 0.96410 0.00051
13.35 0.94984 0.00050	13.80 0.97243 0.00050	13.80 0.96935 0.00051
13.40 0.95255 0.00051	13.90 0.97888 0.00050	13.90 0.97521 0.00050
13.45 0.95546 0.00050	14.00 0.98416 0.00050	14.00 0.98012 0.00053
13.50 0.95750 0.00051	14.10 0.98844 0.00049	14.10 0.98596 0.00050
13.55 0.96065 0.00050	14.20 0.99533 0.00051	14.20 0.99341 0.00051
13.60 0.96363 0.00050	14.30 0.99992 0.00050	14.30 0.99799 0.00050
13.65 0.96685 0.00050	14.40 1.00705 0.00052	14.40 1.00299 0.00051
13.70 0.96899 0.00051	14.50 1.01164 0.00050	14.50 1.00899 0.00051
13.75 0.97276 0.00051	14.60 1.01606 0.00051	14.60 1.01406 0.00051
13.80 0.97549 0.00051	14.70 1.02250 0.00052	14.70 1.01880 0.00051
13.85 0.97782 0.00050		
13.90 0.98130 0.00049		
13.95 0.98435 0.00050		
14.00 0.98615 0.00051		
14.05 0.98908 0.00050		
14.10 0.99173 0.00050		
14.15 0.99445 0.00049		
14.20 0.99737 0.00052		
14.25 1.00100 0.00051		
14.30 1.00354 0.00052		
14.35 1.00587 0.00049		
14.40 1.00797 0.00051		
14.45 1.01142 0.00051		
14.50 1.01408 0.00050		
14.55 1.01724 0.00051		
14.60 1.01871 0.00051		

775	0
13.00 0.92107 0.00051	
13.10 0.92703 0.00049	
13.20 0.93318 0.00051	
13.30 0.93875 0.00050	
13.40 0.94477 0.00052	
13.50 0.95149 0.00050	
13.60 0.95598 0.00051	
13.70 0.96175 0.00051	
13.80 0.96931 0.00050	
13.90 0.97385 0.00051	
14.00 0.97956 0.00050	
14.10 0.98505 0.00052	
14.20 0.99034 0.00051	
14.30 0.99635 0.00050	
14.40 1.00098 0.00051	
14.50 1.00735 0.00051	
14.60 1.01355 0.00050	
14.70 1.01742 0.00051	
14.80 1.02210 0.00051	

14.80 0.96959 0.00037	13.90 0.97878 0.00039	13.60 0.98043 0.00041
14.90 0.97450 0.00039	14.00 0.98256 0.00041	13.70 0.98364 0.00042
15.00 0.97712 0.00038	14.10 0.98688 0.00040	13.80 0.98918 0.00041
15.10 0.98086 0.00038	14.20 0.99116 0.00040	13.90 0.99248 0.00042
15.20 0.98467 0.00039	14.30 0.99479 0.00040	14.00 0.99724 0.00040
15.30 0.98845 0.00038	14.40 1.00044 0.00040	14.10 1.00307 0.00042
15.40 0.99325 0.00038	14.50 1.00480 0.00040	14.20 1.00540 0.00041
15.50 0.99655 0.00038	14.60 1.00825 0.00041	14.30 1.01090 0.00040
15.60 0.99944 0.00038	14.70 1.01230 0.00040	14.40 1.01482 0.00041
15.70 1.00308 0.00038	14.80 1.01562 0.00039	14.50 1.01870 0.00040
15.80 1.00579 0.00038	14.90 1.01944 0.00041	
15.90 1.00970 0.00038		
16.00 1.01356 0.00037		
16.10 1.01669 0.00038		

35	40	50
12.00 0.92068 0.00042	11.60 0.92437 0.00042	10.90 0.91723 0.00044
12.10 0.92623 0.00042	11.70 0.92882 0.00043	11.00 0.92546 0.00044
12.20 0.93092 0.00041	11.80 0.93559 0.00043	11.10 0.93109 0.00045
12.30 0.93586 0.00041	11.90 0.93989 0.00042	11.20 0.93588 0.00043
12.40 0.94090 0.00041	12.00 0.94591 0.00042	11.30 0.94267 0.00044
12.50 0.94629 0.00042	12.10 0.94997 0.00042	11.40 0.94787 0.00044
12.60 0.95148 0.00041	12.20 0.95600 0.00042	11.50 0.95347 0.00044
12.70 0.95635 0.00043	12.30 0.96120 0.00043	11.60 0.95996 0.00045
12.80 0.96145 0.00043	12.40 0.96647 0.00042	11.70 0.96574 0.00045
12.90 0.96564 0.00042	12.50 0.97178 0.00043	11.80 0.97159 0.00044
13.00 0.97207 0.00041	12.60 0.97700 0.00042	11.90 0.97694 0.00043
13.10 0.97608 0.00042	12.70 0.98244 0.00044	12.00 0.98207 0.00043
13.20 0.98155 0.00041	12.80 0.98695 0.00042	12.10 0.98738 0.00043
13.30 0.98576 0.00041	12.90 0.99252 0.00041	12.20 0.99355 0.00043
13.40 0.99048 0.00043	13.00 0.99731 0.00044	12.30 0.99865 0.00044
13.50 0.99487 0.00040	13.10 1.00191 0.00042	12.40 1.00423 0.00044
13.60 0.99940 0.00042	13.20 1.00700 0.00043	12.50 1.00950 0.00044
13.70 1.00349 0.00042	13.30 1.01131 0.00043	12.60 1.01410 0.00044
13.80 1.00836 0.00041	13.40 1.01533 0.00042	12.70 1.01987 0.00044
13.90 1.01225 0.00041	13.50 1.02151 0.00043	
14.00 1.01700 0.00041		

60	70	80
10.60 0.92306 0.00045	10.30 0.91927 0.00046	10.20 0.92337 0.00046
10.65 0.92514 0.00045	10.35 0.92137 0.00046	10.25 0.92757 0.00045
10.70 0.93012 0.00045	10.40 0.92567 0.00045	10.30 0.93066 0.00046
10.75 0.93202 0.00045	10.45 0.92875 0.00045	10.35 0.93422 0.00046
10.80 0.93566 0.00045	10.50 0.93241 0.00046	10.40 0.93709 0.00046
10.85 0.93833 0.00044	10.55 0.93596 0.00045	10.45 0.94113 0.00047
10.90 0.94214 0.00045	10.60 0.93797 0.00046	10.50 0.94402 0.00046
10.95 0.94414 0.00045	10.65 0.94244 0.00045	10.55 0.94803 0.00045

11.00 0.94777 0.00045	10.70 0.94503 0.00045	10.60 0.95036 0.00046
11.05 0.95047 0.00045	10.75 0.94837 0.00047	10.65 0.95402 0.00046
11.10 0.95373 0.00044	10.80 0.95056 0.00046	10.70 0.95707 0.00048
11.15 0.95724 0.00045	10.85 0.95429 0.00045	10.75 0.96048 0.00046
11.20 0.96110 0.00045	10.90 0.95769 0.00045	10.80 0.96342 0.00045
11.25 0.96371 0.00045	10.95 0.95999 0.00045	10.85 0.96717 0.00046
11.30 0.96534 0.00045	11.00 0.96405 0.00046	10.90 0.97001 0.00046
11.35 0.96943 0.00044	11.05 0.96704 0.00045	10.95 0.97302 0.00046
11.40 0.97107 0.00044	11.10 0.97009 0.00045	11.00 0.97636 0.00046
11.45 0.97527 0.00044	11.15 0.97333 0.00045	11.05 0.97874 0.00045
11.50 0.97787 0.00044	11.20 0.97548 0.00044	11.10 0.98217 0.00046
11.55 0.98098 0.00045	11.25 0.97903 0.00044	11.15 0.98449 0.00047
11.60 0.98378 0.00045	11.30 0.98252 0.00046	11.20 0.98840 0.00045
11.65 0.98708 0.00044	11.35 0.98516 0.00045	11.25 0.99203 0.00047
11.70 0.98917 0.00045	11.40 0.98811 0.00047	11.30 0.99422 0.00046
11.75 0.99287 0.00044	11.45 0.99157 0.00047	11.35 0.99784 0.00046
11.80 0.99534 0.00046	11.50 0.99331 0.00046	11.40 1.00014 0.00045
11.85 0.99777 0.00045	11.55 0.99575 0.00046	11.45 1.00335 0.00045
11.90 1.00022 0.00045	11.60 0.99973 0.00046	11.50 1.00611 0.00045
11.95 1.00316 0.00044	11.65 1.00272 0.00046	11.55 1.00890 0.00047
12.00 1.00644 0.00045	11.70 1.00632 0.00046	11.60 1.01282 0.00045
12.05 1.00957 0.00044	11.75 1.00861 0.00045	11.65 1.01638 0.00046
12.10 1.01234 0.00045	11.80 1.01035 0.00047	11.70 1.01782 0.00046
12.15 1.01581 0.00044	11.85 1.01470 0.00045	
12.20 1.01801 0.00046	11.90 1.01769 0.00047	
	11.95 1.01979 0.00046	
	12.00 1.02306 0.00045	

90	100	120
10.00 0.91870 0.00046	9.90 0.91825 0.00046	9.80 0.92165 0.00046
10.05 0.92303 0.00046	9.95 0.92227 0.00046	9.85 0.92477 0.00046
10.10 0.92527 0.00044	10.00 0.92629 0.00045	9.90 0.92744 0.00046
10.15 0.92931 0.00046	10.05 0.93031 0.00045	9.95 0.93070 0.00048
10.20 0.93319 0.00046	10.10 0.93345 0.00046	10.00 0.93375 0.00046
10.25 0.93659 0.00045	10.15 0.93620 0.00046	10.05 0.93759 0.00047
10.30 0.93938 0.00046	10.20 0.94048 0.00047	10.10 0.94029 0.00046
10.35 0.94301 0.00046	10.25 0.94235 0.00046	10.15 0.94408 0.00046
10.40 0.94623 0.00045	10.30 0.94610 0.00047	10.20 0.94841 0.00046
10.45 0.94985 0.00046	10.35 0.94909 0.00045	10.25 0.95135 0.00048
10.50 0.95309 0.00047	10.40 0.95318 0.00046	10.30 0.95428 0.00047
10.55 0.95708 0.00047	10.45 0.95562 0.00045	10.35 0.95729 0.00047
10.60 0.95969 0.00045	10.50 0.95979 0.00047	10.40 0.96196 0.00048
10.65 0.96335 0.00046	10.55 0.96259 0.00047	10.45 0.96471 0.00046
10.70 0.96615 0.00046	10.60 0.96598 0.00046	10.50 0.96817 0.00047
10.75 0.96925 0.00047	10.65 0.96969 0.00045	10.55 0.97085 0.00047
10.80 0.97336 0.00045	10.70 0.97362 0.00046	10.60 0.97435 0.00046
10.85 0.97599 0.00047	10.75 0.97592 0.00047	10.65 0.97765 0.00047
10.90 0.97853 0.00046	10.80 0.97946 0.00045	10.70 0.98016 0.00047
10.95 0.98238 0.00047	10.85 0.98248 0.00045	10.75 0.98405 0.00046

11.00 0.98584 0.00045	10.90 0.98552 0.00048	10.80 0.98763 0.00046
11.05 0.98848 0.00046	10.95 0.98806 0.00046	10.85 0.99026 0.00047
11.10 0.99144 0.00045	11.00 0.99196 0.00046	10.90 0.99311 0.00048
11.15 0.99509 0.00047	11.05 0.99462 0.00046	10.95 0.99707 0.00047
11.20 0.99753 0.00047	11.10 0.99770 0.00046	11.00 0.99912 0.00047
11.25 1.00063 0.00047	11.15 1.00097 0.00046	11.05 1.00314 0.00046
11.30 1.00294 0.00046	11.20 1.00390 0.00045	11.10 1.00599 0.00047
11.35 1.00726 0.00046	11.25 1.00767 0.00047	11.15 1.00972 0.00047
11.40 1.00971 0.00047	11.30 1.01060 0.00046	11.20 1.01271 0.00048
11.45 1.01253 0.00046	11.35 1.01285 0.00047	11.25 1.01597 0.00049
11.50 1.01576 0.00045	11.40 1.01686 0.00046	11.30 1.01733 0.00046
11.55 1.01787 0.00047	11.45 1.01877 0.00045	
11.60 1.02068 0.00046	11.50 1.02215 0.00046	

130	150	200
9.80 0.92310 0.00048	9.70 0.92067 0.00047	9.60 0.91730 0.00045
9.85 0.92664 0.00046	9.75 0.92426 0.00046	9.65 0.91980 0.00048
9.90 0.93016 0.00046	9.80 0.92775 0.00046	9.70 0.92464 0.00046
9.95 0.93362 0.00046	9.85 0.93092 0.00047	9.75 0.92741 0.00049
10.00 0.93750 0.00046	9.90 0.93436 0.00047	9.80 0.93127 0.00047
10.05 0.94091 0.00048	9.95 0.93888 0.00047	9.85 0.93415 0.00047
10.10 0.94444 0.00047	10.00 0.94219 0.00047	9.90 0.93757 0.00047
10.15 0.94849 0.00045	10.05 0.94415 0.00046	9.95 0.94061 0.00046
10.20 0.95138 0.00047	10.10 0.94823 0.00048	10.00 0.94484 0.00047
10.25 0.95368 0.00046	10.15 0.95182 0.00047	10.05 0.94753 0.00047
10.30 0.95835 0.00046	10.20 0.95576 0.00048	10.10 0.95058 0.00047
10.35 0.96117 0.00047	10.25 0.95801 0.00048	10.15 0.95505 0.00047
10.40 0.96441 0.00047	10.30 0.96152 0.00048	10.20 0.95831 0.00046
10.45 0.96796 0.00047	10.35 0.96502 0.00047	10.25 0.96122 0.00047
10.50 0.97138 0.00047	10.40 0.96821 0.00045	10.30 0.96423 0.00047
10.55 0.97459 0.00048	10.45 0.97195 0.00046	10.35 0.96752 0.00046
10.60 0.97806 0.00047	10.50 0.97447 0.00047	10.40 0.97121 0.00049
10.65 0.98085 0.00047	10.55 0.97775 0.00046	10.45 0.97462 0.00047
10.70 0.98357 0.00046	10.60 0.98195 0.00046	10.50 0.97751 0.00047
10.75 0.98774 0.00048	10.65 0.98412 0.00048	10.55 0.98080 0.00047
10.80 0.99004 0.00047	10.70 0.98813 0.00046	10.60 0.98365 0.00047
10.85 0.99312 0.00046	10.75 0.99066 0.00046	10.65 0.98830 0.00048
10.90 0.99615 0.00046	10.80 0.99330 0.00047	10.70 0.99066 0.00047
10.95 0.99944 0.00046	10.85 0.99719 0.00048	10.75 0.99400 0.00048
11.00 1.00249 0.00047	10.90 1.00036 0.00047	10.80 0.99614 0.00048
11.05 1.00631 0.00047	10.95 1.00302 0.00046	10.85 1.00015 0.00047
11.10 1.00827 0.00047	11.00 1.00717 0.00047	10.90 1.00307 0.00047
11.15 1.01245 0.00047	11.05 1.00877 0.00046	10.95 1.00548 0.00047
11.20 1.01471 0.00047	11.10 1.01376 0.00046	11.00 1.00937 0.00049
11.25 1.01887 0.00048	11.15 1.01660 0.00046	11.05 1.01157 0.00047
11.30 1.02181 0.00048	11.20 1.01915 0.00048	11.10 1.01501 0.00047
		11.15 1.01801 0.00048
		11.20 1.02118 0.00046

239	250	359
9.70 0.92352 0.00046	9.70 0.92234 0.00046	9.80 0.92052 0.00046
9.75 0.92545 0.00046	9.75 0.92502 0.00048	9.85 0.92342 0.00047
9.80 0.92975 0.00046	9.80 0.92930 0.00046	9.90 0.92690 0.00048
9.85 0.93330 0.00046	9.85 0.93218 0.00048	9.95 0.93051 0.00048
9.90 0.93589 0.00047	9.90 0.93601 0.00047	10.00 0.93453 0.00046
9.95 0.93963 0.00046	9.95 0.94003 0.00047	10.05 0.93769 0.00047
10.00 0.94294 0.00046	10.00 0.94280 0.00046	10.10 0.94049 0.00047
10.05 0.94653 0.00048	10.05 0.94633 0.00046	10.15 0.94396 0.00047
10.10 0.95112 0.00047	10.10 0.94901 0.00046	10.20 0.94687 0.00047
10.15 0.95399 0.00046	10.15 0.95237 0.00047	10.25 0.95108 0.00047
10.20 0.95760 0.00047	10.20 0.95564 0.00047	10.30 0.95419 0.00047
10.25 0.96094 0.00045	10.25 0.96001 0.00048	10.35 0.95722 0.00047
10.30 0.96348 0.00045	10.30 0.96268 0.00047	10.40 0.96060 0.00049
10.35 0.96591 0.00046	10.35 0.96653 0.00047	10.45 0.96368 0.00047
10.40 0.97039 0.00048	10.40 0.96882 0.00047	10.50 0.96683 0.00047
10.45 0.97300 0.00046	10.45 0.97246 0.00045	10.55 0.97016 0.00047
10.50 0.97626 0.00047	10.50 0.97560 0.00048	10.60 0.97254 0.00047
10.55 0.97997 0.00048	10.55 0.97932 0.00047	10.65 0.97675 0.00047
10.60 0.98289 0.00046	10.60 0.98257 0.00047	10.70 0.98128 0.00047
10.65 0.98571 0.00046	10.65 0.98543 0.00047	10.75 0.98274 0.00047
10.70 0.98900 0.00048	10.70 0.98860 0.00047	10.80 0.98563 0.00047
10.75 0.99239 0.00047	10.75 0.99198 0.00046	10.85 0.98868 0.00048
10.80 0.99491 0.00046	10.80 0.99502 0.00048	10.90 0.99173 0.00048
10.85 0.99918 0.00048	10.85 0.99770 0.00046	10.95 0.99515 0.00047
10.90 1.00156 0.00048	10.90 1.00085 0.00046	11.00 0.99888 0.00049
10.95 1.00420 0.00047	10.95 1.00439 0.00047	11.05 1.00029 0.00047
11.00 1.00722 0.00048	11.00 1.00749 0.00048	11.10 1.00375 0.00047
11.05 1.01141 0.00048	11.05 1.00966 0.00048	11.15 1.00674 0.00045
11.10 1.01365 0.00046	11.10 1.01314 0.00048	11.20 1.00985 0.00047
11.15 1.01671 0.00049	11.15 1.01675 0.00047	11.25 1.01256 0.00047
11.20 1.02068 0.00049	11.20 1.01903 0.00047	11.30 1.01580 0.00046
		11.35 1.01811 0.00047
		11.40 1.02158 0.00048

478	500	600
10.00 0.92407 0.00047	10.00 0.92089 0.00047	10.20 0.92056 0.00047
10.05 0.92655 0.00049	10.05 0.92422 0.00046	10.25 0.92266 0.00048
10.10 0.92978 0.00046	10.10 0.92754 0.00046	10.30 0.92681 0.00046
10.15 0.93414 0.00046	10.15 0.93005 0.00047	10.35 0.93128 0.00048
10.20 0.93599 0.00048	10.20 0.93490 0.00047	10.40 0.93336 0.00046
10.25 0.94023 0.00048	10.25 0.93765 0.00047	10.45 0.93681 0.00046
10.30 0.94323 0.00047	10.30 0.94106 0.00047	10.50 0.93983 0.00048
10.35 0.94720 0.00047	10.35 0.94408 0.00047	10.55 0.94339 0.00046
10.40 0.95013 0.00048	10.40 0.94734 0.00047	10.60 0.94525 0.00048
10.45 0.95299 0.00047	10.45 0.95049 0.00047	10.65 0.94865 0.00049
10.50 0.95518 0.00046	10.50 0.95344 0.00047	10.70 0.95254 0.00048

10.55 0.95981 0.00047	10.55 0.95640 0.00047	10.75 0.95541 0.00047
10.60 0.96234 0.00047	10.60 0.95943 0.00047	10.80 0.95851 0.00047
10.65 0.96517 0.00047	10.65 0.96169 0.00047	10.85 0.96122 0.00047
10.70 0.96866 0.00047	10.70 0.96548 0.00048	10.90 0.96499 0.00047
10.75 0.97113 0.00047	10.75 0.96866 0.00047	10.95 0.96734 0.00047
10.80 0.97526 0.00047	10.80 0.97206 0.00047	11.00 0.97061 0.00047
10.85 0.97822 0.00046	10.85 0.97569 0.00048	11.05 0.97513 0.00049
10.90 0.98186 0.00048	10.90 0.97944 0.00047	11.10 0.97658 0.00047
10.95 0.98407 0.00048	10.95 0.98103 0.00046	11.15 0.98072 0.00047
11.00 0.98733 0.00047	11.00 0.98476 0.00047	11.20 0.98273 0.00047
11.05 0.99035 0.00046	11.05 0.98705 0.00048	11.25 0.98541 0.00047
11.10 0.99342 0.00048	11.10 0.99080 0.00047	11.30 0.98871 0.00048
11.15 0.99626 0.00047	11.15 0.99325 0.00049	11.35 0.99114 0.00047
11.20 0.99889 0.00047	11.20 0.99658 0.00047	11.40 0.99484 0.00047
11.25 1.00270 0.00047	11.25 1.00007 0.00047	11.45 0.99737 0.00046
11.30 1.00544 0.00047	11.30 1.00284 0.00047	11.50 1.00099 0.00047
11.35 1.00834 0.00048	11.35 1.00497 0.00046	11.55 1.00321 0.00046
11.40 1.01174 0.00047	11.40 1.00742 0.00047	11.60 1.00677 0.00047
11.45 1.01310 0.00048	11.45 1.01061 0.00048	11.65 1.00993 0.00047
11.50 1.01627 0.00049	11.50 1.01512 0.00046	11.70 1.01126 0.00048
11.55 1.02024 0.00048	11.55 1.01790 0.00049	11.75 1.01531 0.00047
11.60 1.02260 0.00047	11.60 1.02010 0.00048	11.80 1.01721 0.00047

650	700	750
10.30 0.91882 0.00047	10.50 0.91986 0.00047	10.70 0.91654 0.00049
10.35 0.92209 0.00048	10.55 0.92258 0.00046	10.80 0.92366 0.00047
10.40 0.92557 0.00046	10.60 0.92612 0.00046	10.90 0.92977 0.00048
10.45 0.92854 0.00047	10.65 0.92860 0.00047	11.00 0.93471 0.00047
10.50 0.93071 0.00046	10.70 0.93269 0.00048	11.10 0.94109 0.00046
10.55 0.93471 0.00046	10.75 0.93517 0.00047	11.20 0.94705 0.00047
10.60 0.93810 0.00045	10.80 0.93862 0.00048	11.30 0.95252 0.00046
10.65 0.94100 0.00048	10.85 0.94119 0.00048	11.40 0.95909 0.00046
10.70 0.94459 0.00047	10.90 0.94452 0.00047	11.50 0.96384 0.00047
10.75 0.94653 0.00047	10.95 0.94789 0.00047	11.60 0.97044 0.00047
10.80 0.95035 0.00047	11.00 0.95025 0.00047	11.70 0.97508 0.00047
10.85 0.95326 0.00048	11.05 0.95306 0.00047	11.80 0.98125 0.00047
10.90 0.95619 0.00047	11.10 0.95642 0.00045	11.90 0.98731 0.00046
10.95 0.96002 0.00047	11.15 0.95975 0.00047	12.00 0.99265 0.00048
11.00 0.96192 0.00048	11.20 0.96230 0.00046	12.10 0.99851 0.00047
11.05 0.96533 0.00048	11.25 0.96582 0.00046	12.20 1.00374 0.00047
11.10 0.96842 0.00047	11.30 0.96758 0.00047	12.30 1.00991 0.00049
11.15 0.97066 0.00047	11.35 0.97180 0.00048	12.40 1.01540 0.00047
11.20 0.97439 0.00048	11.40 0.97506 0.00048	12.50 1.01990 0.00047
11.25 0.97737 0.00046	11.45 0.97725 0.00046	
11.30 0.98022 0.00048	11.50 0.97992 0.00048	
11.35 0.98350 0.00047	11.55 0.98314 0.00046	
11.40 0.98619 0.00047	11.60 0.98585 0.00047	
11.45 0.98923 0.00049	11.65 0.98850 0.00047	
11.50 0.99141 0.00047	11.70 0.99123 0.00046	

11.55 0.99399 0.00048	11.75 0.99452 0.00047
11.60 0.99811 0.00048	11.80 0.99808 0.00048
11.65 1.00042 0.00048	11.85 1.00029 0.00048
11.70 1.00389 0.00048	11.90 1.00315 0.00047
11.75 1.00629 0.00048	11.95 1.00581 0.00048
11.80 1.00911 0.00048	12.00 1.00890 0.00048
11.85 1.01172 0.00047	12.05 1.01102 0.00047
11.90 1.01505 0.00047	12.10 1.01378 0.00048
11.95 1.01724 0.00047	12.15 1.01702 0.00047
12.00 1.02068 0.00048	12.20 1.01959 0.00047

760	765	770
10.80 0.92002 0.00047	10.90 0.92356 0.00047	10.90 0.92113 0.00047
10.90 0.92496 0.00047	10.95 0.92655 0.00047	10.95 0.92476 0.00046
11.00 0.93236 0.00047	11.00 0.92949 0.00046	11.00 0.92719 0.00047
11.10 0.93738 0.00047	11.05 0.93237 0.00047	11.05 0.93081 0.00046
11.20 0.94333 0.00048	11.10 0.93589 0.00047	11.10 0.93257 0.00046
11.30 0.95004 0.00047	11.15 0.93864 0.00049	11.15 0.93663 0.00046
11.40 0.95623 0.00047	11.20 0.94075 0.00046	11.20 0.93929 0.00045
11.50 0.96113 0.00047	11.25 0.94432 0.00047	11.25 0.94220 0.00047
11.60 0.96706 0.00046	11.30 0.94746 0.00048	11.30 0.94548 0.00047
11.70 0.97281 0.00047	11.35 0.94988 0.00047	11.35 0.94794 0.00048
11.80 0.97854 0.00048	11.40 0.95291 0.00048	11.40 0.95003 0.00047
11.90 0.98385 0.00048	11.45 0.95578 0.00047	11.45 0.95340 0.00046
12.00 0.98897 0.00048	11.50 0.95900 0.00046	11.50 0.95664 0.00047
12.10 0.99406 0.00047	11.55 0.96112 0.00047	11.55 0.95971 0.00046
12.20 1.00011 0.00047	11.60 0.96577 0.00048	11.60 0.96289 0.00047
12.30 1.00628 0.00046	11.65 0.96803 0.00047	11.65 0.96468 0.00048
12.40 1.01055 0.00048	11.70 0.97054 0.00048	11.70 0.96780 0.00047
12.50 1.01569 0.00049	11.75 0.97268 0.00047	11.75 0.97219 0.00046
12.60 1.02152 0.00048	11.80 0.97628 0.00048	11.80 0.97461 0.00047
	11.85 0.97884 0.00047	11.85 0.97635 0.00047
	11.90 0.98107 0.00048	11.90 0.97969 0.00048
	11.95 0.98473 0.00048	11.95 0.98203 0.00048
	12.00 0.98826 0.00046	12.00 0.98538 0.00047
	12.05 0.99064 0.00048	12.05 0.98808 0.00048
	12.10 0.99316 0.00047	12.10 0.99112 0.00047
	12.15 0.99590 0.00046	12.15 0.99427 0.00048
	12.20 0.99839 0.00047	12.20 0.99576 0.00049
	12.25 1.00040 0.00048	12.25 0.99846 0.00047
	12.30 1.00296 0.00048	12.30 1.00038 0.00046
	12.35 1.00595 0.00048	12.35 1.00460 0.00047
	12.40 1.00972 0.00048	12.40 1.00672 0.00047
	12.45 1.01192 0.00046	12.45 1.00924 0.00047
	12.50 1.01426 0.00048	12.50 1.01249 0.00048
	12.55 1.01809 0.00049	12.55 1.01457 0.00047
	12.60 1.01970 0.00047	12.60 1.01713 0.00047

775	0
10.90 0.91931 0.00047	
11.00 0.92588 0.00047	
11.10 0.93280 0.00048	
11.20 0.93790 0.00046	
11.30 0.94400 0.00048	
11.40 0.95031 0.00047	
11.50 0.95517 0.00047	
11.60 0.96088 0.00046	
11.70 0.96620 0.00048	
11.80 0.97200 0.00047	
11.90 0.97874 0.00047	
12.00 0.98438 0.00048	
12.10 0.98956 0.00048	
12.20 0.99508 0.00047	
12.30 1.00012 0.00046	
12.40 1.00542 0.00045	
12.50 1.01140 0.00048	
12.60 1.01615 0.00047	
12.70 1.02118 0.00046	

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12	15	20
22.10 0.92435 0.00030	18.80 0.92271 0.00034	16.30 0.92318 0.00039
22.30 0.92778 0.00031	19.00 0.92901 0.00035	16.40 0.92709 0.00039
22.50 0.93168 0.00030	19.20 0.93380 0.00034	16.50 0.93055 0.00038
22.70 0.93596 0.00030	19.40 0.93979 0.00033	16.60 0.93454 0.00039
22.90 0.93907 0.00030	19.80 0.95032 0.00033	16.70 0.93951 0.00039
23.10 0.94330 0.00030	20.00 0.95538 0.00034	16.80 0.94199 0.00040
23.30 0.94680 0.00030	20.20 0.96175 0.00034	16.90 0.94581 0.00037
23.50 0.94965 0.00029	20.40 0.96633 0.00034	17.00 0.94960 0.00038
23.70 0.95402 0.00029	20.60 0.97072 0.00034	17.10 0.95339 0.00038
23.90 0.95726 0.00030	20.80 0.97602 0.00034	17.20 0.95646 0.00039
24.10 0.96035 0.00029	21.00 0.98107 0.00033	17.30 0.96033 0.00038
24.30 0.96347 0.00029	21.20 0.98500 0.00033	17.40 0.96438 0.00038
24.50 0.96670 0.00030	21.40 0.99002 0.00033	17.50 0.96847 0.00040
24.70 0.96956 0.00029	21.60 0.99464 0.00033	17.60 0.97106 0.00038
24.90 0.97334 0.00029	21.80 0.99814 0.00033	17.70 0.97436 0.00038
25.10 0.97643 0.00029	22.00 1.00334 0.00033	17.80 0.97978 0.00039
25.30 0.97971 0.00029	22.20 1.00788 0.00033	17.90 0.98123 0.00039
25.50 0.98228 0.00029	22.40 1.01074 0.00033	18.00 0.98549 0.00037
25.70 0.98531 0.00028	22.60 1.01506 0.00032	18.10 0.98842 0.00038
26.10 0.99123 0.00029	22.80 1.01975 0.00033	18.20 0.99200 0.00037
26.30 0.99372 0.00028		18.30 0.99562 0.00038
26.50 0.99628 0.00029		18.40 0.99756 0.00038
26.70 0.99880 0.00028		18.50 1.00108 0.00039
26.90 1.00123 0.00028		18.60 1.00379 0.00038
27.10 1.00495 0.00028		18.70 1.00825 0.00038
27.30 1.00789 0.00027		18.80 1.01197 0.00038
27.50 1.00968 0.00028		19.00 1.01671 0.00038
27.70 1.01190 0.00028		

25	30	32
15.00 0.92039 0.00041	14.20 0.91800 0.00044	14.00 0.91833 0.00044
15.10 0.92499 0.00042	14.30 0.92296 0.00043	14.10 0.92464 0.00044
15.20 0.93004 0.00042	14.40 0.92811 0.00043	14.20 0.93052 0.00044
15.30 0.93475 0.00041	14.50 0.93338 0.00043	14.30 0.93603 0.00045
15.40 0.94009 0.00042	14.60 0.93922 0.00044	14.40 0.93977 0.00043
15.50 0.94397 0.00042	14.70 0.94381 0.00043	14.50 0.94539 0.00044
15.60 0.94780 0.00040	14.80 0.94899 0.00044	14.60 0.95166 0.00045
15.70 0.95313 0.00041	14.90 0.95390 0.00044	14.70 0.95704 0.00044
15.80 0.95725 0.00041	15.00 0.95800 0.00044	14.80 0.96141 0.00043
15.90 0.96157 0.00042	15.10 0.96336 0.00044	14.90 0.96565 0.00044
16.00 0.96536 0.00042	15.20 0.96845 0.00044	15.00 0.97153 0.00043
16.10 0.97018 0.00042	15.30 0.97389 0.00045	15.10 0.97644 0.00043
16.20 0.97447 0.00041	15.40 0.97722 0.00043	15.20 0.98163 0.00044
16.30 0.97827 0.00041	15.50 0.98326 0.00043	15.30 0.98551 0.00043
16.40 0.98317 0.00041	15.60 0.98630 0.00043	15.40 0.99106 0.00044
16.50 0.98705 0.00041	15.70 0.99197 0.00043	15.50 0.99527 0.00043

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16.60 0.99153 0.00040	15.80 0.99675 0.00044	15.60 1.00011 0.00044
16.70 0.99582 0.00041	15.90 1.00013 0.00043	15.70 1.00455 0.00043
16.80 0.99910 0.00040	16.00 1.00516 0.00044	15.80 1.00974 0.00043
16.90 1.00331 0.00042	16.10 1.01000 0.00042	15.90 1.01391 0.00044
17.00 1.00720 0.00041	16.20 1.01466 0.00042	16.00 1.01866 0.00044
17.10 1.01038 0.00041	16.30 1.01838 0.00043	
17.20 1.01387 0.00041		
17.30 1.01843 0.00041		

35	40	50
13.70 0.91762 0.00045	13.40 0.92068 0.00045	12.90 0.91723 0.00047
13.80 0.92271 0.00045	13.50 0.92667 0.00047	13.00 0.92387 0.00048
13.90 0.92861 0.00045	13.60 0.93366 0.00045	13.10 0.93028 0.00047
14.00 0.93455 0.00044	13.70 0.93870 0.00046	13.20 0.93611 0.00047
14.10 0.94046 0.00043	13.80 0.94416 0.00046	13.30 0.94277 0.00046
14.20 0.94536 0.00044	13.90 0.95036 0.00046	13.40 0.94861 0.00048
14.30 0.95084 0.00045	14.00 0.95561 0.00047	13.50 0.95516 0.00048
14.40 0.95645 0.00046	14.10 0.96017 0.00046	13.60 0.96063 0.00048
14.50 0.96134 0.00044	14.20 0.96678 0.00046	13.70 0.96648 0.00046
14.60 0.96680 0.00045	14.30 0.97248 0.00047	13.80 0.97357 0.00048
14.70 0.97217 0.00044	14.40 0.97749 0.00046	13.90 0.97822 0.00047
14.80 0.97777 0.00044	14.50 0.98317 0.00046	14.00 0.98380 0.00046
14.90 0.98197 0.00044	14.60 0.98890 0.00045	14.10 0.98928 0.00047
15.00 0.98726 0.00045	14.70 0.99381 0.00046	14.20 0.99529 0.00048
15.10 0.99268 0.00044	14.80 0.99821 0.00047	14.60 1.01802 0.00047
15.20 0.99740 0.00044	14.90 1.00466 0.00046	14.70 1.02316 0.00048
15.30 1.00156 0.00045	15.00 1.00828 0.00045	
15.40 1.00780 0.00045	15.10 1.01434 0.00045	
15.50 1.01179 0.00045	15.20 1.01914 0.00047	
15.60 1.01720 0.00045	15.30 1.02398 0.00046	

60	70	80
12.60 0.91577 0.00048	12.50 0.92038 0.00047	12.40 0.91995 0.00050
12.65 0.91900 0.00048	12.55 0.92207 0.00048	12.45 0.92424 0.00049
12.70 0.92321 0.00048	12.60 0.92650 0.00049	12.50 0.92650 0.00049
12.75 0.92520 0.00047	12.65 0.92855 0.00049	12.55 0.93058 0.00049
12.80 0.92878 0.00047	12.70 0.93257 0.00050	12.60 0.93415 0.00049
12.85 0.93256 0.00048	12.75 0.93581 0.00049	12.65 0.93657 0.00049
12.90 0.93551 0.00048	12.80 0.94028 0.00050	12.70 0.94005 0.00050
12.95 0.93721 0.00047	12.85 0.94257 0.00048	12.75 0.94324 0.00048
13.00 0.94140 0.00049	12.90 0.94654 0.00049	12.80 0.94650 0.00050
13.05 0.94511 0.00048	12.95 0.94925 0.00050	12.85 0.94999 0.00048
13.10 0.94828 0.00048	13.00 0.95269 0.00050	12.90 0.95356 0.00050
13.25 0.95779 0.00047	13.05 0.95587 0.00051	12.95 0.95699 0.00049
13.30 0.96032 0.00049	13.10 0.95863 0.00048	13.00 0.95940 0.00050
13.35 0.96380 0.00049	13.15 0.96156 0.00048	13.05 0.96376 0.00051
13.40 0.96725 0.00050	13.20 0.96536 0.00048	13.10 0.96629 0.00049

13.45 0.96989 0.00048	13.25 0.96756 0.00049	13.15 0.96941 0.00049
13.50 0.97275 0.00048	13.30 0.97093 0.00048	13.20 0.97192 0.00050
13.55 0.97637 0.00048	13.35 0.97461 0.00047	13.25 0.97566 0.00049
13.60 0.97943 0.00048	13.40 0.97695 0.00049	13.30 0.97873 0.00050
13.65 0.98146 0.00048	13.45 0.98159 0.00050	13.35 0.98128 0.00051
13.70 0.98448 0.00048	13.50 0.98358 0.00049	13.40 0.98436 0.00049
13.75 0.98797 0.00048	13.55 0.98627 0.00050	13.45 0.98860 0.00048
13.80 0.99046 0.00050	13.60 0.98906 0.00049	13.50 0.99098 0.00050
13.85 0.99360 0.00048	13.65 0.99299 0.00049	13.55 0.99406 0.00050
13.90 0.99657 0.00048	13.70 0.99468 0.00049	13.60 0.99654 0.00051
13.95 0.99922 0.00049	13.75 0.99879 0.00049	13.65 1.00007 0.00049
14.00 1.00232 0.00050	13.80 1.00129 0.00049	13.70 1.00354 0.00050
14.05 1.00576 0.00048	13.85 1.00308 0.00049	13.75 1.00623 0.00049
14.10 1.00832 0.00048	13.90 1.00695 0.00049	13.80 1.00927 0.00051
14.15 1.01132 0.00049	13.95 1.00995 0.00049	13.85 1.01256 0.00050
14.20 1.01373 0.00047	14.00 1.01244 0.00050	13.90 1.01483 0.00050
14.25 1.01695 0.00049	14.05 1.01638 0.00050	13.95 1.01821 0.00050
14.30 1.01978 0.00048	14.10 1.01917 0.00049	14.00 1.02089 0.00049

90	100	120
12.30 0.91829 0.00048	12.30 0.92138 0.00050	12.20 0.91730 0.00051
12.35 0.92170 0.00050	12.35 0.92547 0.00049	12.25 0.92083 0.00050
12.40 0.92434 0.00049	12.40 0.92819 0.00049	12.30 0.92461 0.00050
12.45 0.92798 0.00049	12.45 0.93273 0.00050	12.35 0.92737 0.00049
12.50 0.93187 0.00051	12.50 0.93616 0.00051	12.40 0.93113 0.00050
12.55 0.93578 0.00050	12.55 0.93850 0.00050	12.45 0.93462 0.00050
12.60 0.93927 0.00051	12.60 0.94258 0.00050	12.50 0.93781 0.00050
12.65 0.94201 0.00049	12.65 0.94502 0.00051	12.55 0.94055 0.00050
12.70 0.94542 0.00050	12.70 0.94912 0.00050	12.60 0.94301 0.00051
12.75 0.94897 0.00048	12.75 0.95239 0.00049	12.65 0.94731 0.00050
12.80 0.95141 0.00051	12.80 0.95620 0.00050	12.70 0.95087 0.00050
12.85 0.95496 0.00049	12.85 0.95880 0.00049	12.75 0.95474 0.00050
12.90 0.95920 0.00050	12.90 0.96104 0.00049	12.80 0.95735 0.00050
12.95 0.96142 0.00050	12.95 0.96530 0.00051	12.85 0.96067 0.00049
13.00 0.96482 0.00048	13.00 0.96792 0.00050	12.90 0.96220 0.00051
13.05 0.96685 0.00049	13.05 0.97201 0.00051	12.95 0.96664 0.00050
13.10 0.97167 0.00049	13.10 0.97542 0.00049	13.00 0.96955 0.00049
13.15 0.97465 0.00049	13.15 0.97800 0.00052	13.05 0.97382 0.00051
13.20 0.97682 0.00050	13.20 0.98067 0.00050	13.10 0.97552 0.00051
13.25 0.98041 0.00049	13.25 0.98328 0.00050	13.15 0.97877 0.00051
13.30 0.98376 0.00050	13.30 0.98722 0.00050	13.20 0.98215 0.00051
13.35 0.98701 0.00050	13.35 0.99042 0.00049	13.25 0.98556 0.00049
13.40 0.99041 0.00049	13.40 0.99319 0.00051	13.30 0.98882 0.00050
13.45 0.99329 0.00049	13.45 0.99650 0.00050	13.35 0.99170 0.00050
13.50 0.99567 0.00050	13.50 0.99897 0.00050	13.40 0.99573 0.00051
13.55 0.99883 0.00051	13.55 1.00210 0.00051	13.45 0.99798 0.00049
13.60 1.00269 0.00049	13.60 1.00561 0.00050	13.50 1.00086 0.00050
13.65 1.00594 0.00049	13.65 1.00814 0.00051	13.55 1.00273 0.00049
13.70 1.00880 0.00049	13.70 1.01154 0.00050	13.60 1.00698 0.00049

13.75 1.01178 0.00050	13.75 1.01416 0.00051	13.65 1.00990 0.00050
13.80 1.01415 0.00050	13.80 1.01747 0.00050	13.70 1.01345 0.00050
13.85 1.01658 0.00050	13.85 1.01964 0.00049	13.75 1.01633 0.00050
13.90 1.02065 0.00050	13.90 1.02247 0.00050	13.80 1.01934 0.00050
		13.85 1.02199 0.00050
		13.90 1.02505 0.00050

130	150	200
12.20 0.91842 0.00051	12.20 0.91879 0.00049	12.30 0.91990 0.00049
12.25 0.92248 0.00051	12.25 0.92189 0.00051	12.35 0.92475 0.00050
12.30 0.92501 0.00049	12.30 0.92474 0.00050	12.40 0.92781 0.00049
12.35 0.93004 0.00048	12.35 0.92880 0.00049	12.45 0.93169 0.00050
12.40 0.93288 0.00048	12.40 0.93163 0.00050	12.50 0.93448 0.00049
12.45 0.93549 0.00049	12.60 0.94522 0.00050	12.55 0.93732 0.00051
12.50 0.93941 0.00049	12.65 0.94803 0.00050	12.60 0.94089 0.00050
12.55 0.94224 0.00050	12.70 0.95080 0.00051	12.65 0.94408 0.00049
12.60 0.94532 0.00050	12.75 0.95530 0.00051	12.70 0.94661 0.00051
12.65 0.94891 0.00050	12.80 0.95823 0.00050	12.75 0.94999 0.00051
12.70 0.95125 0.00051	12.85 0.96145 0.00051	12.80 0.95363 0.00050
12.75 0.95580 0.00048	12.90 0.96391 0.00050	12.85 0.95684 0.00049
12.80 0.95860 0.00051	12.95 0.96796 0.00051	12.90 0.96014 0.00050
12.85 0.96239 0.00051	13.00 0.97067 0.00051	12.95 0.96311 0.00050
12.90 0.96563 0.00050	13.05 0.97371 0.00051	13.00 0.96609 0.00051
12.95 0.96884 0.00050	13.10 0.97714 0.00049	13.05 0.96874 0.00051
13.00 0.97043 0.00049	13.20 0.98345 0.00050	13.10 0.97130 0.00050
13.05 0.97410 0.00050	13.25 0.98648 0.00050	13.15 0.97582 0.00050
13.10 0.97812 0.00050	13.30 0.98959 0.00051	13.20 0.97866 0.00049
13.15 0.98183 0.00049	13.35 0.99218 0.00049	13.25 0.98175 0.00051
13.20 0.98370 0.00049	13.40 0.99516 0.00049	13.30 0.98476 0.00049
13.25 0.98729 0.00052	13.45 0.99841 0.00050	13.35 0.98782 0.00050
13.30 0.99117 0.00051	13.50 1.00114 0.00050	13.40 0.98970 0.00048
13.35 0.99463 0.00050	13.55 1.00372 0.00050	13.45 0.99387 0.00050
13.40 0.99599 0.00050	13.60 1.00759 0.00051	13.50 0.99609 0.00051
13.45 0.99988 0.00049	13.65 1.01070 0.00050	13.55 0.99982 0.00049
13.50 1.00231 0.00049	13.70 1.01408 0.00050	13.60 1.00349 0.00051
13.55 1.00505 0.00051	13.75 1.01657 0.00050	13.65 1.00532 0.00049
13.60 1.00892 0.00049	13.80 1.01956 0.00051	13.70 1.00774 0.00050
13.65 1.01198 0.00050		13.75 1.01106 0.00049
13.70 1.01522 0.00050		13.80 1.01450 0.00050
13.75 1.01808 0.00053		13.85 1.01714 0.00051
13.80 1.02089 0.00050		13.90 1.01969 0.00052

239	250	359
12.40 0.92329 0.00049	12.40 0.92096 0.00049	12.60 0.91945 0.00050
12.45 0.92512 0.00050	12.50 0.92860 0.00049	12.65 0.92370 0.00049
12.50 0.92886 0.00049	12.55 0.93156 0.00051	12.70 0.92566 0.00049
12.55 0.93205 0.00049	12.60 0.93447 0.00050	12.75 0.92918 0.00049

12.60 0.93678 0.00049	12.65 0.93708 0.00050	12.80 0.93275 0.00048
12.65 0.93916 0.00050	12.70 0.93990 0.00049	12.85 0.93637 0.00049
12.70 0.94295 0.00050	12.75 0.94364 0.00050	12.90 0.93804 0.00048
12.75 0.94494 0.00049	12.80 0.94707 0.00051	12.95 0.94180 0.00049
12.80 0.94862 0.00049	12.85 0.94907 0.00049	13.00 0.94516 0.00049
12.85 0.95116 0.00050	12.90 0.95346 0.00049	13.05 0.94822 0.00049
12.90 0.95567 0.00049	12.95 0.95646 0.00049	13.10 0.95058 0.00051
12.95 0.95768 0.00050	13.00 0.95942 0.00051	13.15 0.95437 0.00049
13.00 0.96077 0.00049	13.05 0.96236 0.00049	13.20 0.95628 0.00048
13.05 0.96470 0.00050	13.10 0.96598 0.00049	13.25 0.96002 0.00049
13.10 0.96694 0.00050	13.15 0.96863 0.00050	13.30 0.96264 0.00050
13.15 0.97062 0.00051	13.20 0.97087 0.00050	13.35 0.96720 0.00049
13.20 0.97272 0.00050	13.25 0.97491 0.00050	13.40 0.96894 0.00050
13.25 0.97603 0.00049	13.30 0.97887 0.00049	13.45 0.97229 0.00049
13.30 0.97966 0.00051	13.35 0.98027 0.00049	13.50 0.97420 0.00048
13.35 0.98283 0.00049	13.40 0.98249 0.00050	13.55 0.97755 0.00050
13.40 0.98560 0.00049	13.45 0.98622 0.00051	13.60 0.98021 0.00048
13.45 0.98856 0.00050	13.50 0.98961 0.00051	13.65 0.98230 0.00050
13.50 0.99081 0.00050	13.55 0.99215 0.00049	13.70 0.98631 0.00047
13.55 0.99451 0.00048	13.65 0.99879 0.00049	13.75 0.98888 0.00050
13.60 0.99668 0.00049	13.70 1.00153 0.00050	13.80 0.99195 0.00049
13.65 0.99959 0.00051	13.75 1.00409 0.00049	13.85 0.99463 0.00048
13.70 1.00204 0.00050	13.80 1.00732 0.00051	13.90 0.99720 0.00050
13.75 1.00517 0.00051	13.85 1.01060 0.00050	13.95 1.00052 0.00049
13.80 1.00870 0.00051	13.90 1.01295 0.00050	14.00 1.00235 0.00050
13.85 1.01144 0.00049	13.95 1.01381 0.00052	14.05 1.00554 0.00050
13.90 1.01414 0.00051	14.00 1.01808 0.00050	14.10 1.00773 0.00049
13.95 1.01749 0.00049		14.15 1.01114 0.00050
14.00 1.01844 0.00051		14.20 1.01401 0.00050
14.05 1.02322 0.00049		14.25 1.01575 0.00049
14.10 1.02495 0.00049		14.30 1.01890 0.00049

478	500	600
12.90 0.92142 0.00049	12.90 0.91875 0.00047	13.30 0.91780 0.00048
12.95 0.92432 0.00050	13.00 0.92424 0.00048	13.40 0.92217 0.00048
13.00 0.92799 0.00049	13.10 0.93039 0.00049	13.50 0.92917 0.00050
13.05 0.93090 0.00050	13.20 0.93738 0.00048	13.70 0.94097 0.00048
13.10 0.93435 0.00049	13.30 0.94202 0.00049	13.80 0.94622 0.00049
13.15 0.93682 0.00048	13.40 0.94795 0.00050	13.90 0.95043 0.00048
13.20 0.94042 0.00048	13.50 0.95380 0.00050	14.00 0.95659 0.00049
13.25 0.94230 0.00049	13.60 0.95890 0.00049	14.10 0.96286 0.00048
13.30 0.94572 0.00048	13.80 0.96962 0.00049	14.20 0.96805 0.00048
13.35 0.94839 0.00050	13.90 0.97684 0.00050	14.30 0.97493 0.00049
13.40 0.95205 0.00049	14.00 0.98178 0.00050	14.40 0.97926 0.00048
13.45 0.95461 0.00049	14.10 0.98752 0.00049	14.50 0.98401 0.00048
13.50 0.95733 0.00050	14.20 0.99199 0.00048	14.60 0.98806 0.00048
13.55 0.96060 0.00049	14.30 0.99717 0.00049	14.70 0.99448 0.00048
13.60 0.96317 0.00049	14.40 1.00332 0.00049	15.00 1.00975 0.00048
13.65 0.96563 0.00050	14.50 1.00854 0.00048	15.10 1.01403 0.00049
13.70 0.96932 0.00048	14.60 1.01280 0.00049	15.20 1.01960 0.00047
13.75 0.97229 0.00049	14.70 1.01902 0.00049	

13.80 0.97488 0.00049
 13.85 0.97720 0.00049
 13.90 0.97981 0.00049
 13.95 0.98231 0.00049
 14.00 0.98571 0.00050
 14.05 0.98821 0.00049
 14.10 0.99189 0.00048
 14.15 0.99351 0.00049
 14.20 0.99568 0.00048
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 14.30 1.00150 0.00049
 14.35 1.00387 0.00050
 14.40 1.00757 0.00049
 14.45 1.00952 0.00050
 14.50 1.01249 0.00049
 14.55 1.01517 0.00048
 14.60 1.01786 0.00050

650	700	750
13.80 0.92746 0.00049	14.20 0.91873 0.00048	15.60 0.91659 0.00048
13.90 0.93279 0.00048	14.30 0.92365 0.00046	15.70 0.92236 0.00046
14.00 0.93843 0.00047	14.40 0.92924 0.00047	15.80 0.92698 0.00047
14.10 0.94314 0.00047	14.50 0.93545 0.00048	15.90 0.93200 0.00047
14.20 0.94972 0.00047	14.60 0.93955 0.00047	16.00 0.93728 0.00047
14.30 0.95500 0.00047	14.70 0.94610 0.00049	16.10 0.94170 0.00048
14.40 0.95975 0.00048	14.80 0.95106 0.00047	16.20 0.94558 0.00046
14.50 0.96598 0.00049	14.90 0.95605 0.00048	16.30 0.95194 0.00047
14.60 0.97101 0.00047	15.00 0.96066 0.00048	16.40 0.95610 0.00046
14.70 0.97624 0.00048	15.10 0.96607 0.00047	16.50 0.96075 0.00048
14.80 0.98074 0.00049	15.20 0.97172 0.00049	16.60 0.96452 0.00047
14.90 0.98631 0.00049	15.30 0.97686 0.00047	16.70 0.96988 0.00047
15.00 0.99055 0.00048	15.40 0.98176 0.00047	16.80 0.97414 0.00046
15.10 0.99698 0.00049	15.50 0.98606 0.00048	16.90 0.98016 0.00046
15.20 1.00119 0.00048	15.60 0.99106 0.00048	17.00 0.98530 0.00047
15.30 1.00738 0.00048	15.90 1.00595 0.00047	17.10 0.98841 0.00047
15.40 1.01087 0.00048	16.00 1.01194 0.00047	17.20 0.99346 0.00047
15.50 1.01655 0.00048	16.10 1.01522 0.00047	17.30 0.99679 0.00047
15.60 1.02191 0.00048	16.20 1.01998 0.00049	17.40 1.00185 0.00047
		17.50 1.00624 0.00047
		17.60 1.01126 0.00047
		17.70 1.01537 0.00047
		17.80 1.01846 0.00048

752	754	755
15.80 0.91768 0.00049	16.10 0.91885 0.00047	16.30 0.91664 0.00047
15.90 0.92348 0.00046	16.20 0.92355 0.00047	16.40 0.92160 0.00047
16.00 0.92738 0.00049	16.30 0.92937 0.00047	16.50 0.92737 0.00046

16.10 0.93251 0.00046	16.40 0.93404 0.00046	16.60 0.93174 0.00048
16.20 0.93666 0.00048	16.50 0.93844 0.00047	16.70 0.93619 0.00045
16.30 0.94240 0.00048	16.60 0.94268 0.00048	16.80 0.94064 0.00047
16.40 0.94640 0.00047	16.70 0.94815 0.00046	16.90 0.94592 0.00048
16.50 0.95159 0.00049	16.80 0.95362 0.00047	17.00 0.95061 0.00047
16.60 0.95635 0.00048	16.90 0.95736 0.00045	17.10 0.95459 0.00047
16.70 0.96071 0.00047	17.00 0.96265 0.00046	17.20 0.95904 0.00048
16.80 0.96576 0.00048	17.10 0.96616 0.00047	17.30 0.96379 0.00048
16.90 0.97072 0.00047	17.20 0.97141 0.00047	17.40 0.96884 0.00046
17.20 0.98376 0.00048	17.30 0.97683 0.00048	17.50 0.97347 0.00047
17.30 0.98888 0.00048	17.40 0.97998 0.00047	17.60 0.97630 0.00047
17.40 0.99288 0.00047	17.50 0.98471 0.00046	17.70 0.98108 0.00046
17.50 0.99772 0.00046	17.60 0.98919 0.00048	17.80 0.98610 0.00045
17.60 1.00193 0.00048	17.70 0.99346 0.00047	17.90 0.99030 0.00047
17.70 1.00547 0.00049	17.80 0.99776 0.00048	18.00 0.99527 0.00048
17.80 1.01073 0.00047	17.90 1.00165 0.00047	18.10 0.99899 0.00047
17.90 1.01502 0.00047	18.00 1.00575 0.00047	18.20 1.00225 0.00047
18.00 1.01899 0.00048	18.10 1.01132 0.00046	18.30 1.00748 0.00046
	18.20 1.01500 0.00047	18.40 1.01125 0.00047
	18.30 1.01922 0.00047	18.50 1.01482 0.00046
		18.60 1.01946 0.00048

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12	15	20
20.70 0.92632 0.00030	17.30 0.92253 0.00034	14.80 0.92263 0.00037
20.90 0.93006 0.00029	17.50 0.92860 0.00033	14.90 0.92620 0.00036
21.10 0.93341 0.00029	17.70 0.93466 0.00033	15.00 0.93081 0.00038
21.30 0.93784 0.00029	17.90 0.94051 0.00034	15.10 0.93529 0.00038
21.50 0.94133 0.00029	18.10 0.94573 0.00033	15.30 0.94264 0.00038
21.70 0.94528 0.00030	18.30 0.95101 0.00034	15.40 0.94641 0.00037
21.90 0.94857 0.00029	18.50 0.95625 0.00034	15.50 0.95019 0.00038
22.10 0.95245 0.00029	18.70 0.96114 0.00033	15.60 0.95411 0.00037
22.30 0.95474 0.00028	18.90 0.96606 0.00033	15.70 0.95758 0.00037
22.50 0.95894 0.00028	19.10 0.97160 0.00033	15.80 0.96098 0.00038
22.70 0.96226 0.00029	19.30 0.97666 0.00034	15.90 0.96458 0.00037
22.90 0.96624 0.00029	19.50 0.98066 0.00032	16.00 0.96780 0.00037
23.10 0.96881 0.00029	19.70 0.98500 0.00032	16.10 0.97125 0.00037
23.30 0.97218 0.00029	19.90 0.99060 0.00032	16.20 0.97562 0.00037
23.50 0.97515 0.00028	20.10 0.99421 0.00032	16.30 0.97816 0.00037
23.70 0.97812 0.00027	20.30 0.99905 0.00032	16.40 0.98248 0.00038
23.90 0.98107 0.00029	20.50 1.00282 0.00032	16.50 0.98535 0.00037
24.10 0.98448 0.00028	20.70 1.00797 0.00032	16.60 0.98889 0.00037
24.30 0.98709 0.00027	20.90 1.01183 0.00032	16.70 0.99237 0.00037
24.50 0.98959 0.00027	21.10 1.01669 0.00032	16.80 0.99581 0.00038
24.70 0.99223 0.00027		16.90 0.99862 0.00037
24.90 0.99549 0.00028		17.00 1.00209 0.00037
25.10 0.99746 0.00028		17.10 1.00519 0.00037
25.30 1.00008 0.00027		17.20 1.00852 0.00037
25.50 1.00337 0.00027		17.30 1.01118 0.00037
25.70 1.00567 0.00029		17.40 1.01499 0.00037

25.90 1.00876 0.00027
 26.10 1.01114 0.00027
 26.30 1.01306 0.00027

17.50 1.01827 0.00037

25	30	32
13.50 0.92052 0.00041	12.70 0.91852 0.00042	12.50 0.92034 0.00043
13.60 0.92585 0.00039	12.80 0.92378 0.00042	12.60 0.92517 0.00043
13.70 0.93076 0.00040	12.90 0.92962 0.00041	12.70 0.93074 0.00042
13.80 0.93531 0.00040	13.00 0.93463 0.00042	12.80 0.93658 0.00042
13.90 0.94055 0.00040	13.10 0.93924 0.00041	12.90 0.94171 0.00041
14.00 0.94381 0.00041	13.20 0.94530 0.00043	13.00 0.94726 0.00042
14.10 0.94825 0.00040	13.30 0.94990 0.00041	13.10 0.95177 0.00042
14.20 0.95358 0.00040	13.40 0.95545 0.00041	13.20 0.95719 0.00042
14.30 0.95737 0.00040	13.50 0.95932 0.00042	13.30 0.96222 0.00043
14.40 0.96184 0.00040	13.60 0.96449 0.00042	13.40 0.96622 0.00042
14.50 0.96617 0.00040	13.70 0.96968 0.00042	13.50 0.97218 0.00042
14.60 0.97134 0.00039	13.80 0.97344 0.00042	13.60 0.97732 0.00043
14.70 0.97583 0.00040	13.90 0.97909 0.00040	13.70 0.98255 0.00042
14.80 0.97926 0.00039	14.00 0.98373 0.00042	13.80 0.98711 0.00044
14.90 0.98341 0.00040	14.10 0.98780 0.00043	13.90 0.99119 0.00043
15.00 0.98766 0.00039	14.20 0.99244 0.00042	14.00 0.99677 0.00042
15.10 0.99154 0.00040	14.30 0.99696 0.00041	14.10 1.00106 0.00042
15.20 0.99544 0.00040	14.40 1.00118 0.00041	14.20 1.00538 0.00042
15.30 0.99946 0.00039	14.50 1.00645 0.00042	14.30 1.01014 0.00042
15.40 1.00270 0.00039	14.60 1.01167 0.00042	14.40 1.01547 0.00043
15.50 1.00781 0.00039	14.70 1.01525 0.00043	14.50 1.01849 0.00042
15.60 1.01169 0.00039	14.80 1.01960 0.00042	
15.70 1.01549 0.00039		
15.80 1.01892 0.00040		

35	40	50
12.30 0.92440 0.00043	11.90 0.92181 0.00046	11.40 0.91864 0.00045
12.40 0.93023 0.00043	12.00 0.92773 0.00045	11.45 0.92253 0.00045
12.50 0.93592 0.00044	12.10 0.93441 0.00045	11.50 0.92513 0.00044
12.60 0.94092 0.00043	12.20 0.93953 0.00044	11.55 0.92983 0.00046
12.70 0.94688 0.00042	12.30 0.94499 0.00045	11.60 0.93148 0.00044
12.80 0.95229 0.00043	12.40 0.95093 0.00043	11.65 0.93460 0.00045
12.90 0.95737 0.00043	12.50 0.95723 0.00045	11.70 0.93824 0.00046
13.00 0.96226 0.00043	12.60 0.96289 0.00044	11.75 0.94113 0.00045
13.10 0.96816 0.00043	12.70 0.96800 0.00044	11.80 0.94411 0.00045
13.20 0.97277 0.00043	12.80 0.97335 0.00044	11.85 0.94777 0.00046
13.30 0.97821 0.00043	12.90 0.97884 0.00044	11.90 0.95048 0.00046
13.40 0.98310 0.00043	13.00 0.98455 0.00044	11.95 0.95360 0.00046
13.50 0.98952 0.00043	13.10 0.98997 0.00044	12.00 0.95625 0.00046
13.60 0.99293 0.00043	13.20 0.99551 0.00045	12.05 0.95948 0.00045
13.70 0.99821 0.00043	13.30 0.99972 0.00043	12.10 0.96324 0.00045
13.80 1.00337 0.00043	13.40 1.00595 0.00044	12.30 0.97434 0.00045

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13.90 1.00808 0.00041	13.50 1.01052 0.00044	12.35 0.97705 0.00046
14.00 1.01213 0.00043	13.60 1.01560 0.00044	12.40 0.97959 0.00045
14.10 1.01780 0.00043	13.70 1.02034 0.00043	12.45 0.98321 0.00046
14.20 1.02222 0.00043		12.50 0.98564 0.00045
		12.55 0.98913 0.00044
		12.60 0.99040 0.00046
		12.65 0.99417 0.00044
		12.70 0.99779 0.00046
		12.75 1.00040 0.00045
		12.80 1.00269 0.00046
		12.85 1.00541 0.00045
		12.90 1.00748 0.00046
		13.00 1.01281 0.00045
		13.05 1.01679 0.00047
		13.10 1.01903 0.00044

60	70	80
11.10 0.91676 0.00046	11.00 0.92048 0.00048	10.80 0.91536 0.00047
11.15 0.92036 0.00046	11.05 0.92533 0.00048	10.85 0.91986 0.00048
11.20 0.92487 0.00047	11.10 0.92851 0.00047	10.90 0.92184 0.00048
11.25 0.92644 0.00047	11.15 0.93141 0.00046	10.95 0.92645 0.00048
11.30 0.93040 0.00046	11.20 0.93539 0.00047	11.00 0.92947 0.00047
11.35 0.93310 0.00046	11.25 0.93795 0.00048	11.05 0.93297 0.00047
11.40 0.93699 0.00045	11.30 0.94202 0.00048	11.10 0.93653 0.00047
11.45 0.94094 0.00047	11.35 0.94485 0.00047	11.15 0.93884 0.00046
11.50 0.94382 0.00045	11.40 0.94849 0.00048	11.20 0.94204 0.00047
11.55 0.94714 0.00046	11.45 0.95156 0.00047	11.25 0.94622 0.00049
11.60 0.94994 0.00046	11.50 0.95488 0.00047	11.30 0.94890 0.00047
11.65 0.95333 0.00046	11.55 0.95807 0.00047	11.35 0.95253 0.00048
11.70 0.95588 0.00046	11.60 0.96088 0.00046	11.40 0.95623 0.00047
11.75 0.95943 0.00047	11.65 0.96474 0.00047	11.45 0.95942 0.00048
11.80 0.96267 0.00047	11.70 0.96691 0.00045	11.50 0.96193 0.00047
11.85 0.96594 0.00047	11.75 0.96991 0.00048	11.55 0.96558 0.00048
11.90 0.96973 0.00048	11.80 0.97310 0.00047	11.60 0.96904 0.00048
11.95 0.97163 0.00047	11.85 0.97662 0.00045	11.65 0.97215 0.00048
12.00 0.97483 0.00046	11.90 0.97957 0.00048	11.70 0.97553 0.00049
12.05 0.97786 0.00046	11.95 0.98234 0.00046	11.75 0.97837 0.00048
12.10 0.98127 0.00045	12.00 0.98563 0.00047	11.80 0.98157 0.00049
12.15 0.98368 0.00047	12.05 0.98885 0.00046	11.85 0.98484 0.00047
12.20 0.98694 0.00046	12.10 0.99255 0.00046	11.90 0.98787 0.00048
12.25 0.98961 0.00047	12.15 0.99506 0.00047	11.95 0.99123 0.00048
12.30 0.99274 0.00046	12.20 0.99775 0.00047	12.00 0.99394 0.00049
12.35 0.99552 0.00046	12.25 1.00109 0.00046	12.05 0.99657 0.00047
12.40 0.99982 0.00047	12.30 1.00342 0.00048	12.10 1.00019 0.00046
12.45 1.00196 0.00047	12.35 1.00667 0.00047	12.15 1.00332 0.00047
12.50 1.00360 0.00046	12.40 1.00998 0.00047	12.20 1.00599 0.00048
12.55 1.00634 0.00048	12.45 1.01190 0.00048	12.25 1.00886 0.00047
12.60 1.01173 0.00045	12.50 1.01566 0.00047	12.30 1.01189 0.00048
12.65 1.01299 0.00046	12.55 1.01901 0.00048	12.35 1.01525 0.00049
12.70 1.01600 0.00047	12.60 1.02037 0.00048	12.40 1.01788 0.00046

12.75 1.01832 0.00046
 12.80 1.02161 0.00047

90	100	120
10.80 0.92114 0.00049	10.70 0.91721 0.00048	10.70 0.92002 0.00048
10.85 0.92450 0.00049	10.75 0.92062 0.00047	10.75 0.92384 0.00048
10.90 0.92791 0.00047	10.80 0.92465 0.00048	10.80 0.92745 0.00047
10.95 0.93149 0.00048	10.85 0.92825 0.00048	10.85 0.93118 0.00048
11.00 0.93451 0.00047	10.90 0.93143 0.00049	10.90 0.93464 0.00048
11.05 0.93842 0.00050	10.95 0.93517 0.00048	10.95 0.93795 0.00049
11.10 0.94068 0.00047	11.00 0.93837 0.00048	11.00 0.94113 0.00047
11.15 0.94453 0.00047	11.05 0.94218 0.00046	11.05 0.94339 0.00048
11.20 0.94793 0.00048	11.10 0.94545 0.00048	11.10 0.94718 0.00049
11.25 0.95221 0.00047	11.15 0.94793 0.00047	11.15 0.95080 0.00049
11.30 0.95428 0.00048	11.20 0.95123 0.00048	11.20 0.95408 0.00047
11.35 0.95791 0.00049	11.25 0.95567 0.00049	11.25 0.95730 0.00049
11.40 0.96109 0.00048	11.30 0.95853 0.00048	11.30 0.96033 0.00048
11.45 0.96467 0.00049	11.35 0.96191 0.00049	11.35 0.96509 0.00048
11.50 0.96781 0.00048	11.40 0.96491 0.00047	11.40 0.96786 0.00048
11.55 0.97175 0.00048	11.45 0.96896 0.00049	11.45 0.97002 0.00048
11.60 0.97448 0.00048	11.50 0.97187 0.00049	11.50 0.97331 0.00049
11.65 0.97720 0.00048	11.55 0.97376 0.00049	11.55 0.97617 0.00049
11.70 0.98045 0.00047	11.60 0.97670 0.00047	11.60 0.97999 0.00049
11.75 0.98316 0.00049	11.65 0.98039 0.00048	11.65 0.98337 0.00048
11.80 0.98542 0.00049	11.70 0.98417 0.00048	11.70 0.98555 0.00047
11.85 0.98923 0.00047	11.75 0.98654 0.00049	11.75 0.98928 0.00048
11.90 0.99359 0.00049	11.80 0.99081 0.00049	11.80 0.99171 0.00049
11.95 0.99623 0.00047	11.85 0.99256 0.00048	11.85 0.99564 0.00048
12.00 0.99971 0.00049	11.90 0.99602 0.00048	11.90 0.99785 0.00049
12.05 1.00147 0.00049	11.95 0.99844 0.00049	11.95 1.00157 0.00049
12.10 1.00435 0.00047	12.00 1.00119 0.00048	12.00 1.00486 0.00050
12.15 1.00848 0.00048	12.05 1.00489 0.00048	12.05 1.00767 0.00049
12.20 1.01070 0.00049	12.10 1.00835 0.00049	12.10 1.01067 0.00048
12.25 1.01339 0.00049	12.15 1.01124 0.00049	12.15 1.01370 0.00048
12.30 1.01751 0.00048	12.20 1.01365 0.00049	12.20 1.01648 0.00048
12.35 1.01937 0.00049	12.25 1.01841 0.00048	12.25 1.01928 0.00048
12.40 1.02318 0.00048	12.30 1.01953 0.00047	12.30 1.02260 0.00049

130	150	200
10.70 0.92229 0.00049	10.70 0.92229 0.00048	10.70 0.91756 0.00050
10.75 0.92547 0.00046	10.75 0.92499 0.00048	10.75 0.92175 0.00049
10.80 0.92909 0.00048	10.80 0.92907 0.00048	10.80 0.92481 0.00050
10.85 0.93291 0.00047	10.85 0.93226 0.00050	10.85 0.92716 0.00050
10.90 0.93584 0.00049	10.90 0.93514 0.00050	10.90 0.93144 0.00048
10.95 0.93929 0.00048	10.95 0.93888 0.00048	10.95 0.93570 0.00049
11.00 0.94263 0.00047	11.00 0.94126 0.00048	11.00 0.93739 0.00048
11.05 0.94556 0.00048	11.10 0.94823 0.00048	11.05 0.94085 0.00048

11.10 0.94902 0.00047	11.15 0.95177 0.00047	11.10 0.94457 0.00049
11.15 0.95295 0.00047	11.20 0.95595 0.00049	11.15 0.94663 0.00048
11.20 0.95553 0.00048	11.25 0.95854 0.00049	11.20 0.95071 0.00048
11.25 0.95931 0.00048	11.30 0.96205 0.00050	11.25 0.95485 0.00049
11.30 0.96255 0.00047	11.35 0.96525 0.00049	11.30 0.95666 0.00048
11.35 0.96480 0.00047	11.40 0.96701 0.00048	11.35 0.95947 0.00050
11.40 0.96845 0.00049	11.45 0.97188 0.00048	11.40 0.96353 0.00048
11.45 0.97252 0.00048	11.50 0.97491 0.00050	11.45 0.96645 0.00048
11.50 0.97417 0.00048	11.55 0.97635 0.00049	11.50 0.96955 0.00048
11.55 0.97858 0.00049	11.60 0.98078 0.00048	11.55 0.97307 0.00048
11.60 0.98151 0.00049	11.65 0.98372 0.00048	11.60 0.97536 0.00047
11.65 0.98553 0.00048	11.70 0.98663 0.00049	11.65 0.97916 0.00049
11.70 0.98768 0.00049	11.75 0.98970 0.00049	11.70 0.98255 0.00048
11.75 0.99012 0.00049	11.80 0.99405 0.00049	11.75 0.98530 0.00049
11.80 0.99413 0.00049	11.85 0.99590 0.00048	11.80 0.98777 0.00050
11.85 0.99703 0.00048	11.90 0.99895 0.00049	11.85 0.99104 0.00048
12.10 1.01196 0.00048	11.95 1.00165 0.00048	11.90 0.99445 0.00048
12.15 1.01460 0.00047	12.00 1.00484 0.00049	11.95 0.99744 0.00047
12.20 1.01812 0.00049	12.05 1.00817 0.00049	12.00 0.99962 0.00048
	12.10 1.01159 0.00049	12.05 1.00309 0.00049
	12.15 1.01415 0.00048	12.10 1.00641 0.00048
	12.20 1.01734 0.00048	12.15 1.00894 0.00049
	12.25 1.02043 0.00049	12.20 1.01180 0.00049
	12.30 1.02287 0.00050	12.25 1.01481 0.00050
		12.30 1.01776 0.00047
		12.35 1.01977 0.00048
		12.40 1.02285 0.00049

239	250	359
10.80 0.92048 0.00047	10.80 0.91879 0.00047	11.00 0.91683 0.00049
10.85 0.92306 0.00048	10.85 0.92205 0.00048	11.10 0.92313 0.00046
10.90 0.92762 0.00049	10.90 0.92472 0.00049	11.20 0.93069 0.00048
10.95 0.93032 0.00049	10.95 0.92811 0.00048	11.30 0.93642 0.00049
11.00 0.93307 0.00048	11.00 0.93075 0.00049	11.40 0.94319 0.00049
11.05 0.93636 0.00048	11.05 0.93504 0.00048	11.50 0.94986 0.00048
11.10 0.93997 0.00047	11.10 0.93792 0.00048	11.60 0.95443 0.00048
11.15 0.94282 0.00049	11.15 0.94068 0.00049	11.70 0.96084 0.00048
11.20 0.94620 0.00047	11.20 0.94430 0.00049	11.80 0.96634 0.00049
11.25 0.94953 0.00049	11.25 0.94700 0.00048	11.90 0.97186 0.00048
11.30 0.95179 0.00050	11.30 0.95069 0.00048	12.00 0.97878 0.00048
11.35 0.95550 0.00050	11.35 0.95342 0.00049	12.10 0.98373 0.00048
11.40 0.95776 0.00049	11.40 0.95668 0.00048	12.20 0.98976 0.00048
11.45 0.96233 0.00049	11.50 0.96321 0.00049	12.30 0.99517 0.00049
11.50 0.96465 0.00048	11.55 0.96638 0.00048	12.40 1.00003 0.00048
11.55 0.96775 0.00046	11.60 0.96982 0.00048	12.50 1.00634 0.00049
11.60 0.97096 0.00049	11.65 0.97222 0.00049	12.60 1.01175 0.00049
11.65 0.97364 0.00049	11.70 0.97633 0.00049	12.70 1.01695 0.00048
11.70 0.97818 0.00050	11.75 0.97836 0.00049	12.80 1.02251 0.00048
11.75 0.98081 0.00049	11.80 0.98096 0.00049	

11.80 0.98359 0.00049	11.85 0.98546 0.00048
11.85 0.98619 0.00048	11.90 0.98683 0.00048
11.90 0.98921 0.00050	11.95 0.98944 0.00049
11.95 0.99167 0.00048	12.00 0.99347 0.00048
12.05 0.99781 0.00049	12.05 0.99607 0.00048
12.10 1.00041 0.00049	12.10 0.99985 0.00048
12.15 1.00325 0.00049	12.15 1.00123 0.00049
12.20 1.00579 0.00049	12.20 1.00411 0.00048
12.25 1.00894 0.00048	12.25 1.00795 0.00048
12.30 1.01179 0.00049	12.30 1.01082 0.00047
12.35 1.01518 0.00048	12.35 1.01354 0.00049
12.40 1.01803 0.00049	12.40 1.01587 0.00048
12.45 1.02099 0.00050	12.45 1.01922 0.00049
12.50 1.02347 0.00048	12.50 1.02148 0.00049

478	500	600
11.30 0.91931 0.00047	11.40 0.92141 0.00047	11.80 0.92233 0.00047
11.40 0.92511 0.00049	11.45 0.92542 0.00047	11.90 0.92889 0.00047
11.50 0.93143 0.00049	11.50 0.92835 0.00048	12.00 0.93451 0.00048
11.60 0.93791 0.00047	11.55 0.93123 0.00048	12.10 0.94066 0.00047
11.70 0.94246 0.00048	11.60 0.93424 0.00048	12.20 0.94583 0.00047
11.80 0.94905 0.00049	11.65 0.93671 0.00048	12.40 0.95762 0.00047
11.90 0.95512 0.00048	11.70 0.93981 0.00048	12.50 0.96234 0.00049
12.00 0.96124 0.00048	11.75 0.94175 0.00048	12.60 0.96772 0.00047
12.10 0.96685 0.00048	11.80 0.94526 0.00048	12.70 0.97355 0.00047
12.20 0.97150 0.00050	11.85 0.94914 0.00048	12.80 0.97768 0.00048
12.30 0.97796 0.00049	11.90 0.95165 0.00047	12.90 0.98336 0.00049
12.40 0.98317 0.00046	11.95 0.95448 0.00049	13.00 0.98915 0.00047
12.50 0.98908 0.00049	12.00 0.95750 0.00050	13.10 0.99488 0.00048
12.60 0.99455 0.00048	12.05 0.96106 0.00049	13.20 0.99927 0.00048
12.70 0.99889 0.00048	12.10 0.96338 0.00048	13.30 1.00442 0.00048
12.80 1.00466 0.00048	12.15 0.96651 0.00049	13.40 1.00948 0.00048
12.90 1.00954 0.00048	12.20 0.96820 0.00047	13.60 1.01949 0.00049
13.00 1.01551 0.00047	12.25 0.97110 0.00049	
13.10 1.01997 0.00047	12.30 0.97474 0.00049	
	12.35 0.97749 0.00048	
	12.40 0.97931 0.00049	
	12.45 0.98276 0.00048	
	12.50 0.98577 0.00049	
	12.55 0.98733 0.00048	
	12.60 0.99140 0.00047	
	12.65 0.99385 0.00048	
	12.70 0.99612 0.00049	
	12.80 1.00041 0.00047	
	12.85 1.00347 0.00049	
	12.90 1.00655 0.00049	
	12.95 1.00900 0.00048	
	13.00 1.01199 0.00048	
	13.05 1.01338 0.00048	

13.10 1.01646 0.00047

650	700	750
12.00 0.91786 0.00049	12.50 0.91759 0.00047	13.80 0.92046 0.00047
12.10 0.92309 0.00049	12.60 0.92367 0.00047	13.90 0.92586 0.00046
12.20 0.92927 0.00047	12.70 0.92988 0.00047	14.00 0.92991 0.00046
12.40 0.93988 0.00048	12.80 0.93454 0.00048	14.10 0.93511 0.00046
12.50 0.94594 0.00047	12.90 0.93928 0.00047	14.20 0.93980 0.00047
12.60 0.95096 0.00048	13.00 0.94434 0.00048	14.30 0.94508 0.00047
12.70 0.95677 0.00048	13.10 0.94969 0.00047	14.40 0.94923 0.00048
12.80 0.96179 0.00048	13.20 0.95531 0.00047	14.50 0.95447 0.00047
12.90 0.96726 0.00048	13.30 0.95992 0.00047	14.60 0.95870 0.00046
13.00 0.97151 0.00048	13.50 0.97239 0.00047	14.70 0.96383 0.00047
13.10 0.97751 0.00047	13.60 0.97573 0.00048	14.80 0.96882 0.00046
13.20 0.98215 0.00048	13.70 0.98038 0.00048	14.90 0.97405 0.00047
13.30 0.98898 0.00049	13.80 0.98562 0.00048	15.00 0.97839 0.00047
13.40 0.99263 0.00048	13.90 0.99087 0.00047	15.10 0.98155 0.00048
13.50 0.99798 0.00048	14.00 0.99616 0.00048	15.20 0.98675 0.00046
13.60 1.00217 0.00048	14.10 1.00002 0.00046	15.30 0.99047 0.00047
13.70 1.00870 0.00047	14.30 1.00988 0.00048	15.40 0.99507 0.00047
13.80 1.01231 0.00048	14.40 1.01433 0.00047	15.50 1.00025 0.00047
13.90 1.01744 0.00049	14.50 1.01876 0.00047	15.60 1.00369 0.00047
		15.70 1.00838 0.00047
		15.80 1.01302 0.00047
		15.90 1.01751 0.00049
		16.00 1.02077 0.00046

752	754	755
14.00 0.92206 0.00047	14.20 0.92166 0.00047	14.20 0.90994 0.00046
14.10 0.92780 0.00047	14.30 0.92561 0.00047	14.30 0.91499 0.00046
14.20 0.93187 0.00048	14.40 0.93030 0.00048	14.40 0.91972 0.00047
14.30 0.93767 0.00047	14.50 0.93441 0.00046	14.50 0.92524 0.00048
14.40 0.94138 0.00046	14.60 0.93992 0.00046	14.60 0.92970 0.00046
14.50 0.94610 0.00046	14.70 0.94444 0.00048	14.70 0.93490 0.00047
14.60 0.95091 0.00046	14.80 0.94952 0.00046	14.80 0.93957 0.00047
14.70 0.95570 0.00046	14.90 0.95383 0.00047	14.90 0.94329 0.00046
14.80 0.96012 0.00047	15.00 0.95748 0.00047	15.00 0.94813 0.00047
14.90 0.96464 0.00046	15.10 0.96325 0.00046	15.10 0.95336 0.00047
15.00 0.97033 0.00046	15.20 0.96759 0.00047	15.20 0.95654 0.00047
15.10 0.97394 0.00046	15.30 0.97148 0.00048	15.30 0.96157 0.00047
15.20 0.97945 0.00047	15.40 0.97715 0.00048	15.40 0.96709 0.00047
15.30 0.98405 0.00047	15.50 0.98034 0.00047	15.50 0.97095 0.00048
15.70 1.00119 0.00046	15.60 0.98433 0.00047	15.60 0.97518 0.00047
15.80 1.00565 0.00047	15.70 0.99001 0.00047	15.70 0.97958 0.00047
15.90 1.00953 0.00048	15.80 0.99395 0.00048	15.80 0.98367 0.00047
16.00 1.01407 0.00048	15.90 0.99813 0.00047	15.90 0.98842 0.00048
16.10 1.01702 0.00047	16.00 1.00267 0.00047	16.00 0.99199 0.00047

16.10 1.00687 0.00046	16.10 0.99639 0.00046
16.20 1.01112 0.00047	16.20 1.00069 0.00047
16.30 1.01503 0.00049	16.30 1.00469 0.00047
16.40 1.01862 0.00047	16.40 1.00939 0.00048
	16.50 1.01236 0.00047
	16.60 1.01809 0.00048
	16.70 1.02176 0.00047

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12	15	20
19.70 0.92819 0.00028	16.30 0.92560 0.00032	13.60 0.91918 0.00034
19.90 0.93155 0.00028	16.40 0.92794 0.00032	13.70 0.92258 0.00036
20.10 0.93599 0.00028	16.50 0.93190 0.00032	13.80 0.92654 0.00036
20.30 0.93997 0.00028	16.60 0.93426 0.00031	13.90 0.93041 0.00036
20.50 0.94330 0.00028	16.70 0.93722 0.00031	14.00 0.93540 0.00035
20.70 0.94661 0.00028	16.80 0.93984 0.00032	14.10 0.93868 0.00034
20.90 0.95030 0.00028	16.90 0.94290 0.00032	14.20 0.94277 0.00036
21.10 0.95384 0.00028	17.00 0.94481 0.00030	14.30 0.94679 0.00035
21.30 0.95788 0.00028	17.10 0.94791 0.00031	14.40 0.95064 0.00035
21.50 0.95969 0.00028	17.20 0.95113 0.00031	14.50 0.95301 0.00035
21.70 0.96447 0.00027	17.30 0.95360 0.00031	14.60 0.95815 0.00035
21.90 0.96729 0.00027	17.40 0.95577 0.00032	14.70 0.96188 0.00034
22.10 0.97040 0.00028	17.50 0.95839 0.00031	14.80 0.96570 0.00035
22.30 0.97438 0.00027	17.60 0.96117 0.00032	14.90 0.96898 0.00035
22.50 0.97634 0.00027	17.70 0.96400 0.00031	15.00 0.97300 0.00035
22.70 0.97964 0.00027	17.80 0.96672 0.00032	15.10 0.97581 0.00035
22.90 0.98340 0.00027	17.90 0.96975 0.00031	15.20 0.97955 0.00035
23.10 0.98553 0.00027	18.00 0.97180 0.00031	15.30 0.98292 0.00035
23.30 0.98872 0.00027	18.10 0.97398 0.00031	15.40 0.98646 0.00035
23.70 0.99391 0.00026	18.20 0.97573 0.00031	15.50 0.98958 0.00034
23.90 0.99738 0.00027	18.30 0.97808 0.00031	15.60 0.99306 0.00035
24.30 1.00170 0.00025	18.40 0.98082 0.00031	15.70 0.99658 0.00035
24.50 1.00458 0.00026	18.50 0.98333 0.00031	15.80 1.00045 0.00035
24.70 1.00794 0.00026	18.60 0.98529 0.00031	15.90 1.00284 0.00035
24.90 1.00982 0.00026	18.70 0.98755 0.00030	16.00 1.00697 0.00036
25.10 1.01224 0.00027	18.80 0.98953 0.00030	16.10 1.00978 0.00034
	18.90 0.99268 0.00030	16.20 1.01223 0.00035
	19.00 0.99492 0.00030	16.30 1.01545 0.00034
	19.10 0.99667 0.00031	
	19.20 0.99891 0.00029	
	19.30 1.00150 0.00031	
	19.40 1.00369 0.00030	
	19.50 1.00532 0.00029	
	19.60 1.00808 0.00030	
	19.70 1.01044 0.00030	
	19.80 1.01218 0.00031	
	19.90 1.01423 0.00031	
	20.00 1.01599 0.00031	

25	30	32
12.40 0.92160 0.00038	11.60 0.92138 0.00039	11.40 0.92286 0.00040
12.50 0.92723 0.00037	11.70 0.92639 0.00040	11.50 0.92787 0.00039
12.60 0.93196 0.00038	11.80 0.93200 0.00039	11.60 0.93334 0.00040
12.70 0.93636 0.00038	11.90 0.93724 0.00039	11.70 0.93861 0.00039
12.80 0.94147 0.00038	12.00 0.94185 0.00039	11.80 0.94483 0.00040
12.90 0.94546 0.00037	12.10 0.94735 0.00039	11.90 0.94952 0.00039
13.00 0.94972 0.00038	12.20 0.95294 0.00039	12.00 0.95493 0.00040
13.10 0.95544 0.00038	12.30 0.95774 0.00039	12.10 0.95994 0.00040
13.20 0.95932 0.00037	12.40 0.96256 0.00039	12.20 0.96566 0.00038
13.30 0.96437 0.00038	12.50 0.96716 0.00039	12.30 0.97004 0.00039
13.40 0.96858 0.00037	12.60 0.97276 0.00038	12.40 0.97566 0.00039
13.50 0.97249 0.00037	12.70 0.97722 0.00039	12.50 0.98051 0.00040
13.60 0.97719 0.00037	12.80 0.98188 0.00039	12.60 0.98599 0.00040
13.70 0.98150 0.00037	12.90 0.98682 0.00039	12.70 0.99014 0.00040
13.80 0.98616 0.00037	13.00 0.99122 0.00039	12.80 0.99464 0.00040
13.90 0.98887 0.00038	13.10 0.99626 0.00039	12.90 0.99945 0.00040
14.00 0.99379 0.00036	13.20 1.00055 0.00038	13.00 1.00389 0.00040
14.10 0.99724 0.00037	13.30 1.00472 0.00039	13.10 1.00933 0.00040
14.20 1.00151 0.00037	13.40 1.00952 0.00039	13.20 1.01436 0.00039
14.30 1.00563 0.00037	13.50 1.01476 0.00039	13.30 1.01775 0.00039
14.40 1.00892 0.00037	13.60 1.01884 0.00039	
14.50 1.01326 0.00038		
14.60 1.01784 0.00036		

35	40	50
11.10 0.92162 0.00040	10.70 0.92078 0.00041	10.30 0.92551 0.00043
11.20 0.92798 0.00041	10.80 0.92691 0.00041	10.35 0.92925 0.00042
11.30 0.93342 0.00041	10.90 0.93331 0.00041	10.55 0.94227 0.00042
11.40 0.93920 0.00041	11.00 0.93817 0.00042	10.60 0.94523 0.00042
11.50 0.94499 0.00040	11.10 0.94471 0.00040	10.65 0.94841 0.00042
11.60 0.95014 0.00039	11.20 0.94951 0.00041	10.70 0.95251 0.00043
11.70 0.95572 0.00040	11.30 0.95713 0.00041	10.75 0.95502 0.00043
11.80 0.96109 0.00040	11.40 0.96242 0.00042	10.80 0.95716 0.00043
11.90 0.96679 0.00040	11.50 0.96711 0.00043	10.85 0.96067 0.00043
12.00 0.97237 0.00041	11.60 0.97338 0.00042	10.90 0.96379 0.00041
12.10 0.97687 0.00041	11.70 0.97905 0.00041	10.95 0.96714 0.00042
12.20 0.98259 0.00039	11.80 0.98408 0.00041	11.00 0.97052 0.00043
12.30 0.98716 0.00040	11.90 0.99043 0.00043	11.05 0.97341 0.00042
12.40 0.99325 0.00040	12.00 0.99579 0.00042	11.10 0.97547 0.00042
12.50 0.99804 0.00039	12.10 0.99968 0.00040	11.15 0.97887 0.00042
12.60 1.00290 0.00040	12.20 1.00548 0.00041	11.25 0.98482 0.00042
12.70 1.00697 0.00041	12.30 1.01126 0.00039	11.30 0.98808 0.00042
12.80 1.01242 0.00041	12.40 1.01608 0.00041	11.35 0.99136 0.00042
12.90 1.01759 0.00039	12.50 1.02236 0.00041	11.40 0.99380 0.00042
13.00 1.02193 0.00041		11.45 0.99587 0.00043
		11.50 0.99960 0.00042
		11.55 1.00186 0.00042

11.60 1.00552 0.00043
 11.65 1.00767 0.00043
 11.70 1.01102 0.00044
 11.75 1.01247 0.00042
 11.80 1.01639 0.00043
 11.85 1.01928 0.00042
 11.90 1.02182 0.00041

60	70	80
9.90 0.91914 0.00043	9.70 0.91873 0.00044	9.50 0.91454 0.00044
9.95 0.92334 0.00045	9.75 0.92308 0.00045	9.55 0.91904 0.00044
10.00 0.92696 0.00043	9.80 0.92616 0.00043	9.60 0.92101 0.00044
10.05 0.93050 0.00043	9.85 0.92902 0.00044	9.65 0.92593 0.00044
10.10 0.93443 0.00043	9.90 0.93219 0.00043	9.70 0.92925 0.00045
10.15 0.93604 0.00042	9.95 0.93641 0.00044	9.75 0.93309 0.00043
10.20 0.93978 0.00044	10.00 0.93960 0.00044	9.80 0.93612 0.00043
10.25 0.94314 0.00044	10.05 0.94321 0.00045	9.85 0.93930 0.00041
10.30 0.94669 0.00043	10.10 0.94653 0.00044	9.90 0.94274 0.00044
10.35 0.95024 0.00042	10.15 0.94945 0.00044	9.95 0.94653 0.00044
10.40 0.95263 0.00044	10.20 0.95314 0.00044	10.00 0.94925 0.00046
10.45 0.95673 0.00043	10.25 0.95699 0.00045	10.05 0.95279 0.00045
10.50 0.95978 0.00042	10.30 0.95982 0.00043	10.10 0.95667 0.00045
10.55 0.96307 0.00043	10.35 0.96314 0.00044	10.15 0.95939 0.00043
10.60 0.96589 0.00043	10.40 0.96641 0.00043	10.20 0.96254 0.00046
10.65 0.96869 0.00044	10.45 0.96961 0.00045	10.25 0.96686 0.00043
10.70 0.97152 0.00043	10.50 0.97366 0.00043	10.30 0.97032 0.00044
10.75 0.97496 0.00043	10.55 0.97694 0.00043	10.35 0.97178 0.00045
10.80 0.97831 0.00042	10.60 0.97839 0.00044	10.40 0.97671 0.00043
10.85 0.98089 0.00044	10.65 0.98235 0.00044	10.45 0.97968 0.00045
10.90 0.98420 0.00043	10.70 0.98552 0.00043	10.50 0.98348 0.00044
10.95 0.98767 0.00042	10.75 0.98821 0.00043	10.55 0.98489 0.00044
11.00 0.99028 0.00044	10.80 0.99099 0.00044	10.60 0.98804 0.00045
11.05 0.99314 0.00042	10.85 0.99449 0.00044	10.65 0.99131 0.00045
11.10 0.99690 0.00043	10.90 0.99782 0.00044	10.70 0.99450 0.00044
11.15 0.99941 0.00043	10.95 1.00012 0.00044	10.75 0.99681 0.00044
11.20 1.00234 0.00044	11.00 1.00409 0.00044	10.80 1.00201 0.00044
11.25 1.00564 0.00043	11.05 1.00653 0.00044	10.85 1.00402 0.00042
11.30 1.00843 0.00043	11.10 1.00945 0.00044	10.90 1.00696 0.00044
11.35 1.01138 0.00044	11.15 1.01228 0.00044	10.95 1.01067 0.00044
11.40 1.01501 0.00044	11.20 1.01563 0.00044	11.00 1.01313 0.00044
11.45 1.01743 0.00043	11.25 1.01921 0.00043	11.05 1.01622 0.00044
11.50 1.02044 0.00043	11.30 1.02096 0.00044	11.10 1.01934 0.00045

90	100	120
9.50 0.92207 0.00044	9.40 0.92054 0.00044	9.30 0.91662 0.00044
9.55 0.92529 0.00044	9.45 0.92278 0.00044	9.35 0.92084 0.00045
9.60 0.92890 0.00045	9.50 0.92654 0.00045	9.40 0.92398 0.00045

9.65 0.93322 0.00044	9.55 0.93057 0.00045	9.45 0.92843 0.00045
9.70 0.93596 0.00045	9.60 0.93277 0.00044	9.50 0.93210 0.00045
9.75 0.93893 0.00045	9.65 0.93719 0.00045	9.55 0.93540 0.00044
9.80 0.94235 0.00045	9.70 0.94118 0.00045	9.60 0.93863 0.00045
9.85 0.94698 0.00045	9.75 0.94421 0.00045	9.65 0.94244 0.00045
9.90 0.94893 0.00043	9.80 0.94830 0.00044	9.70 0.94607 0.00044
9.95 0.95294 0.00044	9.85 0.95098 0.00045	9.75 0.94960 0.00043
10.00 0.95638 0.00044	9.90 0.95355 0.00044	9.80 0.95287 0.00045
10.05 0.95962 0.00044	9.95 0.95760 0.00045	9.85 0.95608 0.00047
10.10 0.96287 0.00044	10.00 0.96086 0.00045	9.90 0.95968 0.00045
10.15 0.96670 0.00045	10.05 0.96453 0.00045	9.95 0.96243 0.00044
10.20 0.96985 0.00045	10.10 0.96715 0.00046	10.00 0.96656 0.00044
10.25 0.97378 0.00044	10.15 0.97175 0.00046	10.05 0.96944 0.00045
10.30 0.97600 0.00044	10.20 0.97475 0.00044	10.10 0.97285 0.00044
10.35 0.97888 0.00045	10.25 0.97866 0.00046	10.15 0.97627 0.00045
10.40 0.98203 0.00045	10.30 0.98132 0.00045	10.20 0.97866 0.00045
10.45 0.98595 0.00045	10.35 0.98275 0.00045	10.25 0.98271 0.00045
10.50 0.98896 0.00044	10.40 0.98687 0.00045	10.30 0.98532 0.00046
10.55 0.99198 0.00044	10.45 0.99019 0.00045	10.35 0.98863 0.00045
10.60 0.99562 0.00044	10.50 0.99395 0.00044	10.40 0.99259 0.00044
10.65 0.99882 0.00044	10.55 0.99674 0.00045	10.45 0.99505 0.00045
10.70 1.00144 0.00044	10.60 0.99926 0.00045	10.50 0.99815 0.00045
10.75 1.00377 0.00045	10.65 1.00274 0.00043	10.55 1.00086 0.00045
10.80 1.00665 0.00044	10.70 1.00596 0.00045	10.60 1.00399 0.00045
10.85 1.01026 0.00044	10.75 1.00899 0.00044	10.65 1.00794 0.00046
10.90 1.01321 0.00045	10.80 1.01242 0.00045	10.70 1.01048 0.00045
10.95 1.01657 0.00045	10.85 1.01510 0.00045	10.75 1.01325 0.00045
11.00 1.01886 0.00045	10.90 1.01817 0.00044	10.80 1.01632 0.00045
		10.85 1.02044 0.00045
		10.90 1.02310 0.00045

130	150	200
9.30 0.92123 0.00045	9.20 0.91429 0.00045	9.30 0.92272 0.00045
9.35 0.92512 0.00045	9.25 0.91923 0.00044	9.35 0.92616 0.00044
9.40 0.92801 0.00044	9.30 0.92189 0.00045	9.40 0.92983 0.00044
9.45 0.93091 0.00044	9.40 0.92970 0.00045	9.45 0.93272 0.00044
9.50 0.93470 0.00045	9.45 0.93291 0.00045	9.50 0.93533 0.00046
9.55 0.93798 0.00046	9.50 0.93700 0.00045	9.55 0.93863 0.00045
9.60 0.94119 0.00043	9.55 0.93973 0.00045	9.60 0.94284 0.00045
9.65 0.94483 0.00045	9.60 0.94320 0.00045	9.65 0.94635 0.00046
9.70 0.94774 0.00044	9.65 0.94728 0.00047	9.70 0.94935 0.00045
9.75 0.95212 0.00045	9.70 0.94987 0.00046	9.75 0.95320 0.00046
9.80 0.95525 0.00046	9.75 0.95395 0.00045	9.80 0.95609 0.00045
9.85 0.95903 0.00045	9.80 0.95749 0.00045	9.85 0.95911 0.00045
9.90 0.96212 0.00044	9.85 0.95949 0.00045	9.90 0.96225 0.00044
10.00 0.96847 0.00044	9.90 0.96382 0.00045	9.95 0.96596 0.00044
10.05 0.97286 0.00045	9.95 0.96667 0.00045	10.00 0.96892 0.00045
10.10 0.97483 0.00045	10.00 0.96965 0.00045	10.05 0.97191 0.00046
10.15 0.97762 0.00045	10.05 0.97387 0.00044	10.10 0.97534 0.00045

10.20 0.98122 0.00044	10.10 0.97652 0.00045	10.15 0.97854 0.00047
10.40 0.99386 0.00044	10.15 0.97990 0.00045	10.20 0.98114 0.00046
10.45 0.99830 0.00045	10.20 0.98239 0.00045	10.25 0.98520 0.00046
10.50 1.00080 0.00045	10.25 0.98540 0.00045	10.30 0.98753 0.00045
10.55 1.00452 0.00044	10.30 0.98960 0.00044	10.35 0.99066 0.00044
10.60 1.00706 0.00045	10.35 0.99300 0.00045	10.40 0.99366 0.00044
10.65 1.01096 0.00045	10.40 0.99561 0.00044	10.45 0.99764 0.00045
10.70 1.01274 0.00045	10.45 0.99889 0.00045	10.50 0.99997 0.00045
10.75 1.01629 0.00045	10.50 1.00158 0.00045	10.55 1.00294 0.00044
10.80 1.01835 0.00044	10.55 1.00479 0.00046	10.60 1.00682 0.00044
	10.60 1.00776 0.00045	10.65 1.00935 0.00045
	10.65 1.01047 0.00045	10.70 1.01149 0.00044
	10.70 1.01377 0.00045	10.75 1.01565 0.00046
	10.75 1.01665 0.00046	10.80 1.01781 0.00046
	10.80 1.01932 0.00045	

239	250	359
9.30 0.92092 0.00045	9.30 0.91955 0.00044	9.50 0.92345 0.00044
9.35 0.92393 0.00045	9.35 0.92243 0.00046	9.55 0.92679 0.00044
9.40 0.92771 0.00044	9.40 0.92617 0.00045	9.60 0.92896 0.00046
9.45 0.93037 0.00044	9.45 0.92912 0.00044	9.65 0.93337 0.00045
9.50 0.93345 0.00044	9.50 0.93366 0.00045	9.70 0.93538 0.00044
9.55 0.93580 0.00044	9.55 0.93682 0.00045	9.75 0.93887 0.00045
9.60 0.94120 0.00045	9.60 0.93890 0.00045	9.80 0.94226 0.00044
9.65 0.94400 0.00044	9.65 0.94268 0.00045	9.85 0.94618 0.00045
9.70 0.94704 0.00045	9.70 0.94672 0.00045	9.90 0.94853 0.00044
9.75 0.95102 0.00044	9.75 0.94875 0.00045	9.95 0.95172 0.00044
9.80 0.95360 0.00044	9.80 0.95266 0.00045	10.00 0.95444 0.00047
9.85 0.95615 0.00045	9.85 0.95613 0.00045	10.05 0.95813 0.00046
9.90 0.96122 0.00044	9.90 0.95975 0.00046	10.10 0.96150 0.00044
9.95 0.96264 0.00045	9.95 0.96224 0.00045	10.15 0.96463 0.00046
10.00 0.96586 0.00044	10.00 0.96468 0.00045	10.20 0.96668 0.00044
10.05 0.97005 0.00045	10.05 0.96833 0.00044	10.25 0.97036 0.00046
10.10 0.97299 0.00044	10.10 0.97140 0.00044	10.30 0.97307 0.00045
10.15 0.97669 0.00045	10.15 0.97463 0.00045	10.35 0.97566 0.00045
10.20 0.97841 0.00045	10.20 0.97796 0.00045	10.40 0.97966 0.00045
10.25 0.98194 0.00045	10.25 0.98073 0.00044	10.45 0.98267 0.00044
10.30 0.98518 0.00045	10.30 0.98346 0.00045	10.50 0.98431 0.00045
10.35 0.98799 0.00046	10.35 0.98713 0.00046	10.55 0.98719 0.00044
10.45 0.99423 0.00045	10.40 0.99043 0.00045	10.60 0.99098 0.00045
10.50 0.99666 0.00046	10.45 0.99251 0.00045	10.65 0.99364 0.00046
10.55 1.00082 0.00045	10.50 0.99604 0.00044	10.70 0.99537 0.00045
10.60 1.00298 0.00047	10.55 0.99932 0.00045	10.75 0.99882 0.00044
10.65 1.00583 0.00045	10.60 1.00148 0.00046	10.80 1.00236 0.00045
10.70 1.00886 0.00046	10.65 1.00481 0.00046	10.85 1.00539 0.00045
10.75 1.01192 0.00045	10.70 1.00761 0.00046	10.90 1.00776 0.00046
10.80 1.01493 0.00044	10.75 1.01104 0.00045	10.95 1.00988 0.00047
10.85 1.01704 0.00045	10.80 1.01379 0.00046	11.00 1.01344 0.00045
10.90 1.02062 0.00045	10.85 1.01638 0.00044	11.05 1.01514 0.00045
	10.90 1.01859 0.00045	11.10 1.01915 0.00045

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478	500	600
9.60 0.91620 0.00044	9.70 0.91984 0.00044	10.00 0.92053 0.00044
9.70 0.92263 0.00044	9.75 0.92356 0.00045	10.10 0.92600 0.00044
9.80 0.92927 0.00045	9.80 0.92609 0.00045	10.20 0.93200 0.00045
9.90 0.93538 0.00045	9.85 0.92959 0.00045	10.30 0.93838 0.00044
10.00 0.94116 0.00044	9.90 0.93291 0.00045	10.40 0.94393 0.00045
10.10 0.94794 0.00045	9.95 0.93499 0.00045	10.70 0.96088 0.00044
10.20 0.95366 0.00046	10.00 0.93859 0.00044	10.80 0.96666 0.00047
10.30 0.95909 0.00044	10.05 0.94227 0.00043	10.90 0.97169 0.00045
10.40 0.96568 0.00046	10.10 0.94468 0.00046	11.00 0.97697 0.00044
10.50 0.97076 0.00045	10.15 0.94756 0.00044	11.20 0.98769 0.00044
10.60 0.97632 0.00045	10.20 0.95072 0.00045	11.30 0.99339 0.00045
10.70 0.98256 0.00044	10.25 0.95380 0.00045	11.40 0.99825 0.00044
10.80 0.98716 0.00045	10.30 0.95536 0.00044	11.50 1.00458 0.00044
10.90 0.99372 0.00046	10.35 0.95940 0.00045	11.60 1.00850 0.00046
11.00 0.99870 0.00045	10.50 0.96753 0.00045	11.70 1.01423 0.00045
11.10 1.00382 0.00046	10.55 0.97146 0.00045	11.80 1.01891 0.00044
11.20 1.00894 0.00045	10.60 0.97312 0.00045	
11.30 1.01468 0.00044	10.65 0.97664 0.00045	
11.40 1.01984 0.00044	10.70 0.97872 0.00045	
	10.75 0.98265 0.00044	
	10.80 0.98402 0.00046	
	10.85 0.98812 0.00046	
	10.90 0.99038 0.00044	
	10.95 0.99323 0.00044	
	11.00 0.99583 0.00046	
	11.05 0.99857 0.00045	
	11.10 1.00140 0.00046	
	11.15 1.00415 0.00044	
	11.20 1.00672 0.00045	
	11.25 1.00897 0.00044	
	11.30 1.01136 0.00045	
	11.35 1.01473 0.00045	
	11.40 1.01709 0.00046	
650	700	750
10.30 0.92526 0.00045	10.70 0.92571 0.00044	11.60 0.92218 0.00044
10.40 0.93039 0.00045	10.80 0.93040 0.00044	11.70 0.92700 0.00043
10.50 0.93588 0.00044	10.90 0.93644 0.00045	11.80 0.93209 0.00044
10.60 0.94151 0.00045	11.00 0.94208 0.00044	11.90 0.93706 0.00043
10.70 0.94716 0.00045	11.10 0.94691 0.00045	12.00 0.94260 0.00046
10.80 0.95289 0.00045	11.20 0.95326 0.00043	12.10 0.94624 0.00043
10.90 0.95790 0.00046	11.30 0.95748 0.00044	12.20 0.95172 0.00045
11.00 0.96406 0.00044	11.50 0.96801 0.00044	12.30 0.95683 0.00043
11.10 0.96858 0.00045	11.60 0.97357 0.00045	12.40 0.96156 0.00044
11.20 0.97452 0.00044	11.70 0.97783 0.00044	12.50 0.96562 0.00044

11.30 0.98002 0.00044	11.80 0.98277 0.00044	12.60 0.96963 0.00044
11.40 0.98415 0.00046	11.90 0.98753 0.00044	12.70 0.97499 0.00044
11.50 0.99055 0.00045	12.00 0.99331 0.00044	12.80 0.97943 0.00045
11.60 0.99581 0.00045	12.10 0.99881 0.00045	12.90 0.98401 0.00044
11.70 0.99908 0.00044	12.20 1.00216 0.00044	13.00 0.98837 0.00045
11.80 1.00577 0.00045	12.30 1.00733 0.00045	13.10 0.99275 0.00045
11.90 1.01029 0.00045	12.40 1.01237 0.00043	13.20 0.99762 0.00044
12.00 1.01595 0.00044	12.50 1.01697 0.00044	13.30 1.00136 0.00044
	12.60 1.02181 0.00045	13.40 1.00668 0.00043
		13.50 1.01021 0.00045
		13.60 1.01484 0.00045
		13.70 1.01965 0.00045

752	754	755
11.70 0.92065 0.00044	11.90 0.92204 0.00043	12.10 0.92440 0.00044
11.80 0.92607 0.00043	12.00 0.92807 0.00044	12.20 0.92937 0.00045
11.90 0.93117 0.00044	12.10 0.93159 0.00044	12.30 0.93410 0.00043
12.00 0.93543 0.00044	12.20 0.93657 0.00045	12.40 0.93771 0.00043
12.10 0.94052 0.00044	12.30 0.94122 0.00044	12.50 0.94321 0.00044
12.50 0.95978 0.00044	12.40 0.94535 0.00044	12.60 0.94710 0.00044
12.60 0.96435 0.00043	12.50 0.95128 0.00043	12.70 0.95209 0.00044
12.70 0.96934 0.00045	12.60 0.95547 0.00044	12.80 0.95650 0.00044
12.80 0.97336 0.00044	12.70 0.95978 0.00044	12.90 0.96227 0.00044
12.90 0.97875 0.00044	12.80 0.96492 0.00045	13.00 0.96592 0.00043
13.00 0.98233 0.00044	12.90 0.96924 0.00046	13.10 0.97013 0.00044
13.10 0.98740 0.00044	13.00 0.97348 0.00044	13.20 0.97475 0.00044
13.20 0.99178 0.00044	13.10 0.97836 0.00045	13.30 0.97876 0.00044
13.30 0.99550 0.00044	13.20 0.98303 0.00044	13.40 0.98346 0.00044
13.40 0.99948 0.00044	13.30 0.98690 0.00045	13.50 0.98811 0.00044
13.50 1.00461 0.00045	13.40 0.99171 0.00045	13.60 0.99184 0.00045
13.60 1.00937 0.00044	13.50 0.99600 0.00043	13.70 0.99610 0.00044
13.70 1.01266 0.00045	13.60 1.00074 0.00044	13.80 1.00007 0.00045
13.80 1.01749 0.00045	13.70 1.00446 0.00044	13.90 1.00504 0.00045
	13.80 1.00912 0.00044	14.00 1.00829 0.00044
	13.90 1.01297 0.00045	14.10 1.01326 0.00045
	14.00 1.01631 0.00044	14.20 1.01681 0.00045
	14.10 1.02061 0.00045	

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12	15	20
24.60 0.92543 0.00029	20.40 0.92327 0.00035	17.30 0.92104 0.00040
24.90 0.92969 0.00031	20.60 0.92807 0.00035	17.40 0.92415 0.00040
25.20 0.93459 0.00030	20.80 0.93405 0.00035	17.50 0.92764 0.00040
25.50 0.93851 0.00029	21.00 0.93821 0.00035	17.60 0.93118 0.00041
25.80 0.94298 0.00029	21.20 0.94302 0.00034	17.70 0.93454 0.00040
26.10 0.94716 0.00029	21.40 0.94706 0.00034	17.80 0.93765 0.00040
26.40 0.95181 0.00030	21.60 0.95267 0.00035	17.90 0.94205 0.00039
26.70 0.95559 0.00028	21.80 0.95622 0.00033	18.10 0.94816 0.00040
27.00 0.95954 0.00030	22.00 0.96030 0.00034	18.20 0.95215 0.00039
27.30 0.96330 0.00029	22.20 0.96412 0.00034	18.30 0.95402 0.00038
27.60 0.96715 0.00029	22.40 0.96894 0.00034	18.40 0.95792 0.00038
27.90 0.97096 0.00029	22.60 0.97254 0.00035	18.50 0.96073 0.00038
28.20 0.97391 0.00028	22.80 0.97689 0.00034	18.60 0.96485 0.00039
28.50 0.97709 0.00029	23.00 0.98044 0.00033	18.70 0.96775 0.00041
28.80 0.98128 0.00029	23.20 0.98404 0.00033	18.80 0.97078 0.00040
29.10 0.98344 0.00029	23.40 0.98858 0.00033	18.90 0.97330 0.00039
29.40 0.98754 0.00027	23.60 0.99181 0.00034	19.00 0.97619 0.00039
29.70 0.99090 0.00028	23.80 0.99625 0.00034	19.10 0.98001 0.00039
30.00 0.99358 0.00028	24.00 0.99917 0.00033	19.20 0.98189 0.00040
30.30 0.99690 0.00028	24.20 1.00282 0.00033	19.30 0.98593 0.00039
30.60 0.99920 0.00028	24.40 1.00655 0.00033	19.40 0.98786 0.00040
30.90 1.00209 0.00028	24.60 1.00954 0.00033	19.50 0.99199 0.00038
31.20 1.00502 0.00027	24.80 1.01295 0.00033	19.60 0.99407 0.00039
31.50 1.00798 0.00028	25.00 1.01573 0.00034	19.70 0.99670 0.00039
31.80 1.01033 0.00028		19.80 1.00020 0.00039
32.10 1.01261 0.00027		19.90 1.00311 0.00039
32.20 1.01408 0.00028		20.00 1.00524 0.00038
		20.10 1.00831 0.00039
		20.20 1.01104 0.00038
		20.30 1.01250 0.00039
		20.40 1.01635 0.00037
		20.50 1.01844 0.00038

25	30	32
16.00 0.92648 0.00042	15.00 0.92144 0.00045	14.70 0.91793 0.00046
16.10 0.93058 0.00044	15.10 0.92523 0.00045	14.80 0.92336 0.00045
16.20 0.93549 0.00043	15.20 0.92996 0.00046	14.90 0.92839 0.00045
16.30 0.93951 0.00043	15.30 0.93520 0.00045	15.00 0.93312 0.00044
16.40 0.94340 0.00043	15.40 0.93941 0.00046	15.10 0.93851 0.00045
16.50 0.94840 0.00043	15.50 0.94487 0.00043	15.20 0.94286 0.00045
16.60 0.95225 0.00043	15.60 0.94992 0.00045	15.30 0.94791 0.00044
16.70 0.95548 0.00043	15.70 0.95312 0.00046	15.40 0.95208 0.00046
16.80 0.96048 0.00044	15.80 0.95868 0.00045	15.50 0.95691 0.00044
16.90 0.96292 0.00042	15.90 0.96261 0.00045	15.60 0.96259 0.00046
17.00 0.96763 0.00043	16.00 0.96766 0.00044	15.70 0.96686 0.00045
17.10 0.97187 0.00042	16.10 0.97053 0.00045	15.80 0.97149 0.00045

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17.20 0.97539 0.00042	16.20 0.97594 0.00044	15.90 0.97560 0.00046
17.30 0.97890 0.00043	16.30 0.98028 0.00045	16.00 0.98064 0.00045
17.40 0.98165 0.00042	16.40 0.98491 0.00043	16.10 0.98471 0.00045
17.50 0.98630 0.00043	16.50 0.98824 0.00044	16.20 0.98941 0.00046
17.60 0.98963 0.00042	16.60 0.99315 0.00044	16.30 0.99313 0.00045
17.70 0.99447 0.00043	16.80 1.00139 0.00046	16.40 0.99779 0.00045
17.80 0.99802 0.00042	16.90 1.00542 0.00044	16.50 1.00209 0.00045
17.90 1.00124 0.00043	17.00 1.00939 0.00044	16.60 1.00609 0.00046
18.00 1.00453 0.00042	17.10 1.01311 0.00043	16.70 1.01029 0.00047
18.10 1.00720 0.00042	17.20 1.01641 0.00043	16.80 1.01372 0.00045
18.20 1.01123 0.00042	17.30 1.02031 0.00044	16.90 1.01903 0.00045
18.30 1.01535 0.00043		
18.40 1.01917 0.00042		

35	40	50
14.40 0.91916 0.00047	14.00 0.91766 0.00048	13.50 0.91761 0.00051
14.50 0.92355 0.00047	14.10 0.92341 0.00047	13.60 0.92392 0.00050
14.60 0.92898 0.00047	14.20 0.92914 0.00048	13.70 0.93065 0.00051
14.80 0.93860 0.00046	14.30 0.93490 0.00049	13.80 0.93615 0.00049
14.90 0.94442 0.00047	14.40 0.94025 0.00047	13.90 0.94207 0.00049
15.00 0.94993 0.00046	14.50 0.94528 0.00047	14.00 0.94819 0.00049
15.10 0.95557 0.00046	14.60 0.95035 0.00048	14.10 0.95248 0.00049
15.20 0.95958 0.00045	14.70 0.95689 0.00048	14.20 0.95846 0.00049
15.30 0.96463 0.00045	14.80 0.96086 0.00047	14.30 0.96433 0.00051
15.40 0.96893 0.00047	14.90 0.96569 0.00047	14.40 0.96960 0.00049
15.50 0.97352 0.00047	15.00 0.97202 0.00047	14.60 0.98101 0.00049
15.60 0.97779 0.00047	15.10 0.97620 0.00047	14.70 0.98597 0.00050
15.70 0.98347 0.00046	15.20 0.98079 0.00047	14.80 0.99108 0.00050
15.80 0.98868 0.00047	15.30 0.98624 0.00047	14.90 0.99789 0.00048
15.90 0.99248 0.00045	15.40 0.99202 0.00048	15.00 1.00133 0.00051
16.00 0.99796 0.00045	15.50 0.99694 0.00048	15.10 1.00708 0.00049
16.10 0.99979 0.00046	15.60 1.00111 0.00046	15.20 1.01292 0.00047
16.20 1.00609 0.00047	15.70 1.00601 0.00049	15.30 1.01580 0.00051
16.30 1.01011 0.00046	15.80 1.01081 0.00047	15.40 1.02230 0.00049
16.40 1.01461 0.00045	15.90 1.01394 0.00047	
16.50 1.01921 0.00046	16.00 1.02046 0.00048	

60	70	80
13.20 0.91728 0.00051	13.00 0.91717 0.00050	12.90 0.91702 0.00052
13.30 0.92365 0.00050	13.10 0.92376 0.00052	12.95 0.92100 0.00051
13.40 0.92987 0.00051	13.20 0.92887 0.00052	13.00 0.92380 0.00052
13.60 0.94279 0.00049	13.30 0.93595 0.00052	13.05 0.92672 0.00051
13.70 0.94740 0.00050	13.40 0.94173 0.00050	13.10 0.93032 0.00050
13.80 0.95460 0.00050	13.50 0.94742 0.00051	13.15 0.93439 0.00050
13.90 0.95973 0.00052	13.60 0.95427 0.00052	13.20 0.93704 0.00052
14.00 0.96592 0.00051	13.70 0.95997 0.00050	13.25 0.93978 0.00051
14.10 0.97096 0.00052	13.80 0.96544 0.00051	13.30 0.94350 0.00053

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14.20 0.97644 0.00050	13.90 0.97100 0.00053	13.35 0.94581 0.00053
14.30 0.98251 0.00051	14.00 0.97820 0.00051	13.40 0.95023 0.00052
14.40 0.98866 0.00050	14.10 0.98376 0.00050	13.45 0.95147 0.00051
14.50 0.99308 0.00052	14.20 0.98929 0.00051	13.50 0.95476 0.00052
14.60 0.99886 0.00050	14.30 0.99456 0.00052	13.55 0.95864 0.00050
14.70 1.00528 0.00050	14.40 1.00019 0.00050	13.60 0.96151 0.00052
14.80 1.01005 0.00050	14.50 1.00689 0.00050	13.65 0.96452 0.00052
14.90 1.01461 0.00051	14.60 1.01177 0.00051	13.70 0.96725 0.00051
15.00 1.02165 0.00049	14.70 1.01730 0.00051	13.75 0.97039 0.00051
	14.80 1.02224 0.00050	13.80 0.97223 0.00051
		13.85 0.97625 0.00050
		13.90 0.98064 0.00051
		13.95 0.98284 0.00051
		14.00 0.98483 0.00052
		14.05 0.98750 0.00051
		14.10 0.99014 0.00052
		14.15 0.99418 0.00052
		14.20 0.99737 0.00052
		14.25 0.99921 0.00051
		14.30 1.00236 0.00051
		14.35 1.00581 0.00051
		14.40 1.00832 0.00051
		14.45 1.01086 0.00051
		14.50 1.01287 0.00052
		14.55 1.01527 0.00051
		14.60 1.01920 0.00051

90	100	120
12.90 0.92164 0.00052	12.90 0.92462 0.00053	12.80 0.91866 0.00053
12.95 0.92521 0.00051	12.95 0.92733 0.00052	12.85 0.92277 0.00052
13.00 0.92779 0.00052	13.05 0.93531 0.00052	12.90 0.92507 0.00051
13.05 0.93119 0.00053	13.10 0.93733 0.00051	12.95 0.92898 0.00052
13.10 0.93378 0.00051	13.15 0.94104 0.00052	13.00 0.93196 0.00052
13.15 0.93771 0.00053	13.20 0.94352 0.00053	13.05 0.93626 0.00053
13.20 0.94025 0.00051	13.25 0.94708 0.00052	13.10 0.93765 0.00052
13.25 0.94455 0.00053	13.30 0.94866 0.00053	13.15 0.94110 0.00051
13.30 0.94866 0.00051	13.35 0.95234 0.00052	13.20 0.94507 0.00054
13.35 0.95145 0.00052	13.40 0.95579 0.00053	13.25 0.94769 0.00051
13.40 0.95385 0.00052	13.45 0.95980 0.00051	13.30 0.95048 0.00052
13.45 0.95616 0.00053	13.50 0.96210 0.00053	13.35 0.95399 0.00053
13.50 0.95911 0.00052	13.55 0.96518 0.00053	13.40 0.95796 0.00053
13.55 0.96251 0.00052	13.65 0.97103 0.00053	13.45 0.96099 0.00052
13.60 0.96655 0.00050	13.70 0.97496 0.00051	13.50 0.96300 0.00054
13.65 0.96865 0.00054	13.75 0.97724 0.00054	13.55 0.96661 0.00052
13.70 0.97151 0.00052	13.80 0.98095 0.00053	13.60 0.96927 0.00054
13.75 0.97500 0.00051	13.85 0.98383 0.00052	13.65 0.97313 0.00052
13.80 0.97732 0.00053	13.90 0.98624 0.00052	13.70 0.97616 0.00053
13.85 0.98122 0.00053	13.95 0.98912 0.00051	13.75 0.97837 0.00053
13.90 0.98350 0.00053	14.00 0.99200 0.00053	13.80 0.98228 0.00052

13.95 0.98774 0.00052	14.05 0.99505 0.00051	13.85 0.98513 0.00052
14.00 0.99050 0.00052	14.10 0.99711 0.00052	13.90 0.98698 0.00052
14.05 0.99247 0.00053	14.15 1.00106 0.00053	13.95 0.99012 0.00053
14.10 0.99535 0.00052	14.20 1.00336 0.00053	14.00 0.99206 0.00052
14.15 0.99814 0.00051	14.25 1.00681 0.00053	14.05 0.99506 0.00053
14.20 1.00073 0.00054	14.30 1.00916 0.00052	14.10 0.99790 0.00051
14.25 1.00415 0.00052	14.35 1.01348 0.00052	14.15 1.00151 0.00052
14.30 1.00671 0.00051	14.40 1.01483 0.00052	14.20 1.00346 0.00051
14.35 1.00946 0.00051	14.45 1.01703 0.00052	14.25 1.00717 0.00052
14.40 1.01192 0.00051	14.50 1.02002 0.00052	14.30 1.00909 0.00052
14.45 1.01459 0.00051		14.35 1.01305 0.00053
14.50 1.01789 0.00052		14.40 1.01536 0.00052
14.55 1.01990 0.00053		14.45 1.01898 0.00050
14.60 1.02303 0.00052		14.50 1.02005 0.00052

130	150	200
12.85 0.92339 0.00052	12.80 0.91821 0.00052	12.90 0.91589 0.00053
12.90 0.92595 0.00052	12.85 0.92109 0.00052	13.00 0.92240 0.00053
12.95 0.93047 0.00052	12.90 0.92335 0.00053	13.10 0.92938 0.00052
13.00 0.93277 0.00053	12.95 0.92825 0.00053	13.20 0.93518 0.00052
13.05 0.93632 0.00052	13.00 0.93064 0.00052	13.30 0.94018 0.00053
13.10 0.93881 0.00053	13.05 0.93297 0.00053	13.40 0.94774 0.00052
13.15 0.94380 0.00053	13.10 0.93677 0.00050	13.50 0.95210 0.00054
13.20 0.94570 0.00051	13.15 0.94044 0.00053	13.60 0.95900 0.00051
13.25 0.94975 0.00051	13.20 0.94384 0.00052	13.70 0.96497 0.00053
13.30 0.95269 0.00051	13.25 0.94607 0.00052	13.80 0.97123 0.00052
13.35 0.95487 0.00052	13.30 0.94850 0.00051	13.90 0.97696 0.00053
13.40 0.95797 0.00053	13.35 0.95269 0.00053	14.00 0.98185 0.00053
13.45 0.96089 0.00052	13.40 0.95549 0.00052	14.10 0.98732 0.00052
13.50 0.96398 0.00053	13.50 0.96246 0.00052	14.20 0.99348 0.00052
13.55 0.96665 0.00053	13.55 0.96516 0.00053	14.30 0.99889 0.00053
13.60 0.97011 0.00053	13.60 0.96795 0.00053	14.40 1.00445 0.00052
13.65 0.97396 0.00054	13.65 0.97116 0.00052	14.50 1.01021 0.00052
13.70 0.97695 0.00053	13.70 0.97432 0.00054	14.60 1.01514 0.00052
13.75 0.97935 0.00053	13.75 0.97708 0.00053	14.70 1.02085 0.00052
13.80 0.98198 0.00052	13.80 0.97928 0.00054	
13.85 0.98421 0.00052	13.85 0.98210 0.00052	
13.90 0.98892 0.00052	13.90 0.98481 0.00052	
13.95 0.99161 0.00054	13.95 0.98827 0.00051	
14.00 0.99337 0.00052	14.00 0.99111 0.00052	
14.05 0.99777 0.00052	14.05 0.99436 0.00054	
14.10 0.99969 0.00055	14.10 0.99642 0.00053	
14.15 1.00219 0.00051	14.15 0.99953 0.00052	
14.20 1.00604 0.00053	14.20 1.00207 0.00054	
14.25 1.00829 0.00052	14.25 1.00575 0.00052	
14.30 1.01047 0.00055	14.30 1.00814 0.00052	
14.35 1.01417 0.00052	14.35 1.01082 0.00052	
14.40 1.01633 0.00053	14.40 1.01355 0.00052	
14.45 1.01965 0.00052	14.45 1.01610 0.00053	
14.50 1.02106 0.00052	14.50 1.01957 0.00053	

239	250	359
13.10 0.91909 0.00053	13.10 0.91751 0.00053	13.60 0.92246 0.00051
13.20 0.92539 0.00051	13.20 0.92315 0.00051	13.70 0.92703 0.00051
13.30 0.93287 0.00052	13.30 0.92978 0.00052	13.80 0.93357 0.00051
13.40 0.93805 0.00052	13.40 0.93491 0.00053	13.90 0.93987 0.00051
13.50 0.94400 0.00052	13.50 0.94175 0.00052	14.00 0.94464 0.00052
13.60 0.95002 0.00052	13.60 0.94734 0.00052	14.10 0.95053 0.00052
13.70 0.95487 0.00054	13.70 0.95278 0.00053	14.20 0.95625 0.00051
13.80 0.96147 0.00053	13.80 0.95872 0.00051	14.30 0.96176 0.00052
13.90 0.96711 0.00053	13.90 0.96480 0.00050	14.40 0.96782 0.00051
14.00 0.97246 0.00051	14.00 0.97040 0.00051	14.50 0.97277 0.00052
14.10 0.97800 0.00051	14.10 0.97497 0.00052	14.60 0.97739 0.00051
14.20 0.98366 0.00053	14.20 0.98165 0.00051	14.70 0.98341 0.00052
14.30 0.98946 0.00052	14.30 0.98635 0.00052	14.80 0.98791 0.00052
14.40 0.99490 0.00052	14.40 0.99171 0.00053	14.90 0.99340 0.00051
14.50 1.00108 0.00052	14.50 0.99846 0.00051	15.00 0.99772 0.00052
14.60 1.00488 0.00052	14.60 1.00312 0.00054	15.10 1.00395 0.00053
14.70 1.01018 0.00052	14.70 1.00840 0.00052	15.20 1.00845 0.00052
14.80 1.01641 0.00051	14.80 1.01375 0.00051	15.30 1.01430 0.00051
14.90 1.02110 0.00052	14.90 1.01760 0.00052	15.40 1.01848 0.00052
15.00 1.02650 0.00051	15.00 1.02434 0.00052	

478	500	600
14.10 0.92016 0.00051	14.20 0.91929 0.00051	15.00 0.92068 0.00051
14.20 0.92656 0.00051	14.30 0.92439 0.00050	15.10 0.92532 0.00050
14.30 0.93220 0.00051	14.40 0.92995 0.00051	15.20 0.93123 0.00050
14.40 0.93650 0.00051	14.50 0.93508 0.00051	15.30 0.93479 0.00049
14.50 0.94267 0.00051	14.60 0.94086 0.00052	15.40 0.93993 0.00051
14.60 0.94755 0.00052	14.70 0.94746 0.00051	15.50 0.94520 0.00048
14.70 0.95329 0.00051	14.80 0.95120 0.00050	15.60 0.95016 0.00051
14.80 0.95910 0.00050	15.10 0.96747 0.00050	15.70 0.95417 0.00051
14.90 0.96318 0.00051	15.20 0.97233 0.00051	15.80 0.96013 0.00050
15.00 0.96949 0.00052	15.30 0.97682 0.00050	15.90 0.96466 0.00050
15.10 0.97380 0.00051	15.40 0.98230 0.00051	16.00 0.97087 0.00050
15.20 0.97931 0.00050	15.50 0.98614 0.00051	16.10 0.97349 0.00050
15.30 0.98332 0.00051	15.60 0.99071 0.00052	16.20 0.97910 0.00050
15.40 0.98957 0.00051	15.70 0.99683 0.00049	16.30 0.98397 0.00050
15.50 0.99385 0.00052	15.80 1.00103 0.00051	16.40 0.98851 0.00052
15.60 0.99872 0.00051	15.90 1.00577 0.00051	16.50 0.99250 0.00050
15.70 1.00290 0.00051	16.00 1.00993 0.00051	16.60 0.99734 0.00050
15.80 1.00727 0.00051	16.10 1.01528 0.00051	16.70 1.00151 0.00050
15.90 1.01416 0.00049	16.20 1.01993 0.00049	16.80 1.00614 0.00051
16.00 1.01704 0.00051		16.90 1.01054 0.00049
16.10 1.02254 0.00053		17.00 1.01596 0.00050
		17.10 1.01955 0.00050

650	660	670
15.80 0.92150 0.00050	16.00 0.92068 0.00050	16.30 0.92186 0.00049
15.90 0.92633 0.00050	16.10 0.92456 0.00049	16.40 0.92604 0.00050
16.00 0.93181 0.00049	16.20 0.92910 0.00049	16.50 0.93032 0.00050
16.10 0.93634 0.00050	16.30 0.93435 0.00050	16.60 0.93567 0.00050
16.20 0.94094 0.00050	16.40 0.93953 0.00049	16.70 0.94124 0.00051
16.30 0.94544 0.00050	16.50 0.94375 0.00050	16.80 0.94608 0.00050
16.40 0.94970 0.00049	16.60 0.94907 0.00051	16.90 0.94964 0.00049
16.50 0.95552 0.00050	16.70 0.95378 0.00049	17.00 0.95405 0.00049
16.60 0.96054 0.00051	16.80 0.95854 0.00049	17.10 0.95945 0.00049
16.70 0.96401 0.00050	16.90 0.96305 0.00049	17.20 0.96351 0.00050
16.80 0.96956 0.00050	17.00 0.96708 0.00050	17.30 0.96759 0.00050
16.90 0.97347 0.00050	17.10 0.97279 0.00049	17.40 0.97275 0.00049
17.00 0.97841 0.00049	17.20 0.97636 0.00049	17.50 0.97668 0.00051
17.10 0.98268 0.00050	17.30 0.98033 0.00049	17.60 0.98108 0.00050
17.20 0.98613 0.00050	17.40 0.98406 0.00050	17.70 0.98719 0.00050
17.30 0.99124 0.00050	17.50 0.98961 0.00050	17.80 0.98953 0.00049
17.40 0.99515 0.00049	17.60 0.99432 0.00050	17.90 0.99394 0.00050
17.50 0.99981 0.00051	17.70 0.99802 0.00049	18.00 0.99849 0.00050
17.60 1.00451 0.00049	17.80 1.00382 0.00051	18.10 1.00336 0.00050
17.70 1.00907 0.00050	17.90 1.00718 0.00050	18.20 1.00731 0.00051
17.80 1.01342 0.00050	18.00 1.01097 0.00050	18.30 1.01083 0.00051
17.90 1.01796 0.00049	18.10 1.01533 0.00050	18.40 1.01541 0.00050
18.00 1.02105 0.00050	18.20 1.01879 0.00050	18.50 1.01898 0.00050
	18.30 1.02306 0.00049	18.60 1.02249 0.00049

680	690	698
16.70 0.92327 0.00049	17.10 0.91600 0.00049	18.20 0.91971 0.00048
16.80 0.92838 0.00049	17.20 0.92056 0.00050	18.30 0.92365 0.00049
16.90 0.93266 0.00049	17.30 0.92715 0.00050	18.40 0.92865 0.00048
17.00 0.93766 0.00049	17.40 0.93070 0.00050	18.50 0.93276 0.00048
17.30 0.95023 0.00049	17.50 0.93470 0.00050	18.60 0.93696 0.00051
17.40 0.95484 0.00049	17.60 0.93954 0.00050	18.70 0.94197 0.00048
17.50 0.96069 0.00050	17.70 0.94436 0.00048	18.80 0.94564 0.00049
17.60 0.96476 0.00050	17.80 0.94791 0.00049	18.90 0.94986 0.00048
17.70 0.96932 0.00048	17.90 0.95175 0.00049	19.00 0.95459 0.00049
17.80 0.97266 0.00049	18.00 0.95681 0.00050	19.10 0.95848 0.00049
17.90 0.97720 0.00049	18.10 0.96179 0.00049	19.20 0.96220 0.00048
18.00 0.98122 0.00048	18.20 0.96512 0.00049	19.30 0.96669 0.00049
18.10 0.98626 0.00049	18.30 0.96954 0.00049	19.40 0.97069 0.00049
18.20 0.98921 0.00050	18.40 0.97324 0.00051	19.50 0.97347 0.00050
18.30 0.99485 0.00051	18.50 0.97787 0.00052	19.60 0.97735 0.00049
18.40 0.99858 0.00049	18.60 0.98401 0.00049	19.70 0.98212 0.00050
18.50 1.00209 0.00052	18.70 0.98644 0.00050	19.80 0.98648 0.00050
18.60 1.00628 0.00049	18.80 0.99049 0.00049	19.90 0.99015 0.00048
18.70 1.01093 0.00050	18.90 0.99479 0.00049	20.00 0.99422 0.00048
18.80 1.01355 0.00050	19.00 0.99806 0.00050	20.10 0.99703 0.00050
18.90 1.01840 0.00050	19.10 1.00156 0.00049	20.20 1.00048 0.00049

19.00 1.02296 0.00049	19.20 1.00771 0.00051	20.30 1.00484 0.00048
	19.30 1.01018 0.00049	20.40 1.00878 0.00049
	19.40 1.01401 0.00050	20.50 1.01260 0.00049
	19.50 1.01642 0.00050	20.60 1.01588 0.00049
	19.60 1.02196 0.00049	20.70 1.01977 0.00050

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12	15	20
23.00 0.92438 0.00030	18.90 0.92463 0.00035	15.90 0.92537 0.00038
23.30 0.92910 0.00030	19.10 0.92929 0.00034	16.00 0.92840 0.00039
23.60 0.93396 0.00030	19.30 0.93480 0.00034	16.10 0.93146 0.00039
23.90 0.93741 0.00029	19.50 0.93870 0.00034	16.20 0.93623 0.00038
24.20 0.94210 0.00030	19.70 0.94377 0.00033	16.30 0.93900 0.00038
24.50 0.94633 0.00029	19.90 0.94820 0.00033	16.40 0.94292 0.00039
24.80 0.95016 0.00029	20.10 0.95207 0.00033	16.50 0.94512 0.00039
25.10 0.95446 0.00029	20.30 0.95699 0.00033	16.60 0.94916 0.00039
25.40 0.95836 0.00030	20.50 0.96057 0.00034	16.70 0.95208 0.00040
25.70 0.96193 0.00029	20.70 0.96502 0.00035	16.90 0.95840 0.00038
26.00 0.96591 0.00028	20.90 0.96975 0.00032	17.00 0.96163 0.00038
26.30 0.96934 0.00029	21.10 0.97373 0.00031	17.10 0.96479 0.00038
26.60 0.97309 0.00027	21.30 0.97763 0.00033	17.20 0.96838 0.00038
26.90 0.97671 0.00028	21.50 0.98115 0.00033	17.30 0.97120 0.00038
27.20 0.98101 0.00028	21.70 0.98539 0.00033	17.40 0.97482 0.00038
27.50 0.98386 0.00028	21.90 0.98922 0.00033	17.50 0.97719 0.00038
27.80 0.98653 0.00028	22.10 0.99299 0.00033	17.60 0.98066 0.00037
28.10 0.98990 0.00028	22.30 0.99668 0.00032	17.70 0.98378 0.00039
28.40 0.99256 0.00027	22.50 0.99981 0.00034	17.80 0.98617 0.00038
28.70 0.99546 0.00028	22.70 1.00342 0.00033	17.90 0.99023 0.00038
29.00 0.99866 0.00028	22.90 1.00778 0.00032	18.00 0.99239 0.00039
29.30 1.00155 0.00027	23.10 1.01089 0.00032	18.10 0.99593 0.00038
29.60 1.00402 0.00027	23.30 1.01354 0.00032	18.20 0.99747 0.00037
29.90 1.00724 0.00027	23.40 1.01439 0.00032	18.30 1.00072 0.00036
30.20 1.01026 0.00027		18.40 1.00285 0.00038
30.50 1.01198 0.00026		18.50 1.00519 0.00038
30.60 1.01384 0.00026		18.60 1.00914 0.00036
		18.70 1.01262 0.00037
		18.80 1.01454 0.00037
		18.90 1.01711 0.00037

25	30	32
14.30 0.91943 0.00042	13.50 0.92317 0.00042	13.20 0.92022 0.00044
14.40 0.92345 0.00041	13.60 0.92709 0.00043	13.30 0.92470 0.00043
14.50 0.92904 0.00042	13.70 0.93225 0.00044	13.40 0.93038 0.00043
14.60 0.93267 0.00041	13.80 0.93689 0.00044	13.50 0.93501 0.00044
14.70 0.93733 0.00042	13.90 0.94186 0.00044	13.60 0.93968 0.00044
14.80 0.94058 0.00041	14.00 0.94598 0.00044	13.70 0.94469 0.00045
14.90 0.94476 0.00041	14.10 0.94972 0.00043	13.80 0.94954 0.00044
15.00 0.94856 0.00041	14.20 0.95475 0.00042	13.90 0.95424 0.00045

15.10 0.95296 0.00040	14.30 0.96013 0.00044	14.00 0.95995 0.00045
15.20 0.95737 0.00041	14.40 0.96454 0.00042	14.10 0.96393 0.00044
15.30 0.96032 0.00041	14.50 0.96889 0.00043	14.20 0.96855 0.00045
15.40 0.96465 0.00041	14.60 0.97351 0.00043	14.30 0.97382 0.00044
15.50 0.96884 0.00040	14.70 0.97764 0.00043	14.40 0.97709 0.00044
15.60 0.97229 0.00040	14.80 0.98234 0.00042	14.50 0.98252 0.00045
15.70 0.97646 0.00041	14.90 0.98613 0.00043	14.60 0.98691 0.00043
15.80 0.98071 0.00041	15.00 0.99034 0.00042	14.70 0.99149 0.00044
15.90 0.98334 0.00042	15.10 0.99461 0.00043	14.80 0.99523 0.00042
16.00 0.98734 0.00040	15.20 0.99830 0.00043	14.90 0.99958 0.00044
16.10 0.99208 0.00041	15.30 1.00203 0.00044	15.00 1.00353 0.00045
16.20 0.99564 0.00042	15.40 1.00684 0.00043	15.10 1.00753 0.00044
16.30 0.99925 0.00041	15.50 1.01084 0.00043	15.20 1.01216 0.00043
16.40 1.00190 0.00042	15.60 1.01492 0.00042	15.30 1.01652 0.00045
16.50 1.00575 0.00040	15.70 1.01832 0.00041	15.40 1.02073 0.00044
16.60 1.00933 0.00040		
16.70 1.01249 0.00040		
16.80 1.01562 0.00040		
16.90 1.01927 0.00041		

35	40	50
12.90 0.92055 0.00045	12.50 0.92056 0.00046	12.00 0.92109 0.00048
13.00 0.92586 0.00044	12.60 0.92495 0.00047	12.10 0.92728 0.00048
13.10 0.93248 0.00044	12.70 0.93177 0.00046	12.20 0.93316 0.00047
13.20 0.93640 0.00045	12.80 0.93654 0.00045	12.30 0.93906 0.00048
13.30 0.94182 0.00046	12.90 0.94186 0.00045	12.40 0.94421 0.00048
13.40 0.94648 0.00044	13.00 0.94806 0.00047	12.50 0.95012 0.00048
13.50 0.95137 0.00044	13.10 0.95346 0.00046	12.60 0.95639 0.00047
13.60 0.95687 0.00045	13.20 0.95775 0.00045	12.70 0.96128 0.00049
13.70 0.96106 0.00043	13.30 0.96399 0.00045	12.80 0.96780 0.00047
13.80 0.96601 0.00044	13.40 0.96822 0.00045	12.90 0.97259 0.00047
13.90 0.97143 0.00044	13.50 0.97347 0.00046	13.00 0.97755 0.00046
14.00 0.97642 0.00045	13.60 0.97952 0.00046	13.10 0.98405 0.00047
14.10 0.98050 0.00045	13.70 0.98413 0.00047	13.20 0.98946 0.00047
14.20 0.98642 0.00045	13.80 0.98910 0.00044	13.30 0.99388 0.00048
14.30 0.98942 0.00044	13.90 0.99313 0.00047	13.40 0.99929 0.00047
14.40 0.99479 0.00045	14.00 0.99786 0.00046	13.50 1.00486 0.00046
14.50 0.99880 0.00044	14.10 1.00353 0.00048	13.60 1.00947 0.00047
14.60 1.00412 0.00044	14.20 1.00794 0.00045	13.70 1.01609 0.00049
14.70 1.00750 0.00046	14.30 1.01285 0.00045	13.80 1.01950 0.00047
14.80 1.01150 0.00046	14.40 1.01714 0.00045	
14.90 1.01605 0.00044		
15.00 1.02136 0.00045		

60	70	80
11.70 0.92083 0.00049	11.50 0.92045 0.00048	11.40 0.92172 0.00049
11.75 0.92388 0.00049	11.55 0.92411 0.00049	11.45 0.92468 0.00048
11.80 0.92708 0.00048	11.60 0.92667 0.00049	11.50 0.92774 0.00048
11.85 0.93030 0.00049	11.65 0.93012 0.00049	11.55 0.93187 0.00050
11.95 0.93705 0.00048	11.70 0.93306 0.00050	11.60 0.93346 0.00049
12.00 0.93953 0.00048	11.80 0.93936 0.00049	11.65 0.93778 0.00051
12.05 0.94303 0.00049	11.85 0.94306 0.00049	11.70 0.94098 0.00049
12.10 0.94587 0.00049	11.90 0.94508 0.00050	11.75 0.94402 0.00049
12.15 0.94758 0.00048	11.95 0.94852 0.00049	11.80 0.94726 0.00050
12.20 0.95187 0.00047	12.00 0.95222 0.00049	11.85 0.95004 0.00050
12.25 0.95558 0.00048	12.05 0.95495 0.00049	11.95 0.95667 0.00049
12.30 0.95696 0.00048	12.10 0.95856 0.00049	12.00 0.95935 0.00049
12.35 0.96119 0.00049	12.15 0.96068 0.00050	12.05 0.96284 0.00048
12.40 0.96361 0.00049	12.20 0.96338 0.00049	12.10 0.96563 0.00048
12.45 0.96611 0.00048	12.25 0.96654 0.00049	12.15 0.96843 0.00050
12.50 0.96887 0.00049	12.30 0.96976 0.00048	12.20 0.97106 0.00050
12.55 0.97205 0.00047	12.35 0.97330 0.00049	12.25 0.97439 0.00051
12.60 0.97476 0.00050	12.40 0.97571 0.00050	12.30 0.97846 0.00049
12.65 0.97771 0.00048	12.45 0.97909 0.00050	12.35 0.97940 0.00049
12.70 0.98065 0.00049	12.50 0.98075 0.00050	12.40 0.98428 0.00049
12.75 0.98248 0.00049	12.55 0.98428 0.00049	12.45 0.98642 0.00050
12.80 0.98644 0.00049	12.60 0.98655 0.00049	12.50 0.98905 0.00051
12.85 0.98840 0.00050	12.65 0.99038 0.00049	12.55 0.99214 0.00050
12.90 0.99076 0.00049	12.70 0.99170 0.00049	12.60 0.99512 0.00049
12.95 0.99422 0.00046	12.75 0.99597 0.00050	12.65 0.99751 0.00049
13.00 0.99701 0.00049	12.80 0.99907 0.00050	12.70 1.00015 0.00048
13.05 1.00027 0.00049	12.85 1.00143 0.00051	12.75 1.00223 0.00052
13.10 1.00252 0.00049	12.90 1.00399 0.00050	12.80 1.00624 0.00050
13.15 1.00535 0.00049	12.95 1.00615 0.00050	12.85 1.00842 0.00050
13.20 1.00776 0.00049	13.00 1.00919 0.00048	12.90 1.01227 0.00049
13.25 1.01004 0.00049	13.05 1.01278 0.00050	12.95 1.01464 0.00052
13.30 1.01342 0.00049	13.10 1.01432 0.00050	13.00 1.01635 0.00049
13.35 1.01630 0.00047	13.15 1.01764 0.00049	
13.40 1.01807 0.00049	13.20 1.02136 0.00048	

90	100	120
11.30 0.92010 0.00049	11.20 0.91674 0.00050	11.20 0.91845 0.00050
11.35 0.92309 0.00049	11.25 0.92037 0.00050	11.25 0.92123 0.00051
11.40 0.92654 0.00051	11.30 0.92269 0.00051	11.30 0.92446 0.00052
11.45 0.92970 0.00051	11.35 0.92686 0.00050	11.35 0.92793 0.00050
11.50 0.93338 0.00049	11.40 0.93017 0.00051	11.40 0.93077 0.00050
11.55 0.93645 0.00050	11.45 0.93286 0.00048	11.45 0.93427 0.00051
11.60 0.93970 0.00051	11.50 0.93566 0.00049	11.50 0.93757 0.00051
11.65 0.94303 0.00050	11.55 0.93933 0.00050	11.55 0.93966 0.00050
11.70 0.94600 0.00051	11.60 0.94176 0.00049	11.65 0.94600 0.00051
11.75 0.94903 0.00050	11.65 0.94422 0.00051	11.70 0.94899 0.00051

11.80 0.95062 0.00050	11.70 0.94777 0.00050	11.75 0.95272 0.00050
11.85 0.95482 0.00050	11.75 0.95212 0.00051	11.80 0.95616 0.00051
11.90 0.95861 0.00050	11.80 0.95494 0.00050	11.85 0.95926 0.00050
11.95 0.96057 0.00050	11.85 0.95771 0.00050	11.90 0.96195 0.00049
12.05 0.96738 0.00050	11.90 0.96133 0.00050	11.95 0.96556 0.00051
12.10 0.97017 0.00049	11.95 0.96353 0.00051	12.00 0.96764 0.00050
12.15 0.97283 0.00051	12.00 0.96650 0.00051	12.05 0.97124 0.00050
12.20 0.97682 0.00049	12.05 0.96953 0.00051	12.10 0.97419 0.00051
12.30 0.98212 0.00050	12.10 0.97294 0.00051	12.15 0.97737 0.00051
12.35 0.98566 0.00050	12.15 0.97561 0.00049	12.20 0.98020 0.00051
12.40 0.98731 0.00049	12.20 0.97939 0.00049	12.25 0.98363 0.00050
12.45 0.99104 0.00050	12.25 0.98225 0.00053	12.30 0.98499 0.00051
12.50 0.99280 0.00049	12.30 0.98487 0.00048	12.35 0.98872 0.00049
12.55 0.99679 0.00049	12.35 0.98827 0.00050	12.40 0.99225 0.00050
12.60 0.99938 0.00050	12.40 0.99156 0.00049	12.45 0.99472 0.00052
12.65 1.00190 0.00050	12.45 0.99356 0.00051	12.50 0.99744 0.00051
12.70 1.00544 0.00050	12.50 0.99645 0.00050	12.55 0.99941 0.00051
12.75 1.00786 0.00051	12.55 0.99912 0.00051	12.60 1.00317 0.00052
12.80 1.01013 0.00050	12.60 1.00269 0.00050	12.65 1.00529 0.00052
12.85 1.01237 0.00050	12.65 1.00575 0.00050	12.70 1.00878 0.00050
12.90 1.01614 0.00051	12.75 1.01036 0.00049	12.75 1.01229 0.00051
12.95 1.01965 0.00049	12.80 1.01397 0.00050	12.80 1.01480 0.00050
13.00 1.02145 0.00051	12.85 1.01526 0.00051	12.85 1.01677 0.00051
	12.90 1.01914 0.00050	12.90 1.02076 0.00052

130	150	200
11.20 0.91878 0.00050	11.20 0.91718 0.00052	11.40 0.92255 0.00052
11.25 0.92163 0.00050	11.25 0.91986 0.00048	11.45 0.92604 0.00051
11.30 0.92517 0.00050	11.30 0.92437 0.00049	11.50 0.92913 0.00052
11.35 0.92894 0.00050	11.35 0.92713 0.00051	11.55 0.93237 0.00050
11.40 0.93206 0.00050	11.40 0.92969 0.00050	11.60 0.93428 0.00051
11.45 0.93510 0.00053	11.45 0.93372 0.00050	11.65 0.93865 0.00051
11.50 0.93881 0.00051	11.50 0.93630 0.00050	11.70 0.94148 0.00050
11.55 0.94117 0.00050	11.55 0.94032 0.00051	11.75 0.94332 0.00051
11.60 0.94560 0.00050	11.60 0.94186 0.00052	11.80 0.94816 0.00051
11.65 0.94717 0.00051	11.65 0.94580 0.00050	11.85 0.95044 0.00051
11.70 0.95030 0.00051	11.70 0.94921 0.00052	11.90 0.95266 0.00052
11.75 0.95383 0.00052	11.75 0.95174 0.00050	11.95 0.95675 0.00053
11.80 0.95690 0.00051	11.80 0.95414 0.00050	12.00 0.95979 0.00052
11.85 0.96033 0.00051	11.85 0.95849 0.00052	12.05 0.96268 0.00051
11.90 0.96296 0.00051	11.90 0.96142 0.00051	12.10 0.96556 0.00052
11.95 0.96618 0.00051	11.95 0.96380 0.00050	12.15 0.96824 0.00051
12.00 0.96883 0.00051	12.00 0.96658 0.00051	12.20 0.97050 0.00051
12.05 0.97215 0.00052	12.05 0.96907 0.00050	12.25 0.97359 0.00052
12.10 0.97529 0.00050	12.10 0.97418 0.00050	12.30 0.97666 0.00052
12.15 0.97878 0.00051	12.15 0.97643 0.00051	12.35 0.97879 0.00050
12.20 0.98192 0.00049	12.20 0.97882 0.00052	12.40 0.98346 0.00050
12.25 0.98491 0.00049	12.25 0.98222 0.00049	12.45 0.98413 0.00050
12.30 0.98691 0.00050	12.30 0.98590 0.00050	12.50 0.98738 0.00051

12.35 0.99003 0.00051	12.35 0.98707 0.00053	12.55 0.99050 0.00050
12.40 0.99290 0.00050	12.40 0.99081 0.00051	12.60 0.99347 0.00051
12.45 0.99596 0.00050	12.45 0.99314 0.00051	12.65 0.99632 0.00052
12.50 0.99849 0.00050	12.50 0.99635 0.00052	12.70 1.00010 0.00051
12.55 1.00173 0.00052	12.55 1.00001 0.00051	12.75 1.00113 0.00051
12.60 1.00407 0.00051	12.60 1.00193 0.00052	12.80 1.00479 0.00051
12.65 1.00719 0.00051	12.65 1.00545 0.00051	12.85 1.00733 0.00051
12.70 1.00922 0.00050	12.70 1.00771 0.00050	12.90 1.01035 0.00052
12.75 1.01385 0.00052	12.75 1.01015 0.00051	12.95 1.01203 0.00050
12.80 1.01549 0.00050	12.80 1.01287 0.00050	13.00 1.01523 0.00052
12.85 1.01817 0.00050	12.85 1.01623 0.00051	13.05 1.01814 0.00052
12.90 1.02042 0.00050	12.90 1.02021 0.00050	13.10 1.02063 0.00051

239	250	359
11.50 0.92098 0.00051	11.60 0.92463 0.00051	12.00 0.92451 0.00051
11.55 0.92349 0.00051	11.65 0.92857 0.00051	12.10 0.93015 0.00051
11.60 0.92634 0.00051	11.70 0.92951 0.00052	12.20 0.93616 0.00050
11.65 0.92976 0.00051	11.75 0.93437 0.00051	12.30 0.94156 0.00052
11.70 0.93240 0.00050	11.80 0.93633 0.00051	12.40 0.94681 0.00051
11.75 0.93584 0.00051	11.90 0.94242 0.00051	12.50 0.95359 0.00050
11.80 0.93931 0.00051	11.95 0.94595 0.00050	12.60 0.95840 0.00051
11.85 0.94214 0.00050	12.00 0.94810 0.00051	12.70 0.96421 0.00050
11.90 0.94511 0.00050	12.05 0.95029 0.00049	12.80 0.96887 0.00049
11.95 0.94826 0.00051	12.10 0.95483 0.00051	12.90 0.97464 0.00050
12.00 0.95085 0.00053	12.25 0.96320 0.00049	13.00 0.97896 0.00051
12.05 0.95388 0.00050	12.30 0.96637 0.00051	13.10 0.98520 0.00051
12.10 0.95681 0.00050	12.35 0.96914 0.00051	13.20 0.99025 0.00051
12.15 0.95917 0.00050	12.40 0.97106 0.00049	13.30 0.99563 0.00051
12.20 0.96259 0.00050	12.45 0.97409 0.00050	13.40 1.00079 0.00050
12.25 0.96601 0.00049	12.50 0.97640 0.00051	13.50 1.00625 0.00049
12.30 0.96789 0.00050	12.55 0.97816 0.00049	13.60 1.01042 0.00051
12.35 0.97084 0.00051	12.60 0.98309 0.00050	13.70 1.01598 0.00050
12.40 0.97396 0.00051	12.65 0.98373 0.00051	13.80 1.02079 0.00050
12.45 0.97687 0.00053	12.70 0.98783 0.00050	
12.50 0.98004 0.00053	12.75 0.99147 0.00050	
12.55 0.98257 0.00051	12.80 0.99402 0.00051	
12.60 0.98479 0.00050	12.85 0.99619 0.00052	
12.65 0.98753 0.00050	12.90 0.99868 0.00050	
12.70 0.99065 0.00052	12.95 1.00092 0.00053	
12.75 0.99308 0.00050	13.00 1.00393 0.00051	
12.80 0.99662 0.00052	13.05 1.00747 0.00051	
12.85 0.99859 0.00048	13.10 1.01013 0.00050	
12.90 1.00188 0.00051	13.15 1.01146 0.00050	
12.95 1.00390 0.00052	13.20 1.01377 0.00050	
13.00 1.00682 0.00051		
13.05 1.00880 0.00050		
13.10 1.01184 0.00050		
13.15 1.01464 0.00050		
13.20 1.01687 0.00052		

478	500	600
12.40 0.91952 0.00050	12.60 0.92309 0.00051	13.20 0.91806 0.00048
12.50 0.92488 0.00050	12.70 0.92891 0.00050	13.30 0.92253 0.00049
12.60 0.93149 0.00049	12.80 0.93467 0.00052	13.40 0.92860 0.00049
12.70 0.93593 0.00052	12.90 0.94103 0.00051	13.50 0.93431 0.00049
12.80 0.94122 0.00050	13.00 0.94414 0.00051	13.60 0.93805 0.00051
12.90 0.94636 0.00051	13.10 0.95118 0.00050	13.70 0.94329 0.00050
13.00 0.95271 0.00052	13.20 0.95590 0.00050	13.80 0.94911 0.00050
13.10 0.95692 0.00050	13.30 0.96111 0.00050	13.90 0.95380 0.00050
13.20 0.96306 0.00052	13.40 0.96508 0.00049	14.00 0.95805 0.00049
13.30 0.96746 0.00049	13.50 0.97160 0.00049	14.10 0.96346 0.00050
13.40 0.97258 0.00052	13.60 0.97519 0.00050	14.20 0.96838 0.00049
13.50 0.97791 0.00050	13.70 0.98197 0.00051	14.30 0.97390 0.00050
13.60 0.98259 0.00050	13.80 0.98597 0.00049	14.40 0.97714 0.00051
13.70 0.98770 0.00050	13.90 0.98986 0.00050	14.50 0.98119 0.00050
13.80 0.99152 0.00049	14.00 0.99639 0.00049	14.60 0.98633 0.00049
13.90 0.99747 0.00050	14.10 1.00104 0.00050	14.70 0.98959 0.00050
14.00 1.00263 0.00051	14.20 1.00480 0.00050	14.80 0.99522 0.00050
14.10 1.00761 0.00050	14.30 1.00989 0.00049	14.90 0.99952 0.00047
14.20 1.01244 0.00050	14.40 1.01480 0.00050	15.00 1.00467 0.00049
14.30 1.01665 0.00051	14.50 1.01963 0.00050	15.10 1.00824 0.00050
14.40 1.02140 0.00051		15.20 1.01327 0.00049
		15.30 1.01701 0.00051
		15.40 1.02265 0.00051
		15.50 1.02572 0.00051

650	660	670
14.00 0.92338 0.00049	14.10 0.91872 0.00049	14.40 0.92163 0.00050
14.10 0.92809 0.00048	14.20 0.92256 0.00049	14.50 0.92634 0.00048
14.20 0.93355 0.00048	14.30 0.92803 0.00049	14.60 0.93049 0.00050
14.30 0.93740 0.00051	14.40 0.93308 0.00050	14.70 0.93588 0.00050
14.40 0.94254 0.00050	14.50 0.93776 0.00049	14.80 0.94077 0.00049
14.50 0.94769 0.00049	14.60 0.94235 0.00048	14.90 0.94457 0.00049
14.60 0.95243 0.00050	14.70 0.94714 0.00050	15.00 0.94836 0.00048
14.70 0.95652 0.00049	14.80 0.95209 0.00050	15.10 0.95382 0.00049
14.80 0.96209 0.00050	14.90 0.95688 0.00050	15.20 0.95978 0.00049
14.90 0.96640 0.00050	15.00 0.96092 0.00051	15.30 0.96339 0.00049
15.00 0.97046 0.00050	15.10 0.96585 0.00049	15.40 0.96768 0.00049
15.10 0.97472 0.00049	15.20 0.97003 0.00050	15.50 0.97221 0.00049
15.20 0.97887 0.00049	15.30 0.97505 0.00049	15.60 0.97624 0.00048
15.30 0.98354 0.00050	15.40 0.97928 0.00050	15.70 0.98153 0.00049
15.40 0.98867 0.00050	15.50 0.98367 0.00050	15.80 0.98532 0.00049
15.70 1.00151 0.00049	15.60 0.98754 0.00048	15.90 0.98939 0.00049
15.80 1.00502 0.00051	15.70 0.99139 0.00050	16.00 0.99308 0.00050
15.90 1.01048 0.00050	15.80 0.99729 0.00050	16.10 0.99779 0.00049
16.00 1.01360 0.00050	15.90 1.00142 0.00048	16.20 1.00159 0.00051

16.10 1.01923 0.00048	16.00 1.00501 0.00048	16.30 1.00622 0.00050
	16.10 1.00807 0.00050	16.40 1.01010 0.00049
	16.20 1.01297 0.00051	16.50 1.01462 0.00049
	16.30 1.01688 0.00050	16.60 1.01813 0.00050
	16.40 1.02136 0.00049	

680	690	698
14.70 0.92034 0.00048	15.20 0.92208 0.00050	16.10 0.92148 0.00048
14.80 0.92530 0.00048	15.30 0.92652 0.00049	16.20 0.92609 0.00049
14.90 0.92936 0.00050	15.40 0.93027 0.00049	16.30 0.93005 0.00048
15.00 0.93497 0.00049	15.50 0.93492 0.00049	16.40 0.93484 0.00050
15.10 0.93906 0.00051	15.60 0.93959 0.00050	16.50 0.93880 0.00049
15.20 0.94345 0.00050	15.70 0.94382 0.00050	16.60 0.94258 0.00049
15.30 0.94810 0.00050	15.80 0.94776 0.00049	16.70 0.94661 0.00048
15.40 0.95376 0.00048	15.90 0.95374 0.00048	16.80 0.95074 0.00049
15.50 0.95650 0.00049	16.00 0.95587 0.00049	16.90 0.95474 0.00049
15.60 0.96191 0.00049	16.10 0.96137 0.00049	17.00 0.95889 0.00048
15.70 0.96735 0.00049	16.20 0.96537 0.00048	17.10 0.96341 0.00050
15.80 0.97001 0.00051	16.30 0.96916 0.00050	17.20 0.96647 0.00049
15.90 0.97477 0.00049	16.40 0.97384 0.00049	17.30 0.97039 0.00049
16.00 0.97841 0.00049	16.50 0.97883 0.00048	17.40 0.97476 0.00049
16.10 0.98340 0.00049	16.60 0.98236 0.00050	17.50 0.97975 0.00049
16.20 0.98657 0.00048	16.70 0.98490 0.00049	17.60 0.98288 0.00049
16.30 0.99193 0.00049	16.80 0.99094 0.00051	17.70 0.98671 0.00049
16.40 0.99476 0.00050	16.90 0.99450 0.00049	17.80 0.99087 0.00050
16.50 0.99988 0.00050	17.00 0.99857 0.00050	17.90 0.99457 0.00050
16.60 1.00393 0.00049	17.10 1.00278 0.00048	18.00 0.99866 0.00049
16.70 1.00767 0.00048	17.20 1.00539 0.00050	18.10 1.00130 0.00049
16.80 1.01122 0.00049	17.30 1.01037 0.00049	18.20 1.00530 0.00049
16.90 1.01631 0.00048	17.40 1.01402 0.00049	18.30 1.00931 0.00052
17.00 1.02054 0.00050	17.50 1.01741 0.00050	18.40 1.01261 0.00050
17.10 1.02341 0.00050	17.60 1.02114 0.00049	18.50 1.01665 0.00051
17.20 1.02728 0.00051		
17.30 1.03146 0.00049		
17.40 1.03537 0.00049		
17.50 1.03806 0.00049		
17.60 1.04119 0.00049		

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12	15	20
22.10 0.92737 0.00028	17.80 0.92562 0.00032	14.70 0.92282 0.00036
22.40 0.93228 0.00028	18.00 0.92987 0.00032	14.80 0.92669 0.00037
22.70 0.93668 0.00028	18.20 0.93532 0.00032	14.90 0.92988 0.00036
23.00 0.94117 0.00028	18.40 0.94021 0.00032	15.00 0.93362 0.00036
23.30 0.94594 0.00027	18.60 0.94406 0.00032	15.10 0.93668 0.00036
23.60 0.94995 0.00027	18.80 0.94952 0.00031	15.20 0.94087 0.00036
23.90 0.95372 0.00027	19.00 0.95312 0.00032	15.30 0.94488 0.00036
24.20 0.95726 0.00028	19.20 0.95709 0.00032	15.40 0.94753 0.00035
24.50 0.96155 0.00027	19.40 0.96204 0.00032	15.50 0.95081 0.00037
24.80 0.96535 0.00027	19.60 0.96710 0.00031	15.70 0.95776 0.00036
25.10 0.96929 0.00028	19.80 0.97016 0.00031	15.80 0.96107 0.00037
25.40 0.97242 0.00027	20.00 0.97529 0.00031	15.90 0.96411 0.00037
25.70 0.97578 0.00028	20.20 0.97853 0.00031	16.00 0.96730 0.00036
26.00 0.97883 0.00027	20.40 0.98190 0.00031	16.10 0.97099 0.00035
26.30 0.98302 0.00027	20.60 0.98625 0.00030	16.20 0.97280 0.00036
26.60 0.98613 0.00026	20.80 0.99029 0.00031	16.30 0.97683 0.00036
26.90 0.98900 0.00026	21.00 0.99300 0.00031	16.40 0.97948 0.00035
27.20 0.99197 0.00026	21.20 0.99777 0.00030	16.50 0.98200 0.00035
27.50 0.99593 0.00027	21.40 1.00070 0.00031	16.70 0.98826 0.00036
27.80 0.99901 0.00026	21.60 1.00441 0.00031	16.80 0.99171 0.00036
28.10 1.00143 0.00026	21.80 1.00801 0.00031	16.90 0.99457 0.00036
28.40 1.00370 0.00025	22.00 1.01127 0.00031	17.00 0.99753 0.00035
28.70 1.00737 0.00026	22.20 1.01442 0.00030	17.10 1.00034 0.00036
29.00 1.00951 0.00026		17.20 1.00343 0.00035
29.30 1.01212 0.00026		17.30 1.00601 0.00035
29.40 1.01357 0.00025		17.40 1.00923 0.00035
		17.50 1.01126 0.00035
		17.60 1.01435 0.00036

25	30	32
13.20 0.92295 0.00038	12.30 0.92256 0.00040	12.10 0.92524 0.00041
13.30 0.92708 0.00039	12.40 0.92668 0.00041	12.20 0.93074 0.00040
13.50 0.93591 0.00037	12.50 0.93157 0.00041	12.30 0.93516 0.00040
13.60 0.93973 0.00038	12.60 0.93696 0.00040	12.40 0.93977 0.00042
13.70 0.94425 0.00038	12.70 0.94086 0.00040	12.50 0.94543 0.00042
13.80 0.94742 0.00039	12.80 0.94651 0.00042	12.60 0.95075 0.00041
13.90 0.95222 0.00039	12.90 0.95075 0.00040	12.70 0.95484 0.00043
14.00 0.95665 0.00039	13.00 0.95508 0.00041	12.80 0.95976 0.00041
14.10 0.96017 0.00038	13.10 0.95996 0.00041	12.90 0.96540 0.00041
14.20 0.96422 0.00038	13.20 0.96409 0.00040	13.00 0.97030 0.00040
14.30 0.96788 0.00039	13.30 0.96858 0.00040	13.10 0.97390 0.00041
14.40 0.97164 0.00039	13.40 0.97376 0.00041	13.20 0.97896 0.00041
14.50 0.97638 0.00039	13.50 0.97897 0.00040	13.30 0.98305 0.00040
14.60 0.97989 0.00038	13.60 0.98149 0.00041	13.40 0.98700 0.00041
14.70 0.98419 0.00039	13.70 0.98645 0.00041	13.50 0.99114 0.00042
14.80 0.98831 0.00040	13.80 0.99202 0.00040	13.60 0.99664 0.00040

14.90 0.99088 0.00039	13.90 0.99516 0.00041	13.70 1.00033 0.00041
15.00 0.99506 0.00039	14.00 0.99867 0.00042	13.80 1.00544 0.00041
15.10 0.99900 0.00038	14.10 1.00331 0.00041	13.90 1.00837 0.00043
15.20 1.00198 0.00039	14.20 1.00693 0.00042	14.00 1.01371 0.00041
15.30 1.00601 0.00037	14.30 1.01201 0.00041	14.10 1.01701 0.00040
15.40 1.00981 0.00038	14.40 1.01486 0.00040	14.20 1.02240 0.00040
15.50 1.01333 0.00039	14.50 1.01928 0.00040	
15.60 1.01621 0.00038		

35	40	50
11.70 0.92169 0.00042	11.30 0.92174 0.00042	10.70 0.91919 0.00043
11.80 0.92655 0.00042	11.40 0.92747 0.00044	10.80 0.92538 0.00043
11.90 0.93176 0.00042	11.50 0.93381 0.00043	10.90 0.93082 0.00044
12.00 0.93729 0.00042	11.60 0.93875 0.00042	11.00 0.93614 0.00044
12.10 0.94313 0.00042	11.70 0.94395 0.00041	11.10 0.94299 0.00044
12.20 0.94825 0.00043	11.80 0.94974 0.00043	11.20 0.94934 0.00043
12.30 0.95226 0.00043	11.90 0.95510 0.00042	11.30 0.95487 0.00045
12.40 0.95790 0.00042	12.00 0.96066 0.00043	11.50 0.96557 0.00045
12.50 0.96290 0.00042	12.10 0.96539 0.00042	11.60 0.97155 0.00044
12.60 0.96776 0.00041	12.20 0.97112 0.00043	11.70 0.97639 0.00044
12.70 0.97242 0.00042	12.30 0.97591 0.00043	11.80 0.98240 0.00045
12.80 0.97688 0.00041	12.40 0.98094 0.00043	11.90 0.98756 0.00044
12.90 0.98183 0.00043	12.50 0.98595 0.00043	12.00 0.99291 0.00044
13.00 0.98711 0.00041	12.60 0.99153 0.00044	12.10 0.99870 0.00044
13.10 0.99172 0.00041	12.70 0.99663 0.00043	12.20 1.00464 0.00044
13.20 0.99636 0.00042	12.80 1.00077 0.00043	12.30 1.00910 0.00044
13.30 1.00059 0.00040	12.90 1.00659 0.00042	12.40 1.01460 0.00044
13.40 1.00510 0.00042	13.00 1.01053 0.00043	12.50 1.01894 0.00043
13.50 1.01029 0.00042	13.10 1.01523 0.00044	
13.60 1.01425 0.00041	13.20 1.02028 0.00042	
13.70 1.01924 0.00042		

60	70	80
10.40 0.92117 0.00044	10.20 0.92230 0.00047	10.10 0.92534 0.00045
10.45 0.92489 0.00045	10.25 0.92570 0.00046	10.15 0.92862 0.00045
10.50 0.92628 0.00044	10.30 0.92818 0.00045	10.20 0.93161 0.00046
10.55 0.93013 0.00044	10.35 0.93149 0.00045	10.25 0.93424 0.00045
10.60 0.93251 0.00044	10.40 0.93487 0.00045	10.30 0.93844 0.00045
10.65 0.93660 0.00044	10.45 0.93901 0.00046	10.35 0.94131 0.00046
10.70 0.93916 0.00046	10.50 0.94158 0.00046	10.40 0.94419 0.00046
10.75 0.94204 0.00045	10.55 0.94392 0.00046	10.45 0.94824 0.00047
10.80 0.94582 0.00045	10.60 0.94811 0.00045	10.50 0.95052 0.00046
10.90 0.95168 0.00047	10.65 0.95104 0.00046	10.55 0.95370 0.00045
10.95 0.95384 0.00046	10.70 0.95350 0.00045	10.60 0.95723 0.00047
11.00 0.95815 0.00044	10.75 0.95616 0.00045	10.65 0.95986 0.00046
11.05 0.96071 0.00046	10.80 0.95938 0.00045	10.75 0.96689 0.00045
11.10 0.96456 0.00044	10.85 0.96254 0.00045	10.80 0.96916 0.00046

11.15 0.96735 0.00046	10.90 0.96582 0.00045	10.85 0.97211 0.00046
11.20 0.96933 0.00046	10.95 0.96904 0.00045	10.90 0.97575 0.00046
11.25 0.97263 0.00044	11.00 0.97138 0.00045	10.95 0.97861 0.00047
11.30 0.97533 0.00047	11.05 0.97546 0.00045	11.00 0.98213 0.00047
11.35 0.97859 0.00046	11.10 0.97823 0.00046	11.05 0.98375 0.00046
11.40 0.98117 0.00046	11.15 0.98110 0.00046	11.10 0.98827 0.00046
11.45 0.98389 0.00044	11.20 0.98358 0.00046	11.15 0.99076 0.00046
11.50 0.98655 0.00045	11.25 0.98617 0.00046	11.20 0.99331 0.00046
11.55 0.98939 0.00045	11.30 0.98929 0.00045	11.25 0.99706 0.00046
11.60 0.99276 0.00046	11.35 0.99271 0.00045	11.30 0.99817 0.00045
11.65 0.99493 0.00044	11.40 0.99492 0.00046	11.35 1.00160 0.00046
11.70 0.99784 0.00045	11.45 0.99865 0.00045	11.40 1.00490 0.00045
11.75 1.00122 0.00045	11.50 1.00101 0.00045	11.45 1.00831 0.00046
11.80 1.00325 0.00045	11.55 1.00439 0.00046	11.50 1.00982 0.00047
11.85 1.00635 0.00046	11.60 1.00672 0.00046	11.55 1.01301 0.00046
11.90 1.00866 0.00044	11.65 1.00965 0.00044	11.60 1.01656 0.00045
11.95 1.01196 0.00045	11.70 1.01187 0.00044	11.65 1.01972 0.00047
12.00 1.01444 0.00044	11.75 1.01541 0.00045	11.70 1.02216 0.00046
12.05 1.01696 0.00045	11.80 1.01759 0.00046	
12.10 1.01941 0.00046		

90	100	120
10.00 0.92517 0.00046	9.90 0.92249 0.00045	9.80 0.92055 0.00047
10.05 0.92788 0.00046	9.95 0.92604 0.00046	9.85 0.92375 0.00046
10.10 0.93132 0.00045	10.00 0.92920 0.00047	9.90 0.92760 0.00047
10.15 0.93575 0.00046	10.05 0.93332 0.00047	9.95 0.92942 0.00048
10.20 0.93745 0.00047	10.10 0.93543 0.00048	10.00 0.93391 0.00046
10.25 0.94126 0.00046	10.15 0.93923 0.00047	10.05 0.93726 0.00047
10.30 0.94421 0.00047	10.20 0.94232 0.00046	10.10 0.94064 0.00047
10.35 0.94734 0.00045	10.25 0.94646 0.00047	10.15 0.94368 0.00047
10.40 0.95126 0.00046	10.30 0.94994 0.00047	10.20 0.94768 0.00047
10.45 0.95399 0.00045	10.35 0.95243 0.00046	10.25 0.95069 0.00047
10.50 0.95614 0.00047	10.40 0.95546 0.00046	10.30 0.95400 0.00046
10.55 0.96004 0.00047	10.45 0.95866 0.00047	10.35 0.95649 0.00048
10.60 0.96283 0.00046	10.50 0.96166 0.00045	10.40 0.95915 0.00048
10.65 0.96699 0.00046	10.55 0.96542 0.00047	10.45 0.96289 0.00046
10.70 0.97028 0.00046	10.60 0.96816 0.00046	10.50 0.96513 0.00047
10.75 0.97237 0.00047	10.65 0.97008 0.00046	10.55 0.96834 0.00046
10.80 0.97641 0.00046	10.70 0.97379 0.00047	10.60 0.97244 0.00047
10.85 0.97911 0.00047	10.75 0.97696 0.00047	10.65 0.97526 0.00049
10.90 0.98168 0.00047	10.80 0.97967 0.00047	10.70 0.97781 0.00047
10.95 0.98497 0.00047	10.85 0.98331 0.00047	10.75 0.98212 0.00047
11.00 0.98716 0.00046	10.90 0.98668 0.00046	10.80 0.98396 0.00046
11.05 0.98973 0.00046	10.95 0.98955 0.00047	10.85 0.98724 0.00045
11.10 0.99401 0.00046	11.00 0.99235 0.00046	10.90 0.98991 0.00047
11.15 0.99622 0.00046	11.05 0.99474 0.00047	10.95 0.99290 0.00046
11.20 0.99906 0.00047	11.10 0.99735 0.00046	11.00 0.99635 0.00046
11.25 1.00273 0.00045	11.15 1.00166 0.00047	11.05 0.99883 0.00047
11.30 1.00606 0.00047	11.20 1.00503 0.00046	11.10 1.00245 0.00047

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11.35 1.00754 0.00047	11.25 1.00621 0.00046	11.15 1.00488 0.00048
11.40 1.01032 0.00046	11.30 1.01096 0.00045	11.20 1.00667 0.00048
11.45 1.01434 0.00046	11.35 1.01197 0.00047	11.25 1.01013 0.00046
11.50 1.01686 0.00046	11.40 1.01520 0.00047	11.30 1.01350 0.00047
11.55 1.01965 0.00046	11.45 1.01753 0.00047	11.35 1.01628 0.00047
	11.50 1.02051 0.00046	11.40 1.01821 0.00047

130	150	200
9.70 0.91639 0.00046	9.80 0.92299 0.00048	9.80 0.92116 0.00048
9.75 0.91884 0.00046	9.85 0.92654 0.00046	9.85 0.92390 0.00046
9.80 0.92300 0.00046	9.90 0.92984 0.00046	9.90 0.92727 0.00047
9.85 0.92584 0.00047	9.95 0.93277 0.00047	9.95 0.92990 0.00048
9.90 0.92953 0.00047	10.00 0.93606 0.00047	10.00 0.93354 0.00046
9.95 0.93270 0.00046	10.05 0.93998 0.00047	10.05 0.93707 0.00047
10.00 0.93599 0.00045	10.10 0.94429 0.00047	10.10 0.94038 0.00047
10.05 0.93879 0.00047	10.15 0.94547 0.00047	10.15 0.94396 0.00048
10.15 0.94602 0.00048	10.20 0.94981 0.00046	10.20 0.94554 0.00047
10.20 0.94873 0.00046	10.25 0.95273 0.00047	10.25 0.94966 0.00048
10.25 0.95174 0.00047	10.30 0.95488 0.00046	10.30 0.95196 0.00047
10.30 0.95561 0.00047	10.35 0.95862 0.00048	10.35 0.95545 0.00045
10.35 0.95923 0.00048	10.40 0.96120 0.00047	10.40 0.95778 0.00047
10.40 0.96086 0.00048	10.45 0.96493 0.00047	10.45 0.96038 0.00048
10.45 0.96464 0.00047	10.50 0.96785 0.00047	10.50 0.96374 0.00047
10.50 0.96748 0.00047	10.55 0.97103 0.00048	10.55 0.96721 0.00047
10.55 0.97103 0.00047	10.60 0.97352 0.00048	10.60 0.97043 0.00047
10.60 0.97445 0.00046	10.65 0.97840 0.00046	10.65 0.97393 0.00047
10.65 0.97674 0.00046	10.70 0.98010 0.00048	10.70 0.97605 0.00048
10.70 0.98027 0.00047	10.75 0.98313 0.00047	10.75 0.97913 0.00048
10.75 0.98209 0.00047	10.80 0.98623 0.00047	10.80 0.98213 0.00048
10.80 0.98583 0.00048	10.85 0.98977 0.00048	10.85 0.98460 0.00047
10.85 0.98926 0.00047	10.90 0.99232 0.00048	10.90 0.98780 0.00047
10.90 0.99195 0.00049	10.95 0.99490 0.00046	10.95 0.99074 0.00047
10.95 0.99445 0.00048	11.00 0.99755 0.00047	11.00 0.99454 0.00046
11.00 0.99713 0.00047	11.05 1.00012 0.00046	11.05 0.99581 0.00048
11.05 1.00119 0.00047	11.10 1.00443 0.00046	11.10 1.00019 0.00048
11.10 1.00335 0.00047	11.15 1.00617 0.00047	11.15 1.00092 0.00049
11.15 1.00644 0.00047	11.20 1.00895 0.00049	11.20 1.00513 0.00048
11.20 1.00920 0.00047	11.25 1.01222 0.00046	11.25 1.00761 0.00047
11.25 1.01218 0.00047	11.30 1.01553 0.00048	11.30 1.01019 0.00045
11.30 1.01455 0.00046	11.35 1.01704 0.00046	11.35 1.01356 0.00047
11.35 1.01774 0.00047	11.40 1.02114 0.00047	11.40 1.01610 0.00048
11.40 1.02095 0.00047		11.45 1.01798 0.00046
		11.50 1.02149 0.00047

239	250	359
9.90 0.92166 0.00046	10.05 0.92945 0.00048	10.30 0.92729 0.00046
9.95 0.92543 0.00047	10.10 0.93193 0.00047	10.40 0.93318 0.00047
10.00 0.92781 0.00046	10.15 0.93567 0.00046	10.50 0.93948 0.00047
10.05 0.93065 0.00046	10.20 0.93968 0.00046	10.60 0.94506 0.00046
10.10 0.93351 0.00047	10.25 0.94224 0.00047	10.70 0.95069 0.00046
10.15 0.93770 0.00047	10.30 0.94543 0.00046	10.80 0.95645 0.00047
10.20 0.94026 0.00047	10.35 0.94823 0.00047	10.90 0.96213 0.00047
10.25 0.94311 0.00047	10.40 0.95028 0.00045	11.00 0.96646 0.00046
10.30 0.94658 0.00047	10.45 0.95405 0.00047	11.10 0.97235 0.00048
10.35 0.94984 0.00047	10.50 0.95728 0.00046	11.20 0.97831 0.00047
10.40 0.95229 0.00047	10.55 0.95947 0.00048	11.30 0.98386 0.00048
10.45 0.95567 0.00049	10.60 0.96235 0.00048	11.40 0.98955 0.00049
10.50 0.95838 0.00047	10.65 0.96547 0.00046	11.50 0.99381 0.00049
10.55 0.96169 0.00046	10.70 0.96890 0.00047	11.60 0.99920 0.00048
10.60 0.96401 0.00047	10.75 0.97060 0.00046	11.70 1.00484 0.00048
10.65 0.96750 0.00048	10.80 0.97453 0.00049	11.80 1.00966 0.00049
10.70 0.97016 0.00048	10.85 0.97788 0.00047	11.90 1.01501 0.00047
10.75 0.97313 0.00047	10.90 0.98042 0.00046	12.00 1.01994 0.00047
10.80 0.97540 0.00046	10.95 0.98339 0.00048	
10.85 0.97922 0.00047	11.00 0.98590 0.00048	
10.90 0.98207 0.00047	11.05 0.98749 0.00047	
10.95 0.98498 0.00048	11.10 0.99051 0.00048	
11.00 0.98680 0.00047	11.15 0.99395 0.00047	
11.05 0.98985 0.00045	11.20 0.99726 0.00046	
11.10 0.99327 0.00048	11.25 1.00058 0.00047	
11.15 0.99552 0.00048	11.30 1.00160 0.00048	
11.20 0.99923 0.00048	11.35 1.00533 0.00047	
11.25 1.00102 0.00049	11.40 1.00753 0.00047	
11.30 1.00474 0.00048	11.45 1.01051 0.00047	
11.35 1.00694 0.00047	11.50 1.01209 0.00046	
11.40 1.00900 0.00048	11.55 1.01587 0.00047	
11.45 1.01317 0.00047		
11.50 1.01513 0.00047		
11.55 1.01723 0.00049		
11.60 1.02045 0.00048		

478	500	600
10.60 0.92393 0.00046	10.70 0.92329 0.00047	11.20 0.92016 0.00046
10.70 0.92938 0.00047	10.80 0.92883 0.00047	11.30 0.92652 0.00046
10.80 0.93500 0.00047	10.90 0.93492 0.00046	11.40 0.93039 0.00047
10.90 0.94006 0.00048	11.00 0.93980 0.00046	11.50 0.93598 0.00047
11.00 0.94591 0.00048	11.10 0.94523 0.00047	11.60 0.94122 0.00046
11.10 0.95053 0.00047	11.20 0.95025 0.00047	11.70 0.94657 0.00048
11.20 0.95639 0.00047	11.30 0.95551 0.00047	11.80 0.95142 0.00047
11.30 0.96175 0.00048	11.40 0.96027 0.00045	11.90 0.95591 0.00047
11.40 0.96679 0.00046	11.50 0.96666 0.00046	12.00 0.96192 0.00047
11.50 0.97236 0.00046	11.60 0.97167 0.00046	12.10 0.96616 0.00046
11.60 0.97757 0.00047	11.70 0.97621 0.00047	12.20 0.97058 0.00048

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11.70 0.98174 0.00045	11.80 0.98212 0.00047	12.30 0.97528 0.00047
11.80 0.98668 0.00048	11.90 0.98680 0.00047	12.40 0.98078 0.00047
11.90 0.99186 0.00047	12.00 0.99093 0.00046	12.50 0.98524 0.00047
12.00 0.99651 0.00048	12.10 0.99703 0.00047	12.60 0.98900 0.00047
12.10 1.00202 0.00048	12.20 1.00154 0.00048	12.70 0.99470 0.00046
12.20 1.00727 0.00047	12.30 1.00653 0.00047	12.80 0.99808 0.00047
12.30 1.01157 0.00045	12.40 1.01058 0.00046	12.90 1.00346 0.00048
12.40 1.01632 0.00047	12.50 1.01461 0.00048	13.00 1.00794 0.00047
12.50 1.02050 0.00048	12.60 1.01946 0.00048	13.10 1.01197 0.00046
		13.20 1.01691 0.00047
		13.30 1.02125 0.00048

650	660	670
11.80 0.92369 0.00048	11.90 0.92148 0.00047	12.10 0.92261 0.00046
11.90 0.92960 0.00046	12.00 0.92682 0.00046	12.20 0.92662 0.00046
12.00 0.93356 0.00045	12.10 0.93201 0.00045	12.30 0.93232 0.00047
12.10 0.93864 0.00046	12.20 0.93581 0.00047	12.40 0.93719 0.00045
12.20 0.94295 0.00049	12.30 0.94092 0.00047	12.50 0.94141 0.00046
12.30 0.94850 0.00046	12.40 0.94676 0.00046	12.60 0.94587 0.00047
12.40 0.95392 0.00046	12.50 0.94965 0.00047	12.70 0.95043 0.00047
12.50 0.95773 0.00047	12.60 0.95526 0.00047	12.80 0.95525 0.00044
12.60 0.96238 0.00046	12.70 0.96023 0.00046	12.90 0.95884 0.00046
12.70 0.96670 0.00046	12.80 0.96431 0.00045	13.00 0.96420 0.00047
12.80 0.97144 0.00046	12.90 0.96806 0.00048	13.10 0.96880 0.00047
12.90 0.97586 0.00045	13.00 0.97336 0.00046	13.20 0.97359 0.00047
13.00 0.98120 0.00048	13.10 0.97710 0.00045	13.30 0.97787 0.00046
13.10 0.98432 0.00046	13.20 0.98248 0.00045	13.40 0.98141 0.00047
13.20 0.98931 0.00046	13.50 0.99492 0.00047	13.50 0.98616 0.00046
13.30 0.99385 0.00045	13.60 0.99966 0.00045	13.60 0.99035 0.00046
13.40 0.99826 0.00046	13.70 1.00422 0.00047	13.70 0.99443 0.00046
13.50 1.00257 0.00046	13.80 1.00760 0.00046	13.80 0.99844 0.00047
13.60 1.00581 0.00046	13.90 1.01259 0.00046	13.90 1.00380 0.00046
13.70 1.01169 0.00046	14.00 1.01594 0.00047	14.00 1.00715 0.00047
13.80 1.01482 0.00047		14.10 1.01093 0.00046
13.90 1.01939 0.00047		14.20 1.01463 0.00047
		14.30 1.01958 0.00047

680	690	698
12.30 0.91973 0.00046	12.70 0.92240 0.00046	13.40 0.92277 0.00045
12.40 0.92494 0.00045	12.80 0.92616 0.00047	13.50 0.92734 0.00045
12.50 0.92916 0.00045	12.90 0.93025 0.00046	13.60 0.93148 0.00048
12.60 0.93463 0.00047	13.00 0.93570 0.00046	13.80 0.93969 0.00045
12.70 0.93831 0.00047	13.10 0.93995 0.00046	13.90 0.94290 0.00046
12.80 0.94382 0.00047	13.20 0.94373 0.00046	14.00 0.94743 0.00046
12.90 0.94774 0.00046	13.30 0.94783 0.00046	14.10 0.95106 0.00045
13.00 0.95236 0.00045	13.40 0.95271 0.00046	14.20 0.95564 0.00046
13.10 0.95718 0.00046	13.50 0.95702 0.00047	14.30 0.95970 0.00046

13.20 0.96050 0.00045	13.60 0.96098 0.00045	14.40 0.96397 0.00046
13.30 0.96518 0.00046	13.70 0.96516 0.00045	14.50 0.96740 0.00048
13.40 0.96961 0.00046	13.80 0.97039 0.00047	14.60 0.97145 0.00045
13.50 0.97324 0.00045	13.90 0.97399 0.00046	14.70 0.97522 0.00046
13.60 0.97853 0.00046	14.00 0.97803 0.00046	14.80 0.97997 0.00045
13.70 0.98224 0.00045	14.10 0.98256 0.00046	14.90 0.98291 0.00047
13.80 0.98669 0.00047	14.20 0.98626 0.00046	15.00 0.98683 0.00046
13.90 0.99081 0.00046	14.30 0.99014 0.00046	15.10 0.99069 0.00046
14.00 0.99485 0.00047	14.40 0.99377 0.00048	15.20 0.99528 0.00047
14.10 0.99981 0.00047	14.50 0.99788 0.00047	15.30 0.99867 0.00046
14.20 1.00342 0.00047	14.60 1.00232 0.00045	15.40 1.00262 0.00047
14.30 1.00711 0.00047	14.70 1.00592 0.00046	15.50 1.00532 0.00047
14.40 1.01179 0.00046	14.80 1.01034 0.00046	15.60 1.00959 0.00046
14.50 1.01575 0.00048	14.90 1.01459 0.00046	15.70 1.01221 0.00047
14.60 1.01897 0.00046		15.80 1.01727 0.00047

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12	15	20
28.70 0.93842 0.00029	22.40 0.92512 0.00034	18.80 0.92422 0.00039
29.20 0.94394 0.00028	22.60 0.92920 0.00034	18.90 0.92898 0.00039
29.70 0.94918 0.00027	22.80 0.93304 0.00034	19.00 0.93083 0.00039
30.20 0.95470 0.00027	23.00 0.93709 0.00034	19.10 0.93401 0.00038
30.70 0.95939 0.00028	23.20 0.94039 0.00035	19.20 0.93725 0.00039
31.20 0.96411 0.00027	23.40 0.94473 0.00033	19.30 0.93941 0.00039
31.70 0.96877 0.00027	23.60 0.94896 0.00034	19.40 0.94230 0.00038
32.20 0.97272 0.00028	23.80 0.95204 0.00033	19.50 0.94615 0.00039
32.70 0.97679 0.00027	24.00 0.95654 0.00033	19.60 0.94932 0.00038
33.20 0.98154 0.00027	24.20 0.95885 0.00034	19.70 0.95170 0.00039
33.70 0.98514 0.00027	24.40 0.96323 0.00033	19.80 0.95511 0.00039
34.20 0.98870 0.00026	24.60 0.96734 0.00033	19.90 0.95757 0.00040
34.70 0.99351 0.00027	24.80 0.97068 0.00033	20.00 0.96002 0.00039
35.20 0.99663 0.00026	25.00 0.97399 0.00033	20.10 0.96322 0.00038
35.70 0.99997 0.00025	25.20 0.97647 0.00033	20.20 0.96531 0.00038
36.20 1.00324 0.00026	25.40 0.98054 0.00034	20.30 0.96868 0.00038
36.70 1.00694 0.00026	25.60 0.98264 0.00033	20.40 0.97067 0.00037
37.20 1.00941 0.00026	25.80 0.98649 0.00033	20.50 0.97338 0.00038
37.70 1.01283 0.00026	26.00 0.98944 0.00033	20.60 0.97612 0.00037
	26.20 0.99207 0.00032	20.70 0.97956 0.00038
	26.40 0.99543 0.00031	20.80 0.98175 0.00038
	26.60 0.99908 0.00032	20.90 0.98414 0.00037
	26.80 1.00114 0.00032	21.00 0.98675 0.00037
	27.00 1.00386 0.00032	21.10 0.98942 0.00039
	27.20 1.00720 0.00032	21.20 0.99142 0.00037
	27.40 1.00913 0.00032	21.30 0.99487 0.00038
	27.60 1.01229 0.00032	21.40 0.99764 0.00037
	27.70 1.01382 0.00032	21.50 0.99948 0.00038
		21.60 1.00196 0.00038
		21.70 1.00373 0.00038
		21.90 1.00874 0.00040
		22.00 1.01063 0.00036
		22.10 1.01332 0.00037
		22.20 1.01583 0.00037
		22.30 1.01891 0.00037

25	30	32
17.00 0.92190 0.00041	16.00 0.92092 0.00046	15.80 0.92382 0.00045
17.10 0.92553 0.00043	16.10 0.92388 0.00044	15.90 0.92782 0.00045
17.20 0.92860 0.00042	16.20 0.92777 0.00045	16.00 0.93247 0.00045
17.30 0.93280 0.00042	16.30 0.93356 0.00044	16.10 0.93675 0.00046
17.40 0.93730 0.00042	16.40 0.93640 0.00045	16.20 0.94221 0.00045
17.50 0.94073 0.00042	16.50 0.94226 0.00045	16.30 0.94701 0.00045
17.60 0.94308 0.00040	16.60 0.94562 0.00045	16.40 0.95070 0.00044
17.70 0.94728 0.00042	16.70 0.94971 0.00043	16.50 0.95470 0.00046
18.30 0.96912 0.00040	16.80 0.95467 0.00044	16.60 0.96005 0.00043

18.40 0.97217 0.00042	16.90 0.95738 0.00044	16.70 0.96391 0.00046
18.50 0.97523 0.00041	17.00 0.96195 0.00043	16.80 0.96797 0.00046
18.60 0.97918 0.00041	17.10 0.96725 0.00044	16.90 0.97183 0.00045
18.70 0.98264 0.00041	17.20 0.97070 0.00043	17.00 0.97598 0.00046
18.80 0.98523 0.00042	17.30 0.97407 0.00045	17.10 0.97912 0.00045
18.90 0.98934 0.00042	17.40 0.97885 0.00044	17.20 0.98325 0.00045
19.00 0.99258 0.00042	17.50 0.98196 0.00044	17.30 0.98795 0.00044
19.10 0.99616 0.00042	17.60 0.98675 0.00043	17.40 0.99231 0.00045
19.20 0.99811 0.00041	17.70 0.99007 0.00044	17.50 0.99527 0.00043
19.30 1.00162 0.00041	17.80 0.99338 0.00044	17.60 0.99981 0.00044
19.40 1.00500 0.00042	17.90 0.99721 0.00044	17.70 1.00411 0.00045
19.50 1.00826 0.00040	18.00 1.00089 0.00044	17.80 1.00716 0.00045
19.60 1.01106 0.00041	18.10 1.00426 0.00045	17.90 1.01092 0.00046
19.70 1.01412 0.00041	18.20 1.00776 0.00045	18.00 1.01488 0.00045
19.80 1.01816 0.00041	18.30 1.01216 0.00044	18.10 1.01890 0.00045
	18.40 1.01453 0.00046	
	18.50 1.01871 0.00043	

35	40	50
15.40 0.92180 0.00047	14.90 0.91866 0.00048	14.40 0.92197 0.00049
15.50 0.92547 0.00046	15.00 0.92378 0.00047	14.50 0.92752 0.00050
16.00 0.94986 0.00046	15.10 0.92794 0.00047	14.70 0.93832 0.00049
16.10 0.95432 0.00047	15.20 0.93403 0.00046	14.80 0.94342 0.00048
16.20 0.95865 0.00046	15.30 0.93826 0.00048	14.90 0.94869 0.00048
16.30 0.96278 0.00045	15.40 0.94424 0.00048	15.00 0.95310 0.00049
16.40 0.96707 0.00046	15.50 0.94878 0.00049	15.10 0.95862 0.00049
16.50 0.97111 0.00045	15.60 0.95322 0.00047	15.20 0.96453 0.00049
16.60 0.97651 0.00046	15.70 0.95810 0.00046	15.30 0.96933 0.00049
16.70 0.98054 0.00046	15.80 0.96363 0.00046	15.40 0.97442 0.00048
16.80 0.98626 0.00045	15.90 0.96780 0.00047	15.50 0.98005 0.00049
17.00 0.99371 0.00046	16.00 0.97223 0.00048	15.60 0.98411 0.00049
17.10 0.99815 0.00045	16.10 0.97762 0.00046	15.70 0.98891 0.00047
17.20 1.00082 0.00045	16.20 0.98158 0.00048	15.80 0.99322 0.00048
17.30 1.00536 0.00044	16.30 0.98667 0.00047	15.90 0.99956 0.00048
17.40 1.00959 0.00046	16.80 1.00728 0.00047	16.00 1.00397 0.00049
17.50 1.01400 0.00046	17.10 1.01960 0.00046	16.10 1.00801 0.00048
17.60 1.01705 0.00046		16.20 1.01290 0.00049
17.70 1.02152 0.00046		16.30 1.01712 0.00047
		16.40 1.02208 0.00048

60	70	80
14.00 0.91793 0.00049	13.90 0.92217 0.00051	13.80 0.92327 0.00052
14.10 0.92344 0.00048	14.00 0.92750 0.00051	13.90 0.92969 0.00051
14.20 0.92941 0.00051	14.10 0.93369 0.00050	14.00 0.93515 0.00051
14.30 0.93456 0.00048	14.20 0.94040 0.00051	14.20 0.94678 0.00050
14.40 0.94084 0.00051	14.30 0.94534 0.00051	14.30 0.95226 0.00051
14.50 0.94587 0.00049	14.40 0.95024 0.00051	14.40 0.95928 0.00051

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14.60 0.95084 0.00049	14.50 0.95679 0.00051	14.50 0.96339 0.00051
14.70 0.95524 0.00050	14.60 0.96153 0.00050	14.60 0.96847 0.00051
15.00 0.97277 0.00050	14.70 0.96767 0.00052	14.70 0.97467 0.00051
15.10 0.97740 0.00051	14.80 0.97236 0.00052	14.80 0.97985 0.00052
15.20 0.98394 0.00049	14.90 0.97714 0.00048	14.90 0.98609 0.00051
15.30 0.98790 0.00049	15.00 0.98445 0.00049	15.00 0.99190 0.00052
15.40 0.99331 0.00050	15.10 0.98800 0.00051	15.10 0.99637 0.00052
15.50 0.99807 0.00050	15.20 0.99408 0.00050	15.20 1.00127 0.00051
15.60 1.00224 0.00052	15.30 0.99915 0.00051	15.30 1.00719 0.00050
15.70 1.00920 0.00050	15.40 1.00436 0.00051	15.40 1.01141 0.00052
15.80 1.01329 0.00050	15.50 1.00931 0.00052	15.50 1.01586 0.00051
15.90 1.01801 0.00051	15.60 1.01375 0.00051	15.60 1.02219 0.00050
	15.70 1.01872 0.00051	

90	100	120
13.70 0.92154 0.00050	13.60 0.91778 0.00051	13.60 0.91898 0.00052
13.80 0.92833 0.00051	13.70 0.92423 0.00053	13.70 0.92424 0.00050
13.90 0.93331 0.00050	13.90 0.93602 0.00053	13.80 0.93129 0.00053
14.00 0.93935 0.00050	14.00 0.94248 0.00051	13.90 0.93644 0.00052
14.10 0.94425 0.00051	14.10 0.94865 0.00052	14.00 0.94210 0.00053
14.20 0.95146 0.00052	14.20 0.95534 0.00052	14.10 0.94825 0.00052
14.30 0.95695 0.00050	14.30 0.95969 0.00052	14.20 0.95395 0.00052
14.40 0.96333 0.00051	14.40 0.96625 0.00052	14.30 0.95972 0.00052
14.50 0.96756 0.00052	14.50 0.97112 0.00052	14.40 0.96547 0.00052
14.60 0.97322 0.00053	14.60 0.97682 0.00053	14.50 0.97063 0.00052
14.70 0.97930 0.00050	14.70 0.98233 0.00051	14.70 0.98149 0.00052
14.80 0.98479 0.00051	14.80 0.98840 0.00051	14.80 0.98682 0.00052
14.90 0.99139 0.00051	14.90 0.99292 0.00052	14.90 0.99140 0.00051
15.00 0.99593 0.00051	15.00 0.99784 0.00051	15.00 0.99750 0.00051
15.50 1.02190 0.00050	15.10 1.00355 0.00052	15.10 1.00291 0.00051
	15.20 1.00871 0.00053	15.20 1.00894 0.00053
	15.30 1.01420 0.00052	15.30 1.01348 0.00052

130	150	200
13.60 0.91831 0.00051	13.60 0.91534 0.00051	13.80 0.91727 0.00052
13.70 0.92331 0.00051	13.70 0.92171 0.00054	13.90 0.92247 0.00052
13.80 0.93103 0.00051	13.80 0.92751 0.00051	14.00 0.92829 0.00053
13.90 0.93533 0.00053	13.90 0.93418 0.00051	14.10 0.93535 0.00051
14.00 0.94159 0.00051	14.00 0.93995 0.00052	14.20 0.93998 0.00051
14.10 0.94734 0.00051	14.10 0.94467 0.00052	14.30 0.94485 0.00052
14.20 0.95411 0.00053	14.20 0.95263 0.00051	14.40 0.95094 0.00052
14.30 0.95932 0.00052	14.30 0.95583 0.00053	14.50 0.95661 0.00050
14.40 0.96443 0.00053	14.40 0.96222 0.00052	14.60 0.96348 0.00051
14.50 0.97103 0.00054	14.50 0.96873 0.00054	14.70 0.96767 0.00052
14.80 0.98743 0.00053	14.60 0.97340 0.00053	14.80 0.97309 0.00052
14.90 0.99247 0.00051	14.70 0.97980 0.00052	14.90 0.97872 0.00052
15.00 0.99825 0.00051	14.80 0.98383 0.00053	15.00 0.98455 0.00051

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15.10 1.00299 0.00051	14.90 0.99011 0.00054	15.10 0.98911 0.00053
15.20 1.00697 0.00053	15.10 1.00153 0.00053	15.20 0.99390 0.00051
15.30 1.01335 0.00052	15.20 1.00529 0.00052	15.30 0.99814 0.00052
15.40 1.01837 0.00052	15.40 1.01516 0.00052	15.40 1.00480 0.00052
15.50 1.02377 0.00051	15.50 1.02055 0.00053	15.50 1.00952 0.00052
15.60 1.02819 0.00051		15.60 1.01468 0.00053
15.70 1.03290 0.00052		15.70 1.01950 0.00052
15.80 1.03843 0.00052		15.80 1.02530 0.00051
15.90 1.04193 0.00050		15.90 1.02939 0.00052
16.00 1.04751 0.00052		16.00 1.03484 0.00052
16.10 1.05333 0.00052		

239	250	359
14.00 0.91899 0.00051	14.00 0.91649 0.00052	14.50 0.92145 0.00050
14.05 0.92289 0.00051	14.10 0.92284 0.00051	14.60 0.92630 0.00050
14.10 0.92550 0.00051	14.20 0.92856 0.00051	14.70 0.93150 0.00051
14.15 0.92771 0.00051	14.30 0.93469 0.00052	14.80 0.93705 0.00050
14.20 0.93036 0.00052	14.40 0.93959 0.00051	14.90 0.94237 0.00052
14.25 0.93361 0.00052	14.50 0.94589 0.00051	15.00 0.94708 0.00050
14.30 0.93594 0.00053	14.60 0.95109 0.00051	15.10 0.95173 0.00052
14.35 0.93870 0.00052	14.70 0.95606 0.00050	15.20 0.95725 0.00051
14.40 0.94283 0.00052	14.80 0.96126 0.00053	15.30 0.96277 0.00051
14.45 0.94537 0.00051	14.90 0.96598 0.00051	15.40 0.96766 0.00053
14.55 0.95073 0.00051	15.00 0.97107 0.00053	15.50 0.97265 0.00050
14.60 0.95236 0.00052	15.10 0.97666 0.00052	15.60 0.97787 0.00050
14.65 0.95572 0.00051	15.20 0.98204 0.00050	15.70 0.98287 0.00050
14.70 0.95877 0.00051	15.30 0.98668 0.00050	15.80 0.98722 0.00051
14.75 0.96034 0.00051	15.40 0.99269 0.00052	15.90 0.99286 0.00051
14.80 0.96445 0.00052	15.50 0.99773 0.00053	16.00 0.99669 0.00052
14.85 0.96652 0.00052	15.60 1.00152 0.00051	16.10 1.00111 0.00052
14.90 0.96942 0.00052	15.70 1.00785 0.00052	16.20 1.00528 0.00050
14.95 0.97201 0.00052	15.80 1.01201 0.00050	16.30 1.01123 0.00052
15.00 0.97450 0.00052	15.90 1.01702 0.00052	
15.05 0.97665 0.00053	16.00 1.02085 0.00052	
15.10 0.97993 0.00050	16.10 1.02636 0.00053	
15.15 0.98199 0.00052	16.20 1.02972 0.00051	
15.20 0.98318 0.00052	16.30 1.03475 0.00049	
15.25 0.98685 0.00052	16.40 1.04003 0.00050	
15.30 0.99017 0.00052	16.50 1.04445 0.00050	
15.35 0.99319 0.00051	16.60 1.04898 0.00052	
15.40 0.99459 0.00051	16.70 1.05360 0.00053	
15.45 0.99788 0.00053	16.80 1.05731 0.00053	
15.50 0.99882 0.00053		
15.55 1.00158 0.00052		
15.60 1.00482 0.00052		
15.65 1.00638 0.00051		
15.70 1.01024 0.00052		

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16.70 0.97775 0.00049	17.00 0.97783 0.00049	17.30 0.97482 0.00051
16.80 0.98206 0.00050	17.10 0.98308 0.00050	17.40 0.97894 0.00049
16.90 0.98734 0.00050	17.20 0.98778 0.00050	17.50 0.98399 0.00049
17.00 0.99129 0.00049	17.30 0.99125 0.00051	17.60 0.98833 0.00050
17.10 0.99553 0.00050	17.40 0.99598 0.00049	17.70 0.99198 0.00049
17.20 0.99942 0.00049	17.50 1.00058 0.00050	17.80 0.99584 0.00048
17.30 1.00428 0.00049	17.60 1.00373 0.00050	17.90 1.00013 0.00049
17.40 1.00784 0.00050	17.70 1.00890 0.00050	18.00 1.00538 0.00048
17.50 1.01271 0.00050	17.80 1.01296 0.00051	18.10 1.00765 0.00050
17.60 1.01682 0.00050	17.90 1.01681 0.00049	18.20 1.01333 0.00050
17.70 1.02212 0.00050	18.00 1.02086 0.00051	18.30 1.01794 0.00048
		18.40 1.02174 0.00050
		18.50 1.02464 0.00051
		18.60 1.02857 0.00050
		18.70 1.03353 0.00050
		18.80 1.03773 0.00051
		18.90 1.04108 0.00048
		19.00 1.04506 0.00050
		19.10 1.04939 0.00048
		19.20 1.05267 0.00049
		19.30 1.05688 0.00050
		19.40 1.06094 0.00050
		19.50 1.06381 0.00052

760	765	770
16.20 0.91924 0.00050	16.30 0.92158 0.00049	16.30 0.91875 0.00048
16.30 0.92473 0.00049	16.40 0.92678 0.00048	16.40 0.92486 0.00050
16.40 0.92829 0.00049	16.50 0.93065 0.00049	16.50 0.92867 0.00050
16.50 0.93383 0.00049	16.60 0.93559 0.00048	16.60 0.93353 0.00049
16.60 0.93912 0.00050	16.70 0.94079 0.00049	16.70 0.93834 0.00049
16.70 0.94275 0.00049	16.80 0.94587 0.00048	16.80 0.94322 0.00049
16.80 0.94772 0.00049	16.90 0.94986 0.00050	16.90 0.94827 0.00050
16.90 0.95255 0.00049	17.00 0.95462 0.00050	17.00 0.95217 0.00048
17.00 0.95773 0.00049	17.10 0.95920 0.00049	17.10 0.95632 0.00048
17.10 0.96153 0.00049	17.20 0.96369 0.00048	17.20 0.96173 0.00048
17.20 0.96677 0.00050	17.30 0.96816 0.00051	17.30 0.96533 0.00049
17.30 0.97107 0.00048	17.40 0.97316 0.00050	17.40 0.97018 0.00051
17.40 0.97591 0.00049	17.50 0.97658 0.00051	17.50 0.97434 0.00048
17.50 0.97952 0.00049	17.60 0.98183 0.00050	17.60 0.97875 0.00050
17.60 0.98381 0.00048	17.70 0.98556 0.00050	17.70 0.98429 0.00048
17.70 0.98820 0.00049	17.80 0.98985 0.00048	17.80 0.98780 0.00048
17.80 0.99173 0.00049	17.90 0.99458 0.00050	17.90 0.99230 0.00050
17.90 0.99694 0.00049	18.00 0.99833 0.00049	18.00 0.99709 0.00049
18.00 1.00151 0.00050	18.10 1.00304 0.00050	18.10 1.00024 0.00049
18.10 1.00563 0.00048	18.20 1.00663 0.00050	18.20 1.00441 0.00049
18.20 1.00864 0.00048	18.30 1.01098 0.00049	18.30 1.00932 0.00050
18.30 1.01379 0.00050	18.50 1.01864 0.00050	18.50 1.01750 0.00049
18.40 1.01714 0.00049	18.60 1.02395 0.00049	18.60 1.02152 0.00048
18.50 1.02247 0.00050		

775 0

16.30	0.91744	0.00049
16.40	0.92236	0.00050
16.50	0.92640	0.00048
16.60	0.93157	0.00049
16.70	0.93657	0.00050
16.80	0.94137	0.00049
16.90	0.94574	0.00050
17.00	0.95109	0.00049
17.10	0.95557	0.00049
17.20	0.95977	0.00050
17.30	0.96329	0.00050
17.40	0.96899	0.00051
17.60	0.97763	0.00049
17.70	0.98127	0.00050
17.80	0.98641	0.00048
17.90	0.99127	0.00050
18.00	0.99555	0.00048
18.10	0.99882	0.00049
18.20	1.00275	0.00050
18.30	1.00697	0.00049
18.40	1.01204	0.00050
18.50	1.01610	0.00049

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12	15	20
27.20	0.93869	0.00028
27.70	0.94474	0.00028
28.20	0.94947	0.00029
28.70	0.95553	0.00027
29.20	0.95954	0.00026
29.70	0.96498	0.00027
30.20	0.96931	0.00027
30.70	0.97393	0.00028
31.20	0.97821	0.00027
31.70	0.98236	0.00026
32.20	0.98566	0.00025
32.70	0.98993	0.00026
33.20	0.99379	0.00027
33.70	0.99715	0.00026
34.20	1.00098	0.00025
34.70	1.00388	0.00026
35.20	1.00734	0.00026
35.70	1.01036	0.00024
36.20	1.01414	0.00025
20.90	0.92620	0.00033
21.10	0.93062	0.00032
21.30	0.93481	0.00032
21.50	0.93940	0.00033
21.70	0.94345	0.00032
21.90	0.94630	0.00033
22.10	0.95059	0.00033
22.30	0.95402	0.00032
22.50	0.95751	0.00032
22.70	0.96144	0.00032
22.90	0.96455	0.00034
23.10	0.96761	0.00032
23.30	0.97145	0.00031
23.50	0.97467	0.00032
23.70	0.97845	0.00031
23.90	0.98139	0.00032
24.10	0.98422	0.00032
24.30	0.98752	0.00033
24.50	0.99099	0.00032
24.70	0.99291	0.00032
17.20	0.92490	0.00038
17.30	0.92751	0.00039
17.40	0.93009	0.00038
17.50	0.93341	0.00038
17.60	0.93686	0.00038
17.70	0.93987	0.00038
17.80	0.94218	0.00038
17.90	0.94507	0.00037
18.00	0.94864	0.00037
18.10	0.95165	0.00037
18.20	0.95384	0.00038
18.30	0.95705	0.00038
18.40	0.96057	0.00039
18.50	0.96253	0.00037
18.60	0.96552	0.00037
18.70	0.96810	0.00038
18.80	0.97138	0.00037
18.90	0.97283	0.00037
19.00	0.97662	0.00037
19.10	0.97851	0.00038

24.90	0.99678	0.00031	19.20	0.98169	0.00038
25.10	0.99971	0.00031	19.30	0.98461	0.00037
25.30	1.00197	0.00032	19.40	0.98628	0.00037
25.50	1.00477	0.00031	19.50	0.98889	0.00036
25.70	1.00768	0.00031	19.60	0.99194	0.00037
25.90	1.01070	0.00031	19.70	0.99327	0.00037
26.10	1.01391	0.00031	19.80	0.99662	0.00036
26.20	1.01527	0.00030	19.90	0.99874	0.00037
			20.00	1.00168	0.00036
			20.10	1.00395	0.00036
			20.20	1.00662	0.00036
			20.30	1.00817	0.00037
			20.40	1.01073	0.00036
			20.50	1.01303	0.00036
			20.60	1.01523	0.00035
			20.70	1.01777	0.00036

25	30	32						
15.50	0.92397	0.00040	14.50	0.92383	0.00043	14.20	0.92302	0.00043
15.60	0.92837	0.00040	14.60	0.92767	0.00042	14.30	0.92852	0.00042
15.70	0.93146	0.00042	14.70	0.93293	0.00043	14.40	0.93219	0.00043
15.80	0.93602	0.00040	14.80	0.93666	0.00042	14.50	0.93639	0.00043
15.90	0.93923	0.00040	14.90	0.94187	0.00043	14.60	0.94184	0.00045
16.60	0.96497	0.00040	15.00	0.94492	0.00042	14.70	0.94556	0.00043
16.70	0.96874	0.00040	15.10	0.94890	0.00042	14.80	0.95059	0.00044
16.80	0.97202	0.00039	15.20	0.95309	0.00043	14.90	0.95540	0.00043
16.90	0.97483	0.00040	15.30	0.95729	0.00043	15.00	0.95937	0.00043
17.00	0.97878	0.00040	15.40	0.96101	0.00042	15.10	0.96321	0.00042
17.10	0.98206	0.00041	15.50	0.96578	0.00043	15.20	0.96697	0.00043
17.20	0.98506	0.00040	15.60	0.97029	0.00043	15.30	0.97080	0.00044
17.30	0.98882	0.00040	15.70	0.97416	0.00041	15.40	0.97444	0.00044
17.40	0.99259	0.00040	15.80	0.97805	0.00043	15.50	0.97970	0.00043
17.50	0.99564	0.00041	15.90	0.98159	0.00044	15.60	0.98375	0.00043
17.60	0.99864	0.00039	16.00	0.98542	0.00042	15.70	0.98763	0.00044
17.70	1.00095	0.00040	16.10	0.98908	0.00043	15.80	0.99122	0.00044
17.80	1.00448	0.00040	16.20	0.99325	0.00042	15.90	0.99562	0.00043
17.90	1.00793	0.00039	16.30	0.99619	0.00042	16.10	1.00342	0.00042
18.00	1.01139	0.00039	16.40	1.00060	0.00042	16.20	1.00652	0.00043
18.10	1.01348	0.00038	16.50	1.00452	0.00043	16.30	1.01074	0.00043
18.20	1.01626	0.00040	16.60	1.00751	0.00043	16.40	1.01503	0.00043
			16.70	1.01121	0.00042			
			16.80	1.01499	0.00042			
			16.90	1.01881	0.00042			

35	40	50
14.10 0.93500 0.00044	13.30 0.91765 0.00045	12.80 0.92151 0.00047
14.20 0.94004 0.00045	13.40 0.92333 0.00045	12.90 0.92723 0.00047
14.30 0.94521 0.00046	13.50 0.92815 0.00046	13.00 0.93326 0.00047
14.40 0.94893 0.00045	13.60 0.93394 0.00046	13.10 0.93777 0.00048
14.50 0.95370 0.00045	13.70 0.93781 0.00045	13.20 0.94426 0.00047
14.60 0.95813 0.00044	13.80 0.94353 0.00045	13.30 0.94891 0.00048
14.70 0.96265 0.00046	13.90 0.94940 0.00045	13.40 0.95415 0.00047
14.80 0.96762 0.00045	14.00 0.95376 0.00046	13.50 0.96033 0.00047
14.90 0.97239 0.00044	14.10 0.95760 0.00047	13.60 0.96421 0.00048
15.00 0.97477 0.00044	14.20 0.96296 0.00045	13.70 0.96974 0.00046
15.10 0.98037 0.00045	14.30 0.96767 0.00044	13.80 0.97423 0.00048
15.20 0.98352 0.00044	14.80 0.99033 0.00046	13.90 0.97831 0.00049
15.30 0.98889 0.00044	15.10 1.00349 0.00045	14.10 0.98958 0.00048
15.40 0.99221 0.00045	15.20 1.00737 0.00046	14.20 0.99443 0.00046
15.50 0.99625 0.00043	15.30 1.01146 0.00045	14.30 0.99829 0.00048
15.60 1.00079 0.00046	15.50 1.02002 0.00045	14.40 1.00373 0.00046
15.70 1.00564 0.00044		14.50 1.00838 0.00047
15.80 1.00863 0.00045		14.60 1.01366 0.00047
15.90 1.01340 0.00043		14.70 1.01716 0.00048
16.00 1.01726 0.00045		
16.10 1.02045 0.00043		

60	70	80
12.50 0.92260 0.00048	12.30 0.92270 0.00049	12.10 0.91860 0.00050
12.60 0.92894 0.00047	12.40 0.92824 0.00049	12.20 0.92481 0.00050
12.70 0.93495 0.00047	12.50 0.93477 0.00049	12.30 0.93138 0.00049
12.80 0.94072 0.00048	12.60 0.94089 0.00048	12.40 0.93636 0.00048
13.10 0.95762 0.00048	12.70 0.94615 0.00049	12.50 0.94224 0.00050
13.20 0.96300 0.00048	12.80 0.95130 0.00048	12.60 0.94729 0.00048
13.30 0.96780 0.00047	12.90 0.95811 0.00050	12.70 0.95402 0.00050
13.40 0.97346 0.00047	13.00 0.96273 0.00049	12.80 0.95888 0.00049
13.50 0.97792 0.00049	13.10 0.96724 0.00050	12.90 0.96490 0.00047
13.60 0.98293 0.00049	13.20 0.97354 0.00048	13.00 0.97105 0.00049
13.70 0.98828 0.00049	13.30 0.97996 0.00048	13.10 0.97609 0.00049
13.80 0.99362 0.00049	13.40 0.98364 0.00049	13.20 0.98088 0.00049
13.90 0.99870 0.00047	13.50 0.99009 0.00049	13.30 0.98705 0.00049
14.00 1.00527 0.00049	13.60 0.99408 0.00050	13.40 0.99192 0.00049
14.10 1.00909 0.00049	13.70 1.00079 0.00049	13.50 0.99874 0.00051
14.20 1.01391 0.00047	13.80 1.00521 0.00049	13.60 1.00245 0.00049
14.30 1.01883 0.00047	13.90 1.01015 0.00047	13.70 1.00771 0.00051
	14.00 1.01553 0.00049	13.80 1.01336 0.00049
	14.10 1.01994 0.00048	13.90 1.01821 0.00051

90	100	120
12.10 0.92269 0.00050	12.00 0.92063 0.00051	12.00 0.92012 0.00050
12.20 0.92876 0.00049	12.10 0.92681 0.00049	12.10 0.92688 0.00051
12.30 0.93620 0.00049	12.20 0.93162 0.00050	12.20 0.93296 0.00048
12.40 0.94156 0.00050	12.30 0.93835 0.00051	12.30 0.93848 0.00048
12.50 0.94711 0.00048	12.40 0.94350 0.00050	12.40 0.94532 0.00051
12.60 0.95298 0.00050	12.50 0.95010 0.00051	12.50 0.95216 0.00050
12.70 0.96021 0.00050	12.60 0.95545 0.00051	12.60 0.95642 0.00051
12.80 0.96438 0.00050	12.70 0.96112 0.00050	12.70 0.96246 0.00050
12.90 0.97029 0.00051	12.80 0.96706 0.00050	12.80 0.96836 0.00051
13.40 0.99658 0.00050	12.90 0.97255 0.00050	12.90 0.97359 0.00051
13.50 1.00221 0.00049	13.00 0.97783 0.00049	13.00 0.97887 0.00050
13.60 1.00733 0.00050	13.10 0.98388 0.00050	13.10 0.98427 0.00050
13.70 1.01352 0.00050	13.20 0.98904 0.00051	13.20 0.99095 0.00050
13.80 1.01790 0.00050	13.30 0.99470 0.00051	13.30 0.99535 0.00051
	13.40 0.99955 0.00051	13.40 0.99961 0.00051
	13.50 1.00562 0.00049	13.50 1.00456 0.00051
	13.60 1.01092 0.00051	13.60 1.01065 0.00050
	13.70 1.01567 0.00050	13.70 1.01634 0.00049
	13.80 1.02020 0.00050	13.80 1.02104 0.00050

130	150	200
12.00 0.92176 0.00050	12.00 0.91928 0.00051	12.20 0.92137 0.00052
12.10 0.92720 0.00049	12.05 0.92200 0.00052	12.30 0.92830 0.00049
12.20 0.93261 0.00051	12.10 0.92489 0.00049	12.40 0.93319 0.00050
12.30 0.93778 0.00049	12.15 0.92771 0.00050	12.50 0.93837 0.00049
12.40 0.94500 0.00050	12.20 0.93145 0.00049	12.60 0.94499 0.00050
12.50 0.95127 0.00050	12.25 0.93371 0.00050	12.70 0.94910 0.00050
12.60 0.95733 0.00052	12.30 0.93688 0.00050	12.80 0.95527 0.00050
12.70 0.96237 0.00049	12.35 0.93920 0.00050	12.90 0.96094 0.00052
12.80 0.96861 0.00050	12.45 0.94627 0.00052	13.00 0.96672 0.00050
12.90 0.97307 0.00051	12.50 0.94836 0.00051	13.10 0.97186 0.00052
13.00 0.97948 0.00051	12.55 0.95215 0.00050	13.20 0.97713 0.00052
13.10 0.98558 0.00049	12.60 0.95312 0.00050	13.30 0.98252 0.00050
13.20 0.98990 0.00050	12.65 0.95721 0.00050	13.40 0.98742 0.00051
13.30 0.99492 0.00050	12.70 0.96110 0.00051	13.50 0.99250 0.00051
13.40 1.00120 0.00050	12.75 0.96222 0.00050	13.60 0.99780 0.00051
13.50 1.00600 0.00051	12.80 0.96517 0.00050	13.70 1.00352 0.00050
13.60 1.01023 0.00050	12.85 0.96798 0.00051	13.80 1.00754 0.00050
13.70 1.01577 0.00050	12.90 0.97109 0.00050	13.90 1.01310 0.00052
13.80 1.02002 0.00051	12.95 0.97333 0.00050	14.00 1.01934 0.00050
	13.00 0.97624 0.00051	
	13.05 0.97895 0.00050	
	13.10 0.98216 0.00051	
	13.15 0.98600 0.00051	
	13.20 0.98716 0.00050	
	13.25 0.98927 0.00049	
	13.30 0.99170 0.00050	
	13.35 0.99639 0.00051	

13.40 0.99734 0.00051
 13.45 1.00036 0.00051
 13.50 1.00333 0.00051
 13.55 1.00655 0.00050
 13.60 1.00865 0.00051
 13.65 1.01014 0.00050
 13.70 1.01288 0.00051

239	250	359
12.30 0.91915 0.00050	12.40 0.92209 0.00050	12.80 0.92156 0.00049
12.40 0.92492 0.00049	12.50 0.92771 0.00051	12.90 0.92617 0.00052
12.50 0.93076 0.00051	12.60 0.93425 0.00050	13.00 0.93249 0.00051
12.60 0.93709 0.00050	12.70 0.93811 0.00049	13.10 0.93702 0.00050
12.70 0.94215 0.00051	12.90 0.95101 0.00050	13.20 0.94379 0.00051
12.80 0.94768 0.00050	13.00 0.95489 0.00051	13.30 0.94743 0.00051
12.90 0.95206 0.00049	13.10 0.96095 0.00050	13.40 0.95281 0.00051
13.00 0.95808 0.00051	13.20 0.96610 0.00050	13.50 0.95822 0.00052
13.10 0.96320 0.00051	13.30 0.97130 0.00050	13.60 0.96247 0.00050
13.20 0.96850 0.00051	13.40 0.97645 0.00051	13.70 0.96778 0.00051
13.30 0.97418 0.00051	13.50 0.98184 0.00050	14.00 0.98341 0.00049
13.40 0.97937 0.00051	13.60 0.98702 0.00051	14.10 0.98736 0.00050
13.50 0.98463 0.00051	13.70 0.99193 0.00052	14.20 0.99139 0.00050
13.60 0.98939 0.00050	13.80 0.99633 0.00049	14.30 0.99674 0.00051
13.70 0.99488 0.00050	13.90 1.00120 0.00049	14.50 1.00690 0.00052
13.80 0.99923 0.00049	14.00 1.00585 0.00051	14.60 1.01063 0.00051
13.90 1.00411 0.00050	14.10 1.01165 0.00050	14.70 1.01485 0.00049
14.00 1.00901 0.00050	14.20 1.01609 0.00051	14.80 1.01895 0.00049
14.10 1.01311 0.00052		
14.20 1.01826 0.00050		
14.30 1.02297 0.00052		
14.40 1.02866 0.00050		
14.50 1.03178 0.00051		
14.60 1.03710 0.00050		
14.70 1.04176 0.00051		
14.80 1.04607 0.00051		
14.90 1.05099 0.00050		
15.00 1.05555 0.00050		
15.10 1.05909 0.00049		
15.20 1.06491 0.00052		
15.30 1.06802 0.00051		

478	500	600
13.10 0.91749 0.00052	13.20 0.91934 0.00049	13.40 0.91208 0.00048
13.30 0.92798 0.00049	13.30 0.92455 0.00048	13.50 0.91726 0.00049
13.40 0.93461 0.00051	13.40 0.92949 0.00050	13.60 0.92133 0.00049
13.50 0.93853 0.00051	13.50 0.93502 0.00050	13.70 0.92623 0.00049
13.70 0.94790 0.00048	13.60 0.93901 0.00051	13.80 0.93171 0.00050

13.80 0.95309 0.00051	13.80 0.95106 0.00049	13.90 0.93751 0.00048
13.90 0.95737 0.00050	13.90 0.95355 0.00050	14.00 0.94217 0.00051
14.00 0.96323 0.00051	14.00 0.96039 0.00049	14.10 0.94538 0.00050
14.10 0.96747 0.00051	14.10 0.96389 0.00050	14.20 0.95163 0.00050
14.20 0.97248 0.00049	14.20 0.96910 0.00049	14.30 0.95585 0.00050
14.30 0.97784 0.00050	14.30 0.97308 0.00050	14.40 0.96012 0.00052
14.40 0.98267 0.00050	14.40 0.97878 0.00049	14.50 0.96508 0.00050
14.50 0.98618 0.00050	14.50 0.98230 0.00051	14.60 0.97107 0.00051
14.60 0.99069 0.00050	14.60 0.98748 0.00051	14.70 0.97387 0.00049
14.70 0.99554 0.00051	14.70 0.99294 0.00049	14.80 0.97933 0.00048
14.80 1.00103 0.00050	14.80 0.99641 0.00050	14.90 0.98396 0.00048
14.90 1.00618 0.00050	14.90 1.00165 0.00049	15.00 0.98848 0.00051
15.00 1.00895 0.00049	15.00 1.00677 0.00050	15.10 0.99340 0.00051
15.10 1.01417 0.00049	15.10 1.01012 0.00049	15.20 0.99817 0.00048
15.20 1.01712 0.00049	15.20 1.01373 0.00050	15.30 1.00183 0.00051
	15.30 1.01862 0.00051	15.40 1.00668 0.00049
		15.50 1.01046 0.00050
		15.60 1.01515 0.00049
		15.70 1.01903 0.00049

650	700	750
13.80 0.92270 0.00049	14.00 0.91930 0.00049	14.30 0.91752 0.00049
13.90 0.92634 0.00050	14.10 0.92420 0.00049	14.40 0.92265 0.00048
14.00 0.93252 0.00049	14.20 0.92848 0.00050	14.50 0.92851 0.00050
14.10 0.93827 0.00049	14.30 0.93510 0.00048	14.60 0.93222 0.00050
14.20 0.94233 0.00050	14.40 0.93900 0.00049	14.70 0.93654 0.00048
14.30 0.94711 0.00049	14.50 0.94405 0.00048	14.80 0.94150 0.00048
14.40 0.95139 0.00050	14.60 0.94840 0.00050	14.90 0.94604 0.00050
14.50 0.95569 0.00049	14.70 0.95244 0.00050	15.10 0.95592 0.00048
14.60 0.96098 0.00050	14.80 0.95782 0.00047	15.20 0.96035 0.00050
14.70 0.96534 0.00049	14.90 0.96333 0.00048	15.30 0.96487 0.00050
14.80 0.96974 0.00049	15.00 0.96735 0.00050	15.40 0.96877 0.00049
14.90 0.97489 0.00050	15.10 0.97065 0.00048	15.50 0.97273 0.00050
15.00 0.97960 0.00049	15.20 0.97514 0.00050	15.60 0.97836 0.00050
15.10 0.98344 0.00051	15.30 0.98010 0.00050	15.70 0.98183 0.00049
15.20 0.98847 0.00048	15.40 0.98499 0.00050	15.80 0.98676 0.00049
15.30 0.99186 0.00049	15.50 0.98903 0.00049	15.90 0.99045 0.00048
15.40 0.99681 0.00048	15.60 0.99321 0.00050	16.00 0.99610 0.00051
15.50 1.00074 0.00049	15.70 0.99810 0.00048	16.10 0.99942 0.00049
15.60 1.00482 0.00050	15.80 1.00161 0.00049	16.20 1.00353 0.00050
15.70 1.00952 0.00049	15.90 1.00657 0.00051	16.30 1.00737 0.00049
15.80 1.01510 0.00051	16.00 1.01132 0.00050	16.40 1.01177 0.00048
	16.10 1.01361 0.00049	16.50 1.01609 0.00049
	16.20 1.01883 0.00048	

760	765	770
14.40 0.91866 0.00050	14.50 0.92187 0.00048	14.50 0.91935 0.00048
14.50 0.92365 0.00049	14.60 0.92683 0.00049	14.60 0.92469 0.00050
14.60 0.92878 0.00049	14.70 0.93122 0.00049	14.80 0.93333 0.00050
14.70 0.93246 0.00050	14.80 0.93667 0.00049	14.90 0.93755 0.00048
14.80 0.93729 0.00050	14.90 0.94096 0.00050	15.00 0.94282 0.00049
14.90 0.94195 0.00050	15.00 0.94486 0.00049	15.10 0.94721 0.00048
15.00 0.94739 0.00050	15.10 0.94997 0.00049	15.20 0.95129 0.00049
15.10 0.95200 0.00049	15.20 0.95548 0.00048	15.30 0.95557 0.00049
15.20 0.95716 0.00050	15.30 0.95893 0.00049	15.40 0.96072 0.00048
15.30 0.96116 0.00049	15.40 0.96360 0.00051	15.50 0.96513 0.00051
15.40 0.96601 0.00049	15.50 0.96910 0.00048	15.60 0.96994 0.00048
15.50 0.96977 0.00048	15.60 0.97210 0.00048	15.70 0.97473 0.00048
15.60 0.97429 0.00048	15.70 0.97691 0.00049	15.80 0.97853 0.00049
15.70 0.97845 0.00050	15.80 0.98112 0.00049	15.90 0.98309 0.00049
15.80 0.98283 0.00047	15.90 0.98551 0.00050	16.00 0.98733 0.00050
15.90 0.98700 0.00050	16.00 0.98851 0.00048	16.10 0.99111 0.00048
16.00 0.99117 0.00050	16.10 0.99413 0.00051	16.20 0.99541 0.00048
16.10 0.99564 0.00051	16.20 0.99766 0.00049	16.30 0.99984 0.00049
16.20 1.00035 0.00050	16.30 1.00245 0.00048	16.40 1.00429 0.00048
16.30 1.00440 0.00049	16.40 1.00626 0.00050	16.50 1.00910 0.00048
16.40 1.00795 0.00050	16.50 1.01099 0.00048	16.60 1.01187 0.00050
16.50 1.01222 0.00051	16.60 1.01439 0.00051	16.70 1.01609 0.00048
16.60 1.01648 0.00049	16.70 1.01892 0.00050	16.80 1.02002 0.00049
16.70 1.02088 0.00049		16.90 1.02444 0.00049
		17.00 1.02805 0.00049
		17.10 1.03232 0.00049

775	0
14.50 0.91777 0.00049	
14.60 0.92298 0.00047	
14.70 0.92649 0.00048	
14.80 0.93259 0.00048	
14.90 0.93764 0.00048	
15.00 0.94139 0.00048	
15.10 0.94536 0.00049	
15.20 0.95108 0.00049	
15.30 0.95473 0.00048	
15.40 0.96049 0.00048	
15.50 0.96420 0.00050	
15.60 0.96886 0.00049	
15.70 0.97277 0.00050	
15.80 0.97713 0.00049	
15.90 0.98176 0.00048	
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16.20 0.99525 0.00048	
16.30 0.99887 0.00050	
16.40 1.00252 0.00049	
16.50 1.00808 0.00049	
16.60 1.01101 0.00049	
16.70 1.01534 0.00050	

15.60 0.97404 0.00038	14.10 0.96169 0.00040	13.80 0.96237 0.00040
15.70 0.97728 0.00038	14.20 0.96564 0.00040	13.90 0.96656 0.00040
15.80 0.98044 0.00039	14.30 0.96911 0.00039	14.00 0.97105 0.00041
15.90 0.98461 0.00038	14.40 0.97402 0.00041	14.10 0.97504 0.00042
16.00 0.98741 0.00038	14.50 0.97778 0.00041	14.20 0.97904 0.00041
16.10 0.99149 0.00037	14.60 0.98066 0.00040	14.30 0.98305 0.00041
16.20 0.99457 0.00038	14.70 0.98501 0.00041	14.40 0.98706 0.00040
16.30 0.99748 0.00037	14.80 0.98919 0.00040	14.50 0.99122 0.00041
16.40 1.00060 0.00038	14.90 0.99327 0.00040	14.60 0.99539 0.00042
16.50 1.00360 0.00037	15.00 0.99666 0.00039	14.70 0.99859 0.00040
16.60 1.00709 0.00038	15.10 1.00023 0.00040	14.80 1.00324 0.00040
16.70 1.01064 0.00038	15.20 1.00375 0.00039	14.90 1.00636 0.00040
16.80 1.01389 0.00038	15.30 1.00706 0.00040	15.00 1.01016 0.00041
16.90 1.01715 0.00038	15.40 1.01074 0.00040	15.10 1.01432 0.00040
	15.50 1.01490 0.00040	15.20 1.01792 0.00039
	15.60 1.01748 0.00040	

35	40	50
12.50 0.92022 0.00043	12.10 0.92312 0.00042	11.50 0.92479 0.00044
13.00 0.94422 0.00041	12.20 0.92858 0.00042	11.60 0.92935 0.00044
13.10 0.94925 0.00041	12.30 0.93516 0.00042	11.80 0.94183 0.00044
13.20 0.95393 0.00041	12.40 0.93990 0.00041	11.90 0.94667 0.00045
13.30 0.95790 0.00042	12.50 0.94437 0.00043	12.00 0.95191 0.00044
13.40 0.96312 0.00042	12.60 0.95014 0.00042	12.10 0.95746 0.00043
13.50 0.96723 0.00041	12.70 0.95387 0.00042	12.20 0.96270 0.00045
13.60 0.97268 0.00041	12.80 0.95871 0.00042	12.30 0.96788 0.00043
13.70 0.97584 0.00041	12.90 0.96386 0.00042	12.40 0.97271 0.00044
13.90 0.98489 0.00041	13.00 0.96882 0.00041	12.50 0.97756 0.00044
14.00 0.99020 0.00041	13.10 0.97250 0.00044	12.60 0.98283 0.00045
14.10 0.99394 0.00042	13.20 0.97771 0.00041	12.70 0.98712 0.00044
14.20 0.99657 0.00042	13.30 0.98223 0.00043	12.80 0.99256 0.00044
14.30 1.00130 0.00041	13.80 1.00492 0.00043	12.90 0.99706 0.00044
14.40 1.00631 0.00041	14.10 1.01833 0.00043	13.00 1.00208 0.00044
14.50 1.00972 0.00041		13.10 1.00669 0.00043
14.60 1.01327 0.00040		13.20 1.01158 0.00044
14.70 1.01822 0.00042		13.30 1.01690 0.00044

60	70	80
11.10 0.92244 0.00046	10.80 0.91766 0.00045	10.70 0.92181 0.00045
11.20 0.92879 0.00044	10.90 0.92395 0.00045	10.80 0.92749 0.00045
11.30 0.93424 0.00045	11.00 0.92971 0.00045	10.90 0.93392 0.00046
11.40 0.93986 0.00044	11.10 0.93575 0.00044	11.00 0.93932 0.00046
11.50 0.94489 0.00043	11.20 0.94189 0.00045	11.10 0.94600 0.00046
11.60 0.95142 0.00044	11.30 0.94670 0.00045	11.20 0.95187 0.00047
11.70 0.95675 0.00044	11.40 0.95346 0.00045	11.40 0.96284 0.00046
11.80 0.96231 0.00044	11.50 0.95912 0.00045	11.50 0.96929 0.00046
11.90 0.96861 0.00046	11.60 0.96429 0.00045	11.60 0.97395 0.00046

12.00 0.97280 0.00045	11.70 0.96967 0.00046	11.70 0.98008 0.00046
12.30 0.98843 0.00044	11.80 0.97478 0.00046	11.80 0.98505 0.00046
12.40 0.99480 0.00045	11.90 0.98122 0.00044	11.90 0.99011 0.00046
12.50 0.99823 0.00046	12.00 0.98630 0.00045	12.00 0.99617 0.00045
12.60 1.00460 0.00045	12.10 0.99201 0.00045	12.10 1.00093 0.00046
12.70 1.00853 0.00045	12.20 0.99631 0.00046	12.30 1.01289 0.00046
12.80 1.01345 0.00044	12.30 1.00227 0.00045	12.40 1.01716 0.00046
12.90 1.01887 0.00045	12.40 1.00710 0.00045	12.50 1.02282 0.00046
	12.50 1.01176 0.00045	
	12.60 1.01874 0.00045	
	12.70 1.02264 0.00045	

90	100	120
10.50 0.91500 0.00046	10.50 0.91999 0.00048	10.40 0.91839 0.00047
10.60 0.92220 0.00045	10.55 0.92435 0.00046	10.45 0.92107 0.00047
10.70 0.92867 0.00046	10.60 0.92752 0.00047	10.50 0.92366 0.00045
10.80 0.93406 0.00046	10.65 0.92965 0.00046	10.55 0.92729 0.00047
10.90 0.93982 0.00046	10.70 0.93265 0.00047	10.60 0.93109 0.00045
11.00 0.94710 0.00046	10.75 0.93496 0.00046	10.65 0.93331 0.00046
11.10 0.95161 0.00046	10.80 0.93903 0.00046	10.70 0.93628 0.00046
11.20 0.95835 0.00045	10.85 0.94178 0.00046	10.75 0.94028 0.00046
11.30 0.96390 0.00046	10.90 0.94502 0.00046	10.80 0.94192 0.00046
11.40 0.96974 0.00044	10.95 0.94775 0.00047	10.85 0.94504 0.00046
11.50 0.97486 0.00046	11.00 0.94974 0.00046	10.90 0.94862 0.00046
11.60 0.98110 0.00047	11.05 0.95361 0.00047	10.95 0.95080 0.00047
11.70 0.98490 0.00046	11.10 0.95619 0.00047	11.00 0.95468 0.00047
11.80 0.99188 0.00047	11.15 0.95881 0.00044	11.05 0.95695 0.00045
11.90 0.99655 0.00047	11.20 0.96351 0.00047	11.10 0.96031 0.00046
12.30 1.01772 0.00047	11.25 0.96492 0.00047	11.15 0.96313 0.00045
12.40 1.02347 0.00046	11.35 0.97104 0.00045	11.20 0.96574 0.00047
	11.40 0.97374 0.00046	11.25 0.96846 0.00047
	11.50 0.97892 0.00045	11.30 0.97017 0.00047
	11.55 0.98252 0.00046	11.35 0.97492 0.00049
	11.60 0.98514 0.00046	11.40 0.97837 0.00047
	11.65 0.98722 0.00047	11.45 0.97888 0.00047
	11.70 0.99066 0.00047	11.50 0.98297 0.00046
	11.75 0.99370 0.00046	11.55 0.98671 0.00048
	11.80 0.99640 0.00046	11.60 0.98899 0.00046
	11.90 1.00153 0.00047	11.65 0.99149 0.00047
	11.95 1.00467 0.00047	11.70 0.99368 0.00046
	12.00 1.00684 0.00047	11.75 0.99623 0.00046
	12.05 1.00956 0.00045	11.80 0.99955 0.00047
	12.10 1.01224 0.00048	11.85 1.00243 0.00046
	12.15 1.01379 0.00047	11.90 1.00380 0.00046
	12.20 1.01662 0.00046	11.95 1.00754 0.00047
		12.00 1.00978 0.00047
		12.05 1.01224 0.00047
		12.10 1.01477 0.00047

130	150	200
10.40 0.91962 0.00047	10.50 0.92729 0.00046	10.40 0.91563 0.00046
10.50 0.92580 0.00046	10.60 0.93157 0.00046	10.50 0.92185 0.00047
10.60 0.93112 0.00045	10.70 0.93845 0.00046	10.60 0.92754 0.00046
10.70 0.93812 0.00047	10.80 0.94342 0.00045	10.70 0.93416 0.00046
10.80 0.94334 0.00047	10.90 0.94961 0.00047	10.80 0.93971 0.00045
10.90 0.94995 0.00048	11.00 0.95634 0.00045	10.90 0.94533 0.00049
11.00 0.95630 0.00045	11.10 0.96232 0.00046	11.00 0.95103 0.00047
11.10 0.96206 0.00048	11.20 0.96808 0.00046	11.10 0.95591 0.00047
11.20 0.96702 0.00047	11.30 0.97293 0.00047	11.20 0.96248 0.00047
11.30 0.97339 0.00046	11.40 0.97808 0.00047	11.30 0.96708 0.00047
11.40 0.97791 0.00047	11.50 0.98367 0.00048	11.40 0.97274 0.00047
11.50 0.98312 0.00047	11.60 0.98905 0.00046	11.50 0.97757 0.00047
11.60 0.98857 0.00047	11.70 0.99469 0.00045	11.60 0.98471 0.00048
11.70 0.99531 0.00047	11.80 0.99996 0.00047	11.70 0.98945 0.00048
11.80 1.00080 0.00047	11.90 1.00532 0.00046	11.80 0.99470 0.00047
11.90 1.00555 0.00046	12.00 1.01104 0.00047	11.90 1.00019 0.00047
12.00 1.01080 0.00046	12.10 1.01534 0.00046	12.10 1.00975 0.00047
12.10 1.01631 0.00045	12.20 1.02108 0.00047	12.20 1.01457 0.00047
12.20 1.02096 0.00046	12.30 1.02599 0.00046	12.30 1.01881 0.00047
	12.40 1.03153 0.00046	
	12.50 1.03614 0.00046	

239	250	359
10.60 0.92185 0.00047	10.60 0.92051 0.00047	10.90 0.92113 0.00046
10.70 0.92782 0.00045	10.70 0.92633 0.00047	11.00 0.92653 0.00047
10.90 0.93969 0.00047	10.80 0.93162 0.00047	11.10 0.93182 0.00047
11.00 0.94512 0.00045	10.90 0.93785 0.00048	11.20 0.93684 0.00046
11.10 0.95077 0.00047	11.00 0.94335 0.00047	11.30 0.94215 0.00047
11.20 0.95684 0.00047	11.10 0.94953 0.00046	11.40 0.94724 0.00046
11.30 0.96134 0.00046	11.20 0.95461 0.00047	11.50 0.95273 0.00046
11.40 0.96690 0.00046	11.30 0.95962 0.00048	11.60 0.95776 0.00045
11.50 0.97236 0.00047	11.40 0.96591 0.00048	11.70 0.96253 0.00047
11.60 0.97832 0.00048	11.50 0.97017 0.00046	11.80 0.96912 0.00048
11.70 0.98214 0.00048	11.60 0.97566 0.00048	11.90 0.97357 0.00048
11.80 0.98837 0.00046	11.70 0.98054 0.00048	12.00 0.97789 0.00048
11.90 0.99301 0.00047	11.80 0.98494 0.00048	12.10 0.98259 0.00046
12.00 0.99858 0.00046	11.90 0.99148 0.00048	12.20 0.98795 0.00048
12.10 1.00412 0.00048	12.00 0.99672 0.00047	12.30 0.99263 0.00045
12.20 1.00923 0.00047	12.10 1.00151 0.00046	12.40 0.99785 0.00048
12.30 1.01371 0.00048	12.20 1.00674 0.00047	12.50 1.00220 0.00047
12.40 1.01813 0.00046	12.30 1.01079 0.00046	12.60 1.00630 0.00045
	12.40 1.01650 0.00047	12.70 1.01145 0.00046
	12.50 1.02094 0.00046	

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478	500	600
11.20 0.92227 0.00046	11.20 0.91883 0.00047	11.50 0.92094 0.00046
11.40 0.93314 0.00047	11.30 0.92470 0.00047	11.60 0.92542 0.00046
11.60 0.94349 0.00047	11.40 0.93005 0.00047	11.70 0.93107 0.00046
11.70 0.94812 0.00047	11.50 0.93357 0.00048	11.80 0.93577 0.00046
11.80 0.95271 0.00047	11.60 0.93870 0.00047	11.90 0.93983 0.00046
11.90 0.95714 0.00047	11.70 0.94487 0.00046	12.00 0.94586 0.00046
12.10 0.96746 0.00046	11.80 0.94864 0.00047	12.10 0.95016 0.00046
12.20 0.97191 0.00046	11.90 0.95467 0.00047	12.30 0.96034 0.00045
12.30 0.97692 0.00045	12.00 0.95970 0.00046	12.40 0.96585 0.00046
12.40 0.98131 0.00047	12.10 0.96454 0.00046	12.50 0.96962 0.00045
12.50 0.98643 0.00046	12.20 0.96939 0.00048	12.60 0.97463 0.00046
12.60 0.99079 0.00046	12.30 0.97342 0.00045	12.70 0.97859 0.00045
12.70 0.99573 0.00047	12.40 0.97831 0.00046	12.80 0.98324 0.00046
12.80 1.00151 0.00047	12.50 0.98278 0.00046	12.90 0.98755 0.00048
12.90 1.00423 0.00048	12.60 0.98743 0.00047	13.00 0.99217 0.00047
13.00 1.00949 0.00047	12.70 0.99216 0.00047	13.10 0.99590 0.00046
	12.80 0.99738 0.00047	13.20 1.00149 0.00048
	12.90 1.00156 0.00047	13.30 1.00611 0.00045
	13.00 1.00654 0.00047	13.40 1.00964 0.00047
	13.10 1.01021 0.00046	13.50 1.01362 0.00046
	13.20 1.01522 0.00047	
	13.30 1.01875 0.00046	

650			700			750		
11.70	0.92262	0.00047	11.90	0.92255	0.00047	12.10	0.92004	0.00046
11.80	0.92688	0.00046	12.00	0.92749	0.00047	12.20	0.92475	0.00045
11.90	0.93303	0.00046	12.10	0.93289	0.00045	12.30	0.92899	0.00045
12.00	0.93793	0.00046	12.20	0.93732	0.00047	12.40	0.93453	0.00046
12.10	0.94323	0.00046	12.30	0.94138	0.00045	12.50	0.93789	0.00048
12.20	0.94650	0.00046	12.40	0.94585	0.00047	12.60	0.94374	0.00047
12.30	0.95227	0.00047	12.50	0.95133	0.00047	12.70	0.94783	0.00046
12.40	0.95701	0.00046	12.60	0.95634	0.00048	12.80	0.95321	0.00046
12.50	0.96191	0.00046	12.70	0.96081	0.00046	12.90	0.95686	0.00046
12.60	0.96608	0.00046	12.80	0.96606	0.00046	13.00	0.96193	0.00047
12.70	0.97085	0.00048	12.90	0.97007	0.00046	13.10	0.96648	0.00046
12.80	0.97498	0.00046	13.00	0.97372	0.00046	13.20	0.97048	0.00046
12.90	0.98041	0.00046	13.10	0.97893	0.00046	13.30	0.97504	0.00046
13.00	0.98438	0.00046	13.20	0.98293	0.00046	13.40	0.97896	0.00046
13.10	0.98770	0.00047	13.30	0.98802	0.00045	13.50	0.98339	0.00047
13.20	0.99363	0.00047	13.40	0.99244	0.00047	13.60	0.98787	0.00047
13.30	0.99744	0.00046	13.50	0.99597	0.00046	13.70	0.99157	0.00046
13.40	1.00153	0.00046	13.60	1.00015	0.00046	13.80	0.99682	0.00047
13.50	1.00648	0.00046	13.70	1.00456	0.00047	13.90	1.00086	0.00047
13.60	1.01081	0.00046	13.80	1.00883	0.00045	14.00	1.00449	0.00047
13.70	1.01439	0.00046	13.90	1.01347	0.00047	14.10	1.00874	0.00046
13.80	1.01872	0.00046	14.00	1.01783	0.00047	14.20	1.01337	0.00047
			14.10	1.02140	0.00045	14.30	1.01734	0.00047

760	765	770
12.20 0.92110 0.00046	12.20 0.91937 0.00046	12.30 0.92295 0.00047
12.30 0.92607 0.00047	12.30 0.92375 0.00046	12.40 0.92686 0.00045
12.40 0.93112 0.00046	12.50 0.93332 0.00046	12.50 0.93180 0.00045
12.50 0.93567 0.00046	12.60 0.93825 0.00047	12.60 0.93664 0.00046
12.60 0.94050 0.00045	12.70 0.94415 0.00046	12.70 0.94123 0.00046
12.70 0.94475 0.00047	12.80 0.94836 0.00046	12.80 0.94622 0.00047
12.80 0.94887 0.00046	12.90 0.95253 0.00047	12.90 0.95046 0.00046
12.90 0.95392 0.00046	13.00 0.95646 0.00046	13.00 0.95496 0.00047
13.00 0.95819 0.00046	13.10 0.96157 0.00047	13.10 0.95988 0.00046
13.10 0.96195 0.00047	13.20 0.96577 0.00045	13.20 0.96371 0.00046
13.20 0.96745 0.00046	13.30 0.97048 0.00046	13.30 0.96858 0.00046
13.30 0.97246 0.00047	13.40 0.97461 0.00046	13.40 0.97357 0.00046
13.40 0.97667 0.00045	13.50 0.97847 0.00045	13.50 0.97697 0.00047
13.50 0.98014 0.00046	13.60 0.98310 0.00048	13.60 0.98150 0.00047
13.60 0.98478 0.00047	13.70 0.98732 0.00046	13.70 0.98541 0.00047
13.70 0.98998 0.00045	13.80 0.99131 0.00046	13.80 0.98963 0.00048
13.80 0.99338 0.00047	13.90 0.99560 0.00046	13.90 0.99464 0.00047
13.90 0.99695 0.00046	14.00 0.99980 0.00046	14.00 0.99878 0.00047
14.00 1.00225 0.00047	14.10 1.00519 0.00046	14.10 1.00323 0.00045
14.10 1.00652 0.00046	14.20 1.00848 0.00045	14.20 1.00748 0.00045
14.20 1.01000 0.00046	14.30 1.01291 0.00045	14.30 1.01100 0.00047
14.30 1.01361 0.00046	14.40 1.01629 0.00046	14.40 1.01431 0.00047
14.40 1.01787 0.00047		

775	0
12.30 0.92105 0.00046	
12.40 0.92574 0.00046	
12.50 0.93062 0.00047	
12.60 0.93503 0.00045	
12.70 0.94031 0.00046	
12.80 0.94551 0.00047	
12.90 0.94929 0.00046	
13.00 0.95368 0.00046	
13.10 0.95741 0.00046	
13.20 0.96339 0.00047	
13.30 0.96787 0.00046	
13.40 0.97166 0.00048	
13.50 0.97595 0.00046	
13.60 0.97947 0.00046	
13.70 0.98518 0.00046	
13.80 0.98865 0.00045	
13.90 0.99320 0.00047	
14.00 0.99755 0.00045	
14.10 1.00109 0.00047	
14.20 1.00568 0.00046	
14.30 1.00979 0.00046	
14.40 1.01355 0.00046	
14.50 1.01759 0.00046	

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12	15	20
22.90 0.92555 0.00031	19.30 0.92277 0.00036	16.70 0.92402 0.00041
23.20 0.93048 0.00032	19.50 0.92842 0.00037	16.80 0.92715 0.00041
23.50 0.93566 0.00031	19.70 0.93394 0.00036	16.90 0.93092 0.00041
23.80 0.94113 0.00032	19.90 0.93916 0.00036	17.00 0.93495 0.00041
24.10 0.94581 0.00031	20.10 0.94469 0.00034	17.10 0.93842 0.00041
24.40 0.95090 0.00030	20.30 0.95016 0.00035	17.20 0.94304 0.00040
24.70 0.95583 0.00031	20.50 0.95418 0.00036	17.30 0.94586 0.00040
25.00 0.96015 0.00031	20.70 0.95911 0.00035	17.40 0.94971 0.00041
25.30 0.96473 0.00031	20.90 0.96397 0.00036	17.50 0.95367 0.00040
25.60 0.96909 0.00030	21.10 0.96883 0.00034	17.60 0.95721 0.00041
25.90 0.97329 0.00030	21.30 0.97323 0.00035	17.70 0.96058 0.00041
26.20 0.97656 0.00030	21.50 0.97695 0.00035	17.80 0.96308 0.00041
26.80 0.98556 0.00029	21.70 0.98129 0.00035	17.90 0.96718 0.00040
27.10 0.98895 0.00030	21.90 0.98499 0.00034	18.00 0.97054 0.00040
27.40 0.99383 0.00028	22.10 0.98972 0.00035	18.10 0.97384 0.00041
27.70 0.99702 0.00029	22.30 0.99424 0.00035	18.20 0.97598 0.00040
28.00 1.00022 0.00029	22.50 0.99798 0.00034	18.30 0.97924 0.00039
28.30 1.00373 0.00030	22.70 1.00219 0.00035	18.40 0.98349 0.00039
28.60 1.00655 0.00029	22.90 1.00635 0.00034	18.50 0.98678 0.00040
28.90 1.01083 0.00029	23.10 1.01042 0.00034	18.60 0.98934 0.00039
29.20 1.01308 0.00029	23.30 1.01379 0.00034	18.70 0.99187 0.00039
	23.40 1.01601 0.00035	18.90 0.99858 0.00038
		19.00 1.00192 0.00040
		19.10 1.00552 0.00039
		19.20 1.00762 0.00040
		19.30 1.01051 0.00038
		19.40 1.01334 0.00038
		19.50 1.01625 0.00040
25	30	32
15.30 0.92017 0.00043	14.50 0.91864 0.00045	14.30 0.92021 0.00047
15.40 0.92462 0.00043	14.60 0.92344 0.00046	14.40 0.92555 0.00046
15.50 0.92832 0.00044	14.70 0.92935 0.00046	14.50 0.93017 0.00046
15.60 0.93401 0.00044	14.80 0.93374 0.00045	14.60 0.93510 0.00047
15.70 0.93711 0.00043	14.90 0.93915 0.00046	14.70 0.94107 0.00047
15.80 0.94244 0.00045	15.00 0.94411 0.00045	14.80 0.94613 0.00046
15.90 0.94628 0.00045	15.10 0.94812 0.00045	14.90 0.95106 0.00048
16.00 0.95131 0.00043	15.20 0.95407 0.00047	15.00 0.95543 0.00046
16.10 0.95524 0.00042	15.30 0.95830 0.00047	15.10 0.96002 0.00046
16.20 0.95929 0.00044	15.40 0.96308 0.00045	15.20 0.96523 0.00045
16.30 0.96388 0.00043	15.50 0.96810 0.00044	15.30 0.96985 0.00047
16.40 0.96721 0.00044	15.60 0.97197 0.00046	15.40 0.97579 0.00044
16.50 0.97184 0.00043	15.70 0.97644 0.00047	15.50 0.97911 0.00046
16.60 0.97524 0.00043	15.80 0.98063 0.00045	15.60 0.98345 0.00046
16.70 0.98014 0.00043	15.90 0.98528 0.00045	15.70 0.98888 0.00047
16.80 0.98368 0.00042	16.00 0.99019 0.00045	15.80 0.99400 0.00045

16.90 0.98658 0.00043	16.10 0.99372 0.00046	15.90 0.99701 0.00045
17.00 0.99125 0.00043	16.20 0.99788 0.00045	16.00 1.00129 0.00046
17.10 0.99540 0.00042	16.30 1.00295 0.00045	16.10 1.00632 0.00043
17.20 0.99890 0.00043	16.40 1.00605 0.00045	16.20 1.01020 0.00045
17.30 1.00328 0.00044	16.50 1.01203 0.00045	16.30 1.01408 0.00046
17.40 1.00624 0.00044	16.60 1.01481 0.00046	16.40 1.01953 0.00046
17.50 1.00906 0.00043	16.70 1.01908 0.00045	16.50 1.02310 0.00046
17.60 1.01401 0.00043		
17.70 1.01692 0.00043		

35	40	50
14.00 0.91986 0.00047	13.60 0.91666 0.00047	13.20 0.91906 0.00051
14.10 0.92537 0.00047	13.70 0.92262 0.00048	13.30 0.92602 0.00050
14.20 0.93116 0.00047	13.80 0.92777 0.00048	13.40 0.93212 0.00050
14.30 0.93552 0.00047	13.90 0.93341 0.00048	13.50 0.93738 0.00050
14.40 0.94053 0.00048	14.00 0.93945 0.00048	13.60 0.94418 0.00049
14.50 0.94574 0.00047	14.10 0.94498 0.00049	13.70 0.95064 0.00051
14.60 0.95107 0.00047	14.30 0.95620 0.00049	13.80 0.95635 0.00048
14.70 0.95587 0.00047	14.40 0.96118 0.00049	13.90 0.96064 0.00049
14.80 0.96241 0.00046	14.50 0.96644 0.00048	14.00 0.96664 0.00049
15.00 0.97229 0.00045	14.60 0.97276 0.00048	14.10 0.97168 0.00049
15.10 0.97568 0.00046	14.70 0.97695 0.00048	14.20 0.97874 0.00049
15.20 0.98018 0.00047	14.80 0.98078 0.00048	14.30 0.98318 0.00050
15.30 0.98534 0.00048	14.90 0.98654 0.00049	14.40 0.98998 0.00051
15.40 0.99067 0.00046	15.00 0.99188 0.00049	14.50 0.99379 0.00050
15.50 0.99493 0.00047	15.10 0.99762 0.00048	14.60 0.99921 0.00048
15.70 1.00335 0.00046	15.20 1.00181 0.00048	14.70 1.00498 0.00049
15.80 1.00881 0.00047	15.30 1.00680 0.00047	14.80 1.01010 0.00048
15.90 1.01385 0.00046	15.40 1.01108 0.00048	14.90 1.01451 0.00048
16.00 1.01922 0.00046	15.50 1.01681 0.00047	15.00 1.01976 0.00050
	15.60 1.02043 0.00049	

60	70	80
12.90 0.91794 0.00051	12.80 0.92135 0.00052	12.60 0.91543 0.00053
13.00 0.92398 0.00049	12.85 0.92521 0.00052	12.70 0.92165 0.00051
13.10 0.93013 0.00050	12.90 0.92797 0.00051	12.80 0.92800 0.00050
13.20 0.93680 0.00052	12.95 0.93130 0.00051	12.90 0.93385 0.00051
13.30 0.94272 0.00049	13.00 0.93359 0.00051	13.00 0.94235 0.00053
13.40 0.94898 0.00050	13.05 0.93663 0.00052	13.10 0.94642 0.00052
13.50 0.95499 0.00050	13.10 0.94051 0.00051	13.20 0.95260 0.00052
13.60 0.96165 0.00051	13.15 0.94296 0.00049	13.30 0.95885 0.00051
13.70 0.96776 0.00051	13.20 0.94675 0.00052	13.40 0.96610 0.00053
13.80 0.97236 0.00050	13.25 0.95075 0.00052	13.50 0.97086 0.00052
13.90 0.97886 0.00052	13.30 0.95321 0.00051	13.60 0.97724 0.00052
14.00 0.98405 0.00050	13.35 0.95637 0.00052	13.70 0.98311 0.00053
14.10 0.99048 0.00051	13.40 0.95943 0.00052	13.80 0.98936 0.00052
14.20 0.99466 0.00050	13.45 0.96206 0.00051	13.90 0.99446 0.00051

14.30 1.00107 0.00050	13.50 0.96511 0.00051	14.00 1.00025 0.00051
14.40 1.00621 0.00051	13.55 0.96734 0.00050	14.10 1.00558 0.00053
14.50 1.01140 0.00051	13.60 0.97050 0.00051	14.20 1.01080 0.00052
14.60 1.01722 0.00051	13.65 0.97394 0.00051	14.30 1.01669 0.00053
14.70 1.02202 0.00051	13.70 0.97721 0.00051	14.40 1.02123 0.00053
	13.75 0.97911 0.00053	
	13.80 0.98146 0.00052	
	13.85 0.98482 0.00052	
	13.90 0.98926 0.00051	
	13.95 0.99069 0.00050	
	14.00 0.99431 0.00052	
	14.05 0.99715 0.00050	
	14.10 1.00020 0.00052	
	14.15 1.00146 0.00051	
	14.20 1.00493 0.00052	
	14.25 1.00823 0.00052	
	14.30 1.01097 0.00051	
	14.35 1.01313 0.00052	
	14.40 1.01543 0.00053	
	14.45 1.01934 0.00049	
	14.50 1.02049 0.00051	

90	100	120
12.60 0.91939 0.00052	12.60 0.92167 0.00053	12.50 0.91638 0.00054
12.65 0.92290 0.00052	12.65 0.92485 0.00053	12.55 0.92004 0.00053
12.70 0.92595 0.00050	12.70 0.92781 0.00052	12.60 0.92394 0.00052
12.75 0.92909 0.00052	12.75 0.93144 0.00051	12.65 0.92558 0.00053
12.80 0.93286 0.00054	12.80 0.93552 0.00052	12.70 0.92978 0.00053
12.85 0.93537 0.00051	12.85 0.93815 0.00051	12.75 0.93253 0.00052
12.90 0.93784 0.00053	12.90 0.94129 0.00053	12.80 0.93625 0.00052
12.95 0.94218 0.00051	12.95 0.94471 0.00052	12.85 0.93905 0.00051
13.00 0.94410 0.00051	13.00 0.94724 0.00053	12.90 0.94206 0.00052
13.05 0.94772 0.00052	13.05 0.95030 0.00054	12.95 0.94576 0.00053
13.10 0.95199 0.00052	13.10 0.95322 0.00053	13.00 0.94936 0.00053
13.15 0.95476 0.00053	13.15 0.95731 0.00052	13.05 0.95179 0.00051
13.20 0.95678 0.00053	13.20 0.95951 0.00053	13.10 0.95429 0.00054
13.25 0.96017 0.00052	13.25 0.96359 0.00053	13.15 0.95791 0.00053
13.30 0.96280 0.00051	13.30 0.96554 0.00053	13.20 0.96050 0.00052
13.35 0.96731 0.00051	13.35 0.96895 0.00052	13.25 0.96431 0.00052
13.40 0.96905 0.00050	13.40 0.97176 0.00051	13.30 0.96740 0.00053
13.45 0.97239 0.00053	13.45 0.97396 0.00052	13.35 0.96929 0.00054
13.50 0.97443 0.00051	13.50 0.97737 0.00053	13.40 0.97326 0.00051
13.55 0.97804 0.00052	13.55 0.98066 0.00052	13.45 0.97515 0.00053
13.60 0.98126 0.00052	13.60 0.98278 0.00052	13.50 0.97828 0.00052
13.65 0.98412 0.00051	13.65 0.98645 0.00052	13.55 0.98059 0.00053
13.70 0.98596 0.00054	13.70 0.98961 0.00053	13.60 0.98500 0.00053
13.75 0.98998 0.00051	13.75 0.99174 0.00052	13.65 0.98682 0.00052
13.80 0.99390 0.00052	13.80 0.99527 0.00052	13.70 0.98979 0.00052
13.85 0.99516 0.00052	13.85 0.99739 0.00053	13.75 0.99364 0.00052

13.90 0.99815 0.00053	13.90 1.00062 0.00053	13.80 0.99545 0.00054
13.95 1.00064 0.00052	13.95 1.00379 0.00053	13.85 0.99838 0.00053
14.00 1.00446 0.00050	14.00 1.00677 0.00052	13.90 1.00216 0.00052
14.05 1.00720 0.00051	14.05 1.00919 0.00053	13.95 1.00416 0.00052
14.10 1.01081 0.00052	14.10 1.01353 0.00052	14.00 1.00746 0.00053
14.15 1.01439 0.00052	14.15 1.01539 0.00052	14.05 1.01162 0.00052
14.20 1.01537 0.00052	14.20 1.01765 0.00055	14.10 1.01412 0.00053
14.25 1.01900 0.00052	14.25 1.01914 0.00052	14.15 1.01623 0.00053
14.30 1.02095 0.00053	14.30 1.02280 0.00051	14.20 1.01872 0.00052

130	150	200
12.50 0.91801 0.00052	12.50 0.91473 0.00051	12.60 0.91727 0.00053
12.55 0.92010 0.00054	12.60 0.92171 0.00053	12.70 0.92226 0.00052
12.60 0.92397 0.00053	12.70 0.93015 0.00053	12.80 0.92996 0.00053
12.65 0.92750 0.00052	12.80 0.93512 0.00052	12.90 0.93550 0.00053
12.70 0.93064 0.00052	12.90 0.94224 0.00052	13.00 0.94122 0.00052
12.75 0.93304 0.00054	13.00 0.94804 0.00054	13.10 0.94692 0.00052
12.80 0.93762 0.00053	13.10 0.95347 0.00052	13.20 0.95389 0.00052
12.85 0.94008 0.00054	13.20 0.96007 0.00053	13.30 0.95963 0.00053
12.90 0.94372 0.00052	13.30 0.96525 0.00053	13.40 0.96474 0.00053
13.00 0.94935 0.00054	13.40 0.97086 0.00052	13.60 0.97626 0.00052
13.10 0.95553 0.00052	13.50 0.97656 0.00053	13.70 0.98190 0.00052
13.15 0.95848 0.00052	13.60 0.98355 0.00052	13.80 0.98531 0.00053
13.20 0.96078 0.00052	13.70 0.98875 0.00052	13.90 0.99317 0.00054
13.25 0.96478 0.00053	13.80 0.99527 0.00053	14.00 0.99873 0.00054
13.30 0.96671 0.00052	13.90 1.00048 0.00052	14.10 1.00379 0.00053
13.35 0.97126 0.00053	14.00 1.00648 0.00053	14.20 1.01037 0.00052
13.40 0.97263 0.00053	14.10 1.01120 0.00052	14.30 1.01512 0.00053
13.45 0.97662 0.00053	14.20 1.01688 0.00052	14.40 1.01996 0.00053
13.50 0.98014 0.00052	14.30 1.02204 0.00052	
13.55 0.98241 0.00052		
13.60 0.98543 0.00051		
13.65 0.98855 0.00053		
13.70 0.99086 0.00052		
13.75 0.99383 0.00053		
13.80 0.99697 0.00052		
13.85 1.00059 0.00051		
13.90 1.00208 0.00053		
13.95 1.00511 0.00054		
14.00 1.00785 0.00053		
14.05 1.01148 0.00053		
14.10 1.01275 0.00053		
14.15 1.01596 0.00054		
14.20 1.01867 0.00052		

239	250	359
12.70 0.91679 0.00052	12.80 0.92077 0.00053	13.20 0.93097 0.00052
12.80 0.92369 0.00052	12.90 0.92690 0.00052	13.30 0.93504 0.00051
12.90 0.93042 0.00051	13.00 0.93411 0.00053	13.40 0.94004 0.00051
13.00 0.93540 0.00052	13.10 0.93932 0.00053	13.50 0.94638 0.00052
13.10 0.94127 0.00053	13.20 0.94506 0.00052	13.60 0.95252 0.00053
13.20 0.94675 0.00052	13.30 0.95171 0.00052	13.70 0.95798 0.00051
13.30 0.95343 0.00050	13.40 0.95644 0.00052	13.80 0.96300 0.00051
13.40 0.95952 0.00052	13.50 0.96209 0.00052	13.90 0.96799 0.00051
13.50 0.96359 0.00052	13.60 0.96706 0.00051	14.00 0.97389 0.00052
13.60 0.97066 0.00052	13.70 0.97344 0.00052	14.10 0.97915 0.00051
13.70 0.97623 0.00052	13.80 0.97965 0.00052	14.20 0.98466 0.00051
13.80 0.98187 0.00052	13.90 0.98484 0.00052	14.30 0.98844 0.00051
13.90 0.98750 0.00053	14.00 0.99075 0.00050	14.40 0.99359 0.00051
14.00 0.99234 0.00052	14.10 0.99640 0.00051	14.50 0.99913 0.00051
14.10 0.99745 0.00053	14.20 0.99998 0.00052	14.60 1.00431 0.00051
14.20 1.00355 0.00053	14.30 1.00607 0.00051	14.70 1.00917 0.00050
14.30 1.00816 0.00053	14.40 1.01185 0.00051	14.80 1.01380 0.00052
14.40 1.01321 0.00051	14.50 1.01608 0.00052	14.90 1.01898 0.00052
14.50 1.01946 0.00054	14.60 1.02036 0.00053	

478	500	600
13.30 0.91855 0.00051	13.40 0.91929 0.00051	13.90 0.92299 0.00050
13.40 0.92246 0.00052	13.50 0.92477 0.00051	14.00 0.92816 0.00051
13.50 0.92920 0.00051	13.60 0.93066 0.00050	14.10 0.93349 0.00049
13.60 0.93444 0.00051	13.70 0.93622 0.00052	14.20 0.93918 0.00050
13.70 0.93995 0.00049	13.80 0.94167 0.00052	14.30 0.94420 0.00050
13.80 0.94581 0.00051	13.90 0.94652 0.00051	14.40 0.94890 0.00050
13.90 0.95020 0.00051	14.00 0.95314 0.00051	14.50 0.95418 0.00050
14.00 0.95565 0.00050	14.10 0.95664 0.00053	14.60 0.95922 0.00050
14.10 0.96052 0.00050	14.20 0.96231 0.00052	14.70 0.96394 0.00050
14.20 0.96727 0.00052	14.30 0.96769 0.00053	14.80 0.96883 0.00049
14.30 0.97129 0.00050	14.40 0.97380 0.00051	14.90 0.97385 0.00051
14.40 0.97687 0.00050	14.50 0.97717 0.00050	15.00 0.97937 0.00049
14.50 0.98167 0.00051	14.60 0.98332 0.00050	15.10 0.98478 0.00051
14.60 0.98608 0.00051	14.70 0.98753 0.00050	15.20 0.98917 0.00050
14.70 0.99157 0.00050	14.80 0.99204 0.00051	15.30 0.99310 0.00051
14.80 0.99674 0.00051	14.90 0.99801 0.00052	15.40 0.99761 0.00052
14.90 1.00105 0.00050	15.00 1.00255 0.00051	15.50 1.00344 0.00051
15.00 1.00568 0.00052	15.10 1.00753 0.00051	15.60 1.00666 0.00051
15.10 1.01068 0.00051	15.20 1.01142 0.00053	15.70 1.01195 0.00050
15.20 1.01532 0.00050	15.30 1.01658 0.00051	15.80 1.01660 0.00051
15.30 1.02043 0.00050	15.40 1.02049 0.00050	15.90 1.02032 0.00050

650	700	750
14.20 0.91973 0.00050	14.80 0.92254 0.00050	16.30 0.92440 0.00048
14.30 0.92613 0.00049	14.90 0.92723 0.00049	16.40 0.92879 0.00049
14.40 0.93124 0.00050	15.00 0.93240 0.00051	16.50 0.93217 0.00049
14.50 0.93665 0.00049	15.10 0.93745 0.00049	16.60 0.93665 0.00050
14.60 0.94191 0.00051	15.20 0.94245 0.00049	16.70 0.94209 0.00048
14.70 0.94757 0.00051	15.30 0.94773 0.00051	16.80 0.94629 0.00049
14.80 0.95252 0.00051	15.40 0.95138 0.00049	16.90 0.95034 0.00048
14.90 0.95719 0.00050	15.50 0.95644 0.00051	17.00 0.95541 0.00049
15.00 0.96040 0.00049	15.60 0.96130 0.00049	17.10 0.96022 0.00051
15.10 0.96652 0.00051	15.70 0.96597 0.00049	17.20 0.96321 0.00047
15.20 0.97065 0.00050	15.80 0.97221 0.00050	17.30 0.96777 0.00049
15.30 0.97493 0.00051	15.90 0.97501 0.00050	17.40 0.97203 0.00050
15.40 0.98033 0.00049	16.00 0.97956 0.00051	17.50 0.97817 0.00049
15.50 0.98568 0.00050	16.10 0.98431 0.00050	17.60 0.97979 0.00048
15.60 0.99036 0.00051	16.30 0.99350 0.00048	17.70 0.98467 0.00050
15.80 0.99981 0.00050	16.40 0.99808 0.00049	17.80 0.98992 0.00048
15.90 1.00358 0.00051	16.50 1.00300 0.00049	17.90 0.99327 0.00050
16.00 1.00826 0.00050	16.60 1.00667 0.00049	18.00 0.99661 0.00048
16.10 1.01243 0.00051	16.80 1.01547 0.00050	18.10 1.00079 0.00049
16.20 1.01673 0.00052	16.90 1.01903 0.00050	18.20 1.00586 0.00050
		18.30 1.00956 0.00049
		18.40 1.01309 0.00049
		18.50 1.01637 0.00048
		18.60 1.02142 0.00049

752	754	755
16.40 0.91983 0.00048	16.80 0.92557 0.00050	16.90 0.92004 0.00049
16.50 0.92401 0.00049	16.90 0.92949 0.00048	17.00 0.92396 0.00049
16.60 0.92892 0.00047	17.00 0.93535 0.00049	17.10 0.92891 0.00050
16.70 0.93347 0.00050	17.10 0.93898 0.00048	17.20 0.93342 0.00049
16.80 0.93729 0.00049	17.20 0.94470 0.00048	17.30 0.93658 0.00049
16.90 0.94248 0.00049	17.30 0.94856 0.00050	17.40 0.94142 0.00050
17.00 0.94630 0.00049	17.40 0.95325 0.00050	17.50 0.94646 0.00050
17.10 0.95097 0.00049	17.50 0.95754 0.00050	17.60 0.95052 0.00049
17.20 0.95576 0.00049	17.60 0.96094 0.00050	17.70 0.95388 0.00048
17.30 0.96089 0.00050	17.70 0.96509 0.00049	17.80 0.95787 0.00049
17.40 0.96406 0.00049	17.80 0.96878 0.00049	17.90 0.96329 0.00048
17.50 0.96857 0.00050	17.90 0.97394 0.00048	18.00 0.96722 0.00049
17.60 0.97239 0.00049	18.00 0.97828 0.00049	18.10 0.97110 0.00050
17.70 0.97657 0.00050	18.10 0.98170 0.00049	18.20 0.97417 0.00048
17.80 0.98123 0.00049	18.20 0.98531 0.00049	18.30 0.97791 0.00050
17.90 0.98489 0.00049	18.30 0.98891 0.00049	18.40 0.98356 0.00049
18.00 0.98937 0.00048	18.40 0.99350 0.00049	18.50 0.98646 0.00049
18.10 0.99334 0.00049	18.50 0.99799 0.00050	18.60 0.99155 0.00049
18.20 0.99748 0.00049	18.60 1.00148 0.00048	18.70 0.99480 0.00047
18.30 1.00057 0.00049	18.70 1.00578 0.00049	18.80 0.99823 0.00049
18.40 1.00419 0.00051	18.80 1.01023 0.00049	18.90 1.00271 0.00049
18.50 1.00919 0.00049	18.90 1.01452 0.00048	19.00 1.00630 0.00048

18.60	1.01286	0.00050	19.00	1.01719	0.00049	19.10	1.01061	0.00049
18.70	1.01618	0.00049	19.10	1.02124	0.00049	19.20	1.01400	0.00049
18.80	1.02069	0.00048				19.30	1.01800	0.00049

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12	15	20
21.40 0.92490 0.00030	17.80 0.92327 0.00035	15.10 0.92047 0.00040
21.70 0.93106 0.00031	18.00 0.92788 0.00035	15.20 0.92419 0.00040
22.00 0.93564 0.00030	18.20 0.93391 0.00035	15.30 0.92799 0.00039
22.30 0.94179 0.00030	18.40 0.93918 0.00035	15.40 0.93209 0.00038
22.60 0.94623 0.00030	18.60 0.94364 0.00034	15.50 0.93520 0.00039
22.90 0.95098 0.00029	18.80 0.94820 0.00035	15.60 0.93872 0.00038
23.20 0.95581 0.00030	19.00 0.95431 0.00034	15.70 0.94317 0.00039
23.50 0.95979 0.00029	19.20 0.95951 0.00033	15.80 0.94660 0.00040
23.80 0.96489 0.00029	19.40 0.96450 0.00034	16.00 0.95372 0.00039
24.10 0.96916 0.00030	19.60 0.96859 0.00033	16.10 0.95689 0.00039
24.40 0.97350 0.00030	19.80 0.97363 0.00035	16.20 0.96091 0.00039
24.70 0.97796 0.00028	20.00 0.97793 0.00034	16.30 0.96377 0.00039
25.00 0.98184 0.00029	20.20 0.98177 0.00034	16.40 0.96679 0.00040
25.30 0.98585 0.00029	20.40 0.98661 0.00034	16.50 0.97060 0.00040
25.60 0.98971 0.00029	20.60 0.99034 0.00035	16.60 0.97443 0.00038
25.90 0.99289 0.00029	20.80 0.99459 0.00033	16.70 0.97734 0.00038
26.20 0.99768 0.00028	21.00 0.99824 0.00035	16.80 0.98004 0.00038
26.50 1.00006 0.00028	21.20 1.00219 0.00032	16.90 0.98386 0.00038
26.80 1.00364 0.00027	21.40 1.00629 0.00034	17.00 0.98698 0.00038
27.10 1.00736 0.00028	21.60 1.01089 0.00033	17.10 0.99038 0.00038
27.40 1.01029 0.00028	21.80 1.01370 0.00032	17.20 0.99383 0.00037
27.70 1.01391 0.00028		17.30 0.99662 0.00038
27.80 1.01456 0.00028		17.40 0.99928 0.00039
		17.50 1.00126 0.00038
		17.60 1.00445 0.00039
		17.70 1.00826 0.00038
		17.80 1.01160 0.00038
		17.90 1.01453 0.00038
		18.00 1.01793 0.00038
25	30	32
13.80 0.92152 0.00043	13.00 0.92026 0.00044	12.80 0.92103 0.00044
13.90 0.92446 0.00042	13.10 0.92486 0.00043	12.90 0.92641 0.00045
14.00 0.93007 0.00042	13.20 0.92939 0.00044	13.00 0.93129 0.00045
14.10 0.93387 0.00042	13.30 0.93469 0.00044	13.10 0.93708 0.00045
14.20 0.93817 0.00042	13.40 0.93963 0.00044	13.20 0.94131 0.00044
14.30 0.94267 0.00042	13.50 0.94395 0.00043	13.30 0.94712 0.00044
14.40 0.94771 0.00042	13.60 0.94944 0.00044	13.40 0.95244 0.00045
14.50 0.95200 0.00043	13.70 0.95401 0.00043	13.50 0.95644 0.00045
14.60 0.95560 0.00042	13.80 0.95946 0.00044	13.60 0.96158 0.00045
14.70 0.96032 0.00041	13.90 0.96362 0.00044	13.70 0.96545 0.00044
14.80 0.96386 0.00042	14.00 0.96833 0.00043	13.80 0.97139 0.00043
14.90 0.96907 0.00040	14.20 0.97780 0.00044	13.90 0.97587 0.00045
15.00 0.97239 0.00040	14.30 0.98240 0.00043	14.00 0.98025 0.00043
15.10 0.97591 0.00041	14.40 0.98663 0.00043	14.10 0.98568 0.00044
15.20 0.98080 0.00042	14.50 0.99083 0.00043	14.20 0.98891 0.00044

15.30 0.98465 0.00042	14.60 0.99409 0.00044	14.30 0.99378 0.00043
15.40 0.98794 0.00041	14.70 0.99943 0.00043	14.50 1.00287 0.00045
15.50 0.99191 0.00041	14.80 1.00345 0.00044	14.60 1.00723 0.00044
15.60 0.99619 0.00041	14.90 1.00742 0.00043	14.70 1.01179 0.00044
15.70 0.99977 0.00041	15.00 1.01129 0.00045	14.80 1.01579 0.00044
15.80 1.00402 0.00041	15.10 1.01710 0.00045	14.90 1.01985 0.00044
15.90 1.00703 0.00042	15.20 1.02028 0.00044	
16.00 1.01076 0.00041		
16.10 1.01425 0.00041		
16.20 1.01802 0.00040		

35	40	50
12.50 0.92036 0.00045	12.10 0.91819 0.00046	11.70 0.92142 0.00049
12.60 0.92612 0.00046	12.20 0.92428 0.00046	11.80 0.92811 0.00047
12.70 0.93084 0.00044	12.30 0.92948 0.00045	11.90 0.93405 0.00047
12.90 0.94170 0.00046	12.40 0.93535 0.00045	12.00 0.94043 0.00048
13.00 0.94732 0.00044	12.50 0.94033 0.00046	12.10 0.94573 0.00049
13.10 0.95310 0.00045	12.60 0.94521 0.00046	12.20 0.95074 0.00048
13.20 0.95727 0.00046	12.70 0.95165 0.00046	12.30 0.95753 0.00047
13.30 0.96317 0.00045	12.80 0.95703 0.00047	12.40 0.96331 0.00049
13.40 0.96736 0.00046	12.90 0.96287 0.00045	12.50 0.96917 0.00047
13.50 0.97349 0.00045	13.00 0.96773 0.00045	12.60 0.97414 0.00048
13.60 0.97628 0.00045	13.10 0.97361 0.00047	12.70 0.97972 0.00048
13.70 0.98227 0.00046	13.20 0.97767 0.00046	12.80 0.98439 0.00048
13.80 0.98665 0.00045	13.30 0.98354 0.00046	12.90 0.99127 0.00048
14.00 0.99679 0.00046	13.40 0.98829 0.00045	13.00 0.99607 0.00049
14.10 1.00220 0.00044	13.50 0.99455 0.00045	13.10 1.00184 0.00046
14.20 1.00568 0.00045	13.60 0.99821 0.00046	13.20 1.00716 0.00050
14.30 1.01041 0.00045	13.70 1.00333 0.00045	13.30 1.01171 0.00048
14.40 1.01429 0.00045	13.80 1.00885 0.00048	13.40 1.01628 0.00049
14.50 1.01919 0.00045	13.90 1.01224 0.00045	13.50 1.02216 0.00047
	14.00 1.01711 0.00045	

60	70	80
11.40 0.91970 0.00049	11.20 0.91759 0.00051	11.10 0.91777 0.00050
11.45 0.92271 0.00047	11.25 0.92108 0.00050	11.15 0.92032 0.00051
11.50 0.92660 0.00049	11.30 0.92415 0.00051	11.20 0.92455 0.00050
11.55 0.92947 0.00048	11.35 0.92824 0.00050	11.25 0.92796 0.00050
11.60 0.93209 0.00049	11.40 0.92987 0.00050	11.30 0.93140 0.00050
11.65 0.93556 0.00049	11.45 0.93418 0.00049	11.35 0.93391 0.00050
11.70 0.93923 0.00049	11.50 0.93706 0.00049	11.40 0.93818 0.00049
11.75 0.94257 0.00048	11.55 0.93904 0.00048	11.45 0.94177 0.00051
11.80 0.94432 0.00049	11.60 0.94293 0.00049	11.50 0.94366 0.00050
11.85 0.94742 0.00049	11.65 0.94641 0.00049	11.55 0.94649 0.00050
11.90 0.95099 0.00048	11.70 0.94917 0.00049	11.60 0.94978 0.00048
11.95 0.95320 0.00048	11.75 0.95293 0.00049	11.65 0.95298 0.00050
12.00 0.95700 0.00049	11.80 0.95608 0.00049	11.70 0.95748 0.00048

12.05 0.95951 0.00049	11.85 0.95895 0.00048	11.80 0.96231 0.00051
12.10 0.96325 0.00050	11.90 0.96070 0.00050	11.85 0.96495 0.00049
12.15 0.96656 0.00049	11.95 0.96382 0.00050	11.90 0.96758 0.00050
12.20 0.96899 0.00050	12.00 0.96724 0.00048	11.95 0.97101 0.00050
12.25 0.97164 0.00049	12.05 0.97019 0.00049	12.00 0.97357 0.00050
12.30 0.97448 0.00048	12.10 0.97324 0.00048	12.05 0.97805 0.00049
12.35 0.97767 0.00049	12.15 0.97698 0.00050	12.10 0.98004 0.00050
12.40 0.97963 0.00050	12.20 0.97784 0.00049	12.15 0.98269 0.00049
12.45 0.98328 0.00050	12.25 0.98148 0.00049	12.20 0.98542 0.00050
12.50 0.98649 0.00050	12.30 0.98525 0.00049	12.25 0.98922 0.00050
12.55 0.98768 0.00049	12.35 0.98810 0.00050	12.30 0.99180 0.00050
12.60 0.99187 0.00048	12.40 0.99083 0.00048	12.35 0.99465 0.00050
12.65 0.99571 0.00049	12.45 0.99401 0.00048	12.40 0.99814 0.00050
12.70 0.99783 0.00049	12.50 0.99609 0.00051	12.45 1.00032 0.00051
12.75 0.99993 0.00049	12.55 0.99848 0.00051	12.50 1.00278 0.00050
12.80 1.00300 0.00047	12.60 1.00117 0.00051	12.55 1.00591 0.00051
12.85 1.00504 0.00049	12.65 1.00451 0.00050	12.60 1.00846 0.00050
12.90 1.00858 0.00048	12.70 1.00693 0.00048	12.65 1.01148 0.00048
12.95 1.01138 0.00049	12.75 1.01006 0.00048	12.70 1.01302 0.00050
13.00 1.01421 0.00047	12.80 1.01319 0.00048	12.75 1.01624 0.00049
13.05 1.01603 0.00049	12.85 1.01619 0.00050	12.80 1.02010 0.00050
13.10 1.01832 0.00051	12.90 1.01802 0.00051	

90	100	120
11.10 0.92343 0.00050	11.00 0.91842 0.00051	11.00 0.92037 0.00051
11.15 0.92484 0.00049	11.05 0.92137 0.00049	11.05 0.92291 0.00049
11.20 0.92825 0.00051	11.10 0.92444 0.00050	11.10 0.92647 0.00051
11.25 0.93175 0.00052	11.15 0.92828 0.00049	11.15 0.93088 0.00050
11.30 0.93548 0.00051	11.20 0.93187 0.00050	11.20 0.93386 0.00052
11.35 0.93889 0.00051	11.25 0.93524 0.00050	11.25 0.93675 0.00051
11.40 0.94105 0.00049	11.30 0.93826 0.00052	11.30 0.93921 0.00050
11.45 0.94491 0.00050	11.35 0.94127 0.00051	11.35 0.94378 0.00051
11.50 0.94798 0.00051	11.40 0.94450 0.00050	11.40 0.94601 0.00050
11.55 0.95137 0.00049	11.45 0.94707 0.00050	11.45 0.94858 0.00051
11.60 0.95363 0.00050	11.50 0.95010 0.00052	11.50 0.95261 0.00051
11.65 0.95710 0.00049	11.55 0.95380 0.00050	11.55 0.95535 0.00050
11.70 0.96056 0.00050	11.60 0.95795 0.00051	11.60 0.95789 0.00051
11.75 0.96400 0.00051	11.65 0.95985 0.00050	11.65 0.96207 0.00051
11.80 0.96720 0.00050	11.70 0.96253 0.00048	11.70 0.96455 0.00051
11.85 0.97056 0.00050	11.75 0.96589 0.00049	11.75 0.96766 0.00051
11.90 0.97316 0.00050	11.80 0.96890 0.00051	11.80 0.96998 0.00051
11.95 0.97553 0.00049	11.85 0.97174 0.00050	11.85 0.97284 0.00052
12.00 0.97830 0.00051	11.90 0.97497 0.00050	11.90 0.97666 0.00051
12.05 0.98175 0.00049	11.95 0.97916 0.00051	11.95 0.97939 0.00052
12.10 0.98441 0.00051	12.00 0.98236 0.00051	12.00 0.98298 0.00052
12.15 0.98681 0.00049	12.05 0.98378 0.00049	12.05 0.98573 0.00052
12.20 0.98968 0.00050	12.15 0.98948 0.00051	12.10 0.98790 0.00050
12.25 0.99281 0.00050	12.20 0.99339 0.00050	12.15 0.99183 0.00051
12.30 0.99634 0.00051	12.25 0.99641 0.00052	12.20 0.99476 0.00050

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12.35 0.99847 0.00050	12.30 0.99916 0.00052	12.25 0.99730 0.00052
12.40 1.00156 0.00050	12.35 1.00172 0.00050	12.30 1.00017 0.00051
12.45 1.00452 0.00049	12.40 1.00480 0.00051	12.35 1.00386 0.00052
12.50 1.00710 0.00050	12.45 1.00744 0.00051	12.40 1.00641 0.00051
12.55 1.00968 0.00050	12.55 1.01290 0.00050	12.45 1.00877 0.00051
12.60 1.01316 0.00050	12.65 1.01833 0.00050	12.50 1.01070 0.00051
12.65 1.01502 0.00051	12.70 1.02041 0.00051	12.55 1.01420 0.00052
12.70 1.01931 0.00051		12.60 1.01792 0.00052
		12.65 1.01921 0.00050
		12.70 1.02179 0.00052

130	150	200
11.00 0.92113 0.00051	11.00 0.91940 0.00050	11.10 0.92013 0.00052
11.05 0.92450 0.00052	11.05 0.92347 0.00052	11.15 0.92438 0.00050
11.10 0.92871 0.00053	11.10 0.92558 0.00052	11.20 0.92653 0.00051
11.15 0.93109 0.00049	11.15 0.92887 0.00050	11.25 0.93003 0.00050
11.20 0.93421 0.00049	11.20 0.93299 0.00050	11.30 0.93343 0.00051
11.25 0.93688 0.00051	11.25 0.93567 0.00049	11.35 0.93682 0.00050
11.30 0.94036 0.00051	11.30 0.93841 0.00051	11.40 0.93956 0.00051
11.35 0.94427 0.00050	11.35 0.94263 0.00051	11.45 0.94226 0.00051
11.40 0.94701 0.00052	11.40 0.94442 0.00052	11.50 0.94519 0.00050
11.45 0.94998 0.00049	11.45 0.94732 0.00050	11.55 0.94717 0.00051
11.50 0.95310 0.00050	11.50 0.95110 0.00051	11.60 0.95140 0.00051
11.60 0.95919 0.00050	11.55 0.95435 0.00051	11.65 0.95470 0.00050
11.65 0.96264 0.00051	11.60 0.95772 0.00051	11.70 0.95728 0.00050
11.70 0.96567 0.00051	11.65 0.96043 0.00050	11.75 0.95987 0.00051
11.75 0.96760 0.00051	11.70 0.96316 0.00051	11.80 0.96294 0.00051
11.80 0.97181 0.00051	11.75 0.96650 0.00050	11.85 0.96645 0.00049
11.85 0.97432 0.00052	11.80 0.96994 0.00052	11.90 0.97044 0.00050
11.90 0.97863 0.00051	11.85 0.97249 0.00051	11.95 0.97145 0.00051
11.95 0.98008 0.00051	11.90 0.97567 0.00051	12.00 0.97448 0.00052
12.00 0.98216 0.00051	11.95 0.97886 0.00052	12.05 0.97772 0.00051
12.05 0.98519 0.00050	12.05 0.98400 0.00051	12.10 0.98049 0.00053
12.10 0.98837 0.00050	12.10 0.98720 0.00050	12.15 0.98319 0.00052
12.15 0.99073 0.00050	12.15 0.98961 0.00051	12.20 0.98725 0.00051
12.20 0.99449 0.00051	12.20 0.99330 0.00050	12.25 0.98963 0.00052
12.30 0.99945 0.00052	12.25 0.99662 0.00050	12.30 0.99185 0.00052
12.35 1.00378 0.00051	12.30 0.99905 0.00051	12.35 0.99576 0.00051
12.40 1.00656 0.00051	12.35 1.00078 0.00051	12.40 0.99743 0.00051
12.45 1.00913 0.00051	12.40 1.00359 0.00051	12.45 1.00029 0.00051
12.50 1.01207 0.00051	12.45 1.00690 0.00050	12.50 1.00233 0.00051
12.55 1.01375 0.00052	12.50 1.00999 0.00051	12.55 1.00462 0.00051
12.60 1.01778 0.00051	12.55 1.01266 0.00052	12.60 1.00784 0.00052
12.65 1.02043 0.00051	12.60 1.01478 0.00051	12.65 1.01112 0.00051
12.70 1.02220 0.00051	12.65 1.01699 0.00050	12.70 1.01397 0.00052
	12.70 1.02147 0.00051	12.75 1.01728 0.00050
		12.80 1.01860 0.00050

239	250	359
11.20 0.92138 0.00051	11.30 0.92499 0.00052	11.50 0.92224 0.00051
11.25 0.92350 0.00051	11.40 0.93179 0.00051	11.60 0.92678 0.00050
11.30 0.92693 0.00051	11.50 0.93821 0.00051	11.70 0.93399 0.00050
11.35 0.93015 0.00050	11.60 0.94314 0.00052	11.80 0.93908 0.00050
11.40 0.93359 0.00051	11.70 0.95006 0.00050	11.90 0.94579 0.00049
11.45 0.93642 0.00050	11.80 0.95501 0.00051	12.00 0.95037 0.00052
11.50 0.93992 0.00051	11.90 0.96023 0.00052	12.10 0.95617 0.00050
11.55 0.94208 0.00051	12.00 0.96553 0.00051	12.20 0.96215 0.00050
11.60 0.94542 0.00050	12.10 0.97310 0.00050	12.30 0.96669 0.00051
11.65 0.94837 0.00049	12.20 0.97756 0.00051	12.40 0.97241 0.00050
11.70 0.95160 0.00049	12.30 0.98299 0.00049	12.50 0.97748 0.00050
11.75 0.95454 0.00051	12.40 0.98892 0.00052	12.60 0.98222 0.00050
11.80 0.95753 0.00050	12.50 0.99483 0.00052	12.70 0.98804 0.00049
11.85 0.96029 0.00051	12.60 0.99971 0.00050	12.80 0.99297 0.00050
11.90 0.96254 0.00051	12.70 1.00410 0.00050	12.90 0.99746 0.00051
11.95 0.96623 0.00052	12.80 1.01052 0.00051	13.00 1.00250 0.00051
12.00 0.96878 0.00051	12.90 1.01638 0.00051	13.10 1.00909 0.00050
12.05 0.97100 0.00052		13.20 1.01326 0.00050
12.10 0.97426 0.00053		13.30 1.01879 0.00049
12.15 0.97699 0.00051		
12.20 0.97965 0.00049		
12.25 0.98260 0.00050		
12.30 0.98529 0.00051		
12.35 0.98841 0.00052		
12.40 0.99119 0.00051		
12.45 0.99317 0.00050		
12.50 0.99606 0.00051		
12.55 0.99978 0.00052		
12.60 1.00220 0.00052		
12.65 1.00436 0.00052		
12.70 1.00713 0.00051		
12.75 1.00958 0.00050		
12.80 1.01220 0.00051		
12.85 1.01498 0.00050		
12.90 1.01704 0.00050		

478	500	600
11.80 0.92145 0.00050	11.90 0.92340 0.00050	12.30 0.92322 0.00049
11.90 0.92823 0.00051	12.00 0.92830 0.00051	12.40 0.92823 0.00050
12.00 0.93239 0.00050	12.10 0.93446 0.00050	12.50 0.93406 0.00051
12.10 0.93811 0.00050	12.20 0.94002 0.00052	12.60 0.93830 0.00048
12.30 0.94919 0.00050	12.30 0.94614 0.00052	12.70 0.94466 0.00048
12.40 0.95542 0.00049	12.40 0.95040 0.00050	12.80 0.95028 0.00050
12.50 0.96014 0.00050	12.60 0.96132 0.00050	12.90 0.95483 0.00049
12.60 0.96528 0.00050	12.70 0.96641 0.00050	13.00 0.95956 0.00049
12.70 0.97068 0.00052	12.80 0.97228 0.00048	13.10 0.96480 0.00049
12.90 0.98041 0.00050	12.90 0.97598 0.00051	13.20 0.97008 0.00049

13.00 0.98554 0.00049	13.00 0.98091 0.00050	13.30 0.97403 0.00049
13.10 0.99003 0.00049	13.10 0.98665 0.00051	13.40 0.97940 0.00051
13.20 0.99425 0.00050	13.20 0.99149 0.00049	13.50 0.98485 0.00050
13.30 1.00061 0.00050	13.30 0.99594 0.00050	13.60 0.98852 0.00050
13.40 1.00562 0.00050	13.40 1.00170 0.00052	13.70 0.99306 0.00050
13.50 1.00972 0.00050	13.50 1.00550 0.00050	13.80 0.99743 0.00050
13.60 1.01418 0.00051	13.60 1.01046 0.00051	13.90 1.00276 0.00050
	13.70 1.01475 0.00050	14.00 1.00699 0.00051
	13.80 1.01995 0.00050	14.10 1.01177 0.00050
		14.20 1.01631 0.00049
		14.30 1.02101 0.00050

650	700	750
12.60 0.92371 0.00049	13.10 0.92153 0.00050	14.40 0.92217 0.00048
12.70 0.92854 0.00049	13.30 0.93205 0.00048	14.50 0.92783 0.00048
12.80 0.93385 0.00049	13.40 0.93688 0.00049	14.60 0.93101 0.00049
12.90 0.93861 0.00050	13.50 0.94298 0.00049	14.70 0.93578 0.00050
13.00 0.94308 0.00049	13.60 0.94690 0.00048	14.80 0.94144 0.00049
13.10 0.94925 0.00049	13.70 0.95175 0.00050	14.90 0.94480 0.00051
13.20 0.95402 0.00048	13.80 0.95694 0.00048	15.00 0.94985 0.00047
13.30 0.95872 0.00051	13.90 0.96221 0.00050	15.10 0.95443 0.00048
13.40 0.96417 0.00049	14.00 0.96636 0.00048	15.20 0.95781 0.00049
13.50 0.96795 0.00049	14.10 0.97052 0.00048	15.30 0.96284 0.00048
13.60 0.97238 0.00049	14.20 0.97552 0.00048	15.40 0.96669 0.00049
13.70 0.97822 0.00050	14.30 0.97930 0.00048	15.70 0.97954 0.00050
13.80 0.98180 0.00049	14.40 0.98405 0.00050	15.80 0.98437 0.00049
13.90 0.98657 0.00049	14.50 0.98942 0.00049	16.00 0.99181 0.00049
14.00 0.99138 0.00050	14.60 0.99298 0.00050	16.10 0.99612 0.00048
14.10 0.99658 0.00051	14.70 0.99826 0.00047	16.20 0.99996 0.00049
14.20 1.00194 0.00051	14.80 1.00219 0.00049	16.30 1.00390 0.00048
14.30 1.00447 0.00049	14.90 1.00681 0.00050	16.40 1.00792 0.00049
14.40 1.00958 0.00050	15.00 1.00987 0.00049	16.50 1.01187 0.00049
14.50 1.01389 0.00049	15.10 1.01431 0.00049	16.60 1.01579 0.00048
14.60 1.01865 0.00049	15.20 1.01930 0.00050	

752	754	755
14.50 0.91941 0.00049	14.70 0.91864 0.00048	15.10 0.92644 0.00046
14.60 0.92441 0.00049	14.80 0.92278 0.00048	15.20 0.93197 0.00047
14.70 0.92809 0.00048	14.90 0.92702 0.00049	15.30 0.93557 0.00048
14.80 0.93345 0.00050	15.00 0.93223 0.00048	15.40 0.93936 0.00048
14.90 0.93682 0.00049	15.10 0.93583 0.00049	15.50 0.94468 0.00048
15.00 0.94266 0.00050	15.20 0.94104 0.00050	15.60 0.94738 0.00048
15.10 0.94492 0.00049	15.30 0.94520 0.00047	15.70 0.95240 0.00049
15.20 0.95126 0.00049	15.40 0.94864 0.00049	15.80 0.95771 0.00048
15.30 0.95489 0.00048	15.50 0.95350 0.00048	15.90 0.96152 0.00049
15.40 0.95995 0.00049	15.60 0.95814 0.00050	16.00 0.96583 0.00048
15.50 0.96398 0.00048	15.70 0.96271 0.00050	16.10 0.96973 0.00048

15.60 0.96796 0.00048	15.80 0.96635 0.00048	16.20 0.97308 0.00050
15.70 0.97254 0.00048	15.90 0.97046 0.00049	16.30 0.97621 0.00048
15.80 0.97531 0.00048	16.00 0.97523 0.00049	16.40 0.98111 0.00049
15.90 0.98007 0.00050	16.10 0.97825 0.00047	16.50 0.98490 0.00048
16.00 0.98400 0.00048	16.20 0.98337 0.00049	16.60 0.98886 0.00048
16.10 0.98892 0.00049	16.40 0.99108 0.00049	16.70 0.99228 0.00049
16.20 0.99285 0.00049	16.50 0.99499 0.00049	16.80 0.99671 0.00049
16.30 0.99736 0.00050	16.60 0.99893 0.00047	16.90 1.00040 0.00048
16.40 0.99987 0.00049	16.70 1.00224 0.00048	17.00 1.00508 0.00049
16.50 1.00466 0.00050	16.80 1.00652 0.00049	17.10 1.00859 0.00048
16.60 1.00709 0.00047	16.90 1.01029 0.00050	17.20 1.01253 0.00049
16.70 1.01324 0.00049	17.00 1.01407 0.00049	17.30 1.01609 0.00050
16.80 1.01592 0.00049	17.10 1.01749 0.00047	17.40 1.01911 0.00048
16.90 1.02021 0.00050		

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12	15	20
20.30 0.92538 0.00029	16.80 0.92605 0.00033	14.00 0.92070 0.00037
20.60 0.93079 0.00028	17.00 0.93153 0.00033	14.10 0.92486 0.00036
20.90 0.93619 0.00029	17.20 0.93694 0.00032	14.20 0.92890 0.00037
21.20 0.94178 0.00029	17.40 0.94226 0.00032	14.30 0.93287 0.00037
21.50 0.94608 0.00029	17.60 0.94657 0.00033	14.40 0.93689 0.00037
21.80 0.95131 0.00028	17.80 0.95219 0.00032	14.50 0.94030 0.00038
22.10 0.95609 0.00028	18.00 0.95734 0.00032	14.60 0.94476 0.00037
22.40 0.96082 0.00029	18.20 0.96144 0.00033	14.70 0.94735 0.00037
22.70 0.96591 0.00028	18.40 0.96638 0.00033	14.80 0.95060 0.00036
23.00 0.96958 0.00028	18.60 0.96989 0.00033	14.90 0.95465 0.00036
23.30 0.97347 0.00028	18.80 0.97506 0.00032	15.00 0.95796 0.00037
23.60 0.97757 0.00028	19.00 0.98033 0.00032	15.10 0.96252 0.00035
23.90 0.98198 0.00028	19.20 0.98462 0.00033	15.20 0.96529 0.00037
24.20 0.98570 0.00028	19.40 0.98882 0.00031	15.30 0.96872 0.00037
24.50 0.98988 0.00028	19.60 0.99272 0.00031	15.40 0.97173 0.00035
24.80 0.99354 0.00028	19.80 0.99659 0.00032	15.50 0.97551 0.00038
25.10 0.99735 0.00028	20.00 1.00098 0.00031	15.60 0.97848 0.00036
25.40 1.00001 0.00028	20.20 1.00490 0.00032	15.70 0.98152 0.00037
25.70 1.00394 0.00026	20.40 1.00852 0.00032	15.80 0.98481 0.00037
26.00 1.00778 0.00027	20.60 1.01282 0.00032	15.90 0.98805 0.00037
26.30 1.01090 0.00026	20.70 1.01440 0.00031	16.00 0.99116 0.00036
26.50 1.01267 0.00026		16.10 0.99451 0.00036
		16.20 0.99771 0.00035
		16.30 1.00059 0.00035
		16.40 1.00337 0.00035
		16.50 1.00672 0.00036
		16.60 1.00983 0.00037
		16.70 1.01311 0.00037
		16.80 1.01444 0.00036

25	30	32
12.70 0.92198 0.00039	11.90 0.92235 0.00041	11.60 0.91809 0.00042
12.80 0.92649 0.00039	12.00 0.92771 0.00041	11.70 0.92433 0.00042
12.90 0.93145 0.00041	12.10 0.93236 0.00041	11.80 0.92988 0.00042
13.00 0.93596 0.00039	12.20 0.93788 0.00041	11.90 0.93482 0.00041
13.10 0.94085 0.00039	12.30 0.94326 0.00042	12.00 0.93965 0.00040
13.20 0.94486 0.00039	12.40 0.94797 0.00040	12.10 0.94468 0.00041
13.30 0.94938 0.00039	12.50 0.95212 0.00041	12.20 0.95078 0.00042
13.40 0.95373 0.00040	12.60 0.95741 0.00040	12.30 0.95582 0.00041
13.50 0.95748 0.00039	12.70 0.96203 0.00042	12.40 0.95942 0.00042
13.60 0.96256 0.00040	12.80 0.96574 0.00041	12.50 0.96520 0.00042
13.70 0.96665 0.00039	12.90 0.97157 0.00040	12.60 0.96961 0.00042
13.80 0.97021 0.00038	13.00 0.97637 0.00042	12.70 0.97476 0.00042
13.90 0.97409 0.00040	13.10 0.98120 0.00040	12.80 0.97921 0.00041
14.00 0.97888 0.00038	13.20 0.98497 0.00041	12.90 0.98510 0.00041
14.10 0.98238 0.00039	13.30 0.98929 0.00041	13.00 0.98897 0.00041
14.20 0.98702 0.00039	13.40 0.99361 0.00039	13.10 0.99421 0.00041
14.30 0.99055 0.00039	13.50 0.99819 0.00040	13.20 0.99860 0.00042
14.40 0.99462 0.00038	13.60 1.00315 0.00040	13.30 1.00212 0.00041
14.50 0.99823 0.00039	13.70 1.00744 0.00041	13.40 1.00795 0.00042
14.60 1.00237 0.00039	13.80 1.01050 0.00042	13.50 1.01190 0.00041
14.70 1.00592 0.00039	13.90 1.01532 0.00040	13.70 1.02009 0.00040
14.80 1.00877 0.00040	14.00 1.02032 0.00042	
14.90 1.01389 0.00038		
15.00 1.01716 0.00039		

35	40	50
11.30 0.91933 0.00041	10.90 0.91766 0.00043	10.50 0.92317 0.00044
11.40 0.92452 0.00042	11.00 0.92428 0.00043	10.55 0.92664 0.00044
11.50 0.93069 0.00043	11.10 0.92950 0.00043	10.60 0.92916 0.00043
11.60 0.93561 0.00042	11.20 0.93406 0.00042	10.65 0.93391 0.00044
11.70 0.94071 0.00042	11.30 0.94084 0.00043	10.70 0.93667 0.00044
11.80 0.94641 0.00043	11.40 0.94609 0.00043	10.75 0.93793 0.00045
11.90 0.95291 0.00043	11.50 0.95177 0.00044	10.80 0.94224 0.00043
12.00 0.95689 0.00042	11.60 0.95776 0.00042	10.85 0.94489 0.00044
12.10 0.96172 0.00041	11.70 0.96401 0.00043	10.90 0.94836 0.00046
12.20 0.96645 0.00040	11.80 0.96818 0.00042	10.95 0.95120 0.00044
12.30 0.97253 0.00041	11.90 0.97279 0.00043	11.00 0.95390 0.00045
12.40 0.97737 0.00043	12.00 0.97885 0.00044	11.10 0.95948 0.00045
12.50 0.98199 0.00042	12.10 0.98398 0.00043	11.15 0.96239 0.00045
12.60 0.98589 0.00042	12.20 0.98871 0.00043	11.20 0.96487 0.00043
12.70 0.99202 0.00042	12.30 0.99386 0.00043	11.25 0.96796 0.00044
12.80 0.99604 0.00042	12.40 0.99959 0.00042	11.30 0.97129 0.00045
12.90 1.00123 0.00044	12.50 1.00523 0.00043	11.35 0.97431 0.00045
13.00 1.00616 0.00042	12.60 1.00912 0.00044	11.40 0.97704 0.00043
13.20 1.01538 0.00043	12.70 1.01439 0.00043	11.45 0.98015 0.00045
13.30 1.02004 0.00042	12.80 1.01938 0.00043	11.50 0.98171 0.00045

11.55 0.98457 0.00045
 11.60 0.98762 0.00045
 11.65 0.99038 0.00044
 11.70 0.99426 0.00044
 11.75 0.99570 0.00045
 11.80 0.99842 0.00044
 11.85 1.00133 0.00045
 11.90 1.00433 0.00045
 11.95 1.00800 0.00045
 12.00 1.00984 0.00044
 12.05 1.01206 0.00044
 12.10 1.01589 0.00045
 12.15 1.01739 0.00044
 12.20 1.02044 0.00045

60	70	80
10.10 0.91758 0.00044	9.90 0.91646 0.00045	9.80 0.91891 0.00045
10.15 0.92058 0.00045	9.95 0.92005 0.00044	9.85 0.92174 0.00047
10.20 0.92350 0.00046	10.00 0.92394 0.00046	9.90 0.92529 0.00046
10.25 0.92745 0.00043	10.05 0.92685 0.00047	9.95 0.92797 0.00046
10.30 0.93051 0.00046	10.10 0.93007 0.00045	10.00 0.93234 0.00046
10.35 0.93288 0.00045	10.15 0.93248 0.00046	10.05 0.93497 0.00047
10.40 0.93668 0.00045	10.20 0.93632 0.00047	10.10 0.93854 0.00046
10.45 0.94064 0.00044	10.25 0.93961 0.00046	10.15 0.94182 0.00046
10.50 0.94228 0.00046	10.30 0.94237 0.00045	10.20 0.94517 0.00045
10.55 0.94515 0.00046	10.35 0.94526 0.00048	10.25 0.94863 0.00047
10.60 0.94962 0.00045	10.40 0.94931 0.00046	10.30 0.95130 0.00048
10.65 0.95223 0.00045	10.45 0.95236 0.00046	10.35 0.95432 0.00045
10.70 0.95515 0.00044	10.50 0.95546 0.00046	10.40 0.95786 0.00047
10.75 0.95828 0.00045	10.55 0.95889 0.00045	10.45 0.96065 0.00047
10.80 0.96128 0.00045	10.60 0.96064 0.00047	10.50 0.96391 0.00044
10.85 0.96510 0.00045	10.65 0.96503 0.00047	10.55 0.96626 0.00047
10.90 0.96776 0.00046	10.70 0.96783 0.00047	10.60 0.97089 0.00046
10.95 0.97049 0.00044	10.75 0.97155 0.00046	10.65 0.97357 0.00047
11.00 0.97371 0.00047	10.80 0.97377 0.00046	10.70 0.97628 0.00047
11.05 0.97615 0.00044	10.85 0.97689 0.00046	10.75 0.97995 0.00045
11.10 0.97839 0.00047	10.90 0.97966 0.00046	10.80 0.98212 0.00047
11.15 0.98280 0.00045	10.95 0.98158 0.00045	10.85 0.98639 0.00047
11.20 0.98413 0.00046	11.00 0.98509 0.00046	10.90 0.98822 0.00046
11.25 0.98933 0.00045	11.05 0.98854 0.00047	10.95 0.99166 0.00046
11.30 0.99069 0.00046	11.10 0.99172 0.00046	11.00 0.99413 0.00046
11.35 0.99395 0.00045	11.15 0.99441 0.00046	11.05 0.99719 0.00047
11.40 0.99700 0.00045	11.20 0.99699 0.00046	11.10 0.99946 0.00047
11.45 0.99956 0.00045	11.25 0.99980 0.00045	11.15 1.00246 0.00047
11.50 1.00237 0.00044	11.30 1.00277 0.00045	11.20 1.00540 0.00046
11.60 1.00702 0.00046	11.35 1.00564 0.00047	11.25 1.00831 0.00047
11.65 1.01011 0.00045	11.40 1.00933 0.00046	11.30 1.01263 0.00047
11.70 1.01340 0.00045	11.45 1.01140 0.00045	11.35 1.01497 0.00046
11.75 1.01584 0.00045	11.50 1.01363 0.00045	11.40 1.01706 0.00046

11.80 1.01856 0.00045 11.55 1.01630 0.00046
 11.60 1.01979 0.00046

90	100	120
9.70 0.91864 0.00047	9.70 0.92259 0.00045	9.65 0.92335 0.00046
9.75 0.92086 0.00047	9.75 0.92610 0.00046	9.70 0.92660 0.00049
9.80 0.92496 0.00046	9.80 0.92852 0.00046	9.75 0.92980 0.00048
9.90 0.93178 0.00046	9.85 0.93158 0.00046	9.80 0.93250 0.00047
9.95 0.93511 0.00048	9.90 0.93550 0.00047	9.85 0.93684 0.00046
10.00 0.93827 0.00046	9.95 0.93921 0.00046	9.90 0.93936 0.00046
10.05 0.94183 0.00047	10.00 0.94165 0.00046	9.95 0.94324 0.00046
10.10 0.94471 0.00047	10.05 0.94587 0.00045	10.05 0.94959 0.00046
10.15 0.94798 0.00047	10.10 0.94970 0.00047	10.10 0.95311 0.00046
10.20 0.95048 0.00047	10.15 0.95197 0.00046	10.15 0.95573 0.00047
10.25 0.95406 0.00046	10.20 0.95553 0.00047	10.20 0.95850 0.00048
10.30 0.95798 0.00047	10.25 0.95856 0.00047	10.25 0.96208 0.00047
10.35 0.96138 0.00047	10.30 0.96106 0.00047	10.30 0.96696 0.00047
10.40 0.96287 0.00046	10.35 0.96425 0.00046	10.35 0.96863 0.00046
10.45 0.96739 0.00046	10.40 0.96746 0.00046	10.40 0.97122 0.00048
10.50 0.96956 0.00047	10.45 0.97076 0.00047	10.45 0.97479 0.00047
10.55 0.97301 0.00047	10.50 0.97457 0.00048	10.50 0.97805 0.00047
10.60 0.97620 0.00046	10.55 0.97735 0.00047	10.55 0.98118 0.00045
10.65 0.97913 0.00046	10.60 0.97993 0.00047	10.60 0.98437 0.00047
10.70 0.98274 0.00046	10.70 0.98593 0.00046	10.65 0.98720 0.00047
10.75 0.98578 0.00048	10.80 0.99151 0.00047	10.70 0.99020 0.00049
10.80 0.98783 0.00046	10.85 0.99449 0.00047	10.75 0.99302 0.00047
10.85 0.99070 0.00048	10.90 0.99636 0.00046	10.80 0.99614 0.00047
10.90 0.99430 0.00047	11.00 1.00302 0.00047	10.85 0.99884 0.00047
10.95 0.99564 0.00048	11.05 1.00686 0.00047	10.90 1.00174 0.00049
11.00 1.00017 0.00046	11.10 1.00964 0.00047	10.95 1.00411 0.00047
11.05 1.00240 0.00047	11.15 1.01265 0.00047	11.00 1.00716 0.00045
11.10 1.00525 0.00046	11.20 1.01449 0.00047	11.05 1.01033 0.00046
11.15 1.00883 0.00048	11.25 1.01788 0.00048	11.10 1.01306 0.00047
11.20 1.01058 0.00047	11.30 1.02105 0.00047	11.15 1.01558 0.00048
11.25 1.01437 0.00046		11.20 1.01914 0.00048
11.30 1.01748 0.00047		

130	150	200
9.60 0.92299 0.00047	9.60 0.92271 0.00047	9.60 0.92063 0.00047
9.65 0.92572 0.00046	9.65 0.92634 0.00047	9.65 0.92504 0.00047
9.70 0.92837 0.00048	9.70 0.92949 0.00047	9.70 0.92788 0.00048
9.75 0.93262 0.00047	9.75 0.93254 0.00047	9.75 0.93185 0.00048
9.80 0.93547 0.00047	9.80 0.93571 0.00047	9.80 0.93447 0.00048
9.85 0.93788 0.00046	9.85 0.93852 0.00047	9.85 0.93692 0.00046
9.90 0.94193 0.00047	9.90 0.94361 0.00046	9.90 0.93981 0.00047
9.95 0.94514 0.00048	9.95 0.94546 0.00045	9.95 0.94260 0.00048
10.00 0.94917 0.00046	10.00 0.94989 0.00048	10.00 0.94661 0.00046

10.05 0.95116 0.00047	10.05 0.95241 0.00048	10.05 0.94965 0.00048
10.10 0.95465 0.00048	10.10 0.95543 0.00047	10.10 0.95272 0.00048
10.15 0.95800 0.00048	10.15 0.95900 0.00047	10.15 0.95600 0.00047
10.20 0.96168 0.00047	10.20 0.96151 0.00047	10.20 0.95868 0.00046
10.25 0.96344 0.00046	10.25 0.96485 0.00047	10.25 0.96260 0.00048
10.30 0.96733 0.00046	10.30 0.96810 0.00047	10.30 0.96432 0.00047
10.35 0.97041 0.00047	10.35 0.97111 0.00047	10.35 0.96794 0.00046
10.40 0.97284 0.00046	10.40 0.97272 0.00047	10.40 0.97072 0.00047
10.45 0.97671 0.00047	10.45 0.97748 0.00048	10.45 0.97374 0.00047
10.50 0.97995 0.00047	10.50 0.97967 0.00046	10.50 0.97694 0.00047
10.55 0.98168 0.00046	10.55 0.98278 0.00049	10.55 0.97968 0.00048
10.60 0.98544 0.00047	10.60 0.98461 0.00048	10.60 0.98274 0.00047
10.65 0.98869 0.00048	10.65 0.98832 0.00047	10.65 0.98604 0.00047
10.70 0.99140 0.00047	10.70 0.99127 0.00047	10.70 0.98888 0.00048
10.75 0.99310 0.00047	10.75 0.99445 0.00049	10.75 0.99149 0.00048
10.80 0.99724 0.00048	10.80 0.99711 0.00047	10.80 0.99417 0.00046
10.85 0.99990 0.00047	10.85 1.00089 0.00047	10.85 0.99713 0.00046
10.90 1.00328 0.00047	10.90 1.00179 0.00047	10.90 0.99993 0.00048
10.95 1.00585 0.00046	10.95 1.00704 0.00048	10.95 1.00280 0.00049
11.00 1.00848 0.00047	11.00 1.00869 0.00047	11.05 1.00818 0.00047
11.05 1.01147 0.00048	11.05 1.01127 0.00047	11.10 1.00987 0.00047
11.10 1.01402 0.00046	11.10 1.01473 0.00047	11.15 1.01378 0.00047
11.15 1.01749 0.00047	11.15 1.01717 0.00047	11.20 1.01650 0.00049
11.20 1.02010 0.00047	11.20 1.02070 0.00048	11.25 1.01823 0.00046
		11.30 1.02172 0.00048

239	250	359
9.70 0.92462 0.00047	9.60 0.91774 0.00047	9.90 0.92345 0.00047
9.75 0.92782 0.00045	9.70 0.92376 0.00047	10.00 0.93042 0.00047
9.80 0.93034 0.00047	9.80 0.93002 0.00048	10.10 0.93676 0.00047
9.85 0.93384 0.00047	9.90 0.93596 0.00047	10.20 0.94264 0.00047
9.90 0.93710 0.00047	10.00 0.94223 0.00045	10.30 0.94737 0.00046
9.95 0.94070 0.00047	10.10 0.94788 0.00047	10.40 0.95386 0.00047
10.00 0.94450 0.00049	10.20 0.95336 0.00048	10.50 0.95857 0.00048
10.05 0.94570 0.00049	10.30 0.95855 0.00048	10.60 0.96476 0.00045
10.10 0.94894 0.00048	10.40 0.96504 0.00048	10.70 0.97085 0.00047
10.15 0.95299 0.00048	10.50 0.97099 0.00047	10.80 0.97559 0.00048
10.20 0.95578 0.00047	10.60 0.97743 0.00046	10.90 0.98136 0.00048
10.25 0.95770 0.00047	10.70 0.98247 0.00046	11.00 0.98688 0.00047
10.30 0.96132 0.00047	10.80 0.98717 0.00047	11.10 0.99162 0.00046
10.35 0.96481 0.00047	10.90 0.99541 0.00046	11.20 0.99685 0.00048
10.40 0.96741 0.00046	11.00 1.00046 0.00048	11.30 1.00229 0.00048
10.45 0.96906 0.00047	11.10 1.00431 0.00047	11.40 1.00694 0.00046
10.50 0.97344 0.00048	11.20 1.00957 0.00048	11.50 1.01199 0.00046
10.55 0.97633 0.00047	11.30 1.01630 0.00048	11.60 1.01615 0.00049
10.60 0.97851 0.00047	11.40 1.02026 0.00048	11.70 1.02215 0.00048
10.65 0.98187 0.00046		
10.70 0.98333 0.00047		
10.75 0.98699 0.00047		

10.80 0.99013 0.00048
 10.85 0.99202 0.00047
 10.90 0.99539 0.00047
 10.95 0.99799 0.00048
 11.00 1.00106 0.00048
 11.05 1.00375 0.00046
 11.10 1.00558 0.00047
 11.15 1.00954 0.00047
 11.20 1.01148 0.00047
 11.25 1.01458 0.00047
 11.30 1.01668 0.00048

478	500	600
10.10 0.92183 0.00047	10.10 0.91894 0.00046	10.50 0.92405 0.00047
10.20 0.92828 0.00047	10.20 0.92501 0.00047	10.60 0.92931 0.00048
10.30 0.93490 0.00046	10.30 0.93069 0.00046	10.70 0.93576 0.00046
10.40 0.93908 0.00047	10.40 0.93628 0.00047	10.80 0.94048 0.00048
10.50 0.94563 0.00047	10.50 0.94139 0.00046	10.90 0.94594 0.00046
10.60 0.95030 0.00047	10.70 0.95223 0.00046	11.00 0.95010 0.00048
10.70 0.95562 0.00047	10.80 0.95840 0.00049	11.10 0.95578 0.00046
10.80 0.96043 0.00047	10.90 0.96457 0.00048	11.20 0.96068 0.00047
10.90 0.96673 0.00048	11.00 0.96903 0.00048	11.30 0.96562 0.00047
11.00 0.97167 0.00047	11.10 0.97441 0.00047	11.40 0.97163 0.00047
11.10 0.97708 0.00047	11.20 0.97887 0.00046	11.50 0.97640 0.00047
11.20 0.98165 0.00047	11.30 0.98390 0.00046	11.60 0.98069 0.00047
11.30 0.98788 0.00047	11.40 0.98975 0.00047	11.70 0.98625 0.00047
11.40 0.99267 0.00047	11.50 0.99354 0.00046	11.80 0.99055 0.00046
11.50 0.99816 0.00047	11.60 0.99907 0.00048	11.90 0.99579 0.00047
11.60 1.00216 0.00049	11.70 1.00393 0.00048	12.00 1.00004 0.00048
11.70 1.00756 0.00047	11.80 1.00966 0.00047	12.10 1.00537 0.00047
11.90 1.01617 0.00047	11.90 1.01378 0.00046	12.20 1.00975 0.00045
	12.00 1.01863 0.00048	12.30 1.01449 0.00046
		12.40 1.01839 0.00046

650	700	750
10.70 0.92190 0.00047	11.10 0.92167 0.00045	12.10 0.92264 0.00046
10.80 0.92707 0.00047	11.20 0.92763 0.00045	12.20 0.92658 0.00045
10.90 0.93184 0.00047	11.30 0.93232 0.00046	12.30 0.93204 0.00046
11.00 0.93776 0.00045	11.40 0.93712 0.00045	12.40 0.93612 0.00045
11.10 0.94410 0.00046	11.50 0.94337 0.00046	12.50 0.94140 0.00046
11.20 0.94804 0.00046	11.60 0.94747 0.00046	12.60 0.94490 0.00046
11.30 0.95348 0.00047	11.70 0.95212 0.00046	12.70 0.95012 0.00046
11.40 0.95756 0.00046	11.80 0.95711 0.00046	12.80 0.95377 0.00046
11.50 0.96281 0.00048	11.90 0.96202 0.00045	12.90 0.95796 0.00047
11.60 0.96854 0.00048	12.00 0.96653 0.00046	13.00 0.96356 0.00046
11.70 0.97305 0.00046	12.10 0.97069 0.00047	13.10 0.96650 0.00047
11.80 0.97691 0.00048	12.20 0.97582 0.00046	13.20 0.97208 0.00046

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11.90 0.98343 0.00045	12.30 0.98003 0.00047	13.30 0.97571 0.00047
12.00 0.98767 0.00046	12.40 0.98517 0.00046	13.40 0.98075 0.00045
12.10 0.99210 0.00048	12.50 0.98956 0.00048	13.50 0.98387 0.00045
12.20 0.99681 0.00046	12.60 0.99341 0.00046	13.60 0.98802 0.00046
12.30 1.00098 0.00048	12.70 0.99846 0.00048	13.70 0.99169 0.00047
12.40 1.00538 0.00045	12.80 1.00208 0.00047	13.80 0.99620 0.00045
12.50 1.01078 0.00047	12.90 1.00739 0.00047	13.90 1.00038 0.00045
12.60 1.01487 0.00047	13.00 1.01132 0.00046	14.00 1.00420 0.00046
12.70 1.01865 0.00048	13.10 1.01589 0.00046	14.10 1.00796 0.00047
		14.20 1.01256 0.00046
		14.30 1.01596 0.00047

752	754	755
12.20 0.92201 0.00045	12.40 0.92267 0.00046	12.60 0.92374 0.00044
12.30 0.92555 0.00046	12.50 0.92824 0.00046	12.70 0.92817 0.00046
12.40 0.93028 0.00045	12.60 0.93119 0.00045	12.80 0.93274 0.00046
12.50 0.93388 0.00045	12.70 0.93578 0.00046	12.90 0.93807 0.00047
12.60 0.93954 0.00045	12.80 0.94015 0.00045	13.00 0.94200 0.00045
12.70 0.94354 0.00047	12.90 0.94467 0.00045	13.10 0.94572 0.00045
12.80 0.94824 0.00047	13.00 0.94896 0.00046	13.20 0.95105 0.00047
12.90 0.95266 0.00048	13.10 0.95320 0.00045	13.30 0.95440 0.00045
13.00 0.95678 0.00046	13.20 0.95808 0.00046	13.40 0.95954 0.00046
13.10 0.96159 0.00047	13.30 0.96190 0.00046	13.50 0.96270 0.00046
13.20 0.96593 0.00047	13.40 0.96611 0.00046	13.60 0.96748 0.00046
13.30 0.97051 0.00046	13.50 0.97024 0.00046	13.70 0.97153 0.00046
13.40 0.97486 0.00045	13.60 0.97477 0.00045	13.80 0.97550 0.00045
13.50 0.97776 0.00047	13.70 0.97912 0.00045	13.90 0.97899 0.00045
13.60 0.98260 0.00046	13.80 0.98225 0.00047	14.00 0.98313 0.00046
13.70 0.98639 0.00045	13.90 0.98628 0.00047	14.10 0.98736 0.00046
13.80 0.99022 0.00047	14.00 0.99164 0.00047	14.20 0.99159 0.00046
13.90 0.99370 0.00046	14.10 0.99420 0.00045	14.30 0.99518 0.00046
14.00 0.99837 0.00047	14.20 0.99882 0.00046	14.40 0.99821 0.00047
14.20 1.00699 0.00047	14.30 1.00151 0.00045	14.50 1.00321 0.00046
14.30 1.00972 0.00045	14.40 1.00590 0.00046	14.70 1.01002 0.00045
14.40 1.01398 0.00046	14.50 1.01028 0.00046	14.80 1.01394 0.00046
14.50 1.01826 0.00046	14.60 1.01346 0.00046	14.90 1.01796 0.00045
	14.70 1.01706 0.00045	

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12	15	20
15.70 0.92333 0.00032	13.40 0.92021 0.00035	11.60 0.91817 0.00040
15.90 0.92934 0.00032	13.50 0.92483 0.00036	11.70 0.92440 0.00040
16.10 0.93471 0.00032	13.60 0.92950 0.00036	11.80 0.93057 0.00040
16.30 0.94023 0.00030	13.70 0.93321 0.00035	11.90 0.93538 0.00040
16.50 0.94571 0.00032	13.80 0.93741 0.00036	12.00 0.94226 0.00040
16.70 0.95146 0.00031	13.90 0.94145 0.00036	12.10 0.94680 0.00040
16.90 0.95616 0.00031	14.00 0.94564 0.00034	12.20 0.95276 0.00040
17.10 0.96192 0.00030	14.10 0.94909 0.00035	12.30 0.95754 0.00040

17.30 0.96621 0.00029	14.20 0.95277 0.00035	12.40 0.96223 0.00040
17.50 0.97155 0.00030	14.30 0.95639 0.00035	12.50 0.96770 0.00040
17.70 0.97613 0.00031	14.40 0.96064 0.00034	12.60 0.97286 0.00040
17.90 0.98031 0.00030	14.50 0.96391 0.00034	12.70 0.97716 0.00040
18.10 0.98447 0.00030	14.60 0.96812 0.00036	12.80 0.98335 0.00040
18.30 0.98941 0.00030	14.70 0.97122 0.00034	12.90 0.98790 0.00040
18.50 0.99319 0.00029	14.80 0.97528 0.00036	13.00 0.99206 0.00039
18.70 0.99798 0.00029	14.90 0.97818 0.00035	13.10 0.99626 0.00040
18.90 1.00154 0.00029	15.00 0.98186 0.00036	13.20 1.00178 0.00039
19.10 1.00575 0.00030	15.10 0.98587 0.00036	13.30 1.00626 0.00040
19.30 1.01002 0.00029	15.20 0.98862 0.00035	13.40 1.01128 0.00038
19.50 1.01284 0.00030	15.30 0.99235 0.00034	13.50 1.01488 0.00039
	15.40 0.99566 0.00033	13.60 1.01931 0.00040
	15.50 0.99728 0.00034	
	15.60 1.00057 0.00034	
	15.70 1.00428 0.00034	
	15.80 1.00803 0.00035	
	15.90 1.01109 0.00034	
	16.00 1.01487 0.00033	
	16.10 1.01664 0.00035	

25	30	32
10.70 0.91837 0.00042	10.20 0.92277 0.00046	10.00 0.91974 0.00045
10.75 0.92187 0.00043	10.25 0.92650 0.00044	10.05 0.92341 0.00046
10.80 0.92492 0.00043	10.30 0.93004 0.00045	10.10 0.92825 0.00045
10.85 0.92852 0.00043	10.35 0.93382 0.00045	10.15 0.93138 0.00045
10.90 0.93183 0.00043	10.40 0.93817 0.00044	10.20 0.93491 0.00044
10.95 0.93552 0.00044	10.45 0.94186 0.00045	10.25 0.93879 0.00045
11.00 0.93854 0.00042	10.50 0.94482 0.00045	10.30 0.94288 0.00045
11.05 0.94184 0.00042	10.55 0.94772 0.00045	10.35 0.94685 0.00045
11.10 0.94521 0.00043	10.60 0.95189 0.00045	10.40 0.95060 0.00045
11.15 0.94914 0.00042	10.65 0.95593 0.00044	10.45 0.95432 0.00044
11.20 0.95124 0.00043	10.70 0.95860 0.00046	10.50 0.95830 0.00044
11.25 0.95466 0.00044	10.75 0.96241 0.00044	10.55 0.96022 0.00046
11.30 0.95771 0.00042	10.80 0.96574 0.00044	10.60 0.96366 0.00045
11.35 0.96178 0.00042	10.85 0.96909 0.00044	10.65 0.96758 0.00044
11.40 0.96459 0.00043	10.90 0.97246 0.00044	10.70 0.97140 0.00046
11.45 0.96651 0.00042	10.95 0.97647 0.00045	10.75 0.97493 0.00045
11.50 0.96966 0.00042	11.00 0.97981 0.00044	10.80 0.97887 0.00046
11.55 0.97305 0.00041	11.05 0.98273 0.00045	10.85 0.98236 0.00044
11.60 0.97588 0.00042	11.10 0.98614 0.00045	10.90 0.98540 0.00044
11.65 0.97825 0.00041	11.15 0.98940 0.00044	10.95 0.98896 0.00045
11.70 0.98255 0.00043	11.20 0.99278 0.00044	11.00 0.99314 0.00046
11.75 0.98445 0.00042	11.25 0.99527 0.00044	11.05 0.99589 0.00045
11.80 0.98836 0.00040	11.30 0.99846 0.00044	11.10 1.00016 0.00045
11.85 0.99116 0.00043	11.35 1.00281 0.00045	11.15 1.00280 0.00046
11.90 0.99402 0.00041	11.40 1.00596 0.00045	11.20 1.00582 0.00045
11.95 0.99679 0.00042	11.45 1.00845 0.00044	11.25 1.00978 0.00045
12.00 0.99995 0.00043	11.50 1.01227 0.00043	11.30 1.01294 0.00046

12.05 1.00298 0.00042	11.55 1.01494 0.00044	11.35 1.01645 0.00046
12.10 1.00547 0.00043	11.60 1.01905 0.00045	11.40 1.01841 0.00045
12.15 1.00721 0.00042		
12.20 1.01098 0.00043		
12.25 1.01461 0.00043		
12.30 1.01634 0.00043		
12.35 1.02041 0.00042		
12.40 1.02244 0.00041		

35	40	50
9.80 0.91952 0.00046	9.50 0.91688 0.00046	9.10 0.91313 0.00049
9.85 0.92480 0.00046	9.55 0.92168 0.00046	9.15 0.91707 0.00048
9.90 0.92820 0.00047	9.60 0.92597 0.00048	9.20 0.92236 0.00049
9.95 0.93245 0.00046	9.65 0.93048 0.00047	9.25 0.92669 0.00049
10.00 0.93581 0.00046	9.70 0.93486 0.00047	9.30 0.93233 0.00047
10.05 0.94026 0.00047	9.75 0.93831 0.00047	9.35 0.93588 0.00049
10.10 0.94384 0.00048	9.80 0.94286 0.00048	9.40 0.94020 0.00048
10.15 0.94830 0.00045	9.85 0.94664 0.00047	9.45 0.94441 0.00048
10.20 0.95179 0.00046	9.90 0.95104 0.00047	9.50 0.94868 0.00049
10.25 0.95539 0.00047	9.95 0.95537 0.00047	9.55 0.95285 0.00047
10.30 0.95877 0.00047	10.00 0.95833 0.00047	9.60 0.95716 0.00048
10.35 0.96350 0.00048	10.05 0.96258 0.00047	9.65 0.96176 0.00047
10.40 0.96682 0.00047	10.10 0.96713 0.00046	9.70 0.96642 0.00049
10.45 0.97094 0.00046	10.15 0.97129 0.00047	9.75 0.97058 0.00049
10.50 0.97386 0.00045	10.20 0.97484 0.00046	9.80 0.97468 0.00049
10.55 0.97770 0.00045	10.25 0.97830 0.00048	9.85 0.97891 0.00049
10.60 0.98254 0.00046	10.30 0.98330 0.00047	9.90 0.98310 0.00049
10.65 0.98601 0.00046	10.35 0.98637 0.00046	9.95 0.98641 0.00048
10.70 0.98914 0.00045	10.40 0.98973 0.00046	10.00 0.99176 0.00049
10.75 0.99250 0.00046	10.45 0.99423 0.00047	10.05 0.99555 0.00049
10.80 0.99634 0.00045	10.50 0.99824 0.00046	10.10 0.99885 0.00047
10.85 1.00005 0.00045	10.55 1.00143 0.00047	10.15 1.00355 0.00047
10.90 1.00369 0.00047	10.60 1.00455 0.00046	10.20 1.00719 0.00049
10.95 1.00694 0.00046	10.65 1.00817 0.00047	10.25 1.01061 0.00049
11.00 1.00969 0.00046	10.70 1.01233 0.00048	10.30 1.01489 0.00049
11.05 1.01324 0.00047	10.75 1.01661 0.00047	10.35 1.01906 0.00049
11.10 1.01691 0.00046	10.80 1.01886 0.00047	10.40 1.02287 0.00048
11.15 1.01911 0.00046		
11.20 1.02349 0.00046		

60	70	80
8.90 0.91406 0.00049	8.80 0.91833 0.00049	8.70 0.91822 0.00050
8.95 0.91995 0.00050	8.85 0.92356 0.00049	8.75 0.92425 0.00050
9.00 0.92403 0.00050	8.90 0.92795 0.00049	8.80 0.92873 0.00052
9.05 0.92847 0.00049	8.95 0.93230 0.00050	8.85 0.93327 0.00052
9.10 0.93274 0.00050	9.00 0.93740 0.00049	8.90 0.93764 0.00051
9.15 0.93851 0.00049	9.05 0.94258 0.00049	8.95 0.94412 0.00051

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9.20 0.94309 0.00047	9.10 0.94700 0.00050	9.00 0.94810 0.00051
9.25 0.94775 0.00050	9.15 0.95133 0.00049	9.05 0.95330 0.00050
9.30 0.95210 0.00049	9.20 0.95664 0.00049	9.10 0.95879 0.00050
9.35 0.95649 0.00049	9.25 0.96142 0.00049	9.15 0.96272 0.00050
9.40 0.96103 0.00049	9.30 0.96589 0.00049	9.20 0.96616 0.00049
9.45 0.96579 0.00050	9.35 0.97073 0.00052	9.25 0.97243 0.00050
9.50 0.97084 0.00050	9.40 0.97446 0.00051	9.30 0.97654 0.00050
9.55 0.97436 0.00049	9.45 0.97995 0.00051	9.35 0.98139 0.00051
9.60 0.97879 0.00049	9.50 0.98449 0.00049	9.40 0.98489 0.00050
9.65 0.98290 0.00049	9.55 0.98822 0.00050	9.45 0.98890 0.00051
9.70 0.98813 0.00049	9.60 0.99281 0.00050	9.50 0.99470 0.00048
9.75 0.99091 0.00048	9.65 0.99664 0.00050	9.55 0.99870 0.00050
9.80 0.99566 0.00049	9.70 1.00242 0.00049	9.60 1.00297 0.00051
9.85 0.99997 0.00049	9.75 1.00580 0.00051	9.65 1.00784 0.00050
9.90 1.00448 0.00047	9.80 1.01020 0.00051	9.70 1.01227 0.00050
9.95 1.00885 0.00050	9.85 1.01409 0.00051	9.75 1.01699 0.00050
10.00 1.01239 0.00050	9.90 1.01885 0.00050	9.80 1.02127 0.00050
10.05 1.01659 0.00050	9.95 1.02331 0.00050	
10.10 1.02094 0.00049	10.00 1.02658 0.00049	

90	100	120
8.60 0.91608 0.00050	8.50 0.91126 0.00052	8.50 0.91883 0.00050
8.65 0.92095 0.00051	8.55 0.91643 0.00051	8.55 0.92478 0.00051
8.70 0.92649 0.00051	8.60 0.92181 0.00052	8.60 0.92964 0.00051
8.75 0.93201 0.00052	8.65 0.92791 0.00050	8.65 0.93316 0.00050
8.80 0.93733 0.00052	8.70 0.93272 0.00050	8.70 0.93862 0.00051
8.85 0.94109 0.00051	8.75 0.93692 0.00050	8.75 0.94458 0.00050
8.90 0.94603 0.00051	8.80 0.94211 0.00051	8.80 0.94947 0.00051
8.95 0.95126 0.00051	8.85 0.94642 0.00052	8.85 0.95469 0.00052
9.00 0.95485 0.00051	8.90 0.95204 0.00051	8.90 0.95786 0.00050
9.05 0.96006 0.00051	8.95 0.95711 0.00050	8.95 0.96510 0.00051
9.10 0.96630 0.00051	9.00 0.96121 0.00050	9.00 0.96853 0.00051
9.15 0.96976 0.00051	9.05 0.96624 0.00052	9.05 0.97474 0.00051
9.20 0.97454 0.00051	9.10 0.97134 0.00049	9.10 0.97794 0.00051
9.25 0.97945 0.00050	9.15 0.97589 0.00051	9.15 0.98263 0.00052
9.30 0.98387 0.00049	9.20 0.98040 0.00052	9.20 0.98893 0.00052
9.35 0.98804 0.00052	9.25 0.98513 0.00052	9.25 0.99338 0.00052
9.40 0.99310 0.00051	9.30 0.98957 0.00050	9.30 0.99762 0.00051
9.45 0.99713 0.00050	9.35 0.99475 0.00051	9.35 1.00216 0.00053
9.50 1.00198 0.00050	9.40 0.99832 0.00051	9.40 1.00572 0.00051
9.55 1.00669 0.00049	9.45 1.00466 0.00051	9.45 1.01039 0.00051
9.60 1.01013 0.00050	9.50 1.00737 0.00050	9.50 1.01530 0.00050
9.65 1.01511 0.00052	9.55 1.01278 0.00050	9.55 1.01919 0.00052
9.70 1.01956 0.00051	9.60 1.01660 0.00052	9.60 1.02361 0.00052
9.75 1.02544 0.00050	9.65 1.02212 0.00051	
9.80 1.02857 0.00050	9.70 1.02560 0.00051	

130	150	200
8.40 0.91216 0.00051	8.40 0.91561 0.00050	8.40 0.92080 0.00050
8.45 0.91791 0.00051	8.45 0.92058 0.00050	8.45 0.92545 0.00051
8.50 0.92324 0.00051	8.50 0.92618 0.00052	8.50 0.93052 0.00054
8.55 0.92750 0.00053	8.55 0.93133 0.00052	8.55 0.93564 0.00051
8.60 0.93309 0.00050	8.60 0.93659 0.00052	8.60 0.94059 0.00051
8.65 0.93804 0.00051	8.65 0.94142 0.00049	8.65 0.94608 0.00053
8.70 0.94347 0.00052	8.70 0.94623 0.00052	8.70 0.95109 0.00052
8.75 0.94871 0.00051	8.75 0.95098 0.00052	8.75 0.95649 0.00051
8.80 0.95278 0.00052	8.80 0.95623 0.00052	8.80 0.96075 0.00051
8.85 0.95869 0.00051	8.85 0.96050 0.00052	8.85 0.96501 0.00050
8.90 0.96252 0.00051	8.90 0.96680 0.00050	8.90 0.97064 0.00050
8.95 0.96848 0.00052	8.95 0.97118 0.00053	8.95 0.97494 0.00052
9.00 0.97285 0.00052	9.00 0.97579 0.00052	9.00 0.98050 0.00050
9.05 0.97714 0.00052	9.05 0.98073 0.00051	9.05 0.98509 0.00052
9.10 0.98263 0.00050	9.10 0.98479 0.00051	9.10 0.98976 0.00052
9.15 0.98654 0.00051	9.15 0.98962 0.00051	9.15 0.99400 0.00051
9.20 0.99124 0.00052	9.20 0.99486 0.00052	9.20 0.99939 0.00050
9.25 0.99639 0.00050	9.25 0.99917 0.00051	9.25 1.00387 0.00052
9.30 1.00056 0.00051	9.30 1.00409 0.00051	9.30 1.00849 0.00050
9.35 1.00511 0.00051	9.35 1.00881 0.00051	9.35 1.01305 0.00051
9.40 1.00935 0.00052	9.40 1.01305 0.00051	9.40 1.01598 0.00052
9.45 1.01499 0.00051	9.45 1.01760 0.00052	9.45 1.02119 0.00051
9.50 1.01983 0.00052	9.50 1.02274 0.00052	9.50 1.02529 0.00052
9.55 1.02376 0.00050		
9.60 1.02897 0.00051		

239	250	359
8.40 0.92131 0.00050	8.40 0.92072 0.00052	8.40 0.91667 0.00050
8.45 0.92615 0.00052	8.45 0.92618 0.00050	8.45 0.92236 0.00051
8.50 0.93118 0.00051	8.50 0.93049 0.00051	8.50 0.92742 0.00050
8.55 0.93766 0.00052	8.55 0.93587 0.00050	8.55 0.93230 0.00052
8.60 0.94155 0.00052	8.60 0.94200 0.00052	8.60 0.93673 0.00052
8.65 0.94672 0.00051	8.65 0.94621 0.00050	8.65 0.94170 0.00050
8.70 0.95229 0.00051	8.70 0.95064 0.00052	8.70 0.94732 0.00052
8.75 0.95648 0.00051	8.75 0.95656 0.00052	8.75 0.95209 0.00051
8.80 0.96084 0.00052	8.80 0.96100 0.00051	8.80 0.95694 0.00051
8.85 0.96526 0.00052	8.85 0.96584 0.00051	8.85 0.96186 0.00051
8.90 0.97119 0.00051	8.90 0.97086 0.00052	8.90 0.96624 0.00052
8.95 0.97533 0.00050	8.95 0.97510 0.00051	8.95 0.97172 0.00050
9.00 0.98048 0.00050	9.00 0.98103 0.00052	9.00 0.97703 0.00051
9.05 0.98588 0.00050	9.05 0.98527 0.00050	9.05 0.98095 0.00052
9.10 0.98995 0.00051	9.10 0.99114 0.00052	9.10 0.98612 0.00051
9.15 0.99500 0.00051	9.15 0.99508 0.00050	9.15 0.98983 0.00051
9.20 1.00026 0.00051	9.20 0.99885 0.00051	9.20 0.99533 0.00050
9.25 1.00437 0.00051	9.25 1.00431 0.00051	9.25 1.00046 0.00051
9.30 1.00884 0.00053	9.30 1.00835 0.00052	9.30 1.00446 0.00052
9.35 1.01269 0.00052	9.35 1.01380 0.00052	9.35 1.00875 0.00052
9.40 1.01733 0.00049	9.40 1.01813 0.00051	9.40 1.01333 0.00051

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9.45 1.02172 0.00053	9.45 1.02117 0.00052	9.45 1.01797 0.00052
9.50 1.02647 0.00050	9.50 1.02686 0.00051	9.50 1.02226 0.00050

478	500	600
8.50 0.91686 0.00052	8.50 0.91393 0.00051	8.80 0.91959 0.00052
8.55 0.92212 0.00050	8.55 0.91801 0.00050	8.85 0.92464 0.00050
8.60 0.92640 0.00051	8.60 0.92315 0.00051	8.90 0.92929 0.00050
8.65 0.93226 0.00051	8.65 0.92896 0.00051	8.95 0.93520 0.00050
8.70 0.93556 0.00050	8.70 0.93393 0.00051	9.00 0.93951 0.00052
8.75 0.94129 0.00051	8.75 0.93904 0.00051	9.05 0.94434 0.00049
8.80 0.94673 0.00050	8.80 0.94350 0.00051	9.10 0.94833 0.00051
8.85 0.95061 0.00051	8.85 0.94873 0.00052	9.15 0.95401 0.00050
8.90 0.95642 0.00050	8.90 0.95306 0.00051	9.20 0.95847 0.00051
8.95 0.96089 0.00051	8.95 0.95836 0.00051	9.25 0.96289 0.00050
9.00 0.96629 0.00050	9.00 0.96269 0.00051	9.30 0.96645 0.00051
9.05 0.97093 0.00051	9.05 0.96794 0.00050	9.35 0.97204 0.00050
9.10 0.97562 0.00051	9.10 0.97245 0.00050	9.40 0.97668 0.00049
9.15 0.98001 0.00052	9.15 0.97772 0.00049	9.45 0.98159 0.00051
9.20 0.98481 0.00052	9.20 0.98293 0.00050	9.50 0.98619 0.00051
9.25 0.98930 0.00052	9.25 0.98676 0.00053	9.55 0.98967 0.00052
9.30 0.99474 0.00052	9.30 0.98985 0.00051	9.60 0.99468 0.00050
9.35 0.99892 0.00051	9.35 0.99525 0.00049	9.65 0.99935 0.00051
9.40 1.00209 0.00052	9.40 1.00013 0.00050	9.70 1.00420 0.00052
9.45 1.00688 0.00051	9.45 1.00544 0.00051	9.75 1.00743 0.00051
9.50 1.01323 0.00052	9.50 1.00925 0.00052	9.80 1.01175 0.00051
9.55 1.01754 0.00049	9.55 1.01325 0.00052	9.85 1.01752 0.00049
9.60 1.02109 0.00053	9.60 1.01814 0.00052	9.90 1.02079 0.00050
	9.65 1.02193 0.00051	9.95 1.02499 0.00051
	9.70 1.02666 0.00052	10.00 1.02933 0.00050

650	700	750
9.00 0.91931 0.00049	9.30 0.91290 0.00050	10.30 0.91611 0.00051
9.05 0.92333 0.00050	9.35 0.91883 0.00048	10.35 0.91967 0.00049
9.10 0.92897 0.00050	9.40 0.92222 0.00050	10.40 0.92415 0.00051
9.15 0.93423 0.00049	9.45 0.92698 0.00050	10.45 0.92858 0.00049
9.20 0.93818 0.00050	9.50 0.93174 0.00050	10.50 0.93244 0.00050
9.25 0.94366 0.00051	9.55 0.93640 0.00049	10.55 0.93682 0.00050
9.30 0.94822 0.00051	9.60 0.94076 0.00049	10.60 0.94099 0.00051
9.35 0.95277 0.00052	9.65 0.94667 0.00049	10.65 0.94459 0.00050
9.40 0.95743 0.00051	9.70 0.94981 0.00050	10.70 0.94847 0.00049
9.45 0.96120 0.00050	9.75 0.95423 0.00050	10.75 0.95220 0.00049
9.50 0.96605 0.00050	9.80 0.95883 0.00050	10.80 0.95764 0.00050
9.55 0.97039 0.00050	9.85 0.96254 0.00049	10.85 0.96166 0.00051
9.60 0.97359 0.00052	9.90 0.96705 0.00051	10.90 0.96528 0.00050
9.65 0.97952 0.00051	9.95 0.97156 0.00051	10.95 0.96920 0.00050
9.70 0.98371 0.00049	10.00 0.97671 0.00051	11.00 0.97345 0.00051
9.75 0.98858 0.00050	10.05 0.98025 0.00051	11.05 0.97811 0.00051

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9.80 0.99367 0.00051	10.10 0.98480 0.00052	11.10 0.98066 0.00051
9.85 0.99696 0.00051	10.15 0.98922 0.00050	11.15 0.98509 0.00050
9.90 1.00100 0.00050	10.20 0.99304 0.00051	11.20 0.98884 0.00049
9.95 1.00647 0.00050	10.25 0.99745 0.00051	11.25 0.99289 0.00050
10.00 1.01077 0.00050	10.30 1.00188 0.00050	11.30 0.99619 0.00051
10.05 1.01381 0.00051	10.35 1.00610 0.00050	11.35 1.00018 0.00051
10.10 1.01876 0.00050	10.40 1.01017 0.00051	11.40 1.00474 0.00050
10.15 1.02296 0.00052	10.45 1.01483 0.00052	11.45 1.00832 0.00051
10.20 1.02592 0.00051	10.50 1.01787 0.00050	11.50 1.01128 0.00049
	10.55 1.02250 0.00051	11.55 1.01574 0.00049
	10.60 1.02540 0.00052	11.60 1.01974 0.00050
		11.65 1.02223 0.00050
		11.70 1.02729 0.00050

752	754	755
10.40 0.91370 0.00051	10.60 0.91622 0.00049	10.80 0.91645 0.00049
10.45 0.91748 0.00050	10.65 0.92011 0.00049	10.85 0.92056 0.00051
10.50 0.92202 0.00049	10.70 0.92510 0.00051	10.90 0.92481 0.00050
10.55 0.92600 0.00049	10.75 0.92861 0.00051	10.95 0.92839 0.00049
10.60 0.93038 0.00050	10.80 0.93402 0.00051	11.00 0.93370 0.00050
10.65 0.93418 0.00050	10.85 0.93634 0.00050	11.05 0.93705 0.00050
10.70 0.93891 0.00051	10.90 0.94118 0.00050	11.10 0.94069 0.00050
10.75 0.94237 0.00051	10.95 0.94512 0.00049	11.15 0.94484 0.00049
10.80 0.94767 0.00051	11.00 0.94765 0.00050	11.20 0.94877 0.00050
10.85 0.95013 0.00050	11.05 0.95193 0.00050	11.25 0.95217 0.00050
10.90 0.95447 0.00050	11.10 0.95655 0.00050	11.30 0.95628 0.00049
10.95 0.95861 0.00050	11.15 0.95956 0.00050	11.35 0.95975 0.00051
11.00 0.96323 0.00051	11.20 0.96467 0.00052	11.40 0.96354 0.00050
11.05 0.96699 0.00052	11.25 0.96958 0.00050	11.45 0.96822 0.00050
11.10 0.97155 0.00051	11.30 0.97178 0.00050	11.50 0.97179 0.00051
11.15 0.97414 0.00051	11.35 0.97649 0.00051	11.55 0.97508 0.00049
11.20 0.97817 0.00051	11.40 0.97998 0.00050	11.60 0.97978 0.00051
11.25 0.98315 0.00050	11.45 0.98356 0.00049	11.65 0.98210 0.00050
11.30 0.98769 0.00050	11.50 0.98753 0.00050	11.70 0.98704 0.00050
11.35 0.98958 0.00051	11.55 0.99154 0.00050	11.75 0.99056 0.00049
11.40 0.99400 0.00051	11.60 0.99454 0.00049	11.80 0.99368 0.00049
11.45 0.99765 0.00050	11.65 0.99890 0.00050	11.85 0.99787 0.00050
11.50 1.00148 0.00050	11.70 1.00241 0.00051	11.90 1.00238 0.00050
11.55 1.00449 0.00051	11.75 1.00646 0.00049	11.95 1.00485 0.00051
11.60 1.00934 0.00052	11.80 1.01006 0.00050	12.00 1.00856 0.00048
11.65 1.01314 0.00051	11.85 1.01386 0.00050	12.05 1.01293 0.00050
11.70 1.01614 0.00050	11.90 1.01738 0.00050	12.10 1.01634 0.00048
11.75 1.02082 0.00049	11.95 1.02086 0.00050	12.15 1.01917 0.00049
11.80 1.02404 0.00051	12.00 1.02424 0.00050	12.20 1.02372 0.00051

10.05 0.97408 0.00041	9.55 0.98394 0.00043	9.35 0.98338 0.00044
10.10 0.97795 0.00042	9.60 0.98671 0.00042	9.40 0.98729 0.00043
10.15 0.98068 0.00041	9.65 0.99092 0.00043	9.45 0.99004 0.00042
10.20 0.98302 0.00042	9.70 0.99485 0.00043	9.50 0.99413 0.00043
10.25 0.98612 0.00041	9.75 0.99746 0.00043	9.55 0.99765 0.00044
10.30 0.98952 0.00041	9.80 0.99982 0.00043	9.60 1.00079 0.00044
10.35 0.99210 0.00041	9.85 1.00387 0.00043	9.65 1.00425 0.00043
10.40 0.99561 0.00042	9.90 1.00707 0.00041	9.70 1.00766 0.00043
10.45 0.99761 0.00040	9.95 1.01081 0.00043	9.75 1.01044 0.00042
10.50 1.00107 0.00041	10.00 1.01352 0.00043	9.80 1.01474 0.00043
10.55 1.00420 0.00042	10.05 1.01722 0.00042	9.85 1.01774 0.00041
10.60 1.00616 0.00041	10.10 1.01929 0.00043	9.90 1.02020 0.00044
10.65 1.00944 0.00040		
10.70 1.01185 0.00041		
10.75 1.01444 0.00042		
10.80 1.01806 0.00042		

35	40	50
8.30 0.92165 0.00045	8.00 0.91893 0.00043	7.60 0.91447 0.00045
8.35 0.92502 0.00045	8.05 0.92332 0.00046	7.65 0.91948 0.00046
8.40 0.93029 0.00044	8.10 0.92760 0.00044	7.70 0.92367 0.00046
8.45 0.93368 0.00044	8.15 0.93156 0.00046	7.75 0.92929 0.00046
8.50 0.93729 0.00044	8.20 0.93623 0.00045	7.80 0.93346 0.00047
8.55 0.94175 0.00044	8.25 0.94009 0.00045	7.85 0.93768 0.00046
8.60 0.94496 0.00045	8.30 0.94523 0.00045	7.90 0.94206 0.00046
8.65 0.94988 0.00043	8.35 0.94907 0.00045	7.95 0.94609 0.00046
8.70 0.95278 0.00044	8.40 0.95333 0.00047	8.00 0.95197 0.00047
8.75 0.95672 0.00045	8.45 0.95685 0.00046	8.05 0.95524 0.00046
8.80 0.96103 0.00045	8.50 0.96031 0.00045	8.10 0.96036 0.00047
8.85 0.96508 0.00044	8.55 0.96494 0.00045	8.15 0.96453 0.00047
8.90 0.96844 0.00045	8.60 0.96845 0.00045	8.20 0.96853 0.00046
8.95 0.97276 0.00043	8.65 0.97201 0.00045	8.25 0.97263 0.00046
9.00 0.97663 0.00044	8.70 0.97688 0.00046	8.30 0.97738 0.00045
9.05 0.97926 0.00045	8.75 0.97934 0.00045	8.35 0.98233 0.00045
9.10 0.98316 0.00044	8.80 0.98466 0.00045	8.40 0.98496 0.00045
9.15 0.98689 0.00045	8.85 0.98754 0.00046	8.45 0.98919 0.00046
9.20 0.99048 0.00044	8.90 0.99198 0.00046	8.50 0.99342 0.00047
9.25 0.99401 0.00044	8.95 0.99597 0.00045	8.55 0.99784 0.00047
9.30 0.99757 0.00045	9.00 0.99964 0.00045	8.60 1.00234 0.00047
9.35 1.00139 0.00044	9.05 1.00327 0.00045	8.65 1.00584 0.00046
9.40 1.00526 0.00045	9.10 1.00709 0.00045	8.70 1.01007 0.00046
9.45 1.00867 0.00044	9.15 1.01085 0.00046	8.75 1.01406 0.00047
9.50 1.01139 0.00044	9.20 1.01395 0.00046	8.80 1.01747 0.00048
9.55 1.01502 0.00044	9.25 1.01910 0.00046	8.85 1.02175 0.00045
9.60 1.01762 0.00044	9.30 1.02161 0.00044	8.90 1.02441 0.00046

60	70	80
7.40 0.91711 0.00047	7.30 0.92174 0.00047	7.20 0.92211 0.00048
7.45 0.92213 0.00048	7.35 0.92593 0.00050	7.25 0.92683 0.00048
7.50 0.92654 0.00048	7.40 0.93138 0.00046	7.30 0.93226 0.00049
7.55 0.93231 0.00048	7.45 0.93578 0.00047	7.35 0.93671 0.00048
7.60 0.93603 0.00047	7.50 0.94060 0.00047	7.40 0.94123 0.00048
7.65 0.94067 0.00048	7.55 0.94529 0.00048	7.45 0.94661 0.00048
7.70 0.94560 0.00049	7.60 0.95080 0.00048	7.50 0.95117 0.00049
7.75 0.95106 0.00048	7.65 0.95405 0.00047	7.55 0.95645 0.00048
7.80 0.95465 0.00048	7.70 0.95965 0.00048	7.60 0.96122 0.00048
7.85 0.95967 0.00047	7.75 0.96511 0.00049	7.65 0.96584 0.00048
7.90 0.96392 0.00047	7.80 0.96895 0.00049	7.70 0.97042 0.00048
7.95 0.96805 0.00045	7.85 0.97365 0.00048	7.75 0.97549 0.00049
8.00 0.97239 0.00046	7.90 0.97846 0.00048	7.80 0.97928 0.00049
8.05 0.97752 0.00047	7.95 0.98242 0.00049	7.85 0.98423 0.00049
8.10 0.98160 0.00048	8.00 0.98675 0.00048	7.90 0.98830 0.00047
8.15 0.98564 0.00047	8.05 0.99126 0.00048	7.95 0.99348 0.00048
8.20 0.99048 0.00049	8.10 0.99619 0.00048	8.00 0.99793 0.00048
8.25 0.99351 0.00047	8.15 0.99977 0.00049	8.05 1.00302 0.00048
8.30 0.99870 0.00049	8.20 1.00538 0.00048	8.10 1.00724 0.00049
8.35 1.00299 0.00048	8.25 1.00949 0.00048	8.15 1.01121 0.00047
8.40 1.00621 0.00047	8.30 1.01239 0.00047	8.20 1.01581 0.00048
8.45 1.01134 0.00047	8.35 1.01703 0.00048	8.25 1.02020 0.00048
8.50 1.01538 0.00047	8.40 1.02242 0.00046	8.30 1.02398 0.00049
8.55 1.01977 0.00047		
8.60 1.02395 0.00049		
90	100	120
7.10 0.92017 0.00050	7.00 0.91526 0.00049	7.00 0.92338 0.00049
7.15 0.92547 0.00049	7.05 0.92100 0.00049	7.05 0.92799 0.00050
7.20 0.93015 0.00049	7.10 0.92548 0.00049	7.10 0.93403 0.00050
7.25 0.93623 0.00048	7.15 0.93169 0.00048	7.15 0.93885 0.00049
7.30 0.93937 0.00047	7.20 0.93580 0.00048	7.20 0.94350 0.00049
7.35 0.94462 0.00048	7.25 0.94094 0.00050	7.25 0.94860 0.00049
7.40 0.95027 0.00048	7.30 0.94627 0.00050	7.30 0.95306 0.00050
7.45 0.95439 0.00048	7.35 0.95070 0.00047	7.35 0.95844 0.00048
7.50 0.95980 0.00048	7.40 0.95533 0.00050	7.40 0.96332 0.00049
7.55 0.96426 0.00049	7.45 0.96078 0.00048	7.45 0.96805 0.00050
7.60 0.96917 0.00050	7.50 0.96480 0.00049	7.50 0.97286 0.00050
7.65 0.97402 0.00048	7.55 0.97118 0.00049	7.55 0.97804 0.00050
7.70 0.97912 0.00049	7.60 0.97512 0.00049	7.60 0.98327 0.00048
7.75 0.98243 0.00049	7.65 0.97973 0.00048	7.65 0.98821 0.00049
7.80 0.98740 0.00049	7.70 0.98404 0.00051	7.70 0.99235 0.00050
7.85 0.99328 0.00049	7.75 0.98912 0.00051	7.75 0.99698 0.00049
7.90 0.99716 0.00049	7.80 0.99478 0.00049	7.80 1.00227 0.00050
7.95 1.00166 0.00050	7.85 0.99857 0.00049	7.85 1.00673 0.00048
8.00 1.00641 0.00049	7.90 1.00222 0.00049	7.90 1.01121 0.00048
8.05 1.01034 0.00049	7.95 1.00600 0.00048	7.95 1.01572 0.00051
8.10 1.01438 0.00050	8.00 1.01209 0.00049	8.00 1.01981 0.00049
8.15 1.01914 0.00049	8.05 1.01658 0.00049	
8.20 1.02356 0.00048	8.10 1.02104 0.00050	

130	150	200
6.90 0.91634 0.00049	6.90 0.92023 0.00048	6.80 0.91519 0.00049
6.95 0.92225 0.00049	6.95 0.92617 0.00049	6.85 0.91941 0.00050
7.00 0.92606 0.00048	7.00 0.93130 0.00049	6.90 0.92455 0.00048
7.05 0.93276 0.00049	7.05 0.93689 0.00050	6.95 0.92988 0.00051
7.10 0.93616 0.00049	7.10 0.94084 0.00051	7.00 0.93579 0.00049
7.15 0.94157 0.00050	7.15 0.94620 0.00048	7.05 0.94019 0.00049
7.20 0.94703 0.00049	7.20 0.95141 0.00049	7.10 0.94551 0.00050
7.25 0.95234 0.00049	7.25 0.95639 0.00050	7.15 0.95057 0.00050
7.30 0.95660 0.00050	7.30 0.96077 0.00050	7.20 0.95567 0.00049
7.35 0.96230 0.00049	7.35 0.96564 0.00049	7.25 0.96031 0.00050
7.40 0.96739 0.00050	7.40 0.97042 0.00051	7.30 0.96580 0.00049
7.45 0.97112 0.00049	7.45 0.97537 0.00049	7.35 0.97018 0.00050
7.50 0.97705 0.00052	7.50 0.98045 0.00049	7.40 0.97505 0.00051
7.55 0.98174 0.00049	7.55 0.98592 0.00048	7.45 0.97940 0.00049
7.60 0.98595 0.00050	7.60 0.98939 0.00050	7.50 0.98372 0.00050
7.65 0.99023 0.00049	7.65 0.99385 0.00051	7.55 0.99023 0.00050
7.70 0.99581 0.00050	7.70 0.99946 0.00051	7.60 0.99325 0.00051
7.75 1.00023 0.00050	7.75 1.00304 0.00049	7.65 0.99963 0.00049
7.80 1.00469 0.00048	7.80 1.00822 0.00050	7.70 1.00284 0.00049
7.85 1.00952 0.00050	7.85 1.01359 0.00050	7.75 1.00755 0.00050
7.90 1.01504 0.00048	7.90 1.01627 0.00049	7.80 1.01354 0.00050
7.95 1.01869 0.00050	7.95 1.02124 0.00050	7.85 1.01689 0.00050
8.00 1.02286 0.00048	8.00 1.02681 0.00049	7.90 1.02112 0.00051

239	250	359
6.80 0.91471 0.00049	6.80 0.91506 0.00049	6.90 0.92198 0.00050
6.85 0.92008 0.00049	6.85 0.92015 0.00049	6.95 0.92689 0.00050
6.90 0.92586 0.00046	6.90 0.92492 0.00051	7.00 0.93204 0.00051
6.95 0.93026 0.00050	6.95 0.93066 0.00049	7.05 0.93702 0.00048
7.00 0.93638 0.00048	7.00 0.93546 0.00048	7.10 0.94212 0.00049
7.05 0.94065 0.00049	7.05 0.94117 0.00050	7.15 0.94575 0.00050
7.10 0.94554 0.00051	7.10 0.94549 0.00050	7.20 0.95192 0.00049
7.15 0.95126 0.00049	7.15 0.94975 0.00050	7.25 0.95604 0.00050
7.20 0.95576 0.00050	7.20 0.95630 0.00049	7.30 0.96047 0.00050
7.25 0.96150 0.00050	7.25 0.96059 0.00049	7.35 0.96592 0.00049
7.30 0.96547 0.00049	7.30 0.96587 0.00050	7.40 0.97192 0.00051
7.35 0.97047 0.00050	7.35 0.96989 0.00048	7.45 0.97591 0.00050
7.40 0.97630 0.00049	7.40 0.97408 0.00051	7.50 0.98035 0.00048
7.45 0.98055 0.00049	7.45 0.98050 0.00051	7.55 0.98570 0.00051
7.50 0.98623 0.00050	7.50 0.98487 0.00048	7.60 0.98948 0.00050
7.55 0.98988 0.00049	7.55 0.98886 0.00050	7.65 0.99461 0.00049
7.60 0.99495 0.00050	7.60 0.99377 0.00048	7.70 0.99949 0.00050
7.65 0.99944 0.00050	7.65 0.99873 0.00049	7.75 1.00406 0.00051
7.70 1.00498 0.00049	7.70 1.00318 0.00050	7.80 1.00816 0.00050
7.75 1.00851 0.00051	7.75 1.00857 0.00049	7.85 1.01275 0.00050
7.80 1.01403 0.00050	7.80 1.01295 0.00049	7.90 1.01718 0.00051
7.85 1.01760 0.00050	7.85 1.01734 0.00050	7.95 1.02211 0.00051
7.90 1.02296 0.00051	7.90 1.02183 0.00051	8.00 1.02636 0.00050

478	500	600
7.00 0.92144 0.00049	7.00 0.91831 0.00050	7.20 0.91813 0.00051
7.05 0.92710 0.00050	7.05 0.92384 0.00050	7.25 0.92351 0.00051
7.10 0.93186 0.00050	7.10 0.92864 0.00050	7.30 0.92788 0.00049
7.15 0.93659 0.00049	7.15 0.93347 0.00047	7.40 0.93809 0.00049
7.20 0.94149 0.00050	7.20 0.93889 0.00049	7.45 0.94195 0.00050
7.25 0.94593 0.00050	7.25 0.94436 0.00050	7.50 0.94781 0.00050
7.30 0.95069 0.00050	7.30 0.94890 0.00051	7.55 0.95227 0.00050
7.35 0.95720 0.00050	7.35 0.95385 0.00051	7.60 0.95633 0.00049
7.40 0.96141 0.00050	7.40 0.95797 0.00050	7.65 0.96063 0.00050
7.45 0.96611 0.00050	7.45 0.96299 0.00050	7.70 0.96647 0.00051
7.50 0.97014 0.00051	7.50 0.96780 0.00049	7.75 0.97072 0.00049
7.55 0.97581 0.00051	7.55 0.97186 0.00049	7.80 0.97494 0.00051
7.60 0.98101 0.00050	7.60 0.97707 0.00050	7.85 0.97976 0.00048
7.65 0.98347 0.00049	7.65 0.98266 0.00050	7.90 0.98386 0.00050
7.70 0.98878 0.00051	7.70 0.98622 0.00049	7.95 0.98843 0.00049
7.75 0.99385 0.00049	7.75 0.99027 0.00050	8.00 0.99290 0.00050
7.80 0.99835 0.00049	7.80 0.99531 0.00049	8.05 0.99800 0.00049
7.85 1.00282 0.00048	7.85 0.99992 0.00049	8.10 1.00148 0.00048
7.90 1.00808 0.00051	7.90 1.00469 0.00050	8.15 1.00592 0.00050
7.95 1.01202 0.00051	7.95 1.00961 0.00050	8.20 1.01055 0.00049
8.00 1.01642 0.00050	8.00 1.01412 0.00050	8.25 1.01546 0.00050
8.05 1.02045 0.00050	8.05 1.01820 0.00049	8.30 1.01990 0.00050
8.10 1.02549 0.00050	8.10 1.02210 0.00050	

650	700	750
7.40 0.91974 0.00049	7.70 0.91975 0.00049	8.50 0.92089 0.00050
7.45 0.92541 0.00049	7.75 0.92519 0.00049	8.55 0.92452 0.00050
7.50 0.93038 0.00050	7.80 0.92989 0.00049	8.60 0.92902 0.00049
7.55 0.93489 0.00050	7.85 0.93433 0.00050	8.65 0.93258 0.00048
7.60 0.94013 0.00050	7.90 0.93913 0.00050	8.70 0.93693 0.00050
7.65 0.94455 0.00051	7.95 0.94417 0.00050	8.75 0.94137 0.00049
7.70 0.94877 0.00050	8.00 0.94820 0.00049	8.80 0.94582 0.00052
7.75 0.95372 0.00049	8.05 0.95197 0.00049	8.85 0.95035 0.00049
7.80 0.95823 0.00048	8.10 0.95634 0.00050	8.90 0.95403 0.00050
7.85 0.96307 0.00049	8.15 0.96127 0.00049	8.95 0.95831 0.00050
7.90 0.96807 0.00050	8.20 0.96517 0.00050	9.00 0.96183 0.00051
7.95 0.97248 0.00049	8.25 0.96939 0.00050	9.05 0.96569 0.00050
8.00 0.97565 0.00051	8.30 0.97475 0.00049	9.10 0.96958 0.00050
8.05 0.98110 0.00050	8.35 0.97947 0.00051	9.15 0.97277 0.00050
8.10 0.98504 0.00048	8.40 0.98241 0.00050	9.20 0.97712 0.00049
8.15 0.98958 0.00050	8.45 0.98608 0.00050	9.25 0.98153 0.00050
8.20 0.99434 0.00050	8.50 0.99154 0.00051	9.30 0.98590 0.00050
8.25 0.99888 0.00050	8.55 0.99504 0.00050	9.35 0.99082 0.00052
8.30 1.00346 0.00049	8.60 0.99930 0.00050	9.40 0.99286 0.00049
8.35 1.00654 0.00050	8.65 1.00259 0.00050	9.45 0.99686 0.00049
8.40 1.01166 0.00052	8.70 1.00739 0.00049	9.50 1.00062 0.00049

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8.45 1.01590 0.00051	8.75 1.01191 0.00051	9.55 1.00446 0.00051
8.50 1.02026 0.00051	8.80 1.01614 0.00050	9.60 1.00776 0.00049
8.55 1.02393 0.00051	8.85 1.01931 0.00051	9.65 1.01104 0.00050
8.60 1.02789 0.00050	8.90 1.02504 0.00049	9.70 1.01438 0.00049
		9.75 1.01829 0.00050
		9.80 1.02194 0.00049

752	754	755
8.60 0.92044 0.00048	8.70 0.91774 0.00049	8.90 0.92158 0.00049
8.65 0.92429 0.00051	8.75 0.92136 0.00048	8.95 0.92494 0.00051
8.70 0.92861 0.00050	8.80 0.92656 0.00049	9.00 0.92934 0.00048
8.75 0.93325 0.00051	8.85 0.92923 0.00051	9.05 0.93306 0.00050
8.80 0.93769 0.00049	8.90 0.93389 0.00050	9.10 0.93751 0.00052
8.85 0.94144 0.00050	8.95 0.93812 0.00048	9.15 0.94022 0.00051
8.90 0.94517 0.00048	9.00 0.94210 0.00049	9.20 0.94476 0.00049
8.95 0.94963 0.00049	9.05 0.94611 0.00051	9.25 0.94833 0.00051
9.00 0.95340 0.00049	9.10 0.95039 0.00049	9.30 0.95253 0.00050
9.05 0.95651 0.00050	9.15 0.95347 0.00050	9.35 0.95735 0.00048
9.10 0.96161 0.00049	9.20 0.95754 0.00049	9.40 0.96015 0.00048
9.15 0.96465 0.00049	9.25 0.96147 0.00050	9.45 0.96359 0.00049
9.20 0.96873 0.00050	9.30 0.96443 0.00050	9.50 0.96786 0.00049
9.25 0.97335 0.00050	9.35 0.96926 0.00048	9.55 0.97133 0.00050
9.30 0.97726 0.00049	9.40 0.97224 0.00050	9.60 0.97555 0.00049
9.35 0.98039 0.00050	9.45 0.97720 0.00049	9.65 0.97844 0.00050
9.40 0.98593 0.00050	9.50 0.98064 0.00050	9.70 0.98334 0.00050
9.45 0.98828 0.00051	9.55 0.98431 0.00051	9.75 0.98744 0.00051
9.50 0.99218 0.00050	9.60 0.98752 0.00050	9.80 0.99002 0.00049
9.55 0.99627 0.00049	9.65 0.99233 0.00048	9.85 0.99350 0.00050
9.60 0.99957 0.00050	9.70 0.99602 0.00050	9.90 0.99825 0.00050
9.65 1.00282 0.00050	9.75 0.99902 0.00051	9.95 1.00091 0.00050
9.70 1.00759 0.00050	9.80 1.00263 0.00050	10.00 1.00370 0.00050
9.75 1.01070 0.00050	9.85 1.00693 0.00050	10.05 1.00778 0.00050
9.80 1.01401 0.00050	9.90 1.01007 0.00049	10.10 1.01220 0.00050
9.85 1.01783 0.00050	9.95 1.01382 0.00050	10.15 1.01562 0.00049
9.90 1.02154 0.00048	10.00 1.01716 0.00051	10.20 1.01959 0.00050
	10.05 1.02056 0.00050	
	10.10 1.02443 0.00048	

8.95 0.97697 0.00039	8.35 0.98161 0.00039	8.30 0.99251 0.00040
9.00 0.98054 0.00039	8.40 0.98567 0.00040	8.35 0.99602 0.00040
9.05 0.98332 0.00038	8.45 0.98877 0.00040	8.50 1.00669 0.00039
9.10 0.98681 0.00037	8.50 0.99180 0.00040	8.55 1.00961 0.00040
9.15 0.98956 0.00037	8.55 0.99464 0.00040	8.60 1.01286 0.00039
9.20 0.99219 0.00039	8.60 0.99817 0.00039	8.65 1.01556 0.00041
9.25 0.99625 0.00039	8.65 1.00104 0.00039	8.70 1.01959 0.00041
9.30 0.99850 0.00037	8.70 1.00549 0.00040	
9.35 1.00070 0.00037	8.75 1.00865 0.00039	
9.40 1.00409 0.00037	8.80 1.01181 0.00039	
9.45 1.00731 0.00038	8.85 1.01491 0.00040	
9.50 1.01039 0.00038	8.90 1.01833 0.00040	
9.55 1.01295 0.00038		
9.60 1.01542 0.00037		
9.65 1.01821 0.00038		
9.70 1.02135 0.00037		

35	40	50
7.10 0.91805 0.00041	6.80 0.91771 0.00041	6.40 0.91483 0.00043
7.15 0.92326 0.00040	6.85 0.92090 0.00041	6.45 0.92132 0.00042
7.20 0.92670 0.00041	6.90 0.92637 0.00042	6.50 0.92644 0.00042
7.25 0.93123 0.00041	6.95 0.92985 0.00041	6.55 0.93025 0.00042
7.30 0.93545 0.00041	7.00 0.93502 0.00041	6.60 0.93378 0.00042
7.35 0.93841 0.00040	7.05 0.93923 0.00042	6.65 0.93830 0.00043
7.40 0.94301 0.00041	7.10 0.94326 0.00041	6.70 0.94414 0.00043
7.45 0.94734 0.00040	7.15 0.94735 0.00043	6.75 0.94821 0.00042
7.50 0.95095 0.00040	7.20 0.95156 0.00041	6.80 0.95292 0.00043
7.55 0.95523 0.00041	7.25 0.95546 0.00042	6.85 0.95777 0.00044
7.60 0.95961 0.00040	7.30 0.95968 0.00042	6.90 0.96111 0.00043
7.65 0.96293 0.00040	7.35 0.96356 0.00041	6.95 0.96708 0.00042
7.70 0.96699 0.00041	7.40 0.96786 0.00041	7.00 0.96964 0.00043
7.75 0.97047 0.00039	7.45 0.97210 0.00042	7.05 0.97462 0.00043
7.80 0.97444 0.00042	7.50 0.97688 0.00041	7.10 0.97951 0.00043
7.85 0.97798 0.00041	7.55 0.97973 0.00043	7.15 0.98391 0.00043
7.90 0.98199 0.00041	7.60 0.98487 0.00042	7.20 0.98741 0.00042
7.95 0.98616 0.00041	7.65 0.98790 0.00043	7.25 0.99153 0.00043
8.05 0.99229 0.00041	7.70 0.99305 0.00041	7.30 0.99659 0.00043
8.15 1.00062 0.00040	7.75 0.99610 0.00043	7.35 1.00062 0.00044
8.20 1.00446 0.00041	7.80 0.99950 0.00041	7.40 1.00441 0.00042
8.25 1.00760 0.00041	7.85 1.00375 0.00042	7.45 1.00853 0.00042
8.30 1.01044 0.00041	7.90 1.00712 0.00043	7.50 1.01228 0.00043
8.35 1.01460 0.00040	7.95 1.01176 0.00042	7.55 1.01650 0.00042
8.40 1.01787 0.00040	8.00 1.01479 0.00042	7.60 1.02020 0.00043
	8.05 1.01857 0.00042	
	8.10 1.02190 0.00041	

60	70	80
6.20 0.91982 0.00043	6.00 0.91696 0.00044	5.90 0.91985 0.00045
6.25 0.92517 0.00043	6.05 0.92201 0.00043	5.95 0.92457 0.00044
6.30 0.92989 0.00045	6.10 0.92652 0.00044	6.00 0.93020 0.00045
6.35 0.93517 0.00044	6.15 0.93217 0.00044	6.05 0.93557 0.00045
6.40 0.94043 0.00043	6.20 0.93707 0.00045	6.10 0.93978 0.00045
6.45 0.94441 0.00043	6.25 0.94257 0.00045	6.15 0.94536 0.00045
6.50 0.94930 0.00044	6.30 0.94692 0.00045	6.20 0.94942 0.00045
6.55 0.95428 0.00043	6.35 0.95213 0.00043	6.25 0.95428 0.00044
6.60 0.95870 0.00043	6.40 0.95678 0.00046	6.30 0.96097 0.00045
6.65 0.96394 0.00043	6.45 0.96131 0.00043	6.35 0.96475 0.00045
6.70 0.96716 0.00044	6.50 0.96557 0.00044	6.40 0.96933 0.00045
6.75 0.97310 0.00043	6.55 0.97093 0.00045	6.45 0.97451 0.00044
6.80 0.97775 0.00043	6.60 0.97570 0.00044	6.50 0.97975 0.00044
6.85 0.98171 0.00044	6.65 0.98005 0.00043	6.55 0.98433 0.00045
6.90 0.98626 0.00045	6.70 0.98493 0.00044	6.60 0.98861 0.00046
6.95 0.99082 0.00043	6.75 0.98932 0.00044	6.65 0.99423 0.00045
7.00 0.99442 0.00045	6.80 0.99379 0.00045	6.70 0.99747 0.00046
7.05 0.99898 0.00044	6.85 0.99912 0.00044	6.75 1.00259 0.00044
7.10 1.00448 0.00044	6.90 1.00257 0.00043	6.80 1.00661 0.00044
7.15 1.00797 0.00044	6.95 1.00819 0.00043	6.85 1.01078 0.00044
7.20 1.01241 0.00045	7.00 1.01121 0.00044	6.90 1.01661 0.00046
7.25 1.01653 0.00043	7.05 1.01580 0.00044	6.95 1.02032 0.00044
7.30 1.02079 0.00043	7.10 1.02048 0.00043	7.00 1.02539 0.00045

90	100	120
5.80 0.91860 0.00045	5.70 0.91600 0.00044	5.60 0.91569 0.00044
5.85 0.92410 0.00044	5.75 0.92138 0.00045	5.65 0.92170 0.00046
5.90 0.92958 0.00045	5.80 0.92639 0.00045	5.70 0.92700 0.00043
5.95 0.93362 0.00045	5.85 0.93172 0.00044	5.75 0.93227 0.00044
6.00 0.94044 0.00044	5.90 0.93754 0.00045	5.80 0.93751 0.00045
6.05 0.94460 0.00044	5.95 0.94213 0.00045	5.85 0.94292 0.00047
6.10 0.95033 0.00045	6.00 0.94772 0.00045	5.90 0.94756 0.00045
6.15 0.95487 0.00045	6.05 0.95214 0.00045	5.95 0.95361 0.00044
6.20 0.95928 0.00045	6.10 0.95811 0.00045	6.00 0.95833 0.00047
6.25 0.96531 0.00045	6.15 0.96228 0.00044	6.05 0.96289 0.00045
6.30 0.96983 0.00044	6.20 0.96761 0.00045	6.10 0.96874 0.00046
6.35 0.97467 0.00046	6.25 0.97332 0.00044	6.15 0.97284 0.00045
6.40 0.97935 0.00045	6.30 0.97809 0.00045	6.20 0.97815 0.00046
6.45 0.98449 0.00045	6.35 0.98247 0.00045	6.25 0.98296 0.00045
6.50 0.98806 0.00044	6.40 0.98662 0.00046	6.30 0.98758 0.00046
6.55 0.99417 0.00045	6.45 0.99169 0.00045	6.35 0.99285 0.00045
6.60 0.99875 0.00046	6.50 0.99677 0.00044	6.40 0.99782 0.00046
6.65 1.00306 0.00045	6.55 1.00185 0.00044	6.45 1.00289 0.00045
6.70 1.00709 0.00045	6.60 1.00639 0.00046	6.50 1.00685 0.00046
6.75 1.01268 0.00045	6.65 1.01034 0.00046	6.55 1.01189 0.00045
6.80 1.01713 0.00044	6.70 1.01482 0.00047	6.60 1.01685 0.00045
6.85 1.02141 0.00045	6.75 1.02050 0.00044	6.65 1.02156 0.00045
6.90 1.02597 0.00045	6.80 1.02419 0.00045	6.70 1.02623 0.00046

130	150	200
5.60 0.92101 0.00045	5.50 0.91679 0.00046	5.40 0.91450 0.00045
5.65 0.92657 0.00046	5.55 0.92228 0.00045	5.45 0.91951 0.00045
5.70 0.93170 0.00046	5.60 0.92832 0.00046	5.50 0.92593 0.00045
5.75 0.93729 0.00045	5.65 0.93341 0.00045	5.55 0.93160 0.00045
5.80 0.94185 0.00045	5.70 0.93740 0.00046	5.60 0.93590 0.00046
5.85 0.94748 0.00045	5.75 0.94369 0.00045	5.65 0.94132 0.00045
5.90 0.95274 0.00045	5.80 0.94818 0.00046	5.70 0.94683 0.00045
5.95 0.95813 0.00045	5.85 0.95335 0.00046	5.75 0.95181 0.00045
6.00 0.96380 0.00046	5.90 0.95868 0.00045	5.80 0.95662 0.00044
6.05 0.96825 0.00044	5.95 0.96446 0.00045	5.85 0.96245 0.00046
6.10 0.97393 0.00045	6.00 0.96808 0.00045	5.90 0.96772 0.00046
6.15 0.97787 0.00045	6.05 0.97465 0.00045	5.95 0.97291 0.00045
6.20 0.98307 0.00046	6.10 0.97895 0.00046	6.00 0.97717 0.00046
6.25 0.98766 0.00045	6.15 0.98393 0.00046	6.05 0.98264 0.00045
6.30 0.99329 0.00047	6.20 0.98882 0.00046	6.10 0.98721 0.00046
6.35 0.99700 0.00046	6.25 0.99352 0.00044	6.15 0.99191 0.00046
6.40 1.00255 0.00046	6.30 0.99927 0.00044	6.20 0.99766 0.00046
6.45 1.00740 0.00045	6.35 1.00306 0.00046	6.25 1.00156 0.00045
6.50 1.01263 0.00045	6.40 1.00811 0.00046	6.30 1.00716 0.00046
6.55 1.01719 0.00044	6.45 1.01224 0.00045	6.35 1.01170 0.00046
6.60 1.02134 0.00046	6.50 1.01814 0.00046	6.40 1.01612 0.00046

239	250	359
5.40 0.91905 0.00046	5.40 0.91867 0.00044	5.40 0.92031 0.00046
5.45 0.92392 0.00044	5.45 0.92482 0.00044	5.45 0.92477 0.00045
5.50 0.92846 0.00046	5.50 0.92994 0.00044	5.50 0.93140 0.00045
5.55 0.93459 0.00045	5.55 0.93481 0.00047	5.55 0.93652 0.00045
5.60 0.93936 0.00045	5.60 0.94027 0.00045	5.60 0.94155 0.00046
5.65 0.94499 0.00045	5.65 0.94549 0.00046	5.65 0.94617 0.00045
5.70 0.95062 0.00045	5.70 0.95099 0.00045	5.70 0.95151 0.00046
5.75 0.95516 0.00045	5.75 0.95554 0.00045	5.75 0.95683 0.00044
5.80 0.96023 0.00044	5.80 0.96054 0.00046	5.80 0.96178 0.00045
5.85 0.96568 0.00046	5.85 0.96642 0.00045	5.85 0.96725 0.00046
5.90 0.97081 0.00045	5.90 0.97107 0.00046	5.90 0.97195 0.00045
5.95 0.97559 0.00046	5.95 0.97619 0.00044	5.95 0.97660 0.00045
6.00 0.98087 0.00047	6.00 0.98171 0.00045	6.00 0.98226 0.00045
6.05 0.98561 0.00044	6.05 0.98661 0.00046	6.05 0.98600 0.00046
6.10 0.99058 0.00046	6.10 0.99104 0.00046	6.10 0.99138 0.00046
6.15 0.99613 0.00046	6.15 0.99620 0.00047	6.15 0.99603 0.00046
6.20 1.00063 0.00047	6.20 1.00042 0.00046	6.20 1.00063 0.00046
6.25 1.00464 0.00044	6.25 1.00471 0.00046	6.25 1.00615 0.00045
6.30 1.00953 0.00046	6.30 1.00963 0.00045	6.30 1.01099 0.00045
6.35 1.01450 0.00047	6.35 1.01489 0.00048	6.35 1.01461 0.00047
6.40 1.01828 0.00046	6.40 1.02011 0.00045	6.40 1.01959 0.00046

478	500	600
5.40 0.91494 0.00048	5.50 0.92402 0.00046	5.60 0.92094 0.00046
5.45 0.92121 0.00046	5.55 0.92909 0.00046	5.65 0.92556 0.00047
5.50 0.92590 0.00046	5.60 0.93446 0.00047	5.70 0.93110 0.00046
5.55 0.93160 0.00046	5.65 0.93913 0.00045	5.75 0.93547 0.00046
5.60 0.93673 0.00046	5.70 0.94442 0.00045	5.80 0.94021 0.00045
5.65 0.94103 0.00046	5.75 0.94954 0.00046	5.85 0.94515 0.00045
5.70 0.94675 0.00046	5.80 0.95475 0.00046	5.90 0.94992 0.00046
5.75 0.95118 0.00047	5.85 0.95931 0.00046	5.95 0.95560 0.00046
5.80 0.95632 0.00048	5.90 0.96445 0.00047	6.00 0.96093 0.00045
5.85 0.96145 0.00046	5.95 0.96878 0.00046	6.05 0.96401 0.00046
5.90 0.96589 0.00046	6.00 0.97409 0.00046	6.10 0.96972 0.00045
5.95 0.97086 0.00046	6.05 0.98019 0.00045	6.15 0.97389 0.00047
6.00 0.97572 0.00046	6.10 0.98396 0.00047	6.20 0.98008 0.00046
6.05 0.98061 0.00044	6.15 0.98872 0.00046	6.25 0.98423 0.00046
6.10 0.98506 0.00046	6.20 0.99326 0.00045	6.30 0.98801 0.00047
6.15 0.99051 0.00046	6.25 0.99730 0.00047	6.35 0.99215 0.00045
6.20 0.99455 0.00046	6.30 1.00272 0.00045	6.40 0.99799 0.00046
6.25 0.99973 0.00046	6.35 1.00728 0.00046	6.45 1.00130 0.00047
6.30 1.00330 0.00046	6.40 1.01072 0.00046	6.50 1.00519 0.00046
6.35 1.00834 0.00045	6.45 1.01669 0.00044	6.55 1.01027 0.00046
6.40 1.01322 0.00045	6.50 1.02022 0.00046	6.60 1.01482 0.00046
6.45 1.01810 0.00046		6.65 1.01906 0.00046
6.50 1.02267 0.00046		6.70 1.02293 0.00047

650	700	750
5.70 0.91923 0.00046	5.90 0.91904 0.00046	6.40 0.91582 0.00045
5.75 0.92397 0.00045	5.95 0.92405 0.00046	6.45 0.91953 0.00046
5.80 0.92830 0.00047	6.00 0.92780 0.00045	6.50 0.92405 0.00045
5.85 0.93352 0.00045	6.05 0.93277 0.00045	6.55 0.92890 0.00046
5.90 0.93862 0.00047	6.10 0.93746 0.00047	6.60 0.93281 0.00046
5.95 0.94268 0.00046	6.15 0.94251 0.00046	6.65 0.93673 0.00046
6.00 0.94773 0.00046	6.20 0.94745 0.00046	6.70 0.94130 0.00047
6.05 0.95278 0.00045	6.25 0.95143 0.00047	6.75 0.94463 0.00046
6.10 0.95767 0.00046	6.30 0.95533 0.00047	6.80 0.94933 0.00046
6.15 0.96244 0.00046	6.35 0.95968 0.00047	6.85 0.95330 0.00046
6.20 0.96707 0.00045	6.40 0.96454 0.00046	6.90 0.95660 0.00046
6.25 0.97085 0.00045	6.45 0.96969 0.00048	6.95 0.96130 0.00045
6.30 0.97536 0.00045	6.50 0.97323 0.00046	7.00 0.96503 0.00046
6.35 0.98062 0.00046	6.55 0.97847 0.00046	7.05 0.96965 0.00047
6.40 0.98495 0.00046	6.60 0.98185 0.00045	7.10 0.97330 0.00047
6.45 0.99029 0.00046	6.65 0.98568 0.00046	7.15 0.97711 0.00047
6.50 0.99415 0.00045	6.70 0.99169 0.00046	7.20 0.98147 0.00047
6.55 0.99821 0.00047	6.75 0.99493 0.00046	7.25 0.98517 0.00047
6.60 1.00255 0.00046	6.80 0.99897 0.00046	7.30 0.98957 0.00047
6.65 1.00657 0.00047	6.85 1.00274 0.00045	7.35 0.99390 0.00046
6.70 1.01090 0.00046	6.90 1.00833 0.00045	7.40 0.99720 0.00046
6.75 1.01653 0.00047	6.95 1.01192 0.00046	7.45 1.00079 0.00047

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6.80 1.01984 0.00047	7.00 1.01573 0.00047	7.50 1.00453 0.00047
	7.05 1.01952 0.00047	7.55 1.00822 0.00046
	7.10 1.02337 0.00046	7.60 1.01166 0.00047
		7.65 1.01630 0.00046
		7.70 1.01920 0.00046

752	754	755
6.50 0.91818 0.00044	6.60 0.91861 0.00045	6.70 0.91912 0.00046
6.55 0.92251 0.00046	6.65 0.92313 0.00045	6.75 0.92298 0.00044
6.60 0.92636 0.00046	6.70 0.92797 0.00046	6.80 0.92725 0.00047
6.65 0.93127 0.00047	6.75 0.93225 0.00045	6.85 0.93109 0.00046
6.70 0.93502 0.00046	6.80 0.93516 0.00045	6.90 0.93516 0.00046
6.75 0.93871 0.00046	6.85 0.93976 0.00046	6.95 0.93815 0.00047
6.80 0.94333 0.00046	6.90 0.94340 0.00046	7.00 0.94270 0.00046
6.85 0.94743 0.00047	6.95 0.94771 0.00047	7.05 0.94619 0.00046
6.90 0.95102 0.00046	7.00 0.95150 0.00046	7.10 0.95015 0.00047
6.95 0.95531 0.00046	7.05 0.95612 0.00046	7.15 0.95422 0.00046
7.00 0.95897 0.00046	7.10 0.95916 0.00048	7.20 0.95792 0.00045
7.05 0.96352 0.00046	7.15 0.96309 0.00046	7.25 0.96174 0.00045
7.10 0.96715 0.00046	7.20 0.96734 0.00045	7.30 0.96615 0.00047
7.15 0.97131 0.00044	7.25 0.97179 0.00044	7.35 0.97001 0.00045
7.20 0.97620 0.00047	7.30 0.97433 0.00047	7.40 0.97446 0.00046
7.25 0.97867 0.00046	7.35 0.97848 0.00046	7.45 0.97671 0.00045
7.30 0.98267 0.00046	7.40 0.98220 0.00045	7.50 0.98100 0.00046
7.35 0.98693 0.00047	7.45 0.98580 0.00047	7.55 0.98436 0.00046
7.40 0.98998 0.00046	7.50 0.99077 0.00046	7.60 0.98804 0.00045
7.45 0.99374 0.00046	7.55 0.99466 0.00046	7.65 0.99184 0.00046
7.50 0.99807 0.00047	7.60 0.99731 0.00047	7.70 0.99531 0.00046
7.55 1.00181 0.00046	7.65 1.00172 0.00046	7.75 0.99969 0.00046
7.60 1.00541 0.00046	7.70 1.00416 0.00046	7.80 1.00306 0.00046
7.65 1.00992 0.00046	7.75 1.00897 0.00046	7.85 1.00572 0.00047
7.70 1.01330 0.00047	7.80 1.01245 0.00046	7.90 1.01051 0.00047
7.75 1.01703 0.00046	7.85 1.01589 0.00047	7.95 1.01349 0.00046
7.80 1.02004 0.00046	7.90 1.02007 0.00046	8.00 1.01724 0.00046

12.60 0.99248 0.00040	11.25 0.95710 0.00045	11.05 0.95775 0.00044
12.70 0.99847 0.00041	11.30 0.96050 0.00044	11.10 0.96078 0.00045
12.80 1.00356 0.00041	11.35 0.96285 0.00043	11.15 0.96498 0.00044
12.90 1.00834 0.00040	11.40 0.96700 0.00044	11.20 0.96779 0.00044
13.00 1.01348 0.00041	11.45 0.97042 0.00043	11.25 0.97081 0.00045
13.10 1.01837 0.00041	11.50 0.97388 0.00043	11.30 0.97443 0.00043
	11.55 0.97711 0.00044	11.35 0.97751 0.00044
	11.60 0.97964 0.00044	11.40 0.98095 0.00045
	11.65 0.98171 0.00045	11.45 0.98429 0.00045
	11.70 0.98593 0.00044	11.50 0.98762 0.00045
	11.75 0.98895 0.00043	11.55 0.98947 0.00044
	11.80 0.99131 0.00044	11.60 0.99379 0.00044
	11.85 0.99512 0.00043	11.65 0.99554 0.00044
	11.90 0.99812 0.00044	11.70 1.00007 0.00044
	11.95 1.00111 0.00042	11.75 1.00265 0.00044
	12.00 1.00346 0.00043	11.80 1.00609 0.00044
	12.05 1.00681 0.00044	11.85 1.00835 0.00045
	12.10 1.00971 0.00043	11.90 1.01186 0.00043
	12.15 1.01294 0.00044	11.95 1.01423 0.00044
	12.20 1.01522 0.00044	12.00 1.01733 0.00046
	12.25 1.01747 0.00043	
	12.30 1.02086 0.00043	

35	40	50
10.30 0.92135 0.00046	10.00 0.92032 0.00046	9.60 0.91970 0.00048
10.35 0.92501 0.00045	10.05 0.92514 0.00046	9.65 0.92458 0.00048
10.40 0.92889 0.00044	10.10 0.92836 0.00047	9.70 0.92977 0.00049
10.45 0.93222 0.00047	10.15 0.93226 0.00047	9.75 0.93334 0.00048
10.50 0.93621 0.00046	10.20 0.93677 0.00047	9.80 0.93721 0.00048
10.55 0.94040 0.00045	10.25 0.94071 0.00048	9.85 0.94212 0.00047
10.60 0.94249 0.00046	10.30 0.94438 0.00047	9.90 0.94571 0.00048
10.65 0.94811 0.00045	10.35 0.94852 0.00047	9.95 0.95061 0.00047
10.70 0.95101 0.00045	10.40 0.95173 0.00048	10.00 0.95382 0.00046
10.75 0.95486 0.00044	10.45 0.95620 0.00046	10.05 0.95864 0.00047
10.80 0.95746 0.00046	10.50 0.95911 0.00047	10.10 0.96290 0.00048
10.85 0.96155 0.00046	10.55 0.96427 0.00046	10.15 0.96651 0.00048
10.90 0.96503 0.00045	10.60 0.96730 0.00047	10.20 0.97026 0.00048
10.95 0.96905 0.00045	10.65 0.97127 0.00047	10.25 0.97474 0.00048
11.00 0.97232 0.00047	10.70 0.97379 0.00045	10.30 0.97884 0.00049
11.05 0.97547 0.00045	10.75 0.97727 0.00046	10.35 0.98248 0.00048
11.10 0.97852 0.00045	10.80 0.98079 0.00046	10.40 0.98513 0.00048
11.15 0.98220 0.00045	10.85 0.98520 0.00047	10.45 0.98922 0.00047
11.20 0.98514 0.00046	10.90 0.98931 0.00046	10.50 0.99396 0.00048
11.25 0.98973 0.00045	10.95 0.99187 0.00046	10.55 0.99827 0.00047
11.30 0.99191 0.00045	11.00 0.99494 0.00045	10.60 1.00082 0.00047
11.35 0.99499 0.00044	11.05 0.99958 0.00046	10.65 1.00479 0.00049
11.40 0.99796 0.00045	11.10 1.00323 0.00046	10.70 1.00797 0.00047
11.45 1.00145 0.00045	11.15 1.00602 0.00046	10.75 1.01213 0.00048
11.50 1.00503 0.00046	11.20 1.00875 0.00047	10.80 1.01614 0.00049

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11.55 1.00905 0.00046	11.25 1.01357 0.00045	10.85 1.01953 0.00048
11.60 1.01171 0.00045	11.30 1.01614 0.00046	10.90 1.02354 0.00047
11.65 1.01471 0.00045	11.35 1.01929 0.00046	
11.70 1.01821 0.00046	11.40 1.02268 0.00045	

60	70	80
9.30 0.91455 0.00048	9.20 0.92171 0.00050	9.00 0.91270 0.00051
9.35 0.91847 0.00049	9.25 0.92551 0.00050	9.05 0.91667 0.00049
9.40 0.92385 0.00049	9.30 0.92941 0.00049	9.10 0.92092 0.00049
9.45 0.92896 0.00049	9.35 0.93382 0.00051	9.15 0.92678 0.00050
9.50 0.93249 0.00048	9.40 0.93870 0.00049	9.20 0.93107 0.00050
9.55 0.93715 0.00049	9.45 0.94347 0.00049	9.25 0.93559 0.00050
9.60 0.94208 0.00048	9.50 0.94815 0.00048	9.30 0.94074 0.00051
9.65 0.94619 0.00049	9.55 0.95309 0.00050	9.35 0.94486 0.00050
9.70 0.95108 0.00049	9.60 0.95717 0.00048	9.40 0.94919 0.00051
9.75 0.95399 0.00048	9.65 0.96057 0.00049	9.45 0.95410 0.00050
9.80 0.95885 0.00049	9.70 0.96555 0.00050	9.50 0.95824 0.00051
9.85 0.96340 0.00049	9.75 0.96984 0.00047	9.55 0.96225 0.00049
9.90 0.96725 0.00048	9.80 0.97451 0.00049	9.60 0.96670 0.00050
9.95 0.97140 0.00049	9.85 0.97816 0.00049	9.65 0.97049 0.00050
10.00 0.97556 0.00050	9.90 0.98352 0.00050	9.70 0.97618 0.00050
10.05 0.97974 0.00050	9.95 0.98696 0.00050	9.75 0.98061 0.00051
10.10 0.98391 0.00048	10.00 0.99107 0.00051	9.80 0.98470 0.00051
10.15 0.98721 0.00049	10.05 0.99482 0.00051	9.85 0.98835 0.00050
10.20 0.99164 0.00048	10.10 0.99876 0.00049	9.90 0.99292 0.00049
10.25 0.99537 0.00048	10.15 1.00336 0.00049	9.95 0.99723 0.00052
10.30 1.00006 0.00049	10.20 1.00797 0.00049	10.00 1.00163 0.00051
10.35 1.00398 0.00050	10.25 1.01195 0.00050	10.05 1.00587 0.00050
10.40 1.00704 0.00049	10.30 1.01408 0.00049	10.10 1.00914 0.00050
10.45 1.01163 0.00047	10.35 1.02052 0.00048	10.15 1.01434 0.00050
10.50 1.01573 0.00048	10.40 1.02330 0.00050	10.20 1.01785 0.00050
10.55 1.01908 0.00049		10.25 1.02243 0.00050
10.60 1.02276 0.00048		10.30 1.02644 0.00049

90	100	120
9.00 0.91849 0.00050	8.90 0.91492 0.00050	8.90 0.92113 0.00051
9.05 0.92386 0.00051	8.95 0.91925 0.00050	8.95 0.92570 0.00050
9.10 0.92895 0.00050	9.00 0.92476 0.00051	9.00 0.93001 0.00051
9.15 0.93354 0.00051	9.05 0.92956 0.00052	9.05 0.93507 0.00051
9.20 0.93735 0.00050	9.10 0.93430 0.00052	9.10 0.94013 0.00050
9.25 0.94303 0.00050	9.15 0.93819 0.00051	9.15 0.94499 0.00050
9.30 0.94714 0.00051	9.20 0.94246 0.00051	9.20 0.94949 0.00051
9.35 0.95163 0.00049	9.25 0.94788 0.00049	9.25 0.95428 0.00050
9.40 0.95606 0.00050	9.30 0.95261 0.00051	9.30 0.95858 0.00052
9.45 0.96130 0.00052	9.35 0.95649 0.00051	9.35 0.96196 0.00051
9.50 0.96580 0.00050	9.40 0.96091 0.00052	9.40 0.96642 0.00050
9.55 0.97065 0.00051	9.45 0.96615 0.00050	9.45 0.97167 0.00050

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9.60 0.97441 0.00050	9.50 0.97141 0.00051	9.50 0.97680 0.00051
9.65 0.97899 0.00050	9.55 0.97513 0.00052	9.55 0.98023 0.00050
9.70 0.98300 0.00051	9.60 0.98019 0.00049	9.60 0.98486 0.00052
9.75 0.98750 0.00050	9.65 0.98482 0.00050	9.65 0.98962 0.00051
9.80 0.99183 0.00051	9.70 0.98883 0.00050	9.70 0.99497 0.00052
9.85 0.99640 0.00050	9.75 0.99227 0.00050	9.75 0.99909 0.00050
9.90 1.00030 0.00049	9.80 0.99746 0.00051	9.80 1.00421 0.00051
9.95 1.00427 0.00050	9.85 1.00023 0.00051	9.85 1.00821 0.00051
10.00 1.00888 0.00051	9.90 1.00623 0.00052	9.90 1.01208 0.00051
10.05 1.01247 0.00050	9.95 1.01037 0.00051	9.95 1.01572 0.00050
10.10 1.01800 0.00050	10.00 1.01343 0.00050	10.00 1.02044 0.00051
10.15 1.02119 0.00051	10.05 1.01981 0.00051	
10.20 1.02519 0.00051	10.10 1.02245 0.00051	

130	150	200
8.80 0.91399 0.00052	8.80 0.91540 0.00052	8.80 0.91548 0.00050
8.85 0.91879 0.00052	8.85 0.92038 0.00052	8.85 0.92083 0.00052
8.90 0.92242 0.00052	8.90 0.92546 0.00052	8.90 0.92551 0.00049
8.95 0.92852 0.00052	8.95 0.92992 0.00051	8.95 0.92973 0.00052
9.00 0.93345 0.00051	9.00 0.93450 0.00050	9.00 0.93532 0.00052
9.05 0.93813 0.00049	9.05 0.93904 0.00051	9.05 0.94035 0.00053
9.10 0.94324 0.00051	9.10 0.94439 0.00051	9.10 0.94429 0.00051
9.15 0.94781 0.00051	9.15 0.94914 0.00050	9.15 0.94930 0.00051
9.20 0.95152 0.00051	9.20 0.95435 0.00051	9.20 0.95320 0.00050
9.25 0.95621 0.00050	9.25 0.95807 0.00052	9.25 0.95866 0.00051
9.30 0.96154 0.00050	9.30 0.96393 0.00052	9.30 0.96406 0.00050
9.35 0.96572 0.00050	9.35 0.96735 0.00052	9.35 0.96804 0.00050
9.40 0.97050 0.00051	9.40 0.97269 0.00050	9.40 0.97287 0.00052
9.45 0.97564 0.00051	9.45 0.97679 0.00051	9.45 0.97757 0.00051
9.50 0.97938 0.00050	9.50 0.98193 0.00053	9.50 0.98185 0.00050
9.55 0.98302 0.00051	9.55 0.98594 0.00050	9.55 0.98589 0.00051
9.60 0.98822 0.00050	9.60 0.99024 0.00051	9.60 0.99116 0.00050
9.65 0.99307 0.00051	9.65 0.99479 0.00051	9.65 0.99459 0.00052
9.70 0.99728 0.00051	9.70 0.99939 0.00051	9.70 0.99965 0.00051
9.75 1.00221 0.00050	9.75 1.00288 0.00052	9.75 1.00452 0.00051
9.80 1.00551 0.00051	9.80 1.00756 0.00053	9.80 1.00801 0.00052
9.85 1.01023 0.00050	9.85 1.01222 0.00052	9.85 1.01171 0.00052
9.90 1.01572 0.00051	9.90 1.01607 0.00051	9.90 1.01602 0.00052
9.95 1.01838 0.00050	9.95 1.02092 0.00049	9.95 1.02019 0.00052
10.00 1.02189 0.00052	10.00 1.02516 0.00052	10.00 1.02436 0.00052

239	250	359
8.80 0.91216 0.00052	8.90 0.92039 0.00051	9.00 0.91494 0.00050
8.85 0.91632 0.00050	8.95 0.92500 0.00052	9.05 0.91980 0.00050
8.90 0.92173 0.00051	9.00 0.93050 0.00050	9.10 0.92405 0.00052
8.95 0.92689 0.00050	9.05 0.93521 0.00049	9.15 0.92957 0.00051
9.00 0.93192 0.00052	9.10 0.93966 0.00052	9.20 0.93451 0.00051

9.05 0.93596 0.00050	9.15 0.94397 0.00049	9.25 0.93871 0.00050
9.10 0.94123 0.00050	9.20 0.94898 0.00051	9.30 0.94345 0.00051
9.15 0.94581 0.00051	9.25 0.95451 0.00052	9.35 0.94804 0.00051
9.20 0.95100 0.00051	9.30 0.95886 0.00051	9.40 0.95156 0.00051
9.25 0.95439 0.00050	9.35 0.96266 0.00051	9.45 0.95761 0.00051
9.30 0.95971 0.00050	9.40 0.96750 0.00052	9.50 0.96145 0.00052
9.35 0.96476 0.00051	9.45 0.97343 0.00050	9.55 0.96549 0.00050
9.40 0.96977 0.00051	9.50 0.97695 0.00050	9.60 0.97078 0.00051
9.45 0.97249 0.00051	9.55 0.98158 0.00051	9.65 0.97494 0.00051
9.50 0.97719 0.00050	9.60 0.98662 0.00051	9.70 0.97979 0.00052
9.55 0.98231 0.00052	9.65 0.98968 0.00052	9.75 0.98349 0.00050
9.60 0.98610 0.00052	9.70 0.99406 0.00050	9.80 0.98841 0.00051
9.65 0.99146 0.00052	9.75 0.99909 0.00051	9.85 0.99264 0.00051
9.70 0.99585 0.00052	9.80 1.00345 0.00051	9.90 0.99707 0.00051
9.75 1.00035 0.00050	9.85 1.00722 0.00050	9.95 1.00068 0.00050
9.80 1.00431 0.00051	9.90 1.01171 0.00050	10.00 1.00512 0.00051
9.85 1.00901 0.00051	9.95 1.01494 0.00051	10.05 1.00887 0.00051
9.90 1.01369 0.00051	10.00 1.01931 0.00051	10.10 1.01296 0.00050
9.95 1.01752 0.00050	10.05 1.02470 0.00051	10.15 1.01790 0.00051
10.00 1.02118 0.00052	10.10 1.02827 0.00050	10.20 1.02238 0.00051

478	500	600
9.30 0.91853 0.00052	9.40 0.91976 0.00050	9.90 0.92099 0.00052
9.35 0.92322 0.00050	9.45 0.92439 0.00049	9.95 0.92493 0.00050
9.40 0.92617 0.00050	9.50 0.92879 0.00050	10.00 0.92979 0.00050
9.45 0.93281 0.00050	9.55 0.93347 0.00051	10.05 0.93324 0.00052
9.50 0.93662 0.00052	9.60 0.93772 0.00050	10.10 0.93819 0.00050
9.55 0.94133 0.00051	9.65 0.94220 0.00051	10.15 0.94209 0.00050
9.60 0.94617 0.00051	9.70 0.94778 0.00051	10.20 0.94706 0.00051
9.65 0.95039 0.00051	9.75 0.95150 0.00050	10.25 0.95046 0.00049
9.70 0.95367 0.00050	9.80 0.95592 0.00050	10.30 0.95529 0.00052
9.75 0.95946 0.00051	9.85 0.96131 0.00050	10.35 0.95937 0.00051
9.80 0.96352 0.00051	9.90 0.96529 0.00051	10.40 0.96375 0.00050
9.85 0.96702 0.00050	9.95 0.96994 0.00051	10.45 0.96727 0.00050
9.90 0.97266 0.00051	10.00 0.97305 0.00050	10.50 0.97049 0.00051
9.95 0.97659 0.00050	10.05 0.97743 0.00051	10.55 0.97613 0.00051
10.00 0.98148 0.00051	10.10 0.98151 0.00051	10.60 0.97943 0.00049
10.05 0.98556 0.00052	10.15 0.98570 0.00049	10.65 0.98402 0.00051
10.10 0.98930 0.00052	10.20 0.99087 0.00050	10.70 0.98825 0.00051
10.15 0.99228 0.00051	10.25 0.99543 0.00052	10.75 0.99209 0.00052
10.20 0.99763 0.00051	10.30 0.99877 0.00051	10.80 0.99637 0.00051
10.25 1.00220 0.00051	10.35 1.00247 0.00050	10.85 0.99925 0.00050
10.30 1.00535 0.00050	10.40 1.00547 0.00051	10.90 1.00420 0.00051
10.35 1.00880 0.00050	10.45 1.01053 0.00051	10.95 1.00739 0.00051
10.40 1.01433 0.00050	10.50 1.01562 0.00051	11.00 1.01096 0.00052
10.45 1.01795 0.00051	10.55 1.01863 0.00051	11.05 1.01520 0.00052
10.50 1.02134 0.00050	10.60 1.02354 0.00052	11.10 1.01973 0.00052

650	660	670
10.30 0.91071 0.00050	10.50 0.91588 0.00050	10.70 0.91658 0.00050
10.35 0.91454 0.00050	10.55 0.91991 0.00050	10.75 0.92050 0.00050
10.40 0.91930 0.00050	10.60 0.92370 0.00048	10.80 0.92541 0.00050
10.45 0.92452 0.00050	10.65 0.92751 0.00050	10.85 0.92877 0.00051
10.50 0.92759 0.00050	10.70 0.93274 0.00050	10.90 0.93254 0.00049
10.55 0.93294 0.00048	10.75 0.93591 0.00053	10.95 0.93693 0.00049
10.60 0.93584 0.00050	10.80 0.94010 0.00050	11.00 0.94195 0.00051
10.65 0.94173 0.00050	10.85 0.94406 0.00050	11.05 0.94602 0.00051
10.70 0.94482 0.00049	10.90 0.94950 0.00051	11.10 0.94907 0.00051
10.75 0.94830 0.00051	10.95 0.95213 0.00051	11.15 0.95280 0.00050
10.80 0.95276 0.00051	11.00 0.95551 0.00049	11.20 0.95744 0.00052
10.85 0.95657 0.00051	11.05 0.96109 0.00050	11.25 0.96049 0.00051
10.90 0.96062 0.00052	11.10 0.96375 0.00048	11.30 0.96489 0.00049
10.95 0.96425 0.00050	11.15 0.96823 0.00049	11.35 0.96921 0.00050
11.00 0.96864 0.00050	11.20 0.97163 0.00050	11.40 0.97125 0.00051
11.05 0.97326 0.00050	11.25 0.97532 0.00051	11.45 0.97759 0.00050
11.10 0.97711 0.00050	11.30 0.97939 0.00049	11.50 0.98060 0.00049
11.15 0.98051 0.00050	11.35 0.98459 0.00050	11.55 0.98394 0.00050
11.20 0.98453 0.00050	11.40 0.98766 0.00050	11.60 0.98728 0.00051
11.25 0.98851 0.00050	11.45 0.99129 0.00050	11.65 0.99179 0.00051
11.30 0.99196 0.00050	11.50 0.99447 0.00051	11.70 0.99478 0.00051
11.35 0.99531 0.00049	11.55 0.99799 0.00051	11.75 0.99838 0.00051
11.40 0.99920 0.00050	11.60 1.00249 0.00051	11.80 1.00240 0.00050
11.45 1.00437 0.00049	11.65 1.00555 0.00050	11.85 1.00623 0.00051
11.50 1.00691 0.00052	11.70 1.00942 0.00050	11.90 1.00922 0.00051
11.55 1.01012 0.00050	11.75 1.01298 0.00050	11.95 1.01362 0.00050
11.60 1.01381 0.00051	11.80 1.01628 0.00050	12.00 1.01688 0.00051
11.65 1.01836 0.00049	11.85 1.02135 0.00050	12.05 1.02021 0.00051
11.70 1.02128 0.00050	11.90 1.02466 0.00050	12.10 1.02503 0.00050

680	690	698
11.00 0.92175 0.00050	11.30 0.91443 0.00051	12.10 0.92202 0.00050
11.05 0.92500 0.00049	11.35 0.91836 0.00050	12.15 0.92542 0.00050
11.10 0.92904 0.00048	11.40 0.92318 0.00050	12.20 0.92856 0.00050
11.15 0.93223 0.00049	11.45 0.92621 0.00050	12.25 0.93295 0.00050
11.20 0.93641 0.00050	11.50 0.92973 0.00050	12.30 0.93695 0.00049
11.25 0.94098 0.00050	11.55 0.93383 0.00050	12.35 0.93976 0.00050
11.30 0.94474 0.00049	11.60 0.93729 0.00050	12.40 0.94363 0.00051
11.35 0.94855 0.00051	11.65 0.94195 0.00049	12.45 0.94722 0.00051
11.40 0.95325 0.00050	11.70 0.94579 0.00052	12.50 0.95032 0.00049
11.45 0.95664 0.00051	11.75 0.94886 0.00050	12.55 0.95432 0.00050
11.50 0.96139 0.00050	11.80 0.95256 0.00051	12.60 0.95823 0.00050
11.55 0.96461 0.00051	11.85 0.95631 0.00050	12.65 0.96087 0.00048
11.60 0.96774 0.00049	11.90 0.95936 0.00051	12.70 0.96483 0.00050
11.65 0.97165 0.00050	11.95 0.96379 0.00050	12.75 0.96774 0.00050
11.70 0.97506 0.00049	12.00 0.96805 0.00049	12.80 0.97163 0.00049
11.75 0.97821 0.00050	12.05 0.97122 0.00049	12.85 0.97389 0.00050

11.80 0.98340 0.00050	12.10 0.97539 0.00051	12.90 0.97826 0.00050
11.85 0.98653 0.00049	12.15 0.97819 0.00050	12.95 0.98145 0.00050
11.90 0.99002 0.00050	12.20 0.98196 0.00050	13.00 0.98521 0.00051
11.95 0.99339 0.00050	12.25 0.98521 0.00049	13.05 0.98863 0.00051
12.00 0.99775 0.00051	12.30 0.98921 0.00050	13.10 0.99120 0.00051
12.05 1.00064 0.00050	12.35 0.99204 0.00050	13.15 0.99508 0.00050
12.10 1.00400 0.00049	12.40 0.99523 0.00051	13.20 0.99748 0.00051
12.15 1.00756 0.00051	12.45 0.99978 0.00051	13.25 1.00130 0.00049
12.20 1.01221 0.00050	12.50 1.00230 0.00049	13.30 1.00443 0.00051
12.25 1.01613 0.00053	12.55 1.00545 0.00051	13.35 1.00785 0.00051
12.30 1.01849 0.00049	12.60 1.01033 0.00049	13.40 1.01126 0.00050
12.35 1.02237 0.00050	12.65 1.01339 0.00050	13.45 1.01473 0.00049
12.40 1.02565 0.00050	12.70 1.01665 0.00050	13.50 1.01796 0.00050
	12.75 1.02026 0.00050	13.55 1.02068 0.00049
	12.80 1.02310 0.00051	13.60 1.02357 0.00051

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12	15	20
15.80 0.92287 0.00030	13.00 0.92284 0.00033	10.90 0.92343 0.00037
16.00 0.92831 0.00029	13.10 0.92671 0.00033	11.00 0.92858 0.00037
16.20 0.93295 0.00028	13.20 0.93003 0.00033	11.10 0.93418 0.00037
16.40 0.93725 0.00029	13.30 0.93377 0.00033	11.20 0.93919 0.00037
16.60 0.94147 0.00029	13.40 0.93676 0.00034	11.30 0.94382 0.00038
16.80 0.94592 0.00029	13.50 0.94048 0.00033	11.40 0.94898 0.00038
17.00 0.95044 0.00028	13.60 0.94371 0.00033	11.50 0.95386 0.00037
17.20 0.95467 0.00029	13.70 0.94741 0.00033	11.60 0.95805 0.00037
17.40 0.95794 0.00029	13.80 0.95012 0.00033	11.70 0.96327 0.00036
17.60 0.96259 0.00029	13.90 0.95402 0.00033	11.80 0.96742 0.00038
17.80 0.96599 0.00028	14.00 0.95746 0.00033	11.90 0.97166 0.00038
18.00 0.97001 0.00028	14.10 0.95947 0.00032	12.00 0.97621 0.00036
18.20 0.97343 0.00028	14.20 0.96329 0.00033	12.10 0.98011 0.00038
18.40 0.97653 0.00028	14.30 0.96600 0.00032	12.20 0.98456 0.00038
18.60 0.98112 0.00028	14.40 0.96880 0.00033	12.30 0.98910 0.00037
18.80 0.98402 0.00027	14.50 0.97217 0.00033	12.40 0.99309 0.00037
19.00 0.98737 0.00028	14.60 0.97510 0.00032	12.50 0.99766 0.00037
19.20 0.99084 0.00028	14.70 0.97838 0.00032	12.60 1.00144 0.00037
19.40 0.99348 0.00027	14.80 0.98146 0.00033	12.70 1.00644 0.00036
19.60 0.99785 0.00028	14.90 0.98356 0.00032	12.80 1.00993 0.00037
19.80 1.00007 0.00028	15.00 0.98672 0.00033	12.90 1.01398 0.00036
20.00 1.00314 0.00027	15.10 0.98973 0.00032	13.00 1.01773 0.00036
20.20 1.00645 0.00027	15.20 0.99236 0.00032	
20.40 1.00880 0.00027	15.30 0.99524 0.00032	
20.60 1.01218 0.00027	15.40 0.99772 0.00032	
20.70 1.01358 0.00028	15.50 1.00080 0.00032	
	15.60 1.00271 0.00032	
	15.70 1.00567 0.00032	
	15.80 1.00872 0.00031	
	15.90 1.01051 0.00032	
	16.00 1.01349 0.00031	
	16.10 1.01533 0.00032	

25			30			32		
9.80	0.92093	0.00041	9.20	0.92270	0.00043	9.00	0.92150	0.00044
9.90	0.92647	0.00039	9.25	0.92640	0.00042	9.05	0.92599	0.00043
10.00	0.93281	0.00041	9.30	0.92953	0.00043	9.10	0.92939	0.00042
10.10	0.93890	0.00040	9.35	0.93385	0.00043	9.15	0.93286	0.00042
10.20	0.94478	0.00040	9.40	0.93645	0.00042	9.20	0.93651	0.00043
10.30	0.95091	0.00040	9.45	0.94094	0.00042	9.25	0.94018	0.00042
10.40	0.95694	0.00039	9.50	0.94411	0.00043	9.30	0.94344	0.00042
10.50	0.96244	0.00041	9.55	0.94643	0.00042	9.35	0.94674	0.00043
10.60	0.96857	0.00040	9.60	0.95046	0.00041	9.40	0.95055	0.00042
10.70	0.97365	0.00041	9.65	0.95373	0.00042	9.45	0.95307	0.00043
10.80	0.97833	0.00040	9.70	0.95672	0.00042	9.50	0.95726	0.00042
10.90	0.98478	0.00039	9.75	0.95959	0.00042	9.55	0.95985	0.00043
11.00	0.98923	0.00039	9.80	0.96343	0.00042	9.60	0.96326	0.00042
11.10	0.99515	0.00039	9.85	0.96696	0.00042	9.65	0.96725	0.00043
11.20	1.00033	0.00040	9.90	0.96933	0.00043	9.70	0.97140	0.00043
11.30	1.00523	0.00040	9.95	0.97211	0.00042	9.75	0.97339	0.00043
11.40	1.00975	0.00041	10.00	0.97626	0.00043	9.80	0.97709	0.00042
11.50	1.01584	0.00039	10.05	0.97945	0.00041	9.85	0.97985	0.00044
11.60	1.02000	0.00039	10.10	0.98199	0.00041	9.90	0.98387	0.00042
			10.15	0.98504	0.00041	9.95	0.98661	0.00043
			10.20	0.98799	0.00041	10.00	0.98944	0.00042
			10.25	0.99175	0.00041	10.05	0.99274	0.00043
			10.30	0.99373	0.00041	10.10	0.99564	0.00043
			10.35	0.99623	0.00042	10.15	0.99906	0.00043
			10.40	1.00160	0.00042	10.20	1.00182	0.00042
			10.45	1.00298	0.00043	10.25	1.00459	0.00042
			10.50	1.00572	0.00041	10.30	1.00812	0.00043
			10.55	1.00933	0.00043	10.35	1.01079	0.00042
			10.60	1.01203	0.00042	10.40	1.01463	0.00043
			10.65	1.01529	0.00042	10.45	1.01685	0.00043
			10.70	1.01714	0.00042	10.50	1.02119	0.00043

35	40	50
8.70 0.91705 0.00043	8.40 0.91672 0.00043	8.00 0.91691 0.00045
8.75 0.92120 0.00044	8.45 0.92053 0.00044	8.05 0.92061 0.00046
8.80 0.92452 0.00043	8.50 0.92478 0.00045	8.10 0.92531 0.00046
8.85 0.92781 0.00043	8.55 0.92816 0.00044	8.15 0.92918 0.00045
8.90 0.93231 0.00044	8.60 0.93229 0.00045	8.20 0.93339 0.00047
8.95 0.93560 0.00044	8.65 0.93601 0.00044	8.25 0.93746 0.00046
9.00 0.93899 0.00044	8.70 0.94043 0.00046	8.30 0.94171 0.00045
9.05 0.94334 0.00043	8.75 0.94492 0.00046	8.35 0.94591 0.00046
9.10 0.94770 0.00043	8.80 0.94779 0.00044	8.40 0.95051 0.00046
9.15 0.95022 0.00043	8.85 0.95147 0.00045	8.45 0.95466 0.00045
9.20 0.95461 0.00044	8.90 0.95516 0.00044	8.50 0.95817 0.00046
9.25 0.95651 0.00044	8.95 0.95930 0.00045	8.55 0.96217 0.00046

9.30 0.96082 0.00043	9.00 0.96339 0.00045	8.60 0.96721 0.00046
9.35 0.96422 0.00043	9.05 0.96548 0.00047	8.65 0.97003 0.00046
9.40 0.96860 0.00044	9.10 0.97047 0.00044	8.70 0.97368 0.00047
9.45 0.97227 0.00044	9.15 0.97439 0.00043	8.75 0.97857 0.00046
9.50 0.97456 0.00045	9.20 0.97750 0.00044	8.80 0.98252 0.00047
9.55 0.97828 0.00043	9.25 0.98187 0.00045	8.85 0.98663 0.00046
9.60 0.98236 0.00043	9.30 0.98536 0.00044	8.90 0.99014 0.00046
9.65 0.98544 0.00043	9.35 0.98900 0.00045	8.95 0.99467 0.00047
9.70 0.98728 0.00044	9.40 0.99210 0.00045	9.00 0.99718 0.00047
9.75 0.99111 0.00044	9.45 0.99544 0.00044	9.05 1.00088 0.00046
9.80 0.99397 0.00042	9.50 0.99919 0.00045	9.10 1.00512 0.00046
9.85 0.99907 0.00043	9.55 1.00268 0.00045	9.15 1.00910 0.00048
9.90 1.00142 0.00043	9.60 1.00679 0.00045	9.20 1.01174 0.00045
9.95 1.00477 0.00044	9.65 1.00881 0.00044	9.25 1.01642 0.00046
10.00 1.00798 0.00043	9.70 1.01216 0.00044	9.30 1.01957 0.00046
10.05 1.01122 0.00042	9.75 1.01677 0.00045	
10.10 1.01370 0.00044	9.80 1.02034 0.00044	
10.15 1.01708 0.00043		
10.20 1.02061 0.00042		

60	70	80
7.80 0.91997 0.00047	7.60 0.91595 0.00048	7.50 0.91814 0.00047
7.85 0.92422 0.00047	7.65 0.92236 0.00048	7.55 0.92177 0.00048
7.90 0.92856 0.00047	7.70 0.92655 0.00049	7.60 0.92686 0.00048
7.95 0.93345 0.00047	7.75 0.93014 0.00047	7.65 0.93195 0.00048
8.00 0.93707 0.00046	7.80 0.93500 0.00047	7.70 0.93701 0.00048
8.05 0.94168 0.00047	7.85 0.93949 0.00049	7.75 0.94074 0.00049
8.10 0.94647 0.00046	7.90 0.94389 0.00046	7.80 0.94615 0.00050
8.15 0.95021 0.00048	7.95 0.94836 0.00047	7.85 0.94988 0.00048
8.20 0.95525 0.00048	8.00 0.95265 0.00046	7.90 0.95480 0.00048
8.25 0.95829 0.00047	8.05 0.95724 0.00047	7.95 0.95869 0.00048
8.30 0.96332 0.00046	8.10 0.96223 0.00047	8.00 0.96465 0.00049
8.35 0.96736 0.00049	8.15 0.96635 0.00048	8.05 0.96823 0.00049
8.40 0.97227 0.00046	8.20 0.97065 0.00046	8.10 0.97292 0.00048
8.45 0.97621 0.00046	8.25 0.97535 0.00046	8.15 0.97645 0.00049
8.50 0.98063 0.00046	8.30 0.97924 0.00047	8.20 0.98089 0.00047
8.55 0.98419 0.00046	8.35 0.98311 0.00047	8.25 0.98633 0.00047
8.60 0.98817 0.00046	8.40 0.98828 0.00047	8.30 0.98950 0.00048
8.65 0.99273 0.00048	8.45 0.99199 0.00049	8.35 0.99474 0.00049
8.70 0.99646 0.00047	8.50 0.99573 0.00047	8.40 0.99801 0.00049
8.75 1.00021 0.00047	8.55 1.00000 0.00049	8.45 1.00182 0.00046
8.80 1.00391 0.00047	8.60 1.00446 0.00049	8.50 1.00744 0.00048
8.85 1.00785 0.00046	8.65 1.00892 0.00048	8.55 1.01111 0.00046
8.90 1.01255 0.00047	8.70 1.01261 0.00047	8.60 1.01431 0.00049
8.95 1.01565 0.00047	8.75 1.01597 0.00048	8.65 1.01947 0.00049
9.00 1.01968 0.00048	8.80 1.01955 0.00048	8.70 1.02372 0.00047

90	100	120
7.40 0.91534 0.00048	7.40 0.92086 0.00049	7.30 0.91817 0.00050
7.45 0.92019 0.00048	7.45 0.92602 0.00048	7.35 0.92317 0.00050
7.50 0.92505 0.00048	7.50 0.93021 0.00049	7.40 0.92743 0.00049
7.55 0.92989 0.00048	7.55 0.93529 0.00049	7.45 0.93227 0.00049
7.60 0.93423 0.00046	7.60 0.93979 0.00049	7.50 0.93785 0.00048
7.65 0.93876 0.00049	7.65 0.94476 0.00049	7.55 0.94204 0.00048
7.70 0.94318 0.00048	7.70 0.94951 0.00047	7.60 0.94620 0.00049
7.75 0.94911 0.00049	7.75 0.95417 0.00048	7.65 0.95116 0.00051
7.80 0.95351 0.00047	7.80 0.95805 0.00048	7.70 0.95666 0.00050
7.85 0.95839 0.00049	7.85 0.96370 0.00049	7.75 0.96142 0.00049
7.90 0.96190 0.00048	7.90 0.96765 0.00049	7.80 0.96574 0.00048
7.95 0.96640 0.00049	7.95 0.97249 0.00048	7.85 0.96960 0.00050
8.00 0.97171 0.00049	8.00 0.97712 0.00049	7.90 0.97459 0.00049
8.05 0.97644 0.00046	8.05 0.98157 0.00048	7.95 0.98022 0.00049
8.10 0.98058 0.00048	8.10 0.98606 0.00047	8.00 0.98311 0.00049
8.15 0.98502 0.00049	8.15 0.99070 0.00049	8.05 0.98772 0.00048
8.20 0.98888 0.00049	8.20 0.99471 0.00049	8.10 0.99369 0.00050
8.25 0.99378 0.00049	8.25 0.99797 0.00049	8.15 0.99767 0.00050
8.30 0.99691 0.00048	8.30 1.00337 0.00048	8.20 1.00122 0.00049
8.35 1.00240 0.00049	8.35 1.00775 0.00049	8.25 1.00556 0.00049
8.40 1.00592 0.00048	8.40 1.01150 0.00049	8.30 1.00954 0.00049
8.45 1.01057 0.00048	8.45 1.01531 0.00048	8.35 1.01377 0.00050
8.50 1.01536 0.00047	8.50 1.02002 0.00049	8.40 1.01877 0.00049
8.55 1.01863 0.00049		8.45 1.02242 0.00049
8.60 1.02249 0.00048		8.50 1.02707 0.00049

130	150	200
7.30 0.92141 0.00049	7.20 0.91210 0.00048	7.20 0.91372 0.00051
7.35 0.92574 0.00049	7.25 0.91885 0.00048	7.25 0.91993 0.00049
7.40 0.93078 0.00049	7.30 0.92298 0.00048	7.30 0.92417 0.00048
7.45 0.93511 0.00050	7.35 0.92800 0.00048	7.35 0.93003 0.00048
7.50 0.94013 0.00048	7.40 0.93326 0.00049	7.40 0.93439 0.00050
7.55 0.94518 0.00049	7.45 0.93837 0.00047	7.45 0.93913 0.00049
7.60 0.95014 0.00050	7.50 0.94209 0.00050	7.50 0.94430 0.00050
7.65 0.95449 0.00049	7.55 0.94772 0.00048	7.55 0.94863 0.00050
7.70 0.95931 0.00050	7.60 0.95197 0.00049	7.60 0.95294 0.00048
7.75 0.96347 0.00048	7.65 0.95655 0.00049	7.65 0.95806 0.00050
7.80 0.96851 0.00048	7.70 0.96079 0.00049	7.70 0.96282 0.00049
7.85 0.97306 0.00049	7.75 0.96683 0.00048	7.75 0.96811 0.00049
7.90 0.97804 0.00049	7.80 0.97069 0.00050	7.80 0.97213 0.00051
7.95 0.98263 0.00049	7.85 0.97543 0.00049	7.85 0.97635 0.00050
8.00 0.98653 0.00050	7.90 0.98092 0.00050	7.90 0.98109 0.00049
8.05 0.99134 0.00049	7.95 0.98474 0.00050	7.95 0.98573 0.00049
8.10 0.99518 0.00051	8.00 0.98911 0.00051	8.00 0.98982 0.00048
8.15 0.99988 0.00050	8.05 0.99372 0.00048	8.05 0.99400 0.00050
8.20 1.00450 0.00050	8.10 0.99738 0.00048	8.10 0.99847 0.00049
8.25 1.00805 0.00048	8.15 1.00213 0.00050	8.15 1.00269 0.00049
8.30 1.01256 0.00049	8.20 1.00693 0.00048	8.20 1.00696 0.00050

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8.35 1.01737 0.00050	8.25 1.01138 0.00049	8.25 1.01215 0.00052
8.40 1.02072 0.00049	8.30 1.01566 0.00050	8.30 1.01637 0.00049
	8.35 1.01831 0.00051	8.35 1.01963 0.00050
	8.40 1.02385 0.00050	8.40 1.02468 0.00050

239	250	359
7.30 0.92129 0.00049	7.30 0.92104 0.00049	7.40 0.91751 0.00050
7.35 0.92597 0.00051	7.35 0.92632 0.00050	7.45 0.92203 0.00050
7.40 0.93148 0.00050	7.40 0.93048 0.00048	7.50 0.92633 0.00050
7.45 0.93703 0.00049	7.45 0.93502 0.00049	7.55 0.93107 0.00049
7.50 0.94053 0.00049	7.50 0.94018 0.00049	7.60 0.93606 0.00048
7.55 0.94617 0.00049	7.55 0.94476 0.00049	7.65 0.94072 0.00050
7.60 0.95063 0.00050	7.60 0.94921 0.00050	7.70 0.94500 0.00049
7.65 0.95522 0.00049	7.65 0.95384 0.00050	7.75 0.94993 0.00051
7.70 0.95936 0.00049	7.70 0.95879 0.00048	7.80 0.95480 0.00050
7.75 0.96447 0.00050	7.75 0.96437 0.00048	7.85 0.95857 0.00048
7.80 0.96923 0.00049	7.80 0.96779 0.00050	7.90 0.96299 0.00050
7.85 0.97263 0.00050	7.85 0.97303 0.00049	7.95 0.96835 0.00050
7.90 0.97849 0.00050	7.90 0.97734 0.00051	8.00 0.97271 0.00050
7.95 0.98271 0.00050	7.95 0.98221 0.00049	8.05 0.97661 0.00050
8.00 0.98692 0.00049	8.00 0.98589 0.00049	8.10 0.98105 0.00051
8.05 0.99079 0.00050	8.05 0.99038 0.00050	8.15 0.98496 0.00049
8.10 0.99573 0.00051	8.10 0.99410 0.00052	8.20 0.99011 0.00049
8.15 1.00044 0.00049	8.15 1.00010 0.00048	8.25 0.99502 0.00050
8.20 1.00450 0.00050	8.20 1.00300 0.00050	8.30 0.99866 0.00049
8.25 1.00899 0.00052	8.25 1.00759 0.00050	8.35 1.00354 0.00049
8.30 1.01336 0.00049	8.30 1.01204 0.00050	8.40 1.00665 0.00050
8.35 1.01742 0.00049	8.35 1.01640 0.00049	8.45 1.01172 0.00049
8.40 1.02102 0.00050	8.40 1.01979 0.00050	8.50 1.01521 0.00051
		8.55 1.01939 0.00050
		8.60 1.02355 0.00049

478	500	600
7.60 0.91420 0.00050	7.70 0.91792 0.00050	8.10 0.91638 0.00050
7.65 0.91933 0.00050	7.75 0.92109 0.00049	8.15 0.92030 0.00050
7.70 0.92379 0.00049	7.80 0.92665 0.00051	8.20 0.92442 0.00049
7.75 0.92770 0.00050	7.85 0.93092 0.00049	8.25 0.92940 0.00051
7.80 0.93316 0.00049	7.90 0.93543 0.00049	8.30 0.93332 0.00049
7.85 0.93796 0.00049	7.95 0.93920 0.00050	8.35 0.93708 0.00049
7.90 0.94151 0.00050	8.00 0.94380 0.00049	8.40 0.94155 0.00049
7.95 0.94537 0.00050	8.05 0.94839 0.00049	8.45 0.94611 0.00051
8.00 0.95063 0.00049	8.10 0.95324 0.00051	8.50 0.94982 0.00048
8.05 0.95451 0.00052	8.15 0.95788 0.00050	8.55 0.95436 0.00049
8.10 0.95946 0.00050	8.20 0.96271 0.00050	8.60 0.95857 0.00050
8.15 0.96473 0.00050	8.25 0.96683 0.00049	8.65 0.96280 0.00050
8.20 0.96866 0.00048	8.30 0.97074 0.00049	8.70 0.96714 0.00050
8.25 0.97260 0.00050	8.35 0.97362 0.00048	8.75 0.97045 0.00050

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8.30 0.97645 0.00049	8.40 0.97904 0.00049	8.80 0.97484 0.00050
8.35 0.98150 0.00049	8.45 0.98286 0.00049	8.85 0.97912 0.00050
8.40 0.98547 0.00049	8.50 0.98800 0.00050	8.90 0.98294 0.00050
8.45 0.98944 0.00048	8.55 0.99149 0.00052	8.95 0.98736 0.00051
8.50 0.99330 0.00050	8.60 0.99542 0.00051	9.00 0.99103 0.00050
8.55 0.99805 0.00049	8.65 1.00051 0.00049	9.05 0.99419 0.00051
8.60 1.00304 0.00052	8.70 1.00418 0.00049	9.10 0.99888 0.00050
8.65 1.00719 0.00049	8.75 1.00751 0.00050	9.15 1.00287 0.00050
8.70 1.00976 0.00050	8.80 1.01273 0.00050	9.20 1.00638 0.00050
8.75 1.01409 0.00049	8.85 1.01654 0.00049	9.25 1.01052 0.00050
8.80 1.01830 0.00050	8.90 1.02006 0.00050	9.30 1.01348 0.00049
8.85 1.02272 0.00050		9.35 1.01801 0.00049
8.90 1.02595 0.00048		9.40 1.02302 0.00051

650	660	670
8.60 0.92320 0.00049	8.70 0.91973 0.00050	8.80 0.91602 0.00049
8.65 0.92609 0.00049	8.75 0.92442 0.00049	8.85 0.91928 0.00047
8.70 0.93092 0.00050	8.80 0.92801 0.00050	8.90 0.92440 0.00048
8.75 0.93399 0.00049	8.85 0.93329 0.00049	8.95 0.92855 0.00049
8.80 0.93924 0.00048	8.90 0.93652 0.00051	9.00 0.93282 0.00050
8.85 0.94200 0.00050	8.95 0.94013 0.00050	9.05 0.93666 0.00048
8.90 0.94592 0.00050	9.00 0.94524 0.00048	9.10 0.93998 0.00049
8.95 0.95084 0.00050	9.05 0.94884 0.00049	9.15 0.94423 0.00050
9.00 0.95506 0.00050	9.10 0.95214 0.00049	9.20 0.94746 0.00051
9.05 0.95836 0.00048	9.15 0.95694 0.00050	9.25 0.95151 0.00050
9.10 0.96239 0.00049	9.20 0.95950 0.00050	9.30 0.95459 0.00048
9.15 0.96648 0.00050	9.25 0.96456 0.00051	9.35 0.95914 0.00050
9.20 0.97046 0.00049	9.30 0.96866 0.00049	9.40 0.96360 0.00051
9.25 0.97409 0.00049	9.35 0.97147 0.00050	9.45 0.96694 0.00050
9.30 0.97806 0.00048	9.40 0.97615 0.00051	9.50 0.97036 0.00050
9.35 0.98185 0.00049	9.45 0.97875 0.00050	9.55 0.97487 0.00049
9.40 0.98617 0.00049	9.50 0.98276 0.00050	9.60 0.97832 0.00050
9.45 0.98921 0.00050	9.55 0.98667 0.00051	9.65 0.98273 0.00050
9.50 0.99345 0.00051	9.60 0.99099 0.00050	9.70 0.98533 0.00050
9.55 0.99782 0.00050	9.65 0.99488 0.00050	9.75 0.98995 0.00049
9.60 1.00194 0.00050	9.70 0.99734 0.00050	9.80 0.99290 0.00049
9.65 1.00433 0.00048	9.75 1.00151 0.00049	9.85 0.99655 0.00051
9.70 1.00796 0.00050	9.80 1.00587 0.00050	9.90 1.00073 0.00049
9.75 1.01208 0.00049	9.85 1.01008 0.00049	9.95 1.00398 0.00050
9.80 1.01658 0.00049	9.90 1.01237 0.00049	10.00 1.00743 0.00050
9.85 1.02003 0.00049	9.95 1.01579 0.00049	10.05 1.01142 0.00050
9.90 1.02282 0.00049	10.00 1.01948 0.00047	10.10 1.01528 0.00052
		10.15 1.01814 0.00049
		10.20 1.02236 0.00049

680	690	698
9.10 0.92489 0.00049	9.40 0.92203 0.00049	9.90 0.91625 0.00049
9.15 0.92758 0.00050	9.45 0.92634 0.00049	9.95 0.92014 0.00048
9.20 0.93151 0.00049	9.50 0.92981 0.00049	10.00 0.92317 0.00050
9.25 0.93556 0.00049	9.55 0.93404 0.00049	10.05 0.92686 0.00051
9.30 0.93901 0.00050	9.60 0.93790 0.00050	10.10 0.93067 0.00050
9.35 0.94355 0.00048	9.65 0.94145 0.00050	10.15 0.93372 0.00050
9.40 0.94690 0.00049	9.70 0.94477 0.00050	10.20 0.93813 0.00048
9.45 0.95082 0.00050	9.75 0.94843 0.00051	10.25 0.94131 0.00050
9.50 0.95427 0.00048	9.80 0.95198 0.00051	10.30 0.94486 0.00049
9.55 0.95837 0.00050	9.85 0.95590 0.00049	10.35 0.94811 0.00051
9.60 0.96220 0.00049	9.90 0.95938 0.00050	10.40 0.95148 0.00050
9.65 0.96615 0.00048	9.95 0.96323 0.00050	10.45 0.95585 0.00050
9.70 0.96966 0.00050	10.00 0.96578 0.00049	10.50 0.95837 0.00050
9.75 0.97326 0.00049	10.05 0.97087 0.00050	10.55 0.96128 0.00048
9.80 0.97659 0.00048	10.10 0.97461 0.00049	10.60 0.96543 0.00048
9.85 0.98044 0.00049	10.15 0.97681 0.00049	10.65 0.96887 0.00049
9.90 0.98548 0.00050	10.20 0.98018 0.00051	10.70 0.97233 0.00049
9.95 0.98762 0.00050	10.25 0.98506 0.00050	10.75 0.97553 0.00049
10.00 0.99097 0.00049	10.30 0.98694 0.00051	10.80 0.97870 0.00050
10.05 0.99496 0.00050	10.35 0.99140 0.00050	10.85 0.98199 0.00052
10.10 0.99859 0.00050	10.40 0.99567 0.00048	10.90 0.98510 0.00050
10.15 1.00195 0.00049	10.45 0.99812 0.00050	10.95 0.98865 0.00050
10.20 1.00620 0.00049	10.50 1.00141 0.00048	11.00 0.99254 0.00050
10.25 1.00867 0.00050	10.55 1.00510 0.00050	11.05 0.99592 0.00050
10.30 1.01304 0.00048	10.60 1.00782 0.00050	11.10 0.99851 0.00049
10.35 1.01620 0.00048	10.65 1.01194 0.00049	11.15 1.00270 0.00050
10.40 1.01911 0.00048	10.70 1.01524 0.00052	11.20 1.00521 0.00051
	10.75 1.01912 0.00052	11.25 1.00788 0.00050
	10.80 1.02181 0.00050	11.30 1.01083 0.00049
		11.35 1.01432 0.00049
		11.40 1.01730 0.00050

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12	15	20
14.70 0.92395 0.00029	11.90 0.92424 0.00032	9.70 0.92124 0.00035
14.90 0.92944 0.00028	12.00 0.92802 0.00031	9.80 0.92659 0.00035
15.10 0.93324 0.00028	12.10 0.93154 0.00032	9.90 0.93169 0.00035
15.30 0.93804 0.00027	12.20 0.93432 0.00030	10.00 0.93693 0.00035
15.50 0.94261 0.00027	12.30 0.93907 0.00031	10.10 0.94111 0.00034
15.70 0.94659 0.00028	12.40 0.94172 0.00031	10.20 0.94702 0.00036
15.90 0.95076 0.00028	12.50 0.94527 0.00032	10.30 0.95161 0.00035
16.10 0.95493 0.00027	13.10 0.96459 0.00031	10.40 0.95607 0.00036
16.30 0.95864 0.00028	13.20 0.96758 0.00031	10.50 0.96123 0.00035
16.50 0.96293 0.00027	13.30 0.97111 0.00031	10.60 0.96517 0.00034
16.70 0.96700 0.00027	13.40 0.97427 0.00032	10.70 0.97089 0.00036
16.90 0.97063 0.00028	13.50 0.97690 0.00031	10.80 0.97514 0.00035
17.10 0.97406 0.00026	13.60 0.98006 0.00031	10.90 0.97905 0.00035
17.30 0.97745 0.00027	13.70 0.98245 0.00031	11.00 0.98394 0.00035
17.50 0.98119 0.00027	13.80 0.98576 0.00030	11.10 0.98754 0.00035

17.70 0.98455 0.00026	13.90 0.98839 0.00029	11.20 0.99189 0.00034
17.90 0.98802 0.00026	14.00 0.99170 0.00030	11.30 0.99674 0.00034
18.10 0.99138 0.00026	14.10 0.99381 0.00030	11.40 1.00078 0.00035
18.30 0.99536 0.00027	14.20 0.99644 0.00030	11.50 1.00468 0.00035
18.50 0.99774 0.00027	14.30 0.99869 0.00030	11.60 1.00905 0.00035
18.70 1.00079 0.00025	14.40 1.00151 0.00030	11.70 1.01339 0.00035
18.90 1.00389 0.00026	14.50 1.00483 0.00030	11.80 1.01649 0.00035
19.10 1.00678 0.00026	14.60 1.00738 0.00030	
19.30 1.00939 0.00026	14.70 1.00987 0.00030	
19.50 1.01233 0.00025	14.80 1.01231 0.00031	
19.60 1.01443 0.00024	14.90 1.01456 0.00030	

25	30	32
8.60 0.91948 0.00037	8.00 0.92311 0.00040	7.80 0.92214 0.00039
8.70 0.92528 0.00038	8.05 0.92580 0.00039	7.85 0.92555 0.00039
8.80 0.93188 0.00037	8.10 0.92988 0.00039	7.90 0.92987 0.00040
8.90 0.93753 0.00037	8.15 0.93315 0.00038	7.95 0.93366 0.00040
9.00 0.94379 0.00037	8.20 0.93641 0.00039	8.00 0.93643 0.00040
9.10 0.94993 0.00038	8.25 0.94037 0.00039	8.05 0.94020 0.00039
9.20 0.95577 0.00037	8.30 0.94332 0.00039	8.10 0.94377 0.00040
9.30 0.96133 0.00038	8.35 0.94689 0.00039	8.15 0.94832 0.00039
9.40 0.96792 0.00038	8.40 0.95021 0.00038	8.20 0.95047 0.00040
9.50 0.97225 0.00037	8.45 0.95437 0.00039	8.25 0.95472 0.00040
9.60 0.97840 0.00037	8.50 0.95765 0.00038	8.30 0.95830 0.00039
9.70 0.98416 0.00037	8.55 0.96042 0.00038	8.35 0.96128 0.00040
9.80 0.98937 0.00038	8.60 0.96409 0.00039	8.40 0.96440 0.00039
9.90 0.99449 0.00037	8.65 0.96718 0.00040	8.45 0.96796 0.00039
10.00 0.99986 0.00038	8.70 0.97001 0.00039	8.50 0.97127 0.00040
10.10 1.00516 0.00038	8.75 0.97381 0.00039	8.55 0.97440 0.00038
10.20 1.01052 0.00037	8.80 0.97602 0.00039	8.60 0.97800 0.00040
10.30 1.01493 0.00037	8.85 0.97982 0.00039	8.65 0.98148 0.00039
10.40 1.02052 0.00036	8.90 0.98245 0.00040	8.70 0.98427 0.00040
	8.95 0.98612 0.00040	8.75 0.98901 0.00040
	9.00 0.98945 0.00039	8.80 0.99108 0.00041
	9.05 0.99186 0.00040	8.85 0.99458 0.00039
	9.10 0.99500 0.00039	8.90 0.99765 0.00039
	9.15 0.99783 0.00039	8.95 1.00118 0.00038
	9.20 1.00122 0.00038	9.00 1.00349 0.00039
	9.25 1.00387 0.00038	9.05 1.00725 0.00040
	9.30 1.00712 0.00039	9.10 1.01004 0.00041
	9.35 1.00992 0.00039	9.15 1.01334 0.00040
	9.40 1.01250 0.00038	9.20 1.01592 0.00040
	9.45 1.01622 0.00039	9.25 1.01822 0.00039
	9.50 1.01753 0.00038	9.30 1.02219 0.00040

35	40	50
7.50 0.91752 0.00041	7.40 0.93437 0.00040	6.80 0.92110 0.00042
7.55 0.92173 0.00041	7.45 0.93882 0.00040	6.85 0.92595 0.00042
7.60 0.92591 0.00040	7.50 0.94196 0.00041	6.90 0.93036 0.00043
7.65 0.92942 0.00041	7.55 0.94714 0.00042	6.95 0.93495 0.00042
7.70 0.93351 0.00040	7.60 0.95071 0.00041	7.00 0.93898 0.00042
7.75 0.93627 0.00040	7.65 0.95493 0.00041	7.05 0.94341 0.00042
7.80 0.94075 0.00040	7.70 0.95870 0.00040	7.10 0.94605 0.00042
7.85 0.94400 0.00040	7.75 0.96220 0.00040	7.15 0.95103 0.00042
7.90 0.94730 0.00039	7.80 0.96569 0.00041	7.20 0.95592 0.00042
7.95 0.95189 0.00040	7.85 0.97049 0.00041	7.25 0.96026 0.00043
8.00 0.95588 0.00041	7.90 0.97430 0.00040	7.30 0.96391 0.00042
8.05 0.95875 0.00040	7.95 0.97791 0.00041	7.35 0.96815 0.00041
8.10 0.96248 0.00041	8.00 0.98105 0.00041	7.40 0.97211 0.00043
8.15 0.96660 0.00040	8.05 0.98469 0.00041	7.45 0.97602 0.00042
8.20 0.97034 0.00040	8.10 0.98880 0.00041	7.50 0.98058 0.00043
8.25 0.97415 0.00040	8.15 0.99038 0.00041	7.55 0.98474 0.00043
8.30 0.97639 0.00041	8.20 0.99529 0.00042	7.60 0.98780 0.00042
8.45 0.98819 0.00041	8.25 1.00036 0.00041	7.65 0.99152 0.00043
8.50 0.99045 0.00041	8.30 1.00228 0.00041	7.70 0.99558 0.00042
8.55 0.99404 0.00040	8.35 1.00623 0.00039	7.75 0.99945 0.00044
8.60 0.99721 0.00041	8.40 1.00975 0.00041	7.80 1.00406 0.00042
8.65 1.00015 0.00040	8.45 1.01314 0.00041	7.85 1.00740 0.00041
8.70 1.00339 0.00041	8.50 1.01681 0.00041	7.90 1.01092 0.00042
8.80 1.01091 0.00040		7.95 1.01436 0.00042
8.85 1.01367 0.00039		8.00 1.01879 0.00042
60	70	80
6.50 0.91827 0.00043	6.30 0.91785 0.00043	6.20 0.92031 0.00046
6.55 0.92252 0.00044	6.35 0.92190 0.00045	6.25 0.92390 0.00042
6.60 0.92766 0.00043	6.40 0.92700 0.00043	6.30 0.93042 0.00044
6.65 0.93212 0.00043	6.45 0.93100 0.00043	6.35 0.93435 0.00043
6.70 0.93695 0.00044	6.50 0.93626 0.00044	6.40 0.93933 0.00045
6.75 0.94106 0.00043	6.55 0.94130 0.00045	6.45 0.94429 0.00044
6.80 0.94530 0.00044	6.60 0.94526 0.00044	6.50 0.94935 0.00045
6.85 0.94987 0.00043	6.65 0.94997 0.00044	6.55 0.95394 0.00044
6.90 0.95398 0.00042	6.70 0.95424 0.00043	6.60 0.95821 0.00044
6.95 0.95903 0.00043	6.75 0.96021 0.00043	6.65 0.96316 0.00044
7.00 0.96358 0.00043	6.80 0.96338 0.00044	6.70 0.96755 0.00044
7.05 0.96734 0.00044	6.85 0.96811 0.00043	6.75 0.97161 0.00044
7.10 0.97200 0.00043	6.90 0.97259 0.00044	6.80 0.97640 0.00045
7.15 0.97535 0.00043	6.95 0.97692 0.00043	6.85 0.98099 0.00045
7.20 0.97984 0.00043	7.00 0.98145 0.00043	6.90 0.98542 0.00044
7.25 0.98460 0.00043	7.05 0.98589 0.00044	6.95 0.98976 0.00044
7.30 0.98823 0.00044	7.10 0.98957 0.00043	7.00 0.99450 0.00043
7.35 0.99289 0.00043	7.15 0.99352 0.00044	7.05 0.99836 0.00045
7.40 0.99684 0.00043	7.20 0.99896 0.00044	7.10 1.00347 0.00045
7.45 1.00091 0.00044	7.25 1.00294 0.00043	7.15 1.00778 0.00044
7.50 1.00470 0.00043	7.30 1.00731 0.00045	7.20 1.01092 0.00044
7.55 1.00929 0.00044	7.35 1.01113 0.00044	7.25 1.01550 0.00044
7.60 1.01195 0.00043	7.40 1.01514 0.00043	7.30 1.01979 0.00044

7.65	1.01718	0.00044	7.45	1.01915	0.00044
7.70	1.02061	0.00043	7.50	1.02342	0.00044

90	100	120
6.10 0.91927 0.00045	6.00 0.91794 0.00044	5.90 0.91729 0.00045
6.15 0.92472 0.00045	6.05 0.92203 0.00044	5.95 0.92354 0.00044
6.20 0.93043 0.00044	6.10 0.92814 0.00045	6.00 0.92807 0.00044
6.25 0.93471 0.00043	6.15 0.93306 0.00044	6.05 0.93240 0.00045
6.30 0.93991 0.00044	6.20 0.93755 0.00045	6.10 0.93776 0.00045
6.35 0.94442 0.00045	6.25 0.94302 0.00045	6.15 0.94223 0.00045
6.40 0.94944 0.00045	6.30 0.94681 0.00045	6.20 0.94689 0.00045
6.45 0.95492 0.00044	6.35 0.95163 0.00045	6.25 0.95281 0.00045
6.50 0.95864 0.00044	6.40 0.95660 0.00045	6.30 0.95722 0.00045
6.55 0.96380 0.00045	6.45 0.96041 0.00045	6.35 0.96262 0.00045
6.60 0.96829 0.00046	6.50 0.96562 0.00045	6.40 0.96614 0.00045
6.65 0.97262 0.00043	6.55 0.97100 0.00045	6.45 0.97145 0.00046
6.70 0.97672 0.00044	6.60 0.97552 0.00044	6.50 0.97591 0.00046
6.75 0.98157 0.00044	6.65 0.98071 0.00045	6.55 0.98058 0.00045
6.80 0.98613 0.00044	6.70 0.98516 0.00045	6.60 0.98581 0.00045
6.85 0.99027 0.00044	6.75 0.98942 0.00045	6.65 0.98990 0.00045
6.90 0.99478 0.00045	6.80 0.99407 0.00045	6.70 0.99413 0.00044
6.95 0.99999 0.00045	6.85 0.99827 0.00044	6.75 0.99861 0.00045
7.00 1.00378 0.00045	6.90 1.00232 0.00043	6.80 1.00376 0.00045
7.05 1.00805 0.00043	6.95 1.00711 0.00045	6.85 1.00770 0.00044
7.10 1.01348 0.00044	7.00 1.01117 0.00044	6.90 1.01252 0.00044
7.15 1.01671 0.00044	7.05 1.01568 0.00044	6.95 1.01700 0.00046
7.20 1.02121 0.00045	7.10 1.02005 0.00044	7.00 1.02082 0.00046

130	150	200
5.90 0.92209 0.00045	5.80 0.91693 0.00045	5.80 0.92378 0.00046
5.95 0.92740 0.00046	5.85 0.92253 0.00044	5.85 0.92878 0.00045
6.00 0.93233 0.00044	5.90 0.92686 0.00045	5.90 0.93419 0.00046
6.05 0.93741 0.00045	5.95 0.93260 0.00045	5.95 0.93900 0.00044
6.10 0.94144 0.00045	6.00 0.93720 0.00046	6.00 0.94403 0.00044
6.15 0.94732 0.00045	6.05 0.94229 0.00044	6.05 0.94800 0.00045
6.20 0.95230 0.00045	6.10 0.94693 0.00046	6.10 0.95395 0.00046
6.25 0.95734 0.00045	6.15 0.95177 0.00046	6.15 0.95946 0.00045
6.30 0.96167 0.00044	6.20 0.95719 0.00045	6.20 0.96357 0.00045
6.35 0.96623 0.00047	6.25 0.96202 0.00047	6.25 0.96817 0.00046
6.40 0.97159 0.00047	6.30 0.96664 0.00046	6.30 0.97275 0.00044
6.45 0.97607 0.00045	6.35 0.97139 0.00047	6.35 0.97720 0.00044
6.50 0.98097 0.00044	6.40 0.97606 0.00046	6.40 0.98350 0.00045
6.55 0.98488 0.00045	6.45 0.98091 0.00045	6.45 0.98746 0.00046
6.60 0.99003 0.00046	6.50 0.98545 0.00046	6.50 0.99256 0.00045
6.65 0.99377 0.00045	6.55 0.98969 0.00044	6.55 0.99611 0.00045
6.70 0.99836 0.00046	6.60 0.99477 0.00046	6.60 1.00023 0.00047
6.75 1.00297 0.00045	6.65 0.99943 0.00045	6.65 1.00586 0.00046

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6.80 1.00746 0.00044	6.70 1.00433 0.00045	6.70 1.00914 0.00046
6.85 1.01190 0.00045	6.75 1.00865 0.00047	6.75 1.01359 0.00045
6.90 1.01619 0.00046	6.80 1.01204 0.00046	6.80 1.01758 0.00045
6.95 1.02086 0.00045	6.85 1.01697 0.00046	
7.00 1.02590 0.00044	6.90 1.02199 0.00045	

239	250	359
5.70 0.91499 0.00045	5.70 0.91565 0.00046	5.80 0.91918 0.00047
5.75 0.92026 0.00046	5.75 0.91889 0.00046	5.85 0.92364 0.00045
5.80 0.92454 0.00044	5.80 0.92454 0.00044	5.90 0.92973 0.00046
5.85 0.93024 0.00045	5.85 0.92941 0.00045	5.95 0.93514 0.00045
5.90 0.93480 0.00046	5.90 0.93497 0.00046	6.00 0.93877 0.00045
5.95 0.94032 0.00044	5.95 0.93973 0.00045	6.05 0.94354 0.00045
6.00 0.94486 0.00045	6.00 0.94608 0.00047	6.10 0.94922 0.00047
6.05 0.94907 0.00045	6.05 0.94943 0.00046	6.15 0.95346 0.00045
6.10 0.95387 0.00047	6.10 0.95448 0.00047	6.20 0.95760 0.00046
6.15 0.96007 0.00046	6.15 0.95961 0.00045	6.25 0.96254 0.00046
6.20 0.96411 0.00046	6.20 0.96440 0.00045	6.30 0.96763 0.00045
6.25 0.96869 0.00045	6.25 0.96854 0.00046	6.35 0.97177 0.00046
6.30 0.97342 0.00045	6.30 0.97325 0.00045	6.40 0.97596 0.00046
6.35 0.97836 0.00046	6.35 0.97850 0.00045	6.45 0.98026 0.00047
6.40 0.98276 0.00048	6.40 0.98302 0.00046	6.50 0.98479 0.00045
6.45 0.98749 0.00046	6.45 0.98689 0.00046	6.55 0.98906 0.00046
6.50 0.99171 0.00046	6.50 0.99219 0.00045	6.60 0.99385 0.00046
6.55 0.99622 0.00045	6.55 0.99652 0.00046	6.65 0.99864 0.00045
6.60 1.00128 0.00045	6.60 1.00069 0.00045	6.70 1.00352 0.00046
6.65 1.00487 0.00046	6.65 1.00480 0.00046	6.75 1.00728 0.00046
6.70 1.01002 0.00046	6.70 1.00940 0.00046	6.80 1.01134 0.00045
6.75 1.01259 0.00045	6.75 1.01388 0.00046	6.85 1.01523 0.00046
6.80 1.01882 0.00045	6.80 1.01770 0.00046	6.90 1.02005 0.00045
	6.85 1.02227 0.00046	
	6.90 1.02699 0.00046	

478	500	600
5.90 0.91630 0.00046	6.00 0.92124 0.00046	6.30 0.92312 0.00045
5.95 0.92117 0.00045	6.05 0.92584 0.00046	6.35 0.92782 0.00045
6.00 0.92549 0.00046	6.10 0.93056 0.00046	6.40 0.93175 0.00045
6.05 0.92974 0.00045	6.15 0.93530 0.00045	6.45 0.93577 0.00046
6.10 0.93551 0.00046	6.20 0.94017 0.00046	6.50 0.94067 0.00046
6.15 0.93954 0.00046	6.25 0.94446 0.00048	6.55 0.94419 0.00046
6.20 0.94457 0.00045	6.30 0.94902 0.00045	6.60 0.94917 0.00047
6.25 0.94888 0.00047	6.35 0.95368 0.00046	6.65 0.95413 0.00046
6.30 0.95309 0.00045	6.40 0.95850 0.00045	6.70 0.95787 0.00046
6.35 0.95889 0.00046	6.45 0.96235 0.00046	6.75 0.96173 0.00047
6.40 0.96226 0.00044	6.50 0.96730 0.00046	6.80 0.96629 0.00045
6.45 0.96732 0.00046	6.55 0.97159 0.00045	6.85 0.97027 0.00045
6.50 0.97126 0.00046	6.60 0.97480 0.00046	6.90 0.97437 0.00047

6.55 0.97551 0.00044	6.65 0.98010 0.00046	6.95 0.97806 0.00045
6.60 0.98010 0.00045	6.70 0.98348 0.00046	7.00 0.98155 0.00045
6.65 0.98450 0.00045	6.75 0.98759 0.00045	7.05 0.98589 0.00047
6.70 0.98851 0.00046	6.80 0.99226 0.00045	7.10 0.99084 0.00046
6.75 0.99290 0.00047	6.85 0.99642 0.00046	7.15 0.99415 0.00047
6.80 0.99597 0.00046	6.90 1.00024 0.00047	7.20 0.99835 0.00046
6.85 1.00086 0.00045	6.95 1.00468 0.00046	7.25 1.00220 0.00046
6.90 1.00594 0.00046	7.00 1.00973 0.00047	7.30 1.00680 0.00046
6.95 1.00878 0.00046	7.05 1.01443 0.00046	7.35 1.01067 0.00046
7.00 1.01385 0.00047	7.10 1.01806 0.00047	7.40 1.01381 0.00045
7.05 1.01785 0.00046		7.45 1.01770 0.00047
7.10 1.02266 0.00046		7.50 1.02223 0.00047

650	660	670
6.50 0.91550 0.00046	6.60 0.91679 0.00046	6.80 0.92513 0.00047
6.55 0.91958 0.00045	6.65 0.92129 0.00046	6.85 0.92934 0.00045
6.60 0.92452 0.00045	6.70 0.92533 0.00044	6.90 0.93343 0.00043
6.65 0.92887 0.00045	6.75 0.92982 0.00046	6.95 0.93676 0.00046
6.70 0.93329 0.00045	6.80 0.93319 0.00046	7.00 0.94064 0.00045
6.75 0.93699 0.00045	6.85 0.93760 0.00047	7.05 0.94495 0.00046
6.80 0.94060 0.00045	6.90 0.94160 0.00046	7.10 0.94929 0.00045
6.85 0.94477 0.00046	6.95 0.94504 0.00045	7.15 0.95291 0.00046
6.90 0.94858 0.00046	7.00 0.94959 0.00047	7.20 0.95646 0.00046
6.95 0.95309 0.00045	7.05 0.95297 0.00046	7.25 0.96095 0.00046
7.00 0.95645 0.00046	7.10 0.95809 0.00046	7.30 0.96489 0.00046
7.05 0.96084 0.00047	7.15 0.96131 0.00045	7.35 0.96820 0.00047
7.10 0.96479 0.00048	7.20 0.96467 0.00047	7.40 0.97157 0.00046
7.15 0.96871 0.00045	7.25 0.96923 0.00046	7.45 0.97588 0.00047
7.20 0.97300 0.00046	7.30 0.97298 0.00046	7.50 0.97965 0.00045
7.25 0.97680 0.00045	7.35 0.97758 0.00046	7.55 0.98278 0.00047
7.30 0.98039 0.00046	7.40 0.98061 0.00046	7.60 0.98640 0.00045
7.35 0.98416 0.00047	7.45 0.98506 0.00047	7.65 0.99063 0.00046
7.40 0.98785 0.00044	7.50 0.98725 0.00047	7.70 0.99405 0.00047
7.45 0.99169 0.00047	7.55 0.99144 0.00047	7.75 0.99831 0.00046
7.50 0.99538 0.00046	7.60 0.99575 0.00047	7.80 1.00110 0.00045
7.55 0.99888 0.00045	7.65 0.99887 0.00046	7.85 1.00494 0.00047
7.60 1.00271 0.00046	7.70 1.00291 0.00046	7.90 1.00864 0.00045
7.65 1.00676 0.00047	7.75 1.00656 0.00047	7.95 1.01211 0.00047
7.70 1.01079 0.00046	7.80 1.01006 0.00047	8.00 1.01562 0.00047
7.75 1.01388 0.00046	7.85 1.01302 0.00047	8.05 1.01887 0.00045
7.80 1.01794 0.00045	7.90 1.01751 0.00047	8.10 1.02211 0.00046

680	690	698
6.90 0.92114 0.00047	7.10 0.92029 0.00047	7.50 0.92170 0.00045
6.95 0.92532 0.00046	7.15 0.92357 0.00047	7.55 0.92467 0.00046
7.00 0.93075 0.00046	7.20 0.92838 0.00046	7.60 0.92857 0.00045
7.05 0.93362 0.00045	7.25 0.93162 0.00045	7.65 0.93169 0.00045

7.10 0.93791 0.00045	7.30 0.93603 0.00046	7.70 0.93546 0.00045
7.15 0.94095 0.00046	7.35 0.93984 0.00046	7.75 0.93958 0.00045
7.20 0.94511 0.00046	7.40 0.94344 0.00045	7.80 0.94152 0.00046
7.25 0.94920 0.00047	7.45 0.94642 0.00045	7.85 0.94544 0.00046
7.30 0.95192 0.00045	7.50 0.95045 0.00046	7.90 0.94941 0.00046
7.35 0.95721 0.00046	7.55 0.95490 0.00045	7.95 0.95270 0.00045
7.40 0.96037 0.00046	7.60 0.95732 0.00046	8.00 0.95598 0.00045
7.45 0.96417 0.00046	7.65 0.96075 0.00046	8.05 0.95862 0.00045
7.50 0.96807 0.00046	7.70 0.96516 0.00046	8.10 0.96248 0.00046
7.55 0.97166 0.00045	7.75 0.96886 0.00045	8.15 0.96546 0.00045
7.60 0.97568 0.00047	7.80 0.97169 0.00046	8.20 0.96954 0.00047
7.65 0.97823 0.00045	7.85 0.97516 0.00046	8.25 0.97338 0.00046
7.70 0.98204 0.00046	7.90 0.97898 0.00046	8.30 0.97563 0.00047
7.75 0.98525 0.00046	7.95 0.98276 0.00047	8.35 0.97963 0.00047
7.80 0.98979 0.00047	8.00 0.98755 0.00046	8.40 0.98301 0.00045
7.85 0.99352 0.00046	8.05 0.98946 0.00046	8.45 0.98638 0.00046
7.90 0.99720 0.00045	8.10 0.99264 0.00046	8.50 0.98944 0.00046
7.95 0.99892 0.00047	8.15 0.99678 0.00046	8.55 0.99228 0.00045
8.00 1.00403 0.00047	8.20 0.99911 0.00046	8.60 0.99631 0.00047
8.05 1.00827 0.00047	8.25 1.00335 0.00046	8.65 0.99939 0.00047
8.10 1.01147 0.00046	8.30 1.00592 0.00046	8.70 1.00299 0.00047
8.15 1.01436 0.00047	8.35 1.00959 0.00045	8.75 1.00548 0.00047
8.20 1.01762 0.00046	8.40 1.01322 0.00045	8.80 1.00777 0.00047
	8.45 1.01642 0.00046	8.85 1.01160 0.00047
	8.50 1.01964 0.00046	8.90 1.01492 0.00045
		8.95 1.01754 0.00047
		9.00 1.02107 0.00045

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12	15	20
19.40 0.92468 0.00029	15.90 0.92359 0.00034	13.50 0.92914 0.00039
19.70 0.93075 0.00030	16.00 0.92708 0.00033	13.60 0.93347 0.00038
20.00 0.93622 0.00028	16.10 0.93081 0.00034	13.70 0.93762 0.00038
20.30 0.94134 0.00029	16.20 0.93332 0.00033	13.80 0.94219 0.00037
20.60 0.94626 0.00029	16.30 0.93573 0.00033	13.90 0.94613 0.00038
20.90 0.95194 0.00028	16.40 0.93840 0.00034	14.00 0.95039 0.00037
21.20 0.95663 0.00029	16.50 0.94213 0.00034	14.10 0.95548 0.00038
21.50 0.96088 0.00028	16.60 0.94474 0.00033	14.20 0.95877 0.00039
21.80 0.96559 0.00029	16.70 0.94738 0.00034	14.30 0.96318 0.00038
22.10 0.97011 0.00027	16.80 0.95071 0.00033	14.40 0.96741 0.00038
22.40 0.97418 0.00028	16.90 0.95337 0.00034	14.50 0.97019 0.00038
22.70 0.97823 0.00027	17.00 0.95651 0.00033	14.60 0.97522 0.00037
23.00 0.98210 0.00027	17.10 0.95834 0.00033	14.70 0.97853 0.00038
23.30 0.98655 0.00027	17.20 0.96150 0.00032	14.80 0.98199 0.00037
23.60 0.98961 0.00027	17.30 0.96451 0.00032	14.90 0.98594 0.00037
23.90 0.99353 0.00027	17.40 0.96693 0.00033	15.00 0.98951 0.00038
24.20 0.99705 0.00026	17.50 0.96917 0.00032	15.10 0.99378 0.00038
24.50 1.00053 0.00026	17.60 0.97132 0.00033	15.20 0.99778 0.00037
24.80 1.00397 0.00027	17.70 0.97431 0.00033	15.30 1.00109 0.00037
25.10 1.00724 0.00026	17.80 0.97605 0.00033	15.40 1.00386 0.00036

25.40 1.01014 0.00026	17.90 0.97910 0.00032	15.50 1.00819 0.00036
25.70 1.01254 0.00026	18.00 0.98129 0.00031	15.60 1.01136 0.00037
25.80 1.01380 0.00026	18.10 0.98438 0.00032	15.70 1.01469 0.00037
	18.20 0.98652 0.00032	15.80 1.01853 0.00037
	18.30 0.98908 0.00032	
	18.40 0.99113 0.00031	
	18.50 0.99297 0.00032	
	18.60 0.99476 0.00031	
	18.70 0.99771 0.00031	
	18.80 0.99944 0.00033	
	18.90 1.00234 0.00032	
	19.00 1.00427 0.00032	
	19.10 1.00605 0.00032	
	19.20 1.00773 0.00033	
	19.30 1.01033 0.00032	
	19.40 1.01267 0.00031	
	19.50 1.01515 0.00032	

25	30	32
12.10 0.91966 0.00041	11.40 0.91885 0.00043	11.20 0.92073 0.00044
12.20 0.92518 0.00041	11.50 0.92538 0.00044	11.35 0.92989 0.00044
12.30 0.92995 0.00040	11.55 0.92849 0.00044	11.40 0.93366 0.00043
12.40 0.93620 0.00042	11.60 0.93193 0.00043	11.45 0.93603 0.00043
12.50 0.94136 0.00041	11.65 0.93501 0.00043	11.50 0.93960 0.00045
12.60 0.94703 0.00042	11.70 0.93854 0.00042	11.55 0.94228 0.00043
12.70 0.95135 0.00041	11.75 0.94099 0.00043	11.60 0.94593 0.00043
12.80 0.95709 0.00042	11.80 0.94497 0.00044	11.65 0.95008 0.00044
12.90 0.96279 0.00040	11.85 0.94717 0.00044	11.70 0.95152 0.00044
13.00 0.96762 0.00041	11.90 0.95080 0.00044	11.75 0.95460 0.00044
13.10 0.97182 0.00041	11.95 0.95335 0.00044	11.80 0.95842 0.00045
13.30 0.98262 0.00040	12.00 0.95716 0.00043	11.90 0.96436 0.00043
13.40 0.98635 0.00040	12.05 0.95913 0.00044	12.00 0.96992 0.00045
13.50 0.99209 0.00040	12.10 0.96205 0.00043	12.05 0.97359 0.00044
13.60 0.99638 0.00041	12.15 0.96491 0.00043	12.10 0.97579 0.00044
13.80 1.00523 0.00041	12.20 0.96817 0.00044	12.15 0.98014 0.00043
13.90 1.01020 0.00041	12.25 0.97085 0.00043	12.20 0.98238 0.00045
14.00 1.01425 0.00039	12.30 0.97423 0.00043	12.25 0.98481 0.00043
14.10 1.01932 0.00040	12.35 0.97612 0.00043	12.30 0.98765 0.00044
	12.40 0.97922 0.00044	12.35 0.99025 0.00044
	12.45 0.98243 0.00045	12.40 0.99376 0.00044
	12.50 0.98509 0.00043	12.45 0.99624 0.00043
	12.55 0.98806 0.00043	12.50 0.99888 0.00044
	12.60 0.98999 0.00044	12.55 1.00242 0.00042
	12.65 0.99306 0.00042	12.60 1.00423 0.00043
	12.70 0.99588 0.00042	12.65 1.00834 0.00044
	12.75 0.99866 0.00043	12.70 1.01106 0.00044
	12.80 1.00207 0.00043	12.75 1.01282 0.00043
	12.85 1.00389 0.00043	12.80 1.01599 0.00044
	12.90 1.00686 0.00043	12.85 1.01698 0.00044
	12.95 1.00993 0.00043	12.90 1.02098 0.00043

13.00 1.01257 0.00043
 13.05 1.01433 0.00042
 13.10 1.01714 0.00042

35	40	50
10.90 0.91675 0.00046	10.60 0.91889 0.00045	10.20 0.92188 0.00048
10.95 0.92130 0.00043	10.65 0.92214 0.00045	10.25 0.92593 0.00047
11.00 0.92348 0.00044	10.70 0.92504 0.00047	10.30 0.92949 0.00048
11.05 0.92716 0.00045	10.75 0.92998 0.00046	10.35 0.93406 0.00046
11.10 0.93013 0.00046	10.80 0.93376 0.00046	10.40 0.93711 0.00047
11.15 0.93397 0.00046	10.85 0.93764 0.00045	10.45 0.94071 0.00046
11.20 0.93662 0.00045	10.90 0.94066 0.00044	10.50 0.94486 0.00046
11.25 0.94107 0.00045	10.95 0.94339 0.00046	10.55 0.94942 0.00047
11.30 0.94382 0.00045	11.00 0.94781 0.00046	10.60 0.95342 0.00047
11.35 0.94701 0.00045	11.05 0.95093 0.00044	10.65 0.95630 0.00047
11.40 0.95022 0.00044	11.10 0.95480 0.00046	10.75 0.96410 0.00048
11.45 0.95418 0.00044	11.15 0.95819 0.00046	10.80 0.96659 0.00047
11.50 0.95723 0.00044	11.20 0.96167 0.00046	10.85 0.97071 0.00048
11.55 0.96025 0.00044	11.25 0.96479 0.00044	10.90 0.97463 0.00047
11.60 0.96357 0.00045	11.30 0.96869 0.00046	10.95 0.97821 0.00046
11.65 0.96637 0.00045	11.40 0.97514 0.00046	11.00 0.98327 0.00048
11.70 0.97020 0.00044	11.45 0.97921 0.00045	11.05 0.98608 0.00047
11.75 0.97264 0.00044	11.50 0.98158 0.00045	11.10 0.99053 0.00047
11.80 0.97649 0.00044	11.55 0.98503 0.00046	11.15 0.99410 0.00048
11.85 0.97881 0.00045	11.60 0.98826 0.00046	11.20 0.99597 0.00048
11.90 0.98269 0.00045	11.65 0.99190 0.00045	11.25 1.00084 0.00048
11.95 0.98542 0.00045	11.75 0.99891 0.00046	11.30 1.00406 0.00046
12.00 0.98886 0.00045	11.80 1.00129 0.00045	11.35 1.00738 0.00047
12.05 0.99180 0.00044	11.85 1.00474 0.00047	11.40 1.01009 0.00047
12.10 0.99405 0.00046	11.90 1.00737 0.00045	11.45 1.01455 0.00048
12.15 0.99751 0.00044	11.95 1.01121 0.00045	11.50 1.01714 0.00048
12.20 1.00058 0.00045	12.00 1.01340 0.00045	11.55 1.02084 0.00046
12.25 1.00262 0.00043	12.05 1.01659 0.00045	11.60 1.02336 0.00046
12.30 1.00652 0.00044	12.10 1.01926 0.00046	
12.35 1.00963 0.00044		
12.40 1.01264 0.00044		
12.45 1.01478 0.00043		
12.50 1.01750 0.00043		

60	70	80
9.90 0.91832 0.00048	9.70 0.91505 0.00050	9.60 0.91622 0.00050
9.95 0.92292 0.00050	9.75 0.91906 0.00050	9.65 0.92075 0.00050
10.00 0.92713 0.00049	9.80 0.92358 0.00050	9.75 0.93007 0.00050
10.10 0.93509 0.00051	9.85 0.92730 0.00049	9.80 0.93391 0.00050
10.15 0.93817 0.00047	9.90 0.93198 0.00049	9.85 0.93776 0.00050
10.20 0.94321 0.00049	9.95 0.93661 0.00049	9.90 0.94241 0.00050
10.30 0.95146 0.00048	10.00 0.94030 0.00050	10.00 0.95100 0.00049

10.35 0.95581 0.00048	10.10 0.94893 0.00049	10.10 0.95868 0.00051
10.40 0.95856 0.00048	10.15 0.95317 0.00049	10.25 0.97198 0.00050
10.45 0.96335 0.00050	10.20 0.95730 0.00049	10.30 0.97534 0.00050
10.50 0.96684 0.00049	10.25 0.96050 0.00049	10.35 0.98010 0.00050
10.55 0.97040 0.00050	10.30 0.96568 0.00049	10.40 0.98299 0.00050
10.60 0.97468 0.00049	10.35 0.96943 0.00048	10.45 0.98828 0.00049
10.65 0.97797 0.00048	10.40 0.97294 0.00047	10.50 0.99224 0.00050
10.70 0.98231 0.00048	10.45 0.97677 0.00050	10.60 1.00035 0.00047
10.75 0.98544 0.00048	10.50 0.98238 0.00050	10.70 1.00677 0.00052
10.80 0.98969 0.00048	10.55 0.98486 0.00048	10.80 1.01503 0.00050
10.85 0.99375 0.00048	10.60 0.98848 0.00050	10.85 1.01923 0.00051
10.90 0.99678 0.00050	10.65 0.99295 0.00049	10.90 1.02274 0.00049
10.95 1.00115 0.00049	10.75 1.00024 0.00050	
11.00 1.00531 0.00047	10.85 1.00820 0.00049	
11.05 1.00850 0.00048	10.90 1.01089 0.00049	
11.10 1.01214 0.00048	11.00 1.01948 0.00049	
11.15 1.01507 0.00049		
11.20 1.01940 0.00049		

90	100	120
9.55 0.91880 0.00050	9.50 0.91991 0.00051	9.40 0.91526 0.00050
9.60 0.92405 0.00051	9.55 0.92387 0.00051	9.45 0.92029 0.00052
9.65 0.92804 0.00050	9.60 0.92880 0.00050	9.50 0.92516 0.00050
9.70 0.93262 0.00048	9.65 0.93373 0.00052	9.55 0.92869 0.00050
9.75 0.93619 0.00050	9.70 0.93703 0.00051	9.60 0.93457 0.00050
9.80 0.94091 0.00050	9.75 0.94313 0.00050	9.65 0.93883 0.00051
9.85 0.94485 0.00050	9.80 0.94580 0.00051	9.75 0.94776 0.00051
9.90 0.95034 0.00049	9.85 0.95072 0.00051	9.80 0.95127 0.00051
9.95 0.95378 0.00050	9.90 0.95475 0.00052	9.85 0.95626 0.00050
10.00 0.95804 0.00049	9.95 0.96002 0.00049	9.90 0.96012 0.00050
10.05 0.96232 0.00050	10.00 0.96331 0.00050	10.00 0.96851 0.00049
10.10 0.96652 0.00051	10.05 0.96853 0.00051	10.05 0.97337 0.00051
10.15 0.97056 0.00051	10.15 0.97654 0.00049	10.10 0.97722 0.00050
10.20 0.97565 0.00051	10.20 0.98017 0.00051	10.15 0.98185 0.00051
10.25 0.97985 0.00050	10.25 0.98458 0.00051	10.20 0.98596 0.00050
10.30 0.98303 0.00051	10.30 0.98853 0.00052	10.25 0.99019 0.00051
10.35 0.98774 0.00052	10.35 0.99422 0.00050	10.30 0.99458 0.00051
10.40 0.99126 0.00051	10.40 0.99620 0.00049	10.35 0.99799 0.00052
10.45 0.99460 0.00051	10.45 1.00019 0.00050	10.40 1.00279 0.00051
10.50 0.99933 0.00050	10.50 1.00459 0.00051	10.45 1.00647 0.00049
10.55 1.00313 0.00049	10.55 1.00865 0.00051	10.50 1.00985 0.00051
10.60 1.00782 0.00051	10.60 1.01235 0.00050	10.55 1.01305 0.00050
10.70 1.01390 0.00050	10.65 1.01647 0.00051	10.60 1.01816 0.00051
10.75 1.01949 0.00049	10.70 1.02051 0.00050	10.65 1.02208 0.00052
10.80 1.02225 0.00050		10.70 1.02548 0.00050

130	150	200
9.40 0.91740 0.00051	9.40 0.91979 0.00049	9.40 0.91814 0.00051
9.45 0.92265 0.00050	9.45 0.92493 0.00051	9.45 0.92311 0.00052
9.50 0.92719 0.00051	9.50 0.92855 0.00051	9.50 0.92664 0.00051
9.55 0.93205 0.00052	9.55 0.93301 0.00051	9.55 0.93144 0.00051
9.60 0.93626 0.00052	9.60 0.93788 0.00049	9.60 0.93575 0.00050
9.65 0.94100 0.00050	9.65 0.94246 0.00051	9.65 0.94025 0.00051
9.70 0.94587 0.00051	9.70 0.94733 0.00051	9.70 0.94528 0.00051
9.75 0.95007 0.00052	9.75 0.95105 0.00052	9.75 0.94927 0.00051
9.80 0.95432 0.00052	9.80 0.95546 0.00050	9.80 0.95437 0.00051
9.85 0.95803 0.00051	9.85 0.95960 0.00051	9.85 0.95825 0.00052
9.90 0.96231 0.00050	9.90 0.96298 0.00051	9.90 0.96229 0.00051
9.95 0.96652 0.00050	9.95 0.96882 0.00052	9.95 0.96712 0.00052
10.00 0.97127 0.00050	10.00 0.97325 0.00051	10.00 0.97112 0.00051
10.05 0.97533 0.00051	10.05 0.97697 0.00051	10.05 0.97560 0.00051
10.10 0.97976 0.00051	10.10 0.98166 0.00051	10.10 0.97980 0.00051
10.15 0.98337 0.00051	10.15 0.98576 0.00051	10.15 0.98394 0.00051
10.20 0.98795 0.00051	10.20 0.98958 0.00051	10.20 0.98725 0.00051
10.25 0.99233 0.00052	10.25 0.99397 0.00050	10.25 0.99223 0.00051
10.30 0.99637 0.00050	10.30 0.99827 0.00050	10.30 0.99594 0.00051
10.35 1.00032 0.00050	10.35 1.00253 0.00052	10.35 1.00022 0.00050
10.40 1.00436 0.00050	10.40 1.00536 0.00051	10.40 1.00374 0.00052
10.45 1.00724 0.00051	10.45 1.00990 0.00051	10.45 1.00866 0.00051
10.50 1.01156 0.00050	10.50 1.01332 0.00051	10.50 1.01217 0.00051
10.55 1.01619 0.00050	10.55 1.01756 0.00051	10.55 1.01583 0.00050
10.60 1.02046 0.00050	10.60 1.02175 0.00051	10.60 1.02140 0.00051
10.65 1.02430 0.00051		10.65 1.02520 0.00050
10.70 1.02806 0.00051		10.70 1.02820 0.00052

239	250	359
9.40 0.91327 0.00050	9.50 0.92188 0.00052	9.60 0.91436 0.00049
9.45 0.91757 0.00049	9.55 0.92597 0.00051	9.65 0.92025 0.00050
9.50 0.92311 0.00051	9.60 0.93038 0.00051	9.70 0.92461 0.00051
9.55 0.92679 0.00052	9.65 0.93540 0.00050	9.75 0.92852 0.00050
9.60 0.93274 0.00050	9.70 0.93928 0.00051	9.80 0.93320 0.00051
9.65 0.93688 0.00051	9.75 0.94435 0.00050	9.85 0.93759 0.00050
9.70 0.94290 0.00051	9.80 0.94766 0.00052	9.90 0.94138 0.00051
9.75 0.94540 0.00052	9.85 0.95357 0.00050	9.95 0.94610 0.00052
9.80 0.94963 0.00050	9.90 0.95767 0.00052	10.00 0.95031 0.00051
9.85 0.95471 0.00050	9.95 0.96128 0.00051	10.05 0.95520 0.00049
9.90 0.95875 0.00051	10.00 0.96530 0.00050	10.10 0.95841 0.00052
9.95 0.96381 0.00051	10.05 0.97070 0.00051	10.15 0.96298 0.00051
10.00 0.96711 0.00052	10.10 0.97434 0.00051	10.25 0.97164 0.00051
10.05 0.97110 0.00051	10.15 0.97804 0.00051	10.35 0.98016 0.00052
10.10 0.97631 0.00051	10.20 0.98221 0.00050	10.45 0.98929 0.00051
10.15 0.97965 0.00051	10.25 0.98666 0.00052	10.50 0.99170 0.00051
10.20 0.98381 0.00050	10.30 0.99199 0.00051	10.55 0.99593 0.00052
10.25 0.98836 0.00051	10.40 0.99883 0.00051	10.60 1.00013 0.00050
10.30 0.99194 0.00050	10.45 1.00362 0.00050	10.65 1.00357 0.00052

10.35 0.99561 0.00050	10.50 1.00706 0.00050	10.70 1.00870 0.00051
10.40 1.00037 0.00051	10.55 1.01134 0.00050	10.85 1.01984 0.00050
10.45 1.00499 0.00050	10.60 1.01548 0.00051	10.90 1.02363 0.00051
10.50 1.00832 0.00050	10.65 1.01949 0.00050	
10.55 1.01274 0.00051	10.70 1.02287 0.00051	
10.60 1.01651 0.00051		
10.65 1.02102 0.00051		
10.70 1.02480 0.00050		

478	500	600
9.80 0.91703 0.00049	9.90 0.92239 0.00050	10.10 0.92088 0.00052
9.85 0.92165 0.00050	9.95 0.92733 0.00049	10.15 0.92574 0.00050
9.90 0.92630 0.00051	10.00 0.93121 0.00048	10.20 0.92997 0.00050
9.95 0.93034 0.00053	10.05 0.93549 0.00050	10.25 0.93388 0.00049
10.00 0.93474 0.00052	10.10 0.93939 0.00051	10.30 0.93718 0.00051
10.05 0.93958 0.00050	10.15 0.94388 0.00051	10.35 0.94168 0.00051
10.10 0.94290 0.00051	10.20 0.94795 0.00049	10.40 0.94600 0.00050
10.15 0.94734 0.00050	10.25 0.95226 0.00050	10.45 0.95028 0.00051
10.20 0.95198 0.00049	10.30 0.95744 0.00051	10.50 0.95513 0.00051
10.25 0.95646 0.00051	10.35 0.96045 0.00050	10.55 0.95847 0.00050
10.30 0.96063 0.00052	10.40 0.96500 0.00050	10.60 0.96289 0.00051
10.35 0.96507 0.00051	10.45 0.96914 0.00050	10.65 0.96717 0.00050
10.40 0.96910 0.00049	10.50 0.97321 0.00050	10.70 0.97139 0.00049
10.45 0.97408 0.00052	10.55 0.97709 0.00051	10.75 0.97562 0.00051
10.50 0.97684 0.00050	10.60 0.98131 0.00051	10.80 0.97871 0.00049
10.55 0.98169 0.00049	10.65 0.98605 0.00050	10.85 0.98236 0.00049
10.60 0.98494 0.00050	10.70 0.98987 0.00050	10.90 0.98694 0.00050
10.65 0.98941 0.00051	10.75 0.99311 0.00050	10.95 0.98971 0.00051
10.70 0.99279 0.00050	10.80 0.99788 0.00049	11.00 0.99575 0.00050
10.75 0.99775 0.00049	10.85 1.00227 0.00050	11.05 0.99887 0.00050
10.80 1.00088 0.00050	10.90 1.00518 0.00051	11.10 1.00240 0.00051
10.85 1.00440 0.00051	10.95 1.00959 0.00050	11.15 1.00640 0.00049
10.90 1.00809 0.00051	11.00 1.01459 0.00049	11.20 1.01051 0.00050
10.95 1.01264 0.00050	11.05 1.01692 0.00050	11.25 1.01329 0.00050
11.00 1.01653 0.00050	11.10 1.02074 0.00052	11.35 1.02247 0.00050
11.05 1.02042 0.00050		11.40 1.02408 0.00052
11.10 1.02475 0.00049		

650	700	750
10.20 0.91804 0.00050	10.40 0.91820 0.00052	10.70 0.92065 0.00049
10.25 0.92212 0.00049	10.45 0.92243 0.00049	10.75 0.92485 0.00048
10.40 0.93463 0.00049	10.50 0.92642 0.00050	10.80 0.92937 0.00049
10.45 0.93954 0.00049	10.55 0.93098 0.00050	10.85 0.93226 0.00049
10.50 0.94331 0.00050	10.60 0.93549 0.00050	10.90 0.93719 0.00051
10.55 0.94860 0.00051	10.65 0.93940 0.00052	10.95 0.94161 0.00049
10.60 0.95177 0.00050	10.70 0.94308 0.00051	11.00 0.94637 0.00050
10.65 0.95653 0.00050	10.75 0.94779 0.00051	11.05 0.94924 0.00050

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10.70 0.95940 0.00049	10.80 0.95178 0.00050	11.10 0.95278 0.00050
10.75 0.96429 0.00050	10.85 0.95543 0.00049	11.15 0.95690 0.00051
10.80 0.96722 0.00050	10.90 0.95944 0.00048	11.20 0.96113 0.00050
10.85 0.97208 0.00051	10.95 0.96398 0.00050	11.25 0.96532 0.00049
10.90 0.97584 0.00050	11.00 0.96731 0.00050	11.30 0.96873 0.00049
10.95 0.97834 0.00050	11.05 0.97084 0.00049	11.35 0.97287 0.00051
11.00 0.98374 0.00051	11.10 0.97607 0.00050	11.40 0.97667 0.00050
11.05 0.98707 0.00051	11.15 0.97979 0.00052	11.45 0.98120 0.00050
11.10 0.99140 0.00050	11.20 0.98292 0.00051	11.50 0.98456 0.00049
11.15 0.99557 0.00051	11.25 0.98630 0.00050	11.60 0.99230 0.00048
11.20 0.99875 0.00051	11.30 0.99120 0.00050	11.65 0.99609 0.00051
11.25 1.00205 0.00050	11.35 0.99436 0.00051	11.75 1.00377 0.00050
11.30 1.00685 0.00050	11.40 0.99838 0.00051	11.80 1.00683 0.00050
11.35 1.01005 0.00051	11.45 1.00224 0.00050	11.85 1.01049 0.00050
11.40 1.01437 0.00052	11.50 1.00546 0.00052	11.90 1.01589 0.00050
11.45 1.01807 0.00052	11.55 1.00903 0.00051	11.95 1.01736 0.00050
11.50 1.02089 0.00050	11.60 1.01378 0.00052	12.00 1.02153 0.00050
	11.65 1.01773 0.00050	
	11.70 1.02082 0.00050	

760	765	770
10.70 0.91589 0.00051	10.80 0.92092 0.00050	10.80 0.91842 0.00050
10.75 0.92045 0.00048	10.95 0.93374 0.00050	10.85 0.92268 0.00049
10.80 0.92454 0.00048	11.00 0.93801 0.00048	10.90 0.92605 0.00050
10.85 0.92841 0.00050	11.10 0.94603 0.00050	10.95 0.93009 0.00050
10.90 0.93366 0.00050	11.15 0.94994 0.00051	11.00 0.93533 0.00051
10.95 0.93596 0.00049	11.20 0.95391 0.00050	11.05 0.93793 0.00050
11.00 0.94097 0.00050	11.25 0.95742 0.00051	11.10 0.94273 0.00049
11.05 0.94500 0.00049	11.30 0.96165 0.00051	11.15 0.94666 0.00049
11.10 0.94877 0.00049	11.35 0.96668 0.00051	11.20 0.95083 0.00049
11.15 0.95272 0.00049	11.40 0.96945 0.00049	11.25 0.95387 0.00049
11.20 0.95645 0.00050	11.45 0.97343 0.00049	11.30 0.95889 0.00050
11.25 0.95993 0.00050	11.50 0.97634 0.00051	11.35 0.96196 0.00051
11.30 0.96439 0.00051	11.60 0.98429 0.00050	11.40 0.96548 0.00050
11.35 0.96882 0.00050	11.65 0.98815 0.00050	11.45 0.97069 0.00048
11.45 0.97562 0.00050	11.70 0.99218 0.00050	11.50 0.97318 0.00050
11.50 0.97970 0.00050	11.75 0.99526 0.00048	11.55 0.97756 0.00049
11.55 0.98344 0.00050	11.80 0.99966 0.00050	11.60 0.98198 0.00051
11.60 0.98732 0.00050	11.85 1.00241 0.00050	11.65 0.98518 0.00050
11.65 0.99053 0.00050	11.90 1.00595 0.00050	11.70 0.98880 0.00049
11.70 0.99447 0.00049	11.95 1.01073 0.00050	11.75 0.99232 0.00050
11.75 0.99894 0.00049	12.00 1.01424 0.00050	11.80 0.99644 0.00050
11.80 1.00264 0.00050	12.05 1.01782 0.00051	11.85 1.00012 0.00050
11.85 1.00620 0.00049	12.10 1.02079 0.00049	11.90 1.00428 0.00051
11.95 1.01202 0.00050		11.95 1.00742 0.00051
12.00 1.01747 0.00049		12.00 1.01003 0.00050
12.05 1.01980 0.00050		12.05 1.01506 0.00050
12.10 1.02372 0.00050		12.10 1.01781 0.00051
		12.15 1.02137 0.00050
		12.20 1.02505 0.00050

775 0

10.80	0.91624	0.00049
10.85	0.92151	0.00049
10.90	0.92524	0.00050
10.95	0.92842	0.00049
11.00	0.93243	0.00049
11.05	0.93649	0.00049
11.10	0.94120	0.00050
11.15	0.94552	0.00049
11.20	0.94790	0.00050
11.25	0.95309	0.00050
11.30	0.95635	0.00051
11.35	0.96072	0.00050
11.40	0.96300	0.00050
11.45	0.96790	0.00050
11.50	0.97255	0.00050
11.55	0.97512	0.00051
11.60	0.97972	0.00050
11.65	0.98325	0.00050
11.70	0.98697	0.00052
11.75	0.99012	0.00049
11.80	0.99433	0.00051
11.85	0.99844	0.00050
11.90	1.00086	0.00049
11.95	1.00683	0.00049
12.00	1.00912	0.00051
12.05	1.01275	0.00051
12.10	1.01629	0.00050
12.15	1.01987	0.00051
12.20	1.02291	0.00049

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12	15	20
17.90	0.92662	0.00029
18.20	0.93203	0.00028
18.50	0.93802	0.00028
18.80	0.94326	0.00028
19.10	0.94769	0.00028
19.40	0.95329	0.00027
19.70	0.95776	0.00027
20.00	0.96249	0.00027
20.30	0.96692	0.00026
20.60	0.97119	0.00026
20.90	0.97485	0.00027
21.20	0.97922	0.00027
21.50	0.98300	0.00026
21.80	0.98737	0.00027
14.30	0.92341	0.00032
14.40	0.92660	0.00033
14.50	0.92968	0.00033
14.60	0.93297	0.00032
14.70	0.93564	0.00032
14.80	0.93817	0.00032
14.90	0.94097	0.00033
15.00	0.94434	0.00032
15.10	0.94729	0.00032
15.20	0.95000	0.00032
15.30	0.95237	0.00032
15.40	0.95546	0.00033
15.50	0.95828	0.00032
15.60	0.96085	0.00032
11.90	0.92801	0.00037
12.00	0.93201	0.00038
12.10	0.93631	0.00037
12.20	0.94182	0.00037
12.30	0.94591	0.00036
12.40	0.95006	0.00037
12.50	0.95380	0.00037
12.60	0.95796	0.00037
12.70	0.96273	0.00036
12.80	0.96606	0.00036
12.90	0.97071	0.00036
13.00	0.97464	0.00036
13.10	0.97787	0.00036
13.20	0.98206	0.00036

22.10 0.99022 0.00026	15.70 0.96299 0.00032	13.30 0.98592 0.00036
22.40 0.99448 0.00026	15.80 0.96563 0.00031	13.40 0.98922 0.00037
22.70 0.99806 0.00026	15.90 0.96874 0.00032	13.50 0.99265 0.00036
23.00 1.00104 0.00026	16.00 0.97100 0.00031	13.60 0.99754 0.00036
23.30 1.00475 0.00026	16.10 0.97307 0.00031	13.70 1.00013 0.00036
23.60 1.00777 0.00026	16.20 0.97608 0.00030	13.80 1.00400 0.00037
23.90 1.01079 0.00025	16.30 0.97828 0.00031	14.00 1.01114 0.00036
24.10 1.01318 0.00026	16.40 0.98084 0.00031	14.10 1.01389 0.00036
	16.50 0.98415 0.00031	14.20 1.01781 0.00037
	16.60 0.98523 0.00032	
	16.70 0.98867 0.00032	
	16.80 0.99023 0.00031	
	16.90 0.99327 0.00031	
	17.00 0.99508 0.00031	
	17.10 0.99712 0.00032	
	17.20 0.99974 0.00031	
	17.30 1.00191 0.00031	
	17.40 1.00384 0.00031	
	17.50 1.00526 0.00032	
	17.60 1.00806 0.00032	
	17.70 1.00972 0.00031	
	17.80 1.01226 0.00030	

25	30	32
10.60 0.92348 0.00039	9.80 0.91825 0.00040	9.65 0.92281 0.00043
10.70 0.92959 0.00040	9.85 0.92161 0.00041	9.75 0.92841 0.00041
10.80 0.93513 0.00039	9.95 0.92819 0.00043	9.80 0.93243 0.00042
10.90 0.94067 0.00040	10.00 0.93092 0.00041	9.85 0.93477 0.00042
11.00 0.94599 0.00040	10.05 0.93475 0.00042	9.90 0.93878 0.00042
11.10 0.95130 0.00038	10.10 0.93726 0.00042	9.95 0.94182 0.00043
11.20 0.95695 0.00040	10.15 0.94097 0.00042	10.00 0.94552 0.00042
11.30 0.96083 0.00039	10.20 0.94365 0.00041	10.05 0.94747 0.00042
11.40 0.96651 0.00040	10.25 0.94629 0.00041	10.10 0.95081 0.00042
11.50 0.97177 0.00038	10.30 0.94996 0.00041	10.15 0.95434 0.00042
11.60 0.97672 0.00039	10.35 0.95263 0.00040	10.20 0.95775 0.00042
11.70 0.98166 0.00040	10.40 0.95586 0.00041	10.25 0.96051 0.00042
11.80 0.98683 0.00040	10.45 0.95905 0.00042	10.30 0.96308 0.00042
11.90 0.99090 0.00039	10.50 0.96133 0.00041	10.35 0.96779 0.00042
12.00 0.99609 0.00039	10.55 0.96454 0.00042	10.40 0.97001 0.00043
12.10 1.00002 0.00040	10.60 0.96686 0.00041	10.45 0.97333 0.00043
12.20 1.00547 0.00039	10.65 0.97025 0.00041	10.50 0.97614 0.00042
12.40 1.01412 0.00039	10.70 0.97315 0.00041	10.55 0.97816 0.00043
12.50 1.01833 0.00039	10.75 0.97612 0.00041	10.60 0.98268 0.00043
	10.80 0.97922 0.00042	10.65 0.98421 0.00042
	10.85 0.98164 0.00042	10.70 0.98817 0.00042
	10.90 0.98459 0.00042	10.75 0.99009 0.00041
	10.95 0.98726 0.00041	10.80 0.99319 0.00043
	11.00 0.99055 0.00041	10.85 0.99563 0.00042
	11.05 0.99366 0.00043	10.90 0.99785 0.00042

11.10	0.99584	0.00042	10.95	1.00179	0.00042
11.15	0.99832	0.00041	11.00	1.00439	0.00042
11.20	1.00116	0.00042	11.05	1.00689	0.00044
11.25	1.00432	0.00041	11.10	1.01049	0.00042
11.30	1.00627	0.00042	11.15	1.01232	0.00042
11.35	1.00869	0.00041	11.20	1.01617	0.00042
11.40	1.01196	0.00041	11.25	1.01774	0.00042
11.45	1.01374	0.00041	11.30	1.02124	0.00041
11.50	1.01640	0.00041			

35	40	50						
9.40	0.92267	0.00044	9.00	0.91803	0.00045	8.60	0.92146	0.00047
9.45	0.92703	0.00044	9.05	0.92180	0.00043	8.65	0.92500	0.00045
9.50	0.92997	0.00043	9.10	0.92633	0.00044	8.70	0.92898	0.00047
9.55	0.93330	0.00043	9.15	0.92929	0.00043	8.75	0.93398	0.00047
9.60	0.93671	0.00045	9.20	0.93335	0.00045	8.80	0.93666	0.00045
9.65	0.94109	0.00044	9.25	0.93606	0.00044	8.85	0.94114	0.00045
9.70	0.94308	0.00044	9.30	0.94039	0.00046	8.90	0.94531	0.00045
9.75	0.94670	0.00042	9.35	0.94307	0.00044	9.00	0.95255	0.00045
9.80	0.95029	0.00044	9.40	0.94807	0.00043	9.05	0.95638	0.00046
9.85	0.95383	0.00041	9.45	0.95132	0.00043	9.10	0.95954	0.00045
9.90	0.95699	0.00044	9.50	0.95503	0.00044	9.15	0.96404	0.00046
9.95	0.96010	0.00042	9.55	0.95793	0.00044	9.20	0.96742	0.00046
10.00	0.96338	0.00043	9.60	0.96146	0.00045	9.25	0.97237	0.00045
10.05	0.96682	0.00044	9.70	0.96812	0.00043	9.30	0.97488	0.00046
10.10	0.97000	0.00042	9.80	0.97427	0.00043	9.35	0.97897	0.00046
10.15	0.97265	0.00043	9.85	0.97811	0.00045	9.40	0.98209	0.00046
10.20	0.97654	0.00043	9.90	0.98208	0.00043	9.45	0.98663	0.00045
10.25	0.97860	0.00043	9.95	0.98487	0.00044	9.50	0.98963	0.00046
10.30	0.98255	0.00042	10.00	0.98861	0.00044	9.55	0.99408	0.00045
10.35	0.98520	0.00043	10.05	0.99104	0.00044	9.60	0.99682	0.00046
10.40	0.98810	0.00043	10.15	0.99851	0.00044	9.65	1.00036	0.00044
10.45	0.99064	0.00042	10.20	1.00177	0.00046	9.70	1.00358	0.00047
10.50	0.99400	0.00044	10.30	1.00749	0.00044	9.75	1.00664	0.00045
10.55	0.99710	0.00043	10.35	1.01115	0.00044	9.80	1.01092	0.00045
10.60	0.99993	0.00041	10.40	1.01386	0.00045	9.85	1.01410	0.00044
10.65	1.00304	0.00043	10.45	1.01630	0.00045	9.90	1.01710	0.00046
10.70	1.00476	0.00043	10.50	1.01901	0.00045			
10.75	1.00916	0.00044						
10.80	1.01206	0.00043						
10.85	1.01436	0.00043						
10.90	1.01749	0.00042						

60	70	80
8.30 0.91861 0.00048	8.10 0.91546 0.00048	8.00 0.91715 0.00048
8.35 0.92323 0.00046	8.15 0.92011 0.00049	8.05 0.92224 0.00048
8.40 0.92701 0.00046	8.20 0.92453 0.00047	8.10 0.92707 0.00047
8.50 0.93568 0.00045	8.25 0.92757 0.00046	8.15 0.93115 0.00049
8.55 0.93920 0.00047	8.30 0.93351 0.00048	8.20 0.93542 0.00048
8.60 0.94481 0.00047	8.35 0.93728 0.00047	8.25 0.93983 0.00048
8.65 0.94697 0.00049	8.40 0.94231 0.00047	8.30 0.94360 0.00047
8.70 0.95071 0.00047	8.45 0.94603 0.00047	8.35 0.94812 0.00048
8.75 0.95565 0.00045	8.50 0.95059 0.00047	8.40 0.95277 0.00048
8.80 0.95996 0.00047	8.55 0.95447 0.00047	8.45 0.95637 0.00049
8.85 0.96333 0.00047	8.60 0.95837 0.00046	8.50 0.96186 0.00047
8.90 0.96781 0.00046	8.65 0.96254 0.00047	8.65 0.97299 0.00048
8.95 0.97193 0.00047	8.70 0.96631 0.00048	8.70 0.97810 0.00046
9.00 0.97475 0.00047	8.75 0.97067 0.00047	8.75 0.98028 0.00049
9.05 0.97954 0.00048	8.80 0.97450 0.00048	8.80 0.98530 0.00048
9.10 0.98253 0.00047	8.85 0.97832 0.00048	8.85 0.98867 0.00047
9.15 0.98655 0.00046	8.90 0.98238 0.00047	8.95 0.99751 0.00048
9.20 0.99074 0.00046	8.95 0.98635 0.00047	9.05 1.00435 0.00048
9.25 0.99339 0.00047	9.00 0.99020 0.00049	9.15 1.01197 0.00047
9.30 0.99725 0.00046	9.05 0.99300 0.00048	9.20 1.01673 0.00047
9.35 1.00128 0.00046	9.10 0.99813 0.00049	9.25 1.01951 0.00049
9.40 1.00563 0.00047	9.20 1.00569 0.00048	9.30 1.02389 0.00048
9.45 1.00881 0.00046	9.25 1.00887 0.00047	
9.50 1.01293 0.00045	9.35 1.01636 0.00048	
9.55 1.01534 0.00046	9.40 1.02034 0.00048	
9.60 1.01886 0.00045		

90	100	120
7.90 0.91656 0.00049	7.90 0.92165 0.00049	7.80 0.91929 0.00049
7.95 0.92089 0.00048	7.95 0.92678 0.00048	7.85 0.92392 0.00049
8.00 0.92573 0.00047	8.00 0.93129 0.00048	7.90 0.92815 0.00050
8.05 0.92955 0.00047	8.05 0.93594 0.00048	7.95 0.93208 0.00050
8.10 0.93484 0.00048	8.10 0.93932 0.00047	8.05 0.94129 0.00048
8.15 0.93807 0.00048	8.15 0.94414 0.00049	8.10 0.94560 0.00049
8.20 0.94305 0.00048	8.20 0.94913 0.00047	8.15 0.95015 0.00048
8.25 0.94757 0.00048	8.25 0.95299 0.00047	8.20 0.95497 0.00049
8.30 0.95102 0.00049	8.30 0.95710 0.00047	8.30 0.96378 0.00048
8.35 0.95611 0.00048	8.35 0.96110 0.00049	8.35 0.96821 0.00050
8.40 0.96035 0.00048	8.40 0.96608 0.00048	8.40 0.97141 0.00049
8.45 0.96458 0.00049	8.50 0.97405 0.00047	8.45 0.97688 0.00048
8.50 0.96865 0.00048	8.55 0.97823 0.00048	8.50 0.98112 0.00049
8.55 0.97319 0.00050	8.60 0.98255 0.00048	8.55 0.98496 0.00048
8.60 0.97725 0.00049	8.65 0.98705 0.00050	8.60 0.98920 0.00048
8.65 0.97993 0.00048	8.70 0.99163 0.00050	8.65 0.99229 0.00049
8.70 0.98533 0.00048	8.75 0.99405 0.00049	8.70 0.99654 0.00049
8.75 0.98945 0.00047	8.80 0.99876 0.00048	8.75 1.00153 0.00048

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8.80 0.99295 0.00048	8.85 1.00370 0.00048	8.80 1.00473 0.00048
8.85 0.99701 0.00047	8.90 1.00698 0.00048	8.85 1.00871 0.00050
8.90 1.00132 0.00049	8.95 1.01123 0.00049	8.90 1.01333 0.00049
8.95 1.00445 0.00048	9.00 1.01548 0.00048	8.95 1.01694 0.00050
9.05 1.01187 0.00048	9.05 1.01835 0.00049	9.00 1.02043 0.00050
9.10 1.01673 0.00049	9.10 1.02198 0.00048	
9.15 1.02075 0.00049		
9.20 1.02493 0.00049		

130	150	200
7.80 0.92139 0.00050	7.70 0.91433 0.00048	7.80 0.92337 0.00050
7.85 0.92559 0.00047	7.75 0.91907 0.00050	7.85 0.92740 0.00047
7.90 0.93040 0.00049	7.80 0.92411 0.00049	7.90 0.93192 0.00048
7.95 0.93501 0.00048	7.85 0.92842 0.00049	7.95 0.93612 0.00050
8.00 0.93958 0.00048	7.90 0.93244 0.00049	8.00 0.94106 0.00049
8.05 0.94399 0.00049	7.95 0.93692 0.00049	8.05 0.94547 0.00050
8.10 0.94827 0.00050	8.00 0.94124 0.00049	8.10 0.94926 0.00049
8.15 0.95212 0.00049	8.05 0.94632 0.00049	8.15 0.95439 0.00049
8.20 0.95660 0.00049	8.10 0.95079 0.00049	8.20 0.95830 0.00049
8.25 0.96138 0.00048	8.15 0.95501 0.00049	8.25 0.96316 0.00049
8.30 0.96578 0.00050	8.20 0.95988 0.00048	8.30 0.96791 0.00050
8.35 0.96959 0.00049	8.25 0.96412 0.00049	8.35 0.97154 0.00049
8.40 0.97411 0.00050	8.30 0.96731 0.00049	8.40 0.97595 0.00050
8.45 0.97878 0.00049	8.35 0.97154 0.00050	8.45 0.97935 0.00049
8.50 0.98319 0.00049	8.40 0.97616 0.00048	8.50 0.98445 0.00049
8.55 0.98651 0.00048	8.45 0.98038 0.00049	8.55 0.98808 0.00048
8.60 0.99133 0.00049	8.50 0.98506 0.00048	8.60 0.99303 0.00048
8.65 0.99494 0.00050	8.55 0.98943 0.00048	8.65 0.99647 0.00049
8.70 0.99888 0.00049	8.60 0.99420 0.00050	8.70 1.00115 0.00050
8.75 1.00289 0.00050	8.65 0.99766 0.00049	8.75 1.00474 0.00048
8.80 1.00755 0.00049	8.70 1.00169 0.00050	8.80 1.00872 0.00049
8.85 1.01115 0.00048	8.75 1.00573 0.00050	8.85 1.01264 0.00049
8.90 1.01546 0.00048	8.80 1.00828 0.00048	8.90 1.01647 0.00049
8.95 1.01935 0.00050	8.85 1.01320 0.00051	8.95 1.02071 0.00050
9.00 1.02275 0.00050	8.90 1.01669 0.00049	9.00 1.02424 0.00050
	8.95 1.02172 0.00049	
	9.00 1.02496 0.00049	

239	250	359
7.80 0.92011 0.00048	7.80 0.91904 0.00048	7.90 0.91371 0.00050
7.85 0.92500 0.00050	7.85 0.92261 0.00049	7.95 0.91931 0.00049
7.90 0.92937 0.00049	7.90 0.92848 0.00050	8.00 0.92300 0.00049
7.95 0.93244 0.00049	7.95 0.93227 0.00049	8.05 0.92856 0.00048
8.00 0.93772 0.00049	8.00 0.93713 0.00050	8.10 0.93203 0.00049
8.05 0.94236 0.00050	8.05 0.94043 0.00048	8.15 0.93617 0.00049
8.10 0.94631 0.00050	8.10 0.94626 0.00050	8.20 0.94001 0.00050
8.15 0.95084 0.00049	8.15 0.95035 0.00051	8.25 0.94537 0.00049

8.20 0.95536 0.00048	8.20 0.95517 0.00049	8.30 0.95098 0.00048
8.25 0.96005 0.00049	8.25 0.95903 0.00049	8.35 0.95425 0.00049
8.30 0.96433 0.00051	8.30 0.96359 0.00049	8.40 0.95736 0.00051
8.35 0.96844 0.00051	8.35 0.96706 0.00050	8.50 0.96633 0.00049
8.40 0.97339 0.00049	8.40 0.97189 0.00049	8.60 0.97402 0.00050
8.45 0.97681 0.00050	8.45 0.97614 0.00049	8.70 0.98334 0.00049
8.50 0.98137 0.00050	8.50 0.98026 0.00049	8.80 0.99027 0.00051
8.55 0.98492 0.00050	8.55 0.98386 0.00051	8.85 0.99551 0.00050
8.60 0.98953 0.00049	8.60 0.98829 0.00050	8.90 0.99967 0.00049
8.65 0.99369 0.00049	8.65 0.99252 0.00049	8.95 1.00302 0.00049
8.70 0.99788 0.00051	8.70 0.99611 0.00050	9.00 1.00662 0.00052
8.75 1.00173 0.00051	8.80 1.00468 0.00048	9.05 1.01106 0.00049
8.80 1.00571 0.00049	8.85 1.00893 0.00050	9.20 1.02237 0.00052
8.85 1.01007 0.00049	8.90 1.01236 0.00050	
8.90 1.01380 0.00050	8.95 1.01653 0.00049	
8.95 1.01704 0.00048	9.00 1.02006 0.00048	
9.00 1.02100 0.00050		

478	500	600
8.10 0.91789 0.00049	8.20 0.92355 0.00050	8.30 0.91482 0.00050
8.15 0.92266 0.00050	8.25 0.92715 0.00049	8.35 0.91950 0.00049
8.20 0.92615 0.00051	8.30 0.93163 0.00049	8.40 0.92290 0.00049
8.25 0.93011 0.00049	8.35 0.93532 0.00049	8.45 0.92781 0.00050
8.30 0.93558 0.00050	8.40 0.94060 0.00050	8.50 0.93163 0.00050
8.35 0.93914 0.00048	8.45 0.94514 0.00050	8.55 0.93617 0.00049
8.40 0.94321 0.00050	8.50 0.94920 0.00049	8.60 0.93993 0.00049
8.45 0.94767 0.00050	8.55 0.95402 0.00051	8.65 0.94442 0.00048
8.50 0.95226 0.00049	8.60 0.95681 0.00050	8.70 0.94896 0.00049
8.55 0.95583 0.00049	8.65 0.96102 0.00051	8.75 0.95281 0.00050
8.60 0.95975 0.00049	8.70 0.96576 0.00049	8.80 0.95609 0.00050
8.65 0.96366 0.00049	8.75 0.96899 0.00049	8.85 0.96055 0.00049
8.70 0.96936 0.00051	8.80 0.97244 0.00050	8.90 0.96485 0.00047
8.75 0.97372 0.00049	8.85 0.97817 0.00049	8.95 0.96840 0.00049
8.80 0.97720 0.00049	8.90 0.98166 0.00052	9.00 0.97180 0.00049
8.85 0.98120 0.00051	8.95 0.98558 0.00050	9.05 0.97686 0.00051
8.90 0.98579 0.00049	9.00 0.99059 0.00049	9.10 0.97987 0.00049
8.95 0.98916 0.00049	9.05 0.99433 0.00050	9.15 0.98388 0.00049
9.00 0.99218 0.00049	9.10 0.99753 0.00051	9.20 0.98822 0.00048
9.05 0.99663 0.00050	9.15 1.00095 0.00049	9.25 0.99142 0.00051
9.10 1.00106 0.00049	9.20 1.00511 0.00050	9.30 0.99695 0.00049
9.15 1.00389 0.00050	9.25 1.00814 0.00051	9.35 0.99919 0.00051
9.20 1.00889 0.00049	9.30 1.01261 0.00050	9.40 1.00362 0.00050
9.25 1.01255 0.00050	9.35 1.01676 0.00051	9.45 1.00713 0.00049
9.30 1.01539 0.00049	9.40 1.02104 0.00049	9.50 1.01127 0.00050
9.35 1.02012 0.00050		9.60 1.01864 0.00050
9.40 1.02407 0.00051		

650	700	750
8.50 0.92158 0.00050	8.70 0.92310 0.00048	8.90 0.92134 0.00050
8.55 0.92574 0.00051	8.75 0.92774 0.00047	8.95 0.92545 0.00048
8.60 0.92944 0.00051	8.80 0.93133 0.00051	9.00 0.92866 0.00050
8.65 0.93356 0.00050	8.85 0.93562 0.00049	9.05 0.93352 0.00049
8.70 0.93773 0.00050	8.90 0.93935 0.00049	9.10 0.93723 0.00050
8.75 0.94207 0.00050	8.95 0.94366 0.00049	9.15 0.94102 0.00051
8.80 0.94661 0.00048	9.00 0.94897 0.00049	9.20 0.94485 0.00050
8.85 0.95002 0.00050	9.05 0.95271 0.00050	9.25 0.94903 0.00052
8.90 0.95352 0.00049	9.10 0.95554 0.00049	9.30 0.95308 0.00049
8.95 0.95877 0.00050	9.15 0.96000 0.00049	9.35 0.95730 0.00050
9.00 0.96307 0.00049	9.20 0.96397 0.00051	9.40 0.96086 0.00050
9.05 0.96686 0.00049	9.25 0.96787 0.00049	9.45 0.96475 0.00050
9.10 0.97083 0.00050	9.30 0.97174 0.00049	9.50 0.96779 0.00051
9.15 0.97435 0.00051	9.35 0.97577 0.00051	9.55 0.97226 0.00049
9.20 0.97807 0.00049	9.40 0.97927 0.00049	9.60 0.97611 0.00048
9.30 0.98669 0.00050	9.45 0.98272 0.00049	9.65 0.97994 0.00050
9.35 0.98932 0.00049	9.50 0.98719 0.00050	9.70 0.98366 0.00049
9.40 0.99341 0.00049	9.55 0.99074 0.00049	9.75 0.98668 0.00050
9.45 0.99800 0.00049	9.60 0.99434 0.00049	9.85 0.99425 0.00050
9.50 1.00127 0.00050	9.65 0.99766 0.00049	9.90 0.99781 0.00049
9.55 1.00530 0.00050	9.70 1.00109 0.00050	10.00 1.00557 0.00049
9.60 1.00907 0.00050	9.75 1.00547 0.00049	10.05 1.00859 0.00050
9.65 1.01318 0.00049	9.80 1.00883 0.00050	10.10 1.01323 0.00050
9.70 1.01620 0.00050	9.85 1.01338 0.00049	10.15 1.01604 0.00051
9.75 1.02032 0.00050	9.90 1.01630 0.00049	10.20 1.01922 0.00050
9.80 1.02384 0.00051	9.95 1.01992 0.00049	
	10.00 1.02435 0.00051	

760	765	770
8.90 0.91698 0.00049	8.90 0.91406 0.00050	9.00 0.91889 0.00049
8.95 0.92070 0.00050	8.95 0.91865 0.00050	9.05 0.92353 0.00050
9.00 0.92498 0.00050	9.00 0.92201 0.00049	9.10 0.92789 0.00050
9.05 0.92804 0.00049	9.05 0.92705 0.00050	9.15 0.93128 0.00049
9.10 0.93217 0.00048	9.20 0.93906 0.00049	9.20 0.93634 0.00049
9.15 0.93673 0.00049	9.25 0.94173 0.00050	9.25 0.93954 0.00050
9.20 0.94080 0.00051	9.30 0.94544 0.00050	9.35 0.94743 0.00050
9.25 0.94466 0.00049	9.35 0.95003 0.00050	9.40 0.95048 0.00048
9.30 0.94801 0.00049	9.40 0.95347 0.00049	9.45 0.95476 0.00049
9.35 0.95225 0.00049	9.45 0.95693 0.00049	9.50 0.95925 0.00049
9.40 0.95595 0.00049	9.50 0.96195 0.00050	9.55 0.96240 0.00049
9.45 0.95987 0.00050	9.55 0.96536 0.00048	9.60 0.96627 0.00049
9.50 0.96516 0.00050	9.60 0.97003 0.00049	9.65 0.96961 0.00050
9.55 0.96834 0.00050	9.65 0.97292 0.00050	9.75 0.97824 0.00050
9.60 0.97193 0.00049	9.70 0.97656 0.00049	9.80 0.98146 0.00049
9.65 0.97526 0.00048	9.75 0.98026 0.00049	9.85 0.98500 0.00050
9.70 0.97946 0.00049	9.80 0.98369 0.00050	9.90 0.98927 0.00050

9.75 0.98329 0.00050	9.85 0.98774 0.00048	9.95 0.99147 0.00049
9.80 0.98703 0.00051	9.90 0.99153 0.00052	10.00 0.99585 0.00049
9.85 0.99016 0.00049	9.95 0.99499 0.00049	10.05 0.99821 0.00050
9.90 0.99412 0.00051	10.00 0.99799 0.00050	10.10 1.00312 0.00050
9.95 0.99771 0.00050	10.05 1.00144 0.00051	10.15 1.00639 0.00050
10.00 1.00083 0.00050	10.10 1.00591 0.00050	10.20 1.01001 0.00050
10.05 1.00545 0.00050	10.15 1.00985 0.00049	10.25 1.01441 0.00051
10.10 1.00717 0.00050	10.20 1.01289 0.00051	10.30 1.01699 0.00049
10.15 1.01269 0.00049	10.25 1.01624 0.00050	10.35 1.02102 0.00051
10.20 1.01493 0.00050	10.30 1.01980 0.00048	10.40 1.02390 0.00050
10.30 1.02253 0.00050		

775

0

9.00 0.91821 0.00050
9.05 0.92089 0.00049
9.10 0.92570 0.00051
9.15 0.93015 0.00049
9.25 0.93835 0.00050
9.30 0.94130 0.00050
9.35 0.94587 0.00050
9.40 0.94897 0.00048
9.45 0.95383 0.00050
9.50 0.95816 0.00050
9.55 0.96131 0.00050
9.60 0.96448 0.00049
9.65 0.96797 0.00051
9.70 0.97131 0.00050
9.75 0.97581 0.00049
9.80 0.98028 0.00050
9.85 0.98292 0.00050
9.90 0.98691 0.00048
9.95 0.99039 0.00049
10.00 0.99428 0.00048
10.05 0.99786 0.00050
10.10 1.00194 0.00050
10.15 1.00489 0.00051
10.20 1.00869 0.00050
10.25 1.01281 0.00049
10.30 1.01519 0.00052
10.35 1.01880 0.00051
10.40 1.02354 0.00051

15.30	0.98381	0.00029
15.40	0.98704	0.00030
15.50	0.98857	0.00030
15.60	0.99128	0.00029
15.70	0.99331	0.00029
15.80	0.99557	0.00029
15.90	0.99772	0.00030
16.00	0.99987	0.00030
16.10	1.00222	0.00029
16.20	1.00433	0.00029
16.30	1.00607	0.00029
16.40	1.00855	0.00029
16.50	1.01040	0.00030
16.60	1.01244	0.00028
16.70	1.01451	0.00029
16.80	1.01626	0.00029

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9.90 0.95347 0.00037	8.95 0.94546 0.00040	8.60 0.93701 0.00039
10.00 0.95946 0.00037	9.00 0.94805 0.00039	8.70 0.94385 0.00039
10.10 0.96438 0.00037	9.10 0.95391 0.00039	8.75 0.94759 0.00038
10.20 0.96921 0.00037	9.15 0.95727 0.00038	8.85 0.95268 0.00039
10.30 0.97419 0.00037	9.20 0.96043 0.00039	8.90 0.95691 0.00038
10.40 0.97925 0.00037	9.25 0.96341 0.00039	8.95 0.95989 0.00038
10.50 0.98454 0.00037	9.30 0.96626 0.00038	9.00 0.96358 0.00039
10.60 0.98872 0.00037	9.35 0.96857 0.00038	9.05 0.96642 0.00040
10.70 0.99374 0.00037	9.40 0.97167 0.00038	9.10 0.96838 0.00040
10.80 0.99892 0.00036	9.45 0.97562 0.00039	9.15 0.97195 0.00039
10.90 1.00349 0.00037	9.50 0.97843 0.00038	9.25 0.97754 0.00039
11.00 1.00752 0.00038	9.55 0.98070 0.00038	9.30 0.98074 0.00039
11.20 1.01677 0.00036	9.60 0.98332 0.00037	9.35 0.98407 0.00039
	9.65 0.98683 0.00038	9.40 0.98689 0.00039
	9.70 0.98868 0.00038	9.50 0.99262 0.00038
	9.75 0.99157 0.00039	9.55 0.99610 0.00039
	9.80 0.99440 0.00038	9.60 0.99842 0.00039
	9.85 0.99735 0.00038	9.65 1.00116 0.00039
	9.90 1.00069 0.00038	9.70 1.00456 0.00040
	9.95 1.00302 0.00037	9.75 1.00702 0.00038
	10.00 1.00593 0.00038	9.80 1.00983 0.00038
	10.05 1.00903 0.00037	9.85 1.01252 0.00038
	10.10 1.01011 0.00039	9.90 1.01526 0.00040
	10.15 1.01318 0.00038	9.95 1.01786 0.00040
	10.20 1.01656 0.00038	10.00 1.02054 0.00039
	10.25 1.01891 0.00038	
	10.30 1.02114 0.00039	

35	40	50
8.10 0.92220 0.00039	7.70 0.91824 0.00040	7.30 0.92518 0.00043
8.15 0.92601 0.00041	7.75 0.92251 0.00041	7.35 0.92913 0.00042
8.20 0.92962 0.00039	7.80 0.92634 0.00040	7.40 0.93274 0.00043
8.25 0.93288 0.00039	7.85 0.93054 0.00041	7.45 0.93754 0.00042
8.30 0.93626 0.00039	7.90 0.93330 0.00041	7.50 0.94147 0.00042
8.35 0.93972 0.00041	7.95 0.93805 0.00041	7.55 0.94492 0.00042
8.40 0.94295 0.00040	8.00 0.94143 0.00041	7.65 0.95215 0.00043
8.45 0.94667 0.00040	8.05 0.94487 0.00040	7.70 0.95606 0.00043
8.50 0.94963 0.00040	8.10 0.94861 0.00040	7.75 0.95977 0.00041
8.55 0.95341 0.00040	8.15 0.95180 0.00040	7.80 0.96465 0.00042
8.60 0.95639 0.00040	8.20 0.95518 0.00041	7.85 0.96713 0.00041
8.65 0.96004 0.00039	8.25 0.95959 0.00040	7.90 0.97162 0.00042
8.70 0.96352 0.00040	8.30 0.96228 0.00040	7.95 0.97529 0.00042
8.75 0.96668 0.00040	8.35 0.96573 0.00040	8.00 0.97881 0.00042
8.80 0.96956 0.00040	8.40 0.96924 0.00040	8.05 0.98221 0.00043
8.85 0.97345 0.00040	8.45 0.97278 0.00041	8.10 0.98615 0.00041
8.90 0.97667 0.00039	8.50 0.97597 0.00040	8.15 0.99038 0.00042
8.95 0.97951 0.00039	8.55 0.98012 0.00040	8.20 0.99418 0.00044
9.00 0.98206 0.00040	8.60 0.98328 0.00041	8.25 0.99746 0.00042
9.05 0.98486 0.00039	8.65 0.98685 0.00040	8.30 1.00091 0.00043

9.10 0.98830 0.00040	8.70 0.98970 0.00040	8.35 1.00351 0.00043
9.15 0.99166 0.00040	8.75 0.99273 0.00041	8.45 1.01170 0.00043
9.20 0.99533 0.00040	8.80 0.99601 0.00040	8.50 1.01477 0.00042
9.25 0.99767 0.00041	8.85 0.99851 0.00041	8.60 1.02109 0.00041
9.30 1.00006 0.00041	8.90 1.00228 0.00041	
9.35 1.00400 0.00039	8.95 1.00567 0.00041	
9.40 1.00686 0.00040	9.00 1.00904 0.00041	
9.45 1.00959 0.00038	9.10 1.01578 0.00040	
9.50 1.01193 0.00040	9.15 1.01873 0.00040	
9.55 1.01511 0.00039		
9.60 1.01864 0.00040		

60	70	80
7.00 0.92368 0.00044	6.80 0.92412 0.00044	6.60 0.91883 0.00044
7.05 0.92850 0.00043	6.85 0.92871 0.00043	6.65 0.92424 0.00043
7.10 0.93272 0.00043	6.90 0.93290 0.00044	6.70 0.92816 0.00044
7.15 0.93715 0.00043	6.95 0.93860 0.00042	6.80 0.93747 0.00044
7.20 0.94199 0.00044	7.00 0.94187 0.00043	6.85 0.94202 0.00044
7.25 0.94535 0.00042	7.05 0.94608 0.00044	6.90 0.94658 0.00044
7.30 0.94932 0.00043	7.10 0.95065 0.00044	6.95 0.95068 0.00045
7.35 0.95398 0.00043	7.15 0.95531 0.00043	7.00 0.95409 0.00043
7.40 0.95716 0.00043	7.20 0.95885 0.00043	7.05 0.95850 0.00044
7.45 0.96200 0.00043	7.25 0.96299 0.00044	7.10 0.96430 0.00045
7.50 0.96657 0.00042	7.30 0.96712 0.00043	7.15 0.96732 0.00044
7.60 0.97459 0.00042	7.35 0.97026 0.00044	7.20 0.97166 0.00043
7.65 0.97742 0.00042	7.45 0.97959 0.00045	7.25 0.97610 0.00044
7.70 0.98131 0.00043	7.50 0.98340 0.00045	7.30 0.98062 0.00045
7.75 0.98526 0.00044	7.55 0.98663 0.00044	7.35 0.98400 0.00045
7.80 0.98929 0.00043	7.60 0.99057 0.00044	7.40 0.98833 0.00044
7.85 0.99335 0.00043	7.65 0.99494 0.00044	7.45 0.99276 0.00044
7.90 0.99619 0.00043	7.70 0.99910 0.00043	7.50 0.99616 0.00044
7.95 1.00090 0.00044	7.75 1.00347 0.00043	7.55 1.00044 0.00044
8.10 1.01177 0.00042	7.80 1.00640 0.00043	7.65 1.00772 0.00044
8.15 1.01495 0.00043	7.85 1.01058 0.00044	7.70 1.01243 0.00044
8.20 1.01883 0.00043	7.90 1.01451 0.00044	7.75 1.01672 0.00044
	7.95 1.01738 0.00044	
	8.00 1.02215 0.00044	

90	100	120
6.50 0.91983 0.00044	6.40 0.91951 0.00044	6.30 0.91838 0.00044
6.55 0.92467 0.00044	6.45 0.92230 0.00044	6.35 0.92323 0.00044
6.60 0.92911 0.00044	6.50 0.92755 0.00044	6.40 0.92828 0.00044
6.65 0.93428 0.00044	6.55 0.93299 0.00046	6.45 0.93345 0.00045
6.75 0.94368 0.00044	6.60 0.93711 0.00044	6.50 0.93742 0.00045
6.85 0.95150 0.00044	6.65 0.94143 0.00043	6.55 0.94272 0.00044
7.00 0.96559 0.00045	6.70 0.94609 0.00044	6.60 0.94608 0.00045
7.05 0.96907 0.00045	6.75 0.95037 0.00043	6.65 0.95129 0.00045

7.10 0.97353 0.00044	6.80 0.95469 0.00045	6.70 0.95569 0.00044
7.15 0.97707 0.00045	6.85 0.96008 0.00043	6.75 0.96063 0.00045
7.20 0.98211 0.00044	6.90 0.96326 0.00046	6.80 0.96496 0.00045
7.25 0.98507 0.00045	6.95 0.96794 0.00044	6.85 0.96854 0.00045
7.30 0.99013 0.00045	7.00 0.97230 0.00044	6.90 0.97234 0.00045
7.40 0.99803 0.00044	7.05 0.97603 0.00044	6.95 0.97729 0.00046
7.50 1.00610 0.00044	7.10 0.98067 0.00044	7.00 0.98197 0.00047
7.55 1.01062 0.00044	7.15 0.98459 0.00045	7.10 0.99058 0.00045
7.60 1.01386 0.00045	7.20 0.98838 0.00044	7.15 0.99482 0.00045
7.65 1.01788 0.00044	7.25 0.99315 0.00045	7.20 0.99893 0.00045
	7.30 0.99735 0.00044	7.25 1.00286 0.00044
	7.35 1.00213 0.00043	7.30 1.00687 0.00044
	7.40 1.00563 0.00045	7.35 1.01051 0.00044
	7.45 1.00937 0.00046	7.40 1.01493 0.00044
	7.50 1.01336 0.00043	7.45 1.01837 0.00044
	7.55 1.01805 0.00045	7.50 1.02250 0.00046

130	150	200
6.30 0.92358 0.00044	6.20 0.91902 0.00043	6.20 0.92342 0.00044
6.35 0.92756 0.00045	6.25 0.92309 0.00044	6.25 0.92941 0.00045
6.40 0.93151 0.00045	6.30 0.92747 0.00045	6.30 0.93302 0.00046
6.45 0.93657 0.00045	6.35 0.93273 0.00044	6.35 0.93746 0.00045
6.50 0.94175 0.00045	6.40 0.93709 0.00045	6.40 0.94279 0.00044
6.55 0.94555 0.00045	6.45 0.94133 0.00045	6.45 0.94686 0.00045
6.60 0.95007 0.00046	6.50 0.94656 0.00045	6.50 0.95175 0.00044
6.65 0.95497 0.00044	6.55 0.95039 0.00046	6.55 0.95577 0.00046
6.70 0.95945 0.00045	6.60 0.95591 0.00046	6.60 0.96055 0.00045
6.75 0.96439 0.00044	6.65 0.96030 0.00044	6.65 0.96442 0.00045
6.85 0.97300 0.00045	6.70 0.96448 0.00045	6.70 0.96888 0.00046
6.90 0.97704 0.00044	6.75 0.96916 0.00046	6.75 0.97425 0.00046
6.95 0.98120 0.00044	6.80 0.97312 0.00045	6.80 0.97833 0.00045
7.00 0.98498 0.00044	6.85 0.97731 0.00046	6.85 0.98263 0.00046
7.05 0.99005 0.00045	6.90 0.98152 0.00044	6.90 0.98651 0.00046
7.15 0.99806 0.00045	6.95 0.98583 0.00046	6.95 0.99056 0.00046
7.20 1.00199 0.00044	7.00 0.98919 0.00046	7.00 0.99548 0.00045
7.25 1.00659 0.00045	7.05 0.99460 0.00045	7.05 0.99910 0.00046
7.30 1.01012 0.00045	7.10 0.99859 0.00044	7.10 1.00367 0.00045
7.35 1.01431 0.00044	7.15 1.00256 0.00045	7.15 1.00751 0.00044
7.40 1.01929 0.00045	7.20 1.00684 0.00045	7.20 1.01201 0.00046
	7.25 1.01075 0.00046	7.25 1.01505 0.00046
	7.30 1.01482 0.00045	7.30 1.01997 0.00044
	7.35 1.01921 0.00046	
	7.40 1.02364 0.00044	

239	250	359
6.20 0.92463 0.00045	6.20 0.92451 0.00044	6.20 0.91959 0.00045
6.25 0.92936 0.00044	6.25 0.92838 0.00046	6.25 0.92302 0.00046
6.30 0.93364 0.00045	6.30 0.93369 0.00047	6.30 0.92870 0.00046
6.35 0.93823 0.00046	6.35 0.93846 0.00046	6.35 0.93230 0.00045
6.40 0.94298 0.00046	6.40 0.94213 0.00045	6.40 0.93777 0.00045
6.45 0.94698 0.00045	6.45 0.94745 0.00047	6.45 0.94194 0.00045
6.50 0.95251 0.00046	6.50 0.95216 0.00046	6.50 0.94675 0.00045
6.55 0.95623 0.00044	6.55 0.95603 0.00046	6.55 0.95080 0.00045
6.60 0.96117 0.00047	6.60 0.96041 0.00044	6.60 0.95413 0.00045
6.65 0.96490 0.00046	6.65 0.96515 0.00044	6.65 0.95876 0.00046
6.70 0.97012 0.00045	6.70 0.96914 0.00043	6.70 0.96443 0.00046
6.75 0.97372 0.00044	6.75 0.97416 0.00046	6.75 0.96769 0.00045
6.80 0.97827 0.00047	6.80 0.97895 0.00044	6.80 0.97236 0.00045
6.85 0.98287 0.00045	6.85 0.98243 0.00045	6.85 0.97529 0.00047
6.90 0.98552 0.00046	6.90 0.98670 0.00045	6.90 0.97998 0.00045
6.95 0.99106 0.00045	6.95 0.98994 0.00046	6.95 0.98445 0.00046
7.00 0.99533 0.00045	7.00 0.99475 0.00045	7.00 0.98874 0.00047
7.05 0.99878 0.00045	7.05 0.99899 0.00045	7.05 0.99288 0.00046
7.10 1.00315 0.00046	7.10 1.00294 0.00047	7.10 0.99692 0.00045
7.15 1.00775 0.00046	7.15 1.00692 0.00045	7.15 1.00098 0.00045
7.20 1.01205 0.00046	7.20 1.01139 0.00045	7.20 1.00530 0.00046
7.25 1.01589 0.00045	7.25 1.01495 0.00046	7.25 1.00878 0.00046
7.30 1.01957 0.00045	7.30 1.01946 0.00045	7.30 1.01154 0.00046
		7.35 1.01661 0.00046
		7.40 1.02026 0.00045

478	500	600
6.30 0.91943 0.00045	6.30 0.91812 0.00045	6.50 0.92383 0.00046
6.35 0.92433 0.00045	6.35 0.92182 0.00046	6.60 0.93301 0.00045
6.40 0.92875 0.00046	6.40 0.92641 0.00045	6.65 0.93590 0.00045
6.45 0.93287 0.00045	6.45 0.93095 0.00045	6.70 0.94057 0.00046
6.50 0.93783 0.00047	6.50 0.93553 0.00046	6.75 0.94441 0.00045
6.55 0.94156 0.00045	6.55 0.93931 0.00046	6.80 0.94936 0.00045
6.60 0.94559 0.00046	6.60 0.94512 0.00045	6.85 0.95335 0.00046
6.65 0.95014 0.00046	6.65 0.94817 0.00045	7.05 0.96949 0.00046
6.70 0.95500 0.00045	6.70 0.95176 0.00046	7.10 0.97395 0.00047
6.75 0.95826 0.00046	6.75 0.95645 0.00045	7.15 0.97720 0.00046
6.80 0.96356 0.00045	6.80 0.96047 0.00046	7.20 0.98132 0.00046
6.85 0.96741 0.00046	6.85 0.96490 0.00047	7.25 0.98486 0.00045
6.90 0.97087 0.00046	6.90 0.96855 0.00046	7.30 0.98801 0.00045
6.95 0.97538 0.00044	6.95 0.97382 0.00046	7.35 0.99283 0.00047
7.00 0.97944 0.00045	7.00 0.97829 0.00046	7.40 0.99685 0.00044
7.05 0.98321 0.00045	7.05 0.98067 0.00045	7.45 1.00129 0.00045
7.10 0.98712 0.00045	7.10 0.98511 0.00047	7.50 1.00470 0.00045
7.15 0.99181 0.00046	7.15 0.99010 0.00046	7.55 1.00886 0.00044
7.20 0.99525 0.00045	7.20 0.99339 0.00046	7.60 1.01255 0.00045
7.25 0.99980 0.00047	7.25 0.99687 0.00046	7.65 1.01660 0.00045
7.30 1.00386 0.00046	7.30 1.00083 0.00046	7.70 1.01983 0.00046

7.35 1.00689 0.00046	7.35 1.00580 0.00045
7.40 1.01070 0.00046	7.40 1.00855 0.00044
7.45 1.01453 0.00046	7.45 1.01332 0.00047
7.50 1.01901 0.00046	7.55 1.01985 0.00046
	7.60 1.02352 0.00046

650	700	750
6.50 0.91681 0.00045	6.70 0.92392 0.00045	6.80 0.91919 0.00046
6.55 0.92178 0.00046	6.75 0.92813 0.00046	6.85 0.92246 0.00045
6.60 0.92499 0.00044	6.80 0.93235 0.00046	6.90 0.92674 0.00043
6.65 0.92970 0.00047	6.85 0.93606 0.00045	6.95 0.93105 0.00046
6.70 0.93407 0.00045	6.90 0.94031 0.00044	7.00 0.93473 0.00045
6.75 0.93800 0.00046	6.95 0.94451 0.00046	7.05 0.93878 0.00046
6.80 0.94223 0.00045	7.00 0.94862 0.00046	7.10 0.94223 0.00046
6.85 0.94651 0.00046	7.05 0.95225 0.00046	7.15 0.94649 0.00046
6.90 0.95061 0.00047	7.10 0.95585 0.00046	7.20 0.95073 0.00045
6.95 0.95520 0.00046	7.15 0.96041 0.00046	7.25 0.95467 0.00046
7.00 0.95814 0.00046	7.20 0.96373 0.00047	7.30 0.95816 0.00045
7.05 0.96196 0.00046	7.25 0.96785 0.00046	7.35 0.96230 0.00045
7.10 0.96620 0.00046	7.30 0.97178 0.00045	7.40 0.96561 0.00047
7.15 0.96967 0.00047	7.35 0.97595 0.00046	7.45 0.97069 0.00045
7.20 0.97426 0.00045	7.40 0.97899 0.00047	7.50 0.97369 0.00047
7.25 0.97786 0.00047	7.45 0.98367 0.00047	7.55 0.97765 0.00046
7.30 0.98189 0.00047	7.50 0.98727 0.00045	7.60 0.98075 0.00046
7.35 0.98662 0.00046	7.55 0.99116 0.00046	7.65 0.98432 0.00048
7.40 0.98928 0.00047	7.60 0.99402 0.00047	7.70 0.98802 0.00046
7.45 0.99304 0.00047	7.65 0.99845 0.00046	7.75 0.99187 0.00046
7.50 0.99789 0.00046	7.70 1.00179 0.00046	7.80 0.99576 0.00046
7.55 1.00095 0.00045	7.75 1.00524 0.00045	7.85 0.99910 0.00047
7.60 1.00570 0.00045	7.80 1.00929 0.00046	7.90 1.00265 0.00046
7.65 1.00890 0.00045	7.85 1.01265 0.00046	7.95 1.00607 0.00046
7.70 1.01170 0.00047	7.90 1.01574 0.00046	8.00 1.01171 0.00046
7.75 1.01556 0.00046		8.10 1.01641 0.00046
7.80 1.02072 0.00046		

760	765	770
6.95 0.92811 0.00045	6.90 0.92208 0.00044	6.90 0.91994 0.00045
7.00 0.93207 0.00047	6.95 0.92524 0.00045	6.95 0.92425 0.00046
7.05 0.93562 0.00045	7.00 0.92962 0.00046	7.00 0.92814 0.00045
7.10 0.94016 0.00045	7.05 0.93351 0.00046	7.05 0.93224 0.00046
7.15 0.94333 0.00046	7.10 0.93873 0.00046	7.10 0.93641 0.00046
7.20 0.94780 0.00045	7.15 0.94261 0.00045	7.15 0.94010 0.00046
7.25 0.95149 0.00047	7.20 0.94567 0.00046	7.20 0.94441 0.00046
7.30 0.95534 0.00048	7.25 0.94917 0.00046	7.25 0.94786 0.00045
7.35 0.95844 0.00046	7.30 0.95253 0.00046	7.30 0.95190 0.00045
7.40 0.96303 0.00045	7.35 0.95798 0.00046	7.35 0.95546 0.00045
7.45 0.96645 0.00047	7.40 0.96146 0.00045	7.40 0.95872 0.00047

7.50 0.96944 0.00046	7.45 0.96480 0.00046	7.45 0.96356 0.00046
7.55 0.97401 0.00047	7.50 0.96883 0.00045	7.50 0.96650 0.00046
7.60 0.97743 0.00046	7.55 0.97210 0.00046	7.55 0.97076 0.00047
7.65 0.98110 0.00046	7.60 0.97613 0.00046	7.60 0.97459 0.00046
7.70 0.98535 0.00046	7.65 0.97916 0.00046	7.65 0.97696 0.00045
7.75 0.98904 0.00045	7.70 0.98414 0.00044	7.70 0.98089 0.00047
7.80 0.99197 0.00046	7.75 0.98688 0.00045	7.75 0.98532 0.00046
7.85 0.99675 0.00047	7.80 0.99010 0.00047	7.80 0.98878 0.00045
7.90 0.99944 0.00047	7.85 0.99363 0.00046	7.85 0.99212 0.00047
7.95 1.00258 0.00046	7.90 0.99724 0.00046	7.90 0.99558 0.00046
8.00 1.00654 0.00046	7.95 1.00082 0.00046	7.95 0.99914 0.00046
8.05 1.00997 0.00047	8.00 1.00497 0.00044	8.00 1.00264 0.00045
8.10 1.01336 0.00046	8.05 1.00858 0.00046	8.05 1.00603 0.00046
8.15 1.01737 0.00045	8.10 1.01189 0.00046	8.10 1.01006 0.00046
8.20 1.02053 0.00046	8.15 1.01588 0.00046	8.20 1.01793 0.00047
	8.20 1.01900 0.00046	

775

0

6.90 0.91874 0.00045
7.00 0.92651 0.00046
7.05 0.93059 0.00047
7.10 0.93508 0.00047
7.15 0.93902 0.00046
7.20 0.94280 0.00046
7.25 0.94687 0.00046
7.30 0.95036 0.00046
7.35 0.95430 0.00046
7.40 0.95725 0.00045
7.45 0.96167 0.00045
7.50 0.96558 0.00046
7.55 0.96980 0.00046
7.60 0.97252 0.00044
7.65 0.97679 0.00046
7.70 0.97993 0.00045
7.75 0.98362 0.00045
7.80 0.98754 0.00046
7.85 0.99049 0.00046
7.90 0.99407 0.00048
7.95 0.99803 0.00044
8.00 1.00321 0.00045
8.05 1.00546 0.00046
8.10 1.00920 0.00046
8.15 1.01234 0.00045
8.20 1.01608 0.00047

11.80 0.96365 0.00041	11.20 0.96779 0.00044	11.00 0.96703 0.00045
11.85 0.96630 0.00041	11.25 0.97068 0.00044	11.05 0.97049 0.00044
11.90 0.97073 0.00042	11.30 0.97303 0.00044	11.10 0.97419 0.00045
11.95 0.97288 0.00042	11.35 0.97726 0.00044	11.15 0.97744 0.00044
12.00 0.97496 0.00041	11.40 0.98009 0.00044	11.20 0.97970 0.00045
12.05 0.97805 0.00041	11.45 0.98328 0.00045	11.25 0.98345 0.00044
12.10 0.98080 0.00042	11.50 0.98637 0.00043	11.30 0.98717 0.00045
12.15 0.98405 0.00041	11.55 0.98973 0.00045	11.35 0.99010 0.00045
12.20 0.98589 0.00042	11.60 0.99245 0.00044	11.40 0.99282 0.00045
12.25 0.98907 0.00041	11.65 0.99492 0.00045	11.45 0.99598 0.00044
12.30 0.99213 0.00042	11.70 0.99852 0.00044	11.50 0.99941 0.00045
12.35 0.99473 0.00041	11.75 1.00170 0.00044	11.55 1.00306 0.00045
12.40 0.99830 0.00041	11.80 1.00405 0.00044	11.60 1.00559 0.00045
12.45 1.00038 0.00040	11.85 1.00779 0.00044	11.65 1.00908 0.00045
12.50 1.00290 0.00041	11.90 1.01017 0.00043	11.70 1.01122 0.00046
12.55 1.00518 0.00041	11.95 1.01341 0.00044	11.75 1.01444 0.00045
12.60 1.00816 0.00042	12.00 1.01564 0.00044	11.80 1.01646 0.00045
12.65 1.01106 0.00042	12.05 1.01936 0.00045	
12.70 1.01304 0.00042	12.10 1.02182 0.00043	
12.75 1.01502 0.00042		
12.80 1.01757 0.00042		

35	40	50
10.10 0.91966 0.00045	9.80 0.91577 0.00048	9.50 0.92024 0.00047
10.15 0.92284 0.00046	9.85 0.92146 0.00047	9.55 0.92452 0.00046
10.20 0.92679 0.00045	9.90 0.92466 0.00047	9.60 0.92890 0.00049
10.25 0.93151 0.00046	9.95 0.92920 0.00047	9.65 0.93289 0.00047
10.30 0.93378 0.00044	10.00 0.93356 0.00048	9.70 0.93655 0.00048
10.35 0.93700 0.00045	10.05 0.93722 0.00046	9.75 0.94095 0.00048
10.40 0.94159 0.00046	10.10 0.94051 0.00048	9.80 0.94547 0.00048
10.45 0.94468 0.00046	10.15 0.94339 0.00046	9.85 0.94928 0.00049
10.50 0.94923 0.00044	10.20 0.94809 0.00047	9.90 0.95314 0.00047
10.55 0.95186 0.00045	10.25 0.95223 0.00047	9.95 0.95752 0.00048
10.60 0.95592 0.00045	10.30 0.95595 0.00047	10.00 0.96115 0.00048
10.65 0.95900 0.00045	10.35 0.95918 0.00046	10.05 0.96494 0.00048
10.70 0.96279 0.00046	10.40 0.96240 0.00045	10.10 0.96905 0.00048
10.75 0.96628 0.00046	10.45 0.96691 0.00047	10.15 0.97309 0.00049
10.80 0.96997 0.00046	10.50 0.97010 0.00047	10.20 0.97741 0.00048
10.85 0.97368 0.00045	10.55 0.97423 0.00047	10.25 0.98078 0.00048
10.90 0.97680 0.00045	10.60 0.97723 0.00048	10.30 0.98401 0.00048
10.95 0.98007 0.00046	10.65 0.98148 0.00047	10.35 0.98832 0.00048
11.00 0.98386 0.00045	10.70 0.98398 0.00046	10.40 0.99247 0.00047
11.05 0.98631 0.00046	10.75 0.98881 0.00046	10.45 0.99647 0.00049
11.10 0.99014 0.00045	10.80 0.99132 0.00047	10.50 0.99942 0.00048
11.15 0.99272 0.00046	10.85 0.99518 0.00046	10.55 1.00324 0.00048
11.20 0.99646 0.00045	10.90 0.99877 0.00045	10.60 1.00610 0.00049
11.25 0.99989 0.00046	10.95 1.00243 0.00046	10.65 1.00962 0.00048
11.30 1.00303 0.00045	11.00 1.00611 0.00047	10.70 1.01438 0.00048
11.35 1.00540 0.00046	11.05 1.00960 0.00045	10.75 1.01759 0.00048
11.40 1.00951 0.00045	11.10 1.01215 0.00046	10.80 1.02140 0.00049

11.45 1.01251 0.00045	11.15 1.01481 0.00047
11.50 1.01545 0.00046	11.20 1.01861 0.00047
11.55 1.01830 0.00045	
11.60 1.02137 0.00046	

60	70	80
9.30 0.92212 0.00048	9.10 0.91418 0.00050	9.00 0.91259 0.00051
9.35 0.92488 0.00048	9.15 0.91867 0.00050	9.05 0.91757 0.00050
9.40 0.93012 0.00048	9.20 0.92290 0.00049	9.10 0.92223 0.00050
9.45 0.93418 0.00049	9.25 0.92724 0.00051	9.15 0.92699 0.00050
9.50 0.93888 0.00050	9.30 0.93240 0.00049	9.20 0.93177 0.00050
9.55 0.94331 0.00049	9.35 0.93643 0.00050	9.25 0.93588 0.00050
9.60 0.94747 0.00048	9.40 0.94075 0.00049	9.30 0.93984 0.00050
9.65 0.95135 0.00049	9.45 0.94484 0.00050	9.35 0.94465 0.00051
9.70 0.95571 0.00050	9.50 0.94958 0.00050	9.40 0.94940 0.00051
9.75 0.96001 0.00051	9.55 0.95440 0.00050	9.45 0.95286 0.00050
9.80 0.96338 0.00048	9.60 0.95757 0.00049	9.50 0.95766 0.00050
9.85 0.96736 0.00048	9.65 0.96137 0.00049	9.55 0.96160 0.00050
9.90 0.97217 0.00048	9.70 0.96602 0.00050	9.60 0.96575 0.00051
9.95 0.97586 0.00049	9.75 0.97079 0.00051	9.65 0.96971 0.00051
10.00 0.97980 0.00050	9.80 0.97460 0.00050	9.70 0.97426 0.00050
10.05 0.98368 0.00051	9.85 0.97835 0.00049	9.75 0.97817 0.00050
10.10 0.98731 0.00049	9.90 0.98262 0.00050	9.80 0.98258 0.00052
10.15 0.99087 0.00050	9.95 0.98635 0.00049	9.85 0.98512 0.00050
10.20 0.99523 0.00050	10.00 0.99084 0.00049	9.90 0.99063 0.00051
10.25 0.99890 0.00049	10.05 0.99508 0.00049	9.95 0.99468 0.00051
10.30 1.00346 0.00049	10.10 0.99812 0.00050	10.00 0.99801 0.00050
10.35 1.00639 0.00049	10.15 1.00184 0.00050	10.05 1.00339 0.00051
10.40 1.01049 0.00049	10.20 1.00629 0.00051	10.10 1.00635 0.00051
10.45 1.01475 0.00050	10.25 1.01073 0.00049	10.15 1.01027 0.00052
10.50 1.01778 0.00049	10.30 1.01478 0.00050	10.20 1.01558 0.00049
10.55 1.02289 0.00051	10.35 1.01817 0.00052	10.25 1.01830 0.00050
10.60 1.02586 0.00049	10.40 1.02144 0.00049	10.30 1.02236 0.00051

90	100	120
9.00 0.91845 0.00051	9.00 0.92110 0.00051	9.00 0.92428 0.00051
9.05 0.92239 0.00052	9.05 0.92596 0.00052	9.05 0.92804 0.00051
9.10 0.92657 0.00051	9.10 0.93133 0.00049	9.10 0.93212 0.00051
9.15 0.93299 0.00051	9.15 0.93512 0.00050	9.15 0.93828 0.00050
9.20 0.93591 0.00051	9.20 0.93936 0.00050	9.20 0.94181 0.00050
9.25 0.94062 0.00050	9.25 0.94445 0.00051	9.25 0.94733 0.00051
9.30 0.94476 0.00051	9.30 0.94848 0.00051	9.30 0.95090 0.00051
9.35 0.94914 0.00050	9.35 0.95334 0.00051	9.35 0.95521 0.00052
9.40 0.95451 0.00049	9.40 0.95590 0.00051	9.40 0.95995 0.00050
9.45 0.95795 0.00052	9.45 0.96098 0.00052	9.45 0.96384 0.00050
9.50 0.96240 0.00051	9.50 0.96578 0.00051	9.50 0.96885 0.00050
9.55 0.96702 0.00051	9.55 0.97081 0.00051	9.55 0.97262 0.00051

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9.60 0.97008 0.00051	9.60 0.97351 0.00051	9.60 0.97714 0.00051
9.65 0.97522 0.00050	9.65 0.97844 0.00050	9.65 0.98111 0.00051
9.70 0.97915 0.00051	9.70 0.98187 0.00052	9.70 0.98448 0.00050
9.75 0.98389 0.00052	9.75 0.98622 0.00050	9.75 0.98789 0.00052
9.80 0.98767 0.00051	9.80 0.99032 0.00051	9.80 0.99276 0.00052
9.85 0.99217 0.00051	9.85 0.99560 0.00051	9.85 0.99674 0.00050
9.90 0.99575 0.00049	9.90 0.99820 0.00050	9.90 1.00075 0.00051
9.95 0.99974 0.00050	9.95 1.00224 0.00051	9.95 1.00508 0.00049
10.00 1.00312 0.00049	10.00 1.00733 0.00050	10.00 1.00814 0.00051
10.05 1.00659 0.00051	10.05 1.01005 0.00051	10.05 1.01342 0.00053
10.10 1.01193 0.00051	10.10 1.01442 0.00050	10.10 1.01650 0.00050
10.15 1.01547 0.00049	10.15 1.01871 0.00052	10.15 1.02147 0.00051
10.20 1.01950 0.00050	10.20 1.02284 0.00051	10.20 1.02506 0.00052
10.25 1.02285 0.00050		
10.30 1.02652 0.00053		

130	150	200
8.90 0.91656 0.00051	8.90 0.91628 0.00050	9.00 0.92274 0.00050
8.95 0.92076 0.00052	8.95 0.92031 0.00050	9.05 0.92661 0.00051
9.00 0.92557 0.00050	9.00 0.92499 0.00051	9.10 0.93055 0.00052
9.05 0.93140 0.00050	9.05 0.92936 0.00051	9.15 0.93516 0.00050
9.15 0.93894 0.00051	9.10 0.93446 0.00051	9.20 0.93910 0.00050
9.20 0.94294 0.00050	9.15 0.93907 0.00052	9.25 0.94313 0.00049
9.25 0.94840 0.00053	9.20 0.94337 0.00049	9.30 0.94694 0.00051
9.30 0.95269 0.00052	9.25 0.94791 0.00053	9.35 0.95227 0.00051
9.35 0.95553 0.00052	9.30 0.95235 0.00052	9.40 0.95700 0.00051
9.40 0.96199 0.00051	9.35 0.95533 0.00050	9.45 0.96106 0.00051
9.45 0.96570 0.00052	9.40 0.96001 0.00052	9.50 0.96479 0.00050
9.50 0.97073 0.00051	9.45 0.96431 0.00051	9.55 0.96857 0.00051
9.55 0.97409 0.00052	9.50 0.96919 0.00051	9.60 0.97269 0.00052
9.60 0.97814 0.00051	9.55 0.97238 0.00051	9.65 0.97651 0.00050
9.65 0.98293 0.00052	9.60 0.97675 0.00053	9.70 0.98110 0.00051
9.70 0.98681 0.00051	9.70 0.98607 0.00050	9.75 0.98600 0.00052
9.75 0.99052 0.00052	9.75 0.98893 0.00051	9.80 0.98919 0.00050
9.80 0.99436 0.00052	9.80 0.99352 0.00052	9.85 0.99183 0.00051
9.85 0.99818 0.00051	9.85 0.99776 0.00051	9.90 0.99771 0.00051
9.90 1.00287 0.00051	9.90 1.00073 0.00050	9.95 1.00019 0.00051
9.95 1.00632 0.00051	9.95 1.00512 0.00051	10.00 1.00493 0.00051
10.00 1.01092 0.00049	10.00 1.00941 0.00051	10.05 1.00776 0.00051
10.05 1.01414 0.00052	10.10 1.01738 0.00049	10.10 1.01145 0.00051
10.10 1.01894 0.00050	10.15 1.02077 0.00050	10.15 1.01526 0.00051
	10.20 1.02536 0.00051	10.20 1.01988 0.00052

239	250	359
9.00 0.91738 0.00052	9.00 0.91454 0.00050	9.20 0.91813 0.00051
9.05 0.92141 0.00049	9.05 0.92003 0.00052	9.25 0.92326 0.00051
9.10 0.92556 0.00051	9.10 0.92373 0.00051	9.30 0.92747 0.00049

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9.15 0.92986 0.00052	9.15 0.92877 0.00051	9.35 0.93187 0.00049
9.20 0.93452 0.00051	9.25 0.93722 0.00051	9.40 0.93574 0.00050
9.25 0.93870 0.00050	9.30 0.94133 0.00051	9.45 0.93982 0.00050
9.30 0.94147 0.00050	9.35 0.94563 0.00052	9.50 0.94358 0.00051
9.35 0.94790 0.00051	9.40 0.94889 0.00051	9.65 0.95584 0.00051
9.40 0.95216 0.00053	9.45 0.95344 0.00052	9.70 0.95897 0.00050
9.45 0.95647 0.00051	9.50 0.95798 0.00051	9.75 0.96459 0.00051
9.50 0.96002 0.00050	9.55 0.96143 0.00052	9.80 0.96690 0.00051
9.55 0.96318 0.00051	9.60 0.96688 0.00052	9.85 0.97079 0.00050
9.60 0.96788 0.00051	9.65 0.97102 0.00049	9.90 0.97445 0.00050
9.65 0.97165 0.00053	9.70 0.97377 0.00049	9.95 0.97834 0.00049
9.70 0.97630 0.00051	9.75 0.97813 0.00050	10.00 0.98366 0.00051
9.75 0.98064 0.00053	9.80 0.98223 0.00052	10.05 0.98646 0.00051
9.80 0.98413 0.00050	9.85 0.98549 0.00051	10.10 0.99084 0.00049
9.85 0.98825 0.00051	9.90 0.98969 0.00051	10.15 0.99360 0.00050
9.90 0.99243 0.00051	9.95 0.99306 0.00050	10.20 0.99785 0.00051
9.95 0.99589 0.00052	10.00 0.99704 0.00051	10.25 1.00055 0.00050
10.00 0.99926 0.00051	10.05 1.00168 0.00051	10.30 1.00476 0.00050
10.05 1.00360 0.00051	10.10 1.00495 0.00052	10.35 1.00732 0.00050
10.15 1.01019 0.00051	10.15 1.00888 0.00052	10.40 1.01167 0.00050
10.20 1.01416 0.00050	10.20 1.01208 0.00052	10.45 1.01539 0.00050
10.25 1.01871 0.00050	10.25 1.01596 0.00052	10.50 1.01902 0.00051
10.30 1.02133 0.00051	10.30 1.02004 0.00051	
	10.35 1.02314 0.00051	
	10.40 1.02770 0.00052	

478	500	600
9.40 0.91766 0.00050	9.50 0.92292 0.00050	9.80 0.92297 0.00049
9.45 0.92264 0.00049	9.55 0.92692 0.00049	9.85 0.92589 0.00050
9.50 0.92579 0.00050	9.60 0.93054 0.00050	9.90 0.92985 0.00049
9.55 0.93132 0.00049	9.65 0.93516 0.00050	9.95 0.93312 0.00049
9.60 0.93449 0.00049	9.70 0.93884 0.00049	10.00 0.93769 0.00052
9.65 0.93863 0.00051	9.75 0.94249 0.00051	10.05 0.94182 0.00050
9.70 0.94325 0.00050	9.80 0.94656 0.00051	10.10 0.94471 0.00050
9.75 0.94698 0.00049	9.85 0.95078 0.00050	10.15 0.94902 0.00050
9.80 0.95074 0.00052	9.90 0.95443 0.00049	10.20 0.95219 0.00051
9.85 0.95387 0.00050	9.95 0.95864 0.00049	10.25 0.95746 0.00048
9.90 0.95772 0.00050	10.00 0.96192 0.00050	10.30 0.96010 0.00051
9.95 0.96112 0.00051	10.05 0.96587 0.00050	10.35 0.96308 0.00051
10.00 0.96564 0.00051	10.10 0.96922 0.00050	10.40 0.96717 0.00049
10.05 0.96868 0.00050	10.15 0.97315 0.00052	10.45 0.97029 0.00050
10.10 0.97340 0.00050	10.20 0.97664 0.00049	10.50 0.97501 0.00050
10.15 0.97702 0.00048	10.25 0.98028 0.00051	10.55 0.97820 0.00049
10.20 0.97962 0.00049	10.30 0.98296 0.00051	10.60 0.98065 0.00049
10.25 0.98328 0.00050	10.35 0.98703 0.00049	10.65 0.98494 0.00051
10.30 0.98744 0.00051	10.40 0.99132 0.00049	10.70 0.98746 0.00051
10.35 0.99240 0.00051	10.45 0.99532 0.00050	10.75 0.99187 0.00050
10.40 0.99482 0.00049	10.50 0.99744 0.00050	10.80 0.99491 0.00049
10.45 0.99810 0.00050	10.55 1.00184 0.00050	10.85 0.99789 0.00048

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10.50	1.00161	0.00050	10.60	1.00422	0.00050	10.90	1.00303	0.00050
10.55	1.00600	0.00050	10.65	1.00928	0.00049	10.95	1.00551	0.00050
10.60	1.00814	0.00048	10.70	1.01192	0.00050	11.00	1.00778	0.00049
10.65	1.01280	0.00051	10.75	1.01592	0.00050	11.05	1.01131	0.00050
10.70	1.01581	0.00051	10.80	1.01793	0.00050	11.10	1.01539	0.00050
10.75	1.01906	0.00050	10.85	1.02237	0.00051	11.15	1.01824	0.00050
10.80	1.02248	0.00049	10.90	1.02518	0.00050	11.20	1.02182	0.00049

650	700	750						
10.00	0.92002	0.00048	10.40	0.91795	0.00049	11.40	0.91472	0.00049
10.10	0.92679	0.00049	10.45	0.92137	0.00049	11.45	0.91778	0.00050
10.15	0.92986	0.00049	10.50	0.92505	0.00049	11.50	0.92160	0.00050
10.20	0.93396	0.00049	10.55	0.92978	0.00048	11.55	0.92463	0.00048
10.25	0.93860	0.00049	10.60	0.93255	0.00050	11.60	0.92850	0.00048
10.30	0.94191	0.00049	10.65	0.93636	0.00048	11.65	0.93145	0.00047
10.35	0.94417	0.00050	10.70	0.94065	0.00049	11.70	0.93530	0.00048
10.40	0.94917	0.00049	10.75	0.94335	0.00049	11.75	0.93821	0.00049
10.45	0.95294	0.00049	10.80	0.94749	0.00049	11.80	0.94107	0.00049
10.50	0.95598	0.00049	10.85	0.95079	0.00049	11.85	0.94446	0.00048
10.55	0.96046	0.00049	10.90	0.95477	0.00051	11.90	0.94730	0.00049
10.60	0.96250	0.00048	10.95	0.95735	0.00048	11.95	0.95056	0.00048
10.65	0.96671	0.00049	11.00	0.96143	0.00049	12.00	0.95385	0.00049
10.70	0.97100	0.00050	11.05	0.96613	0.00048	12.05	0.95719	0.00048
10.75	0.97361	0.00049	11.10	0.96798	0.00051	12.10	0.96132	0.00048
10.80	0.97802	0.00049	11.15	0.97227	0.00049	12.15	0.96290	0.00048
10.85	0.97992	0.00049	11.20	0.97445	0.00050	12.20	0.96648	0.00048
10.90	0.98359	0.00049	11.25	0.97800	0.00050	12.25	0.96987	0.00048
10.95	0.98739	0.00050	11.30	0.98209	0.00050	12.30	0.97216	0.00048
11.00	0.99069	0.00049	11.35	0.98413	0.00050	12.35	0.97577	0.00048
11.05	0.99392	0.00051	11.40	0.98829	0.00049	12.40	0.97932	0.00049
11.10	0.99728	0.00050	11.45	0.99133	0.00049	12.45	0.98260	0.00050
11.15	1.00110	0.00049	11.50	0.99387	0.00049	12.50	0.98429	0.00049
11.20	1.00406	0.00049	11.55	0.99839	0.00050	12.55	0.98800	0.00049
11.25	1.00776	0.00049	11.60	1.00087	0.00049	12.60	0.99108	0.00049
11.30	1.01108	0.00050	11.65	1.00387	0.00049	12.65	0.99345	0.00050
11.35	1.01363	0.00049	11.75	1.00928	0.00048	12.70	0.99687	0.00048
11.40	1.01660	0.00051	11.80	1.01349	0.00048	12.75	0.99968	0.00049
11.45	1.01973	0.00049	11.85	1.01709	0.00050	12.80	1.00212	0.00048
11.50	1.02288	0.00050	11.90	1.01937	0.00049	12.85	1.00498	0.00049
						12.90	1.00835	0.00049
						12.95	1.01166	0.00049
						13.00	1.01368	0.00048
						13.05	1.01753	0.00050
						13.10	1.01922	0.00050

752	754	755
11.60 0.91827 0.00047	11.80 0.91929 0.00048	12.00 0.92062 0.00049
11.65 0.92220 0.00048	11.85 0.92252 0.00048	12.05 0.92520 0.00048
11.70 0.92548 0.00048	11.90 0.92605 0.00047	12.10 0.92577 0.00049
11.75 0.92988 0.00049	11.95 0.92887 0.00049	12.15 0.93026 0.00049
11.80 0.93258 0.00048	12.00 0.93192 0.00048	12.20 0.93303 0.00050
11.85 0.93486 0.00049	12.05 0.93478 0.00048	12.25 0.93563 0.00049
11.90 0.93821 0.00047	12.10 0.93846 0.00047	12.30 0.93904 0.00048
11.95 0.94295 0.00049	12.15 0.94133 0.00049	12.35 0.94342 0.00049
12.00 0.94563 0.00049	12.20 0.94481 0.00048	12.40 0.94516 0.00049
12.05 0.94789 0.00048	12.25 0.94786 0.00048	12.45 0.95000 0.00048
12.10 0.95198 0.00049	12.30 0.95171 0.00049	12.50 0.95185 0.00048
12.15 0.95429 0.00048	12.35 0.95508 0.00049	12.55 0.95493 0.00049
12.20 0.95789 0.00049	12.40 0.95763 0.00048	12.60 0.95858 0.00048
12.25 0.96157 0.00049	12.45 0.95953 0.00049	12.65 0.96155 0.00048
12.30 0.96339 0.00050	12.50 0.96324 0.00049	12.70 0.96354 0.00048
12.35 0.96599 0.00050	12.55 0.96602 0.00049	12.75 0.96775 0.00048
12.40 0.97044 0.00047	12.60 0.97007 0.00048	12.80 0.96944 0.00047
12.45 0.97293 0.00049	12.65 0.97170 0.00050	12.85 0.97273 0.00048
12.50 0.97630 0.00048	12.70 0.97525 0.00050	12.90 0.97565 0.00050
12.55 0.97862 0.00049	12.75 0.97887 0.00050	12.95 0.97849 0.00048
12.60 0.98214 0.00049	12.80 0.98113 0.00048	13.00 0.98285 0.00049
12.65 0.98470 0.00049	12.85 0.98503 0.00048	13.05 0.98508 0.00048
12.70 0.98868 0.00048	12.90 0.98722 0.00048	13.10 0.98687 0.00048
12.75 0.99144 0.00048	12.95 0.99069 0.00048	13.15 0.99034 0.00049
12.80 0.99345 0.00048	13.00 0.99238 0.00049	13.20 0.99263 0.00050
12.85 0.99713 0.00048	13.05 0.99613 0.00049	13.25 0.99668 0.00048
12.90 0.99987 0.00049	13.10 0.99850 0.00048	13.30 0.99883 0.00048
12.95 1.00224 0.00049	13.15 1.00223 0.00049	13.35 1.00214 0.00048
13.00 1.00577 0.00049	13.20 1.00398 0.00049	13.40 1.00399 0.00050
13.05 1.00831 0.00049	13.25 1.00681 0.00049	13.45 1.00718 0.00047
13.10 1.01061 0.00048	13.30 1.01060 0.00050	13.50 1.00987 0.00047
13.15 1.01403 0.00048	13.35 1.01189 0.00048	13.55 1.01196 0.00048
13.20 1.01675 0.00050	13.40 1.01607 0.00050	13.60 1.01475 0.00050
13.25 1.01871 0.00050	13.45 1.01810 0.00048	13.65 1.01838 0.00049
13.30 1.02211 0.00048	13.50 1.02061 0.00049	13.70 1.02093 0.00049

10.35 0.96794 0.00040	9.75 0.97243 0.00043	9.55 0.97243 0.00044
10.40 0.97099 0.00041	9.80 0.97612 0.00042	9.60 0.97528 0.00043
10.45 0.97386 0.00040	9.85 0.97835 0.00042	9.65 0.97899 0.00042
10.50 0.97676 0.00041	9.90 0.98186 0.00042	9.70 0.98207 0.00044
10.55 0.97991 0.00040	9.95 0.98451 0.00044	9.75 0.98511 0.00043
10.60 0.98288 0.00040	10.00 0.98876 0.00042	9.80 0.98855 0.00043
10.65 0.98493 0.00039	10.05 0.99063 0.00043	9.85 0.99151 0.00043
10.70 0.98887 0.00040	10.10 0.99379 0.00041	9.90 0.99436 0.00043
10.75 0.99073 0.00040	10.15 0.99663 0.00043	9.95 0.99807 0.00042
10.80 0.99388 0.00040	10.20 1.00046 0.00041	10.00 1.00074 0.00042
10.85 0.99568 0.00041	10.25 1.00288 0.00041	10.05 1.00337 0.00042
10.90 0.99872 0.00042	10.30 1.00642 0.00043	10.10 1.00713 0.00043
10.95 1.00134 0.00041	10.35 1.00903 0.00042	10.15 1.00971 0.00043
11.00 1.00389 0.00040	10.40 1.01183 0.00044	10.20 1.01278 0.00043
11.05 1.00664 0.00041	10.45 1.01468 0.00042	10.25 1.01590 0.00042
11.10 1.00896 0.00042	10.50 1.01738 0.00042	10.30 1.01877 0.00043
11.15 1.01171 0.00041	10.55 1.02039 0.00042	
11.20 1.01353 0.00040	10.60 1.02370 0.00043	
11.25 1.01656 0.00041		
11.30 1.01913 0.00039		

35	40	50
8.60 0.92074 0.00045	8.30 0.91894 0.00045	7.90 0.91457 0.00046
8.65 0.92492 0.00044	8.35 0.92320 0.00045	7.95 0.91889 0.00049
8.70 0.92864 0.00043	8.40 0.92691 0.00044	8.00 0.92298 0.00047
8.75 0.93182 0.00043	8.45 0.93197 0.00044	8.05 0.92826 0.00046
8.80 0.93562 0.00043	8.50 0.93571 0.00044	8.10 0.93258 0.00046
8.85 0.93968 0.00044	8.55 0.93825 0.00045	8.15 0.93538 0.00046
8.90 0.94334 0.00044	8.60 0.94235 0.00045	8.20 0.94019 0.00046
8.95 0.94645 0.00044	8.65 0.94715 0.00045	8.25 0.94346 0.00047
9.00 0.95006 0.00043	8.70 0.95013 0.00043	8.30 0.94829 0.00046
9.05 0.95356 0.00044	8.75 0.95458 0.00045	8.35 0.95272 0.00045
9.10 0.95743 0.00044	8.80 0.95795 0.00045	8.40 0.95588 0.00044
9.15 0.96072 0.00044	8.85 0.96192 0.00045	8.45 0.96079 0.00046
9.20 0.96470 0.00044	8.90 0.96480 0.00045	8.50 0.96466 0.00046
9.25 0.96840 0.00043	8.95 0.96963 0.00044	8.55 0.96829 0.00045
9.30 0.97219 0.00044	9.00 0.97234 0.00046	8.60 0.97214 0.00047
9.35 0.97540 0.00044	9.05 0.97571 0.00044	8.65 0.97549 0.00046
9.40 0.97813 0.00043	9.10 0.98011 0.00044	8.70 0.98045 0.00046
9.45 0.98163 0.00045	9.15 0.98284 0.00045	8.75 0.98422 0.00048
9.50 0.98453 0.00044	9.20 0.98681 0.00043	8.80 0.98747 0.00045
9.55 0.98827 0.00043	9.25 0.99093 0.00045	8.85 0.99139 0.00045
9.60 0.99174 0.00045	9.30 0.99387 0.00045	8.90 0.99408 0.00047
9.65 0.99587 0.00043	9.35 0.99729 0.00045	8.95 0.99919 0.00045
9.70 0.99914 0.00044	9.40 1.00112 0.00045	9.00 1.00220 0.00047
9.75 1.00179 0.00043	9.45 1.00385 0.00044	9.05 1.00673 0.00046
9.80 1.00427 0.00043	9.50 1.00852 0.00045	9.10 1.00966 0.00047
9.85 1.00836 0.00044	9.55 1.01105 0.00045	9.15 1.01281 0.00047
9.90 1.01119 0.00044	9.60 1.01436 0.00045	9.20 1.01648 0.00047

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9.95 1.01435 0.00045	9.65 1.01793 0.00044	9.25 1.01995 0.00045
10.00 1.01685 0.00044	9.70 1.02169 0.00045	9.30 1.02415 0.00048
10.05 1.02037 0.00044		
10.10 1.02422 0.00043		

60	70	80
7.70 0.91502 0.00046	7.60 0.91723 0.00049	7.50 0.91763 0.00049
7.75 0.92015 0.00046	7.65 0.92229 0.00047	7.55 0.92294 0.00048
7.80 0.92501 0.00046	7.70 0.92673 0.00048	7.60 0.92677 0.00048
7.85 0.92902 0.00048	7.75 0.93126 0.00047	7.65 0.93116 0.00048
7.90 0.93285 0.00048	7.80 0.93727 0.00048	7.70 0.93546 0.00047
7.95 0.93792 0.00046	7.85 0.94038 0.00048	7.75 0.93981 0.00048
8.00 0.94178 0.00048	7.90 0.94493 0.00048	7.80 0.94455 0.00048
8.05 0.94641 0.00048	7.95 0.94910 0.00048	7.85 0.94847 0.00048
8.10 0.95085 0.00046	8.00 0.95376 0.00049	7.90 0.95309 0.00048
8.15 0.95535 0.00047	8.05 0.95847 0.00048	7.95 0.95728 0.00048
8.20 0.95881 0.00047	8.10 0.96161 0.00047	8.00 0.96241 0.00047
8.25 0.96247 0.00047	8.15 0.96637 0.00048	8.05 0.96602 0.00049
8.30 0.96689 0.00047	8.20 0.96949 0.00047	8.10 0.96996 0.00049
8.35 0.97108 0.00048	8.25 0.97489 0.00048	8.15 0.97416 0.00049
8.40 0.97575 0.00047	8.30 0.97829 0.00048	8.20 0.97787 0.00050
8.45 0.97909 0.00047	8.35 0.98285 0.00048	8.25 0.98330 0.00049
8.50 0.98268 0.00049	8.40 0.98664 0.00048	8.30 0.98529 0.00048
8.55 0.98693 0.00046	8.45 0.99134 0.00048	8.35 0.99181 0.00050
8.60 0.99097 0.00048	8.50 0.99589 0.00048	8.40 0.99587 0.00048
8.65 0.99510 0.00048	8.55 0.99762 0.00048	8.45 0.99914 0.00049
8.70 0.99915 0.00049	8.60 1.00292 0.00049	8.50 1.00331 0.00048
8.75 1.00280 0.00047	8.65 1.00622 0.00049	8.55 1.00736 0.00048
8.80 1.00723 0.00046	8.70 1.01087 0.00048	8.60 1.01005 0.00050
8.85 1.00997 0.00048	8.75 1.01437 0.00048	8.65 1.01435 0.00048
8.90 1.01324 0.00047	8.80 1.01863 0.00048	8.70 1.01884 0.00049
8.95 1.01755 0.00046		8.75 1.02233 0.00048
9.00 1.02221 0.00047		8.80 1.02654 0.00048

90	100	120
7.50 0.92305 0.00048	7.40 0.91746 0.00049	7.40 0.92096 0.00049
7.55 0.92773 0.00049	7.45 0.92174 0.00049	7.45 0.92504 0.00048
7.60 0.93172 0.00048	7.50 0.92688 0.00049	7.50 0.92986 0.00050
7.65 0.93658 0.00049	7.55 0.93163 0.00048	7.55 0.93503 0.00049
7.70 0.94169 0.00049	7.60 0.93491 0.00049	7.60 0.93912 0.00051
7.75 0.94517 0.00050	7.65 0.94086 0.00050	7.65 0.94429 0.00050
7.80 0.94959 0.00049	7.70 0.94463 0.00049	7.70 0.94806 0.00049
7.85 0.95309 0.00049	7.75 0.94834 0.00049	7.75 0.95182 0.00050
7.90 0.95906 0.00049	7.80 0.95366 0.00049	7.80 0.95650 0.00049
7.95 0.96367 0.00050	7.85 0.95812 0.00048	7.85 0.96121 0.00048
8.00 0.96761 0.00050	7.90 0.96216 0.00048	7.90 0.96577 0.00049
8.05 0.97059 0.00049	7.95 0.96648 0.00049	7.95 0.96857 0.00050

8.10 0.97561 0.00048	8.00 0.97079 0.00049	8.00 0.97285 0.00049
8.20 0.98361 0.00050	8.05 0.97524 0.00049	8.05 0.97818 0.00048
8.25 0.98829 0.00048	8.10 0.97922 0.00049	8.10 0.98156 0.00049
8.30 0.99230 0.00049	8.15 0.98313 0.00050	8.15 0.98561 0.00049
8.35 0.99594 0.00049	8.20 0.98693 0.00049	8.20 0.98942 0.00049
8.40 1.00033 0.00048	8.25 0.99228 0.00049	8.25 0.99357 0.00050
8.45 1.00398 0.00048	8.30 0.99621 0.00049	8.30 0.99797 0.00049
8.50 1.00829 0.00049	8.35 0.99948 0.00050	8.35 1.00345 0.00048
8.55 1.01303 0.00048	8.40 1.00428 0.00048	8.40 1.00650 0.00049
8.60 1.01642 0.00049	8.45 1.00769 0.00048	8.45 1.00998 0.00049
8.65 1.02035 0.00049	8.50 1.01213 0.00050	8.50 1.01428 0.00048
8.70 1.02422 0.00049	8.55 1.01609 0.00050	8.55 1.01750 0.00049
	8.60 1.02005 0.00050	8.60 1.02252 0.00049

130	150	200
7.40 0.92219 0.00049	7.40 0.92215 0.00048	7.40 0.91854 0.00049
7.45 0.92714 0.00049	7.45 0.92603 0.00049	7.45 0.92457 0.00050
7.50 0.93088 0.00049	7.50 0.93135 0.00050	7.50 0.92763 0.00049
7.55 0.93592 0.00050	7.55 0.93556 0.00049	7.55 0.93290 0.00050
7.60 0.94121 0.00049	7.60 0.93976 0.00049	7.60 0.93740 0.00050
7.65 0.94442 0.00050	7.65 0.94539 0.00050	7.65 0.94143 0.00050
7.70 0.94933 0.00048	7.70 0.95023 0.00049	7.70 0.94538 0.00048
7.75 0.95363 0.00050	7.75 0.95327 0.00050	7.75 0.95039 0.00049
7.80 0.95820 0.00048	7.80 0.95910 0.00050	7.80 0.95495 0.00050
7.85 0.96318 0.00050	7.85 0.96183 0.00049	7.85 0.95829 0.00050
7.90 0.96742 0.00049	7.90 0.96629 0.00050	7.90 0.96141 0.00049
7.95 0.97067 0.00049	7.95 0.97036 0.00051	7.95 0.96751 0.00050
8.00 0.97547 0.00048	8.00 0.97474 0.00048	8.00 0.97083 0.00050
8.05 0.97913 0.00051	8.05 0.97890 0.00049	8.05 0.97517 0.00049
8.10 0.98378 0.00050	8.10 0.98355 0.00049	8.10 0.97826 0.00048
8.15 0.98706 0.00049	8.15 0.98783 0.00048	8.15 0.98247 0.00051
8.20 0.99244 0.00050	8.20 0.99034 0.00050	8.20 0.98646 0.00049
8.25 0.99622 0.00049	8.25 0.99501 0.00049	8.25 0.99069 0.00050
8.30 0.99990 0.00049	8.30 0.99938 0.00047	8.30 0.99493 0.00050
8.35 1.00422 0.00049	8.35 1.00348 0.00049	8.35 0.99919 0.00048
8.40 1.00788 0.00049	8.40 1.00711 0.00050	8.40 1.00237 0.00050
8.45 1.01214 0.00049	8.45 1.01161 0.00050	8.45 1.00655 0.00051
8.50 1.01500 0.00048	8.50 1.01476 0.00049	8.50 1.01053 0.00049
8.55 1.02140 0.00048	8.55 1.01915 0.00051	8.55 1.01474 0.00050
8.60 1.02462 0.00049	8.60 1.02269 0.00049	

239	250	359
7.50 0.92285 0.00049	7.50 0.92184 0.00050	7.60 0.91707 0.00050
7.55 0.92806 0.00049	7.55 0.92602 0.00049	7.65 0.92130 0.00049
7.60 0.93182 0.00048	7.60 0.93044 0.00049	7.70 0.92490 0.00050
7.65 0.93600 0.00049	7.65 0.93626 0.00049	7.75 0.92955 0.00049
7.70 0.94100 0.00049	7.70 0.93922 0.00051	7.80 0.93361 0.00051

7.75 0.94607 0.00048	7.75 0.94444 0.00049	7.90 0.94305 0.00049
7.80 0.94870 0.00050	7.80 0.94847 0.00048	7.95 0.94710 0.00048
7.85 0.95483 0.00049	7.85 0.95255 0.00049	8.00 0.94989 0.00048
7.90 0.95759 0.00050	7.90 0.95599 0.00050	8.05 0.95398 0.00050
7.95 0.96197 0.00049	7.95 0.96062 0.00050	8.10 0.95906 0.00048
8.00 0.96588 0.00049	8.00 0.96417 0.00050	8.15 0.96179 0.00049
8.05 0.97007 0.00049	8.05 0.96889 0.00051	8.20 0.96625 0.00049
8.10 0.97457 0.00049	8.10 0.97274 0.00050	8.25 0.96929 0.00049
8.15 0.97828 0.00051	8.15 0.97635 0.00050	8.30 0.97384 0.00049
8.20 0.98291 0.00051	8.20 0.97938 0.00050	8.35 0.97696 0.00050
8.25 0.98588 0.00049	8.25 0.98421 0.00050	8.40 0.98106 0.00050
8.30 0.98975 0.00049	8.30 0.98931 0.00051	8.45 0.98531 0.00048
8.35 0.99376 0.00049	8.35 0.99177 0.00050	8.50 0.98920 0.00049
8.40 0.99741 0.00049	8.40 0.99661 0.00049	8.55 0.99268 0.00049
8.45 1.00142 0.00050	8.45 0.99995 0.00049	8.60 0.99676 0.00050
8.50 1.00459 0.00050	8.50 1.00453 0.00049	8.65 1.00033 0.00049
8.55 1.00930 0.00049	8.60 1.01062 0.00049	8.70 1.00355 0.00049
8.60 1.01293 0.00051	8.65 1.01587 0.00048	8.75 1.00728 0.00048
8.65 1.01694 0.00049	8.70 1.01843 0.00049	8.80 1.01050 0.00049
8.70 1.02029 0.00049		8.85 1.01464 0.00050
		8.90 1.01837 0.00050

478	500	600
7.80 0.91734 0.00049	7.90 0.92123 0.00048	8.20 0.92423 0.00047
7.85 0.92091 0.00049	7.95 0.92560 0.00049	8.25 0.92768 0.00049
7.90 0.92570 0.00050	8.00 0.93069 0.00048	8.30 0.93130 0.00050
7.95 0.92848 0.00049	8.05 0.93372 0.00048	8.35 0.93427 0.00050
8.00 0.93410 0.00049	8.10 0.93764 0.00049	8.40 0.93919 0.00050
8.05 0.93827 0.00048	8.15 0.94165 0.00050	8.45 0.94254 0.00051
8.10 0.94081 0.00050	8.20 0.94621 0.00050	8.50 0.94660 0.00048
8.15 0.94547 0.00050	8.25 0.94928 0.00050	8.55 0.95083 0.00050
8.20 0.94953 0.00049	8.30 0.95375 0.00048	8.60 0.95450 0.00050
8.25 0.95246 0.00049	8.35 0.95661 0.00049	8.65 0.95748 0.00051
8.30 0.95766 0.00048	8.40 0.96045 0.00049	8.70 0.96128 0.00048
8.35 0.95984 0.00048	8.45 0.96475 0.00049	8.75 0.96434 0.00049
8.40 0.96351 0.00050	8.50 0.96856 0.00048	8.80 0.96907 0.00049
8.45 0.96845 0.00049	8.55 0.97244 0.00049	8.85 0.97199 0.00050
8.50 0.97179 0.00048	8.60 0.97622 0.00048	8.90 0.97484 0.00049
8.55 0.97493 0.00049	8.65 0.97909 0.00049	8.95 0.97941 0.00049
8.60 0.97953 0.00048	8.70 0.98306 0.00051	9.00 0.98231 0.00051
8.65 0.98283 0.00050	8.75 0.98643 0.00050	9.05 0.98632 0.00051
8.70 0.98596 0.00049	8.80 0.99100 0.00049	9.10 0.99048 0.00048
8.75 0.99046 0.00049	8.85 0.99421 0.00049	9.15 0.99291 0.00049
8.80 0.99403 0.00048	8.90 0.99847 0.00050	9.20 0.99575 0.00048
8.85 0.99726 0.00050	8.95 1.00004 0.00050	9.25 0.99934 0.00051
8.90 1.00118 0.00049	9.00 1.00526 0.00049	9.30 1.00323 0.00049
8.95 1.00413 0.00049	9.05 1.00811 0.00049	9.35 1.00634 0.00049
9.00 1.00787 0.00050	9.10 1.01114 0.00050	9.40 1.00844 0.00049
9.05 1.01125 0.00049	9.15 1.01507 0.00048	9.45 1.01343 0.00050
9.10 1.01521 0.00049	9.20 1.01799 0.00051	9.50 1.01568 0.00049

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9.25 1.02083 0.00049	9.55 1.01943 0.00048
9.30 1.02499 0.00049	9.60 1.02124 0.00049

650	700	750
8.40 0.92237 0.00050	8.70 0.91869 0.00050	9.60 0.92027 0.00049
8.45 0.92662 0.00050	8.75 0.92198 0.00048	9.65 0.92301 0.00049
8.50 0.93024 0.00048	8.80 0.92665 0.00049	9.70 0.92642 0.00049
8.55 0.93452 0.00050	8.85 0.93017 0.00049	9.75 0.92943 0.00048
8.60 0.93747 0.00047	8.90 0.93387 0.00050	9.80 0.93276 0.00050
8.65 0.94111 0.00048	8.95 0.93683 0.00047	9.85 0.93614 0.00048
8.70 0.94490 0.00049	9.00 0.94096 0.00048	9.90 0.93936 0.00048
8.75 0.94890 0.00048	9.05 0.94416 0.00048	9.95 0.94228 0.00049
8.80 0.95269 0.00050	9.10 0.94905 0.00048	10.00 0.94657 0.00048
8.85 0.95455 0.00048	9.15 0.95127 0.00050	10.05 0.94932 0.00048
8.90 0.95928 0.00050	9.20 0.95469 0.00048	10.10 0.95249 0.00048
8.95 0.96381 0.00048	9.25 0.95882 0.00048	10.15 0.95556 0.00049
9.00 0.96574 0.00050	9.30 0.96143 0.00049	10.20 0.95971 0.00049
9.05 0.96976 0.00048	9.35 0.96505 0.00048	10.25 0.96246 0.00049
9.10 0.97350 0.00049	9.40 0.96769 0.00050	10.30 0.96457 0.00048
9.15 0.97689 0.00048	9.45 0.97144 0.00049	10.35 0.96846 0.00048
9.20 0.98099 0.00048	9.50 0.97522 0.00049	10.40 0.97111 0.00047
9.25 0.98336 0.00048	9.55 0.97788 0.00049	10.45 0.97378 0.00048
9.30 0.98714 0.00049	9.60 0.98079 0.00048	10.50 0.97690 0.00047
9.35 0.99106 0.00049	9.65 0.98407 0.00050	10.55 0.98000 0.00048
9.40 0.99409 0.00048	9.75 0.99088 0.00049	10.60 0.98343 0.00047
9.45 0.99620 0.00049	9.80 0.99393 0.00050	10.65 0.98595 0.00048
9.50 1.00040 0.00049	9.85 0.99753 0.00048	10.70 0.98941 0.00049
9.55 1.00286 0.00050	9.90 1.00107 0.00048	10.75 0.99159 0.00049
9.60 1.00586 0.00049	9.95 1.00438 0.00047	10.80 0.99387 0.00048
9.65 1.01006 0.00048	10.00 1.00699 0.00048	10.85 0.99758 0.00048
9.70 1.01300 0.00050	10.05 1.00993 0.00049	10.90 1.00114 0.00048
9.75 1.01676 0.00049	10.10 1.01345 0.00049	10.95 1.00370 0.00049
9.80 1.01980 0.00049	10.15 1.01550 0.00049	11.00 1.00589 0.00048
	10.20 1.01949 0.00050	11.05 1.00955 0.00050
		11.10 1.01202 0.00048
		11.15 1.01558 0.00049
		11.20 1.01736 0.00050
		11.25 1.01966 0.00048
		11.30 1.02338 0.00048

752	754	755
9.70 0.91902 0.00048	9.90 0.92091 0.00049	10.00 0.91849 0.00048
9.75 0.92272 0.00049	9.95 0.92489 0.00048	10.05 0.92108 0.00048
9.80 0.92593 0.00048	10.00 0.92858 0.00048	10.10 0.92451 0.00049
9.85 0.92882 0.00048	10.05 0.93118 0.00048	10.15 0.92721 0.00047
9.90 0.93218 0.00049	10.10 0.93368 0.00048	10.20 0.93129 0.00048
9.95 0.93557 0.00050	10.15 0.93690 0.00048	10.25 0.93404 0.00048

10.00 0.93864 0.00048	10.20 0.94110 0.00048	10.30 0.93726 0.00050
10.05 0.94203 0.00048	10.25 0.94432 0.00048	10.35 0.94036 0.00048
10.10 0.94474 0.00048	10.30 0.94682 0.00048	10.40 0.94348 0.00049
10.20 0.95135 0.00049	10.35 0.95024 0.00048	10.45 0.94613 0.00049
10.25 0.95491 0.00047	10.40 0.95356 0.00048	10.50 0.95008 0.00048
10.30 0.95734 0.00048	10.45 0.95515 0.00048	10.55 0.95255 0.00051
10.35 0.96001 0.00049	10.50 0.95817 0.00048	10.60 0.95565 0.00048
10.40 0.96351 0.00049	10.55 0.96133 0.00047	10.65 0.95849 0.00049
10.45 0.96582 0.00050	10.60 0.96486 0.00049	10.70 0.96108 0.00047
10.50 0.96981 0.00049	10.65 0.96849 0.00049	10.75 0.96468 0.00047
10.55 0.97264 0.00049	10.70 0.97091 0.00048	10.80 0.96799 0.00048
10.60 0.97515 0.00048	10.75 0.97412 0.00049	10.85 0.96994 0.00048
10.65 0.97924 0.00050	10.80 0.97669 0.00048	10.90 0.97436 0.00047
10.70 0.98199 0.00048	10.85 0.98001 0.00050	10.95 0.97646 0.00047
10.75 0.98403 0.00049	10.90 0.98247 0.00049	11.00 0.97992 0.00049
10.80 0.98695 0.00049	10.95 0.98541 0.00050	11.05 0.98263 0.00048
10.85 0.98969 0.00047	11.00 0.98885 0.00048	11.10 0.98399 0.00050
10.90 0.99338 0.00049	11.05 0.99117 0.00049	11.15 0.98747 0.00049
10.95 0.99721 0.00049	11.10 0.99387 0.00049	11.20 0.99134 0.00048
11.00 0.99955 0.00048	11.15 0.99782 0.00050	11.25 0.99286 0.00049
11.05 1.00193 0.00047	11.20 1.00032 0.00048	11.30 0.99583 0.00048
11.10 1.00436 0.00049	11.25 1.00200 0.00049	11.35 1.00018 0.00047
11.15 1.00766 0.00048	11.30 1.00564 0.00049	11.40 1.00134 0.00048
11.20 1.01035 0.00049	11.35 1.00775 0.00049	11.45 1.00435 0.00050
11.25 1.01269 0.00049	11.40 1.01100 0.00048	11.50 1.00754 0.00048
11.30 1.01622 0.00049	11.45 1.01370 0.00049	11.55 1.01018 0.00049
11.35 1.01957 0.00049	11.50 1.01664 0.00050	11.60 1.01266 0.00049
11.40 1.02146 0.00048	11.55 1.01888 0.00049	11.65 1.01583 0.00048
	11.60 1.02210 0.00049	11.70 1.01886 0.00048

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12	15	20
13.90 0.92454 0.00029	11.40 0.92496 0.00032	9.40 0.92105 0.00035
14.10 0.93048 0.00028	11.50 0.92918 0.00032	9.50 0.92647 0.00036
14.30 0.93521 0.00029	11.60 0.93238 0.00032	9.60 0.93173 0.00036
14.50 0.93963 0.00028	11.70 0.93620 0.00032	9.70 0.93709 0.00035
14.70 0.94538 0.00028	11.80 0.93984 0.00032	9.80 0.94343 0.00035
14.90 0.94997 0.00028	11.90 0.94339 0.00031	9.90 0.94723 0.00036
15.10 0.95453 0.00028	12.00 0.94677 0.00032	10.00 0.95273 0.00036
15.30 0.95909 0.00027	12.10 0.95015 0.00031	10.10 0.95716 0.00035
15.50 0.96332 0.00028	12.20 0.95350 0.00032	10.20 0.96195 0.00035
15.70 0.96772 0.00028	12.30 0.95703 0.00032	10.30 0.96676 0.00035
15.90 0.97230 0.00028	12.40 0.96108 0.00031	10.40 0.97192 0.00036
16.10 0.97589 0.00028	12.50 0.96413 0.00031	10.50 0.97706 0.00035
16.30 0.98003 0.00027	12.60 0.96791 0.00032	10.60 0.98106 0.00035
16.50 0.98457 0.00027	12.70 0.97062 0.00033	10.70 0.98542 0.00034
16.70 0.98739 0.00027	12.80 0.97501 0.00030	10.80 0.98998 0.00036
16.90 0.99152 0.00027	12.90 0.97794 0.00030	10.90 0.99509 0.00035
17.10 0.99460 0.00027	13.00 0.98108 0.00031	11.00 0.99885 0.00036
17.30 0.99859 0.00027	13.10 0.98430 0.00031	11.10 1.00423 0.00035

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17.50 1.00190 0.00026	13.20 0.98677 0.00032	11.20 1.00843 0.00035
17.70 1.00541 0.00026	13.30 0.98943 0.00031	11.30 1.01187 0.00035
17.90 1.00861 0.00026	13.40 0.99305 0.00031	11.40 1.01626 0.00034
18.10 1.01185 0.00027	13.50 0.99593 0.00031	
18.20 1.01281 0.00026	13.60 0.99897 0.00031	
	13.70 1.00237 0.00031	
	13.80 1.00447 0.00031	
	13.90 1.00708 0.00030	
	14.00 1.00996 0.00030	
	14.10 1.01211 0.00031	
	14.20 1.01525 0.00030	

25	30	32
8.40 0.91985 0.00038	7.80 0.91955 0.00040	7.60 0.91800 0.00039
8.45 0.92328 0.00037	7.85 0.92264 0.00039	7.65 0.92112 0.00040
8.50 0.92619 0.00039	7.90 0.92699 0.00039	7.70 0.92542 0.00039
8.55 0.92910 0.00039	7.95 0.93088 0.00038	7.75 0.92938 0.00040
8.60 0.93221 0.00037	8.00 0.93322 0.00039	7.80 0.93261 0.00039
8.65 0.93554 0.00038	8.05 0.93780 0.00039	7.85 0.93616 0.00040
8.70 0.93958 0.00037	8.10 0.94101 0.00039	7.90 0.94008 0.00039
8.75 0.94262 0.00037	8.15 0.94464 0.00038	7.95 0.94434 0.00040
8.80 0.94472 0.00037	8.20 0.94794 0.00040	8.00 0.94752 0.00040
8.85 0.94788 0.00038	8.25 0.95021 0.00039	8.05 0.95046 0.00039
8.90 0.95132 0.00038	8.30 0.95448 0.00040	8.10 0.95397 0.00040
8.95 0.95473 0.00038	8.35 0.95778 0.00039	8.15 0.95753 0.00040
9.00 0.95777 0.00038	8.40 0.96086 0.00039	8.20 0.96189 0.00040
9.05 0.95966 0.00037	8.45 0.96457 0.00040	8.25 0.96408 0.00040
9.10 0.96341 0.00039	8.50 0.96777 0.00040	8.30 0.96825 0.00040
9.15 0.96656 0.00038	8.55 0.97134 0.00040	8.35 0.97168 0.00040
9.20 0.96903 0.00039	8.60 0.97451 0.00039	8.40 0.97483 0.00040
9.25 0.97240 0.00037	8.65 0.97793 0.00039	8.45 0.97858 0.00040
9.30 0.97470 0.00038	8.70 0.98030 0.00039	8.50 0.98173 0.00039
9.35 0.97708 0.00039	8.75 0.98363 0.00039	8.55 0.98487 0.00039
9.40 0.98004 0.00037	8.80 0.98741 0.00039	8.60 0.98793 0.00040
9.45 0.98302 0.00038	8.85 0.99026 0.00038	8.65 0.99094 0.00040
9.50 0.98567 0.00038	8.90 0.99339 0.00039	8.70 0.99451 0.00040
9.55 0.98846 0.00038	8.95 0.99622 0.00039	8.75 0.99760 0.00040
9.60 0.99180 0.00038	9.00 1.00001 0.00039	8.80 1.00088 0.00040
9.65 0.99456 0.00038	9.05 1.00256 0.00039	8.85 1.00375 0.00040
9.70 0.99653 0.00038	9.10 1.00560 0.00040	8.90 1.00737 0.00040
9.75 0.99965 0.00037	9.15 1.00748 0.00039	8.95 1.01102 0.00041
9.80 1.00194 0.00038	9.20 1.01176 0.00039	9.00 1.01372 0.00040
9.85 1.00455 0.00039	9.25 1.01400 0.00040	9.05 1.01686 0.00040
9.90 1.00749 0.00038	9.30 1.01736 0.00039	9.10 1.01953 0.00040
9.95 1.01047 0.00037		
10.00 1.01240 0.00038		
10.05 1.01466 0.00038		
10.10 1.01778 0.00038		

35	40	50
7.40 0.91936 0.00040	7.10 0.91870 0.00042	6.70 0.91773 0.00043
7.45 0.92331 0.00041	7.15 0.92319 0.00042	6.75 0.92181 0.00043
7.50 0.92726 0.00041	7.20 0.92698 0.00043	6.80 0.92586 0.00043
7.55 0.93134 0.00040	7.25 0.93142 0.00041	6.85 0.93106 0.00043
7.60 0.93550 0.00040	7.30 0.93526 0.00040	6.90 0.93508 0.00043
7.65 0.93891 0.00041	7.35 0.93987 0.00041	6.95 0.93898 0.00043
7.70 0.94287 0.00040	7.40 0.94380 0.00041	7.00 0.94277 0.00043
7.75 0.94708 0.00041	7.45 0.94695 0.00042	7.05 0.94730 0.00042
7.80 0.95058 0.00040	7.50 0.95080 0.00042	7.10 0.95191 0.00044
7.85 0.95394 0.00039	7.55 0.95465 0.00042	7.15 0.95565 0.00042
7.90 0.95753 0.00041	7.60 0.95909 0.00042	7.20 0.96040 0.00042
7.95 0.96130 0.00041	7.65 0.96294 0.00041	7.25 0.96396 0.00043
8.00 0.96509 0.00040	7.70 0.96644 0.00042	7.30 0.96796 0.00043
8.05 0.96840 0.00041	7.75 0.96948 0.00041	7.35 0.97206 0.00043
8.10 0.97120 0.00040	7.80 0.97359 0.00042	7.40 0.97746 0.00042
8.15 0.97506 0.00041	7.85 0.97719 0.00042	7.45 0.97990 0.00042
8.20 0.97860 0.00041	7.90 0.98111 0.00042	7.50 0.98416 0.00043
8.25 0.98162 0.00040	7.95 0.98508 0.00042	7.55 0.98711 0.00044
8.30 0.98561 0.00040	8.00 0.98892 0.00042	7.60 0.99236 0.00042
8.35 0.98798 0.00041	8.05 0.99215 0.00041	7.65 0.99547 0.00043
8.40 0.99262 0.00041	8.10 0.99580 0.00042	7.70 0.99998 0.00043
8.45 0.99570 0.00040	8.15 0.99960 0.00043	7.75 1.00406 0.00043
8.50 0.99908 0.00041	8.20 1.00264 0.00042	7.80 1.00700 0.00045
8.55 1.00259 0.00041	8.25 1.00566 0.00041	7.85 1.01079 0.00043
8.60 1.00529 0.00040	8.30 1.00985 0.00043	7.90 1.01506 0.00043
8.65 1.00896 0.00040	8.35 1.01255 0.00041	7.95 1.01778 0.00043
8.70 1.01205 0.00040	8.40 1.01669 0.00042	8.00 1.02222 0.00043
8.75 1.01487 0.00040	8.45 1.01930 0.00041	
8.80 1.01906 0.00041	8.50 1.02361 0.00043	
60	70	80
6.50 0.92151 0.00043	6.30 0.91831 0.00044	6.20 0.91824 0.00045
6.55 0.92585 0.00044	6.35 0.92254 0.00046	6.25 0.92330 0.00044
6.60 0.93033 0.00044	6.40 0.92670 0.00044	6.30 0.92775 0.00044
6.65 0.93582 0.00043	6.45 0.93101 0.00045	6.35 0.93197 0.00045
6.70 0.93976 0.00043	6.50 0.93578 0.00043	6.40 0.93838 0.00044
6.75 0.94340 0.00044	6.55 0.93989 0.00045	6.45 0.94214 0.00043
6.80 0.94848 0.00045	6.60 0.94522 0.00045	6.50 0.94631 0.00044
6.85 0.95266 0.00044	6.65 0.94956 0.00043	6.55 0.95204 0.00045
6.90 0.95759 0.00044	6.70 0.95352 0.00044	6.60 0.95648 0.00045
6.95 0.96127 0.00044	6.75 0.95899 0.00043	6.65 0.96015 0.00043
7.00 0.96490 0.00043	6.80 0.96178 0.00044	6.70 0.96395 0.00044
7.05 0.97014 0.00044	6.85 0.96719 0.00045	6.75 0.96879 0.00045
7.10 0.97320 0.00043	6.90 0.97063 0.00044	6.80 0.97342 0.00045
7.15 0.97716 0.00044	6.95 0.97544 0.00044	6.85 0.97740 0.00045
7.20 0.98167 0.00042	7.00 0.97985 0.00045	6.90 0.98231 0.00045

7.25 0.98614 0.00045	7.05 0.98356 0.00043	6.95 0.98634 0.00045
7.30 0.99064 0.00042	7.10 0.98790 0.00044	7.00 0.99080 0.00045
7.35 0.99372 0.00043	7.15 0.99158 0.00043	7.05 0.99441 0.00045
7.40 0.99775 0.00045	7.20 0.99657 0.00044	7.10 0.99872 0.00044
7.45 1.00211 0.00043	7.25 0.99976 0.00046	7.15 1.00277 0.00045
7.50 1.00647 0.00043	7.30 1.00415 0.00045	7.20 1.00656 0.00044
7.55 1.01028 0.00044	7.35 1.00823 0.00044	7.25 1.01013 0.00045
7.60 1.01430 0.00043	7.40 1.01182 0.00046	7.30 1.01527 0.00044
7.65 1.01786 0.00043	7.45 1.01641 0.00045	7.35 1.01808 0.00045
7.70 1.02134 0.00044	7.50 1.01983 0.00045	7.40 1.02217 0.00045

90	100	120
6.10 0.91675 0.00045	6.20 0.93165 0.00044	6.00 0.92000 0.00045
6.15 0.92199 0.00044	6.25 0.93726 0.00043	6.05 0.92435 0.00047
6.20 0.92655 0.00045	6.30 0.94200 0.00046	6.10 0.93012 0.00045
6.25 0.93116 0.00044	6.35 0.94684 0.00045	6.15 0.93474 0.00044
6.30 0.93577 0.00044	6.40 0.95113 0.00045	6.20 0.93893 0.00045
6.35 0.94087 0.00045	6.45 0.95520 0.00045	6.25 0.94393 0.00046
6.40 0.94510 0.00044	6.50 0.96066 0.00045	6.30 0.94901 0.00046
6.45 0.94990 0.00043	6.55 0.96484 0.00046	6.35 0.95232 0.00045
6.50 0.95485 0.00046	6.60 0.96929 0.00045	6.40 0.95708 0.00045
6.55 0.95863 0.00045	6.65 0.97338 0.00044	6.45 0.96265 0.00045
6.60 0.96274 0.00046	6.70 0.97726 0.00045	6.50 0.96631 0.00045
6.65 0.96715 0.00044	6.75 0.98162 0.00044	6.55 0.97202 0.00045
6.70 0.97232 0.00045	6.80 0.98657 0.00045	6.60 0.97563 0.00046
6.75 0.97632 0.00046	6.85 0.99053 0.00045	6.65 0.98040 0.00046
6.80 0.98136 0.00044	6.90 0.99499 0.00045	6.70 0.98376 0.00043
6.85 0.98483 0.00046	6.95 0.99965 0.00045	6.75 0.98844 0.00045
6.90 0.98919 0.00045	7.00 1.00265 0.00045	6.80 0.99276 0.00044
6.95 0.99309 0.00045	7.05 1.00697 0.00044	6.85 0.99624 0.00046
7.00 0.99746 0.00045	7.10 1.01218 0.00045	6.90 1.00123 0.00046
7.05 1.00124 0.00045		
7.10 1.00527 0.00045		
7.15 1.00942 0.00045		
7.20 1.01377 0.00045		
7.25 1.01792 0.00045		
7.30 1.02142 0.00045		

130	150	200
6.10 0.93346 0.00046	5.90 0.91768 0.00046	5.90 0.91932 0.00046
6.15 0.93754 0.00046	5.95 0.92117 0.00045	5.95 0.92373 0.00046
6.20 0.94283 0.00044	6.00 0.92662 0.00046	6.00 0.92870 0.00045
6.25 0.94746 0.00045	6.05 0.93121 0.00045	6.05 0.93294 0.00046
6.30 0.95213 0.00044	6.10 0.93579 0.00046	6.10 0.93755 0.00046
6.35 0.95601 0.00045	6.15 0.94084 0.00045	6.15 0.94208 0.00046
6.40 0.96086 0.00045	6.20 0.94476 0.00044	6.20 0.94645 0.00045
6.45 0.96552 0.00045	6.25 0.94863 0.00046	6.25 0.95116 0.00046

6.50 0.97002 0.00046	6.30 0.95405 0.00045	6.30 0.95505 0.00046
6.55 0.97388 0.00047	6.35 0.95952 0.00045	6.35 0.96021 0.00046
6.60 0.97844 0.00045	6.40 0.96205 0.00046	6.40 0.96416 0.00048
6.65 0.98326 0.00045	6.45 0.96778 0.00045	6.45 0.96770 0.00047
6.70 0.98697 0.00045	6.50 0.97180 0.00045	6.50 0.97322 0.00044
6.75 0.99138 0.00046	6.55 0.97653 0.00045	6.55 0.97648 0.00045
6.80 0.99604 0.00045	6.60 0.98151 0.00044	6.60 0.98058 0.00046
6.85 0.99925 0.00045	6.65 0.98468 0.00045	6.65 0.98500 0.00046
6.90 1.00451 0.00045	6.70 0.98882 0.00046	6.70 0.99041 0.00046
	6.75 0.99272 0.00047	6.75 0.99427 0.00046
	6.80 0.99822 0.00046	6.80 0.99826 0.00045
	6.85 1.00085 0.00046	6.85 1.00168 0.00046
	6.90 1.00497 0.00048	6.90 1.00579 0.00046
	6.95 1.01026 0.00045	6.95 1.00906 0.00046
	7.00 1.01313 0.00044	7.00 1.01316 0.00046
		7.05 1.01766 0.00045
		7.10 1.02131 0.00045

239	250	359
5.90 0.91828 0.00044	5.90 0.91787 0.00046	6.00 0.91941 0.00045
5.95 0.92310 0.00045	5.95 0.92221 0.00045	6.05 0.92344 0.00045
6.00 0.92752 0.00045	6.00 0.92708 0.00045	6.10 0.92771 0.00045
6.05 0.93236 0.00046	6.05 0.93160 0.00046	6.15 0.93275 0.00044
6.10 0.93584 0.00045	6.10 0.93585 0.00045	6.20 0.93628 0.00045
6.15 0.94015 0.00046	6.15 0.94053 0.00046	6.25 0.94112 0.00045
6.20 0.94543 0.00045	6.20 0.94440 0.00047	6.30 0.94551 0.00045
6.25 0.94979 0.00046	6.25 0.94938 0.00045	6.35 0.94955 0.00046
6.30 0.95406 0.00044	6.30 0.95326 0.00046	6.40 0.95289 0.00046
6.35 0.95810 0.00047	6.35 0.95803 0.00045	6.45 0.95713 0.00045
6.40 0.96264 0.00045	6.40 0.96214 0.00046	6.50 0.96222 0.00044
6.45 0.96630 0.00045	6.45 0.96647 0.00045	6.55 0.96609 0.00045
6.50 0.97158 0.00047	6.50 0.97047 0.00046	6.60 0.97006 0.00046
6.55 0.97495 0.00045	6.55 0.97412 0.00046	6.65 0.97384 0.00047
6.60 0.97955 0.00046	6.60 0.97870 0.00047	6.70 0.97721 0.00043
6.65 0.98337 0.00045	6.65 0.98185 0.00047	6.75 0.98224 0.00047
6.70 0.98748 0.00045	6.70 0.98673 0.00045	6.80 0.98569 0.00047
6.75 0.99215 0.00044	6.75 0.99074 0.00045	6.85 0.98892 0.00046
6.80 0.99514 0.00045	6.80 0.99462 0.00045	6.90 0.99322 0.00045
6.85 0.99920 0.00046	6.85 0.99838 0.00046	6.95 0.99690 0.00045
6.90 1.00325 0.00046	6.90 1.00294 0.00045	7.00 1.00167 0.00046
6.95 1.00702 0.00044	6.95 1.00688 0.00044	7.05 1.00496 0.00046
7.00 1.01097 0.00045	7.00 1.01115 0.00046	7.10 1.00885 0.00045
7.05 1.01587 0.00046	7.05 1.01479 0.00045	7.15 1.01207 0.00045
7.10 1.01941 0.00046	7.10 1.01825 0.00045	7.20 1.01579 0.00046

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478			500			600		
6.10	0.91828	0.00046	6.20	0.92320	0.00045	7.20	0.98394	0.00045
6.15	0.92130	0.00046	6.25	0.92732	0.00045	7.22	0.98602	0.00045
6.20	0.92518	0.00045	6.30	0.93241	0.00046	7.24	0.98681	0.00047
6.25	0.92964	0.00046	6.35	0.93546	0.00045	7.26	0.98889	0.00044
6.30	0.93355	0.00044	6.40	0.93964	0.00046	7.28	0.99056	0.00047
6.35	0.93788	0.00046	6.45	0.94414	0.00046	7.30	0.99092	0.00045
6.40	0.94140	0.00045	6.50	0.94792	0.00046	7.32	0.99240	0.00046
6.45	0.94592	0.00047	6.55	0.95175	0.00047	7.34	0.99445	0.00046
6.50	0.95078	0.00046	6.60	0.95483	0.00047	7.36	0.99476	0.00047
6.55	0.95432	0.00046	6.65	0.96068	0.00045	7.38	0.99527	0.00047
6.60	0.95761	0.00046	6.70	0.96402	0.00046	7.40	0.99762	0.00047
6.65	0.96184	0.00045	6.75	0.96779	0.00046	7.42	0.99917	0.00044
6.70	0.96621	0.00045	6.80	0.97127	0.00045	7.44	1.00021	0.00045
6.75	0.96964	0.00044	6.85	0.97408	0.00045	7.46	1.00240	0.00046
6.80	0.97355	0.00045	6.90	0.97763	0.00046	7.48	1.00379	0.00045
6.85	0.97726	0.00046	6.95	0.98215	0.00046	7.50	1.00438	0.00045
6.90	0.98226	0.00047	7.00	0.98600	0.00046			
6.95	0.98465	0.00045	7.05	0.99015	0.00045			
7.00	0.98856	0.00046	7.10	0.99391	0.00045			
7.05	0.99245	0.00045	7.15	0.99650	0.00046			
7.10	0.99648	0.00047	7.20	1.00078	0.00047			
7.15	0.99981	0.00045	7.25	1.00490	0.00047			
7.20	1.00316	0.00045	7.30	1.00774	0.00046			
7.25	1.00641	0.00046	7.35	1.01041	0.00045			
7.30	1.01009	0.00047	7.40	1.01473	0.00046			
			7.45	1.01811	0.00045			
			7.50	1.02137	0.00045			

650			700			750		
6.50	0.91951	0.00045	6.80	0.92460	0.00046	7.40	0.92242	0.00045
6.55	0.92406	0.00045	6.85	0.92746	0.00044	7.45	0.92535	0.00045
6.60	0.92820	0.00046	6.90	0.93139	0.00044	7.50	0.92996	0.00046
6.65	0.93111	0.00044	6.95	0.93608	0.00044	7.55	0.93309	0.00044
6.70	0.93600	0.00045	7.00	0.93883	0.00045	7.60	0.93610	0.00045
6.75	0.93867	0.00044	7.05	0.94171	0.00047	7.65	0.93848	0.00045
6.80	0.94298	0.00045	7.10	0.94637	0.00045	7.70	0.94190	0.00046
6.85	0.94692	0.00045	7.15	0.95016	0.00047	7.75	0.94538	0.00045
6.90	0.95143	0.00045	7.20	0.95278	0.00045	7.80	0.94892	0.00045
6.95	0.95390	0.00045	7.25	0.95664	0.00044	7.85	0.95170	0.00047
7.00	0.95802	0.00045	7.30	0.95957	0.00045	7.90	0.95465	0.00046
7.05	0.96110	0.00045	7.35	0.96297	0.00045	7.95	0.95793	0.00044
7.10	0.96495	0.00046	7.40	0.96663	0.00044	8.00	0.96123	0.00044
7.15	0.96769	0.00046	7.45	0.97004	0.00047	8.05	0.96454	0.00046
7.20	0.97224	0.00045	7.50	0.97355	0.00046	8.10	0.96800	0.00045
7.25	0.97566	0.00045	7.55	0.97715	0.00045	8.15	0.97049	0.00046
7.30	0.97859	0.00046	7.60	0.98062	0.00046	8.20	0.97439	0.00045
7.35	0.98196	0.00046	7.65	0.98328	0.00046	8.25	0.97607	0.00045
7.40	0.98602	0.00046	7.70	0.98704	0.00047	8.30	0.98019	0.00045

7.45 0.98973 0.00047	7.75 0.99003 0.00046	8.35 0.98294 0.00046
7.50 0.99251 0.00046	7.80 0.99393 0.00045	8.40 0.98671 0.00046
7.55 0.99598 0.00045	7.85 0.99680 0.00045	8.45 0.98896 0.00047
7.60 0.99912 0.00047	7.90 1.00050 0.00046	8.50 0.99195 0.00044
7.65 1.00318 0.00044	7.95 1.00283 0.00045	8.55 0.99526 0.00045
7.70 1.00649 0.00045	8.00 1.00590 0.00046	8.60 0.99758 0.00046
	8.05 1.00990 0.00045	8.65 1.00111 0.00046
	8.10 1.01256 0.00046	8.75 1.00711 0.00044
	8.15 1.01530 0.00048	8.80 1.00887 0.00047
	8.20 1.01826 0.00046	8.85 1.01236 0.00045
		8.90 1.01523 0.00046
		8.95 1.01812 0.00046
		9.00 1.02062 0.00046

752	754	755
7.50 0.92300 0.00045	7.60 0.92299 0.00046	7.70 0.92273 0.00044
7.55 0.92700 0.00044	7.65 0.92577 0.00045	7.80 0.92916 0.00043
7.65 0.93453 0.00045	7.70 0.92988 0.00045	7.90 0.93628 0.00045
7.70 0.93709 0.00045	7.75 0.93301 0.00045	8.00 0.94124 0.00045
7.75 0.93978 0.00046	7.80 0.93617 0.00046	8.10 0.94856 0.00046
7.80 0.94338 0.00044	7.85 0.93965 0.00046	8.20 0.95443 0.00045
7.85 0.94608 0.00046	7.90 0.94206 0.00044	8.30 0.95980 0.00045
7.90 0.95056 0.00045	7.95 0.94542 0.00046	8.40 0.96678 0.00044
7.95 0.95209 0.00044	8.00 0.94810 0.00045	8.50 0.97189 0.00047
8.00 0.95621 0.00045	8.05 0.95199 0.00045	8.60 0.97728 0.00044
8.05 0.95917 0.00046	8.10 0.95418 0.00044	8.70 0.98399 0.00046
8.10 0.96264 0.00046	8.15 0.95742 0.00045	8.80 0.98863 0.00044
8.15 0.96530 0.00045	8.20 0.96068 0.00045	8.90 0.99541 0.00045
8.20 0.96839 0.00045	8.25 0.96341 0.00045	9.00 1.00071 0.00046
8.25 0.97125 0.00045	8.30 0.96644 0.00046	9.10 1.00576 0.00047
8.30 0.97495 0.00045	8.35 0.96999 0.00046	9.20 1.01184 0.00045
8.35 0.97792 0.00046	8.40 0.97258 0.00046	9.30 1.01661 0.00046
8.40 0.98151 0.00044	8.45 0.97641 0.00045	9.40 1.02192 0.00045
8.45 0.98388 0.00046	8.55 0.98174 0.00045	9.50 1.02695 0.00046
8.50 0.98607 0.00046	8.60 0.98439 0.00045	9.60 1.03270 0.00046
8.55 0.98852 0.00046	8.65 0.98765 0.00045	9.70 1.03812 0.00045
8.60 0.99136 0.00045	8.70 0.99015 0.00044	9.80 1.04385 0.00044
8.65 0.99504 0.00045	8.75 0.99319 0.00045	9.90 1.04820 0.00046
8.70 0.99882 0.00044	8.80 0.99555 0.00045	
8.75 1.00086 0.00046	8.85 0.99895 0.00046	
8.80 1.00429 0.00045	8.90 1.00114 0.00044	
8.85 1.00684 0.00045	8.95 1.00430 0.00045	
8.90 1.00921 0.00044	9.00 1.00806 0.00046	
8.95 1.01209 0.00045	9.05 1.00960 0.00046	
9.00 1.01470 0.00045	9.10 1.01252 0.00045	
	9.15 1.01574 0.00045	
	9.20 1.01799 0.00045	

12.60 0.96822 0.00042	11.90 0.97098 0.00043	11.25 0.94524 0.00044
12.70 0.97346 0.00040	12.00 0.97789 0.00043	11.30 0.94811 0.00043
12.80 0.97823 0.00041	12.10 0.98310 0.00043	11.35 0.95139 0.00044
12.90 0.98282 0.00040	12.20 0.98965 0.00042	11.40 0.95477 0.00044
13.00 0.98841 0.00042	12.40 0.99995 0.00042	11.45 0.95751 0.00044
13.10 0.99318 0.00041	12.50 1.00472 0.00043	11.50 0.96147 0.00044
13.20 0.99776 0.00040	12.60 1.01053 0.00043	11.55 0.96428 0.00045
13.30 1.00268 0.00042	12.70 1.01540 0.00042	11.60 0.96674 0.00045
13.40 1.00733 0.00040	12.80 1.02018 0.00043	11.65 0.97029 0.00044
13.50 1.01153 0.00042		11.70 0.97269 0.00044
13.60 1.01591 0.00040		11.75 0.97598 0.00044
13.70 1.02047 0.00041		11.80 0.97918 0.00044
		11.85 0.98260 0.00044
		11.90 0.98448 0.00044
		11.95 0.98866 0.00043
		12.00 0.99065 0.00044
		12.05 0.99443 0.00043
		12.10 0.99609 0.00044
		12.15 0.99950 0.00044
		12.20 1.00184 0.00044
		12.25 1.00404 0.00044
		12.30 1.00734 0.00044
		12.35 1.01045 0.00043
		12.40 1.01281 0.00043
		12.45 1.01511 0.00043
		12.50 1.01876 0.00043

35	40	50
10.60 0.91729 0.00045	10.30 0.91764 0.00046	10.00 0.92462 0.00048
10.65 0.92137 0.00046	10.35 0.92164 0.00046	10.05 0.92879 0.00047
10.70 0.92511 0.00045	10.40 0.92558 0.00046	10.10 0.93181 0.00047
10.75 0.92770 0.00046	10.45 0.92850 0.00046	10.15 0.93558 0.00047
10.80 0.93104 0.00047	10.50 0.93245 0.00045	10.20 0.93993 0.00047
10.85 0.93528 0.00044	10.55 0.93540 0.00045	10.25 0.94467 0.00049
10.90 0.93860 0.00045	10.60 0.94009 0.00046	10.30 0.94843 0.00048
10.95 0.94165 0.00045	10.65 0.94392 0.00046	10.35 0.95146 0.00047
11.00 0.94551 0.00045	10.70 0.94723 0.00046	10.40 0.95431 0.00047
11.05 0.94840 0.00045	10.75 0.95084 0.00047	10.45 0.95887 0.00048
11.10 0.95233 0.00045	10.80 0.95488 0.00046	10.50 0.96128 0.00047
11.15 0.95521 0.00045	10.85 0.95600 0.00046	10.55 0.96568 0.00048
11.20 0.95891 0.00045	10.90 0.96144 0.00046	10.60 0.97066 0.00049
11.25 0.96146 0.00044	10.95 0.96379 0.00045	10.65 0.97365 0.00048
11.30 0.96453 0.00044	11.00 0.96744 0.00047	10.70 0.97703 0.00047
11.35 0.96851 0.00045	11.05 0.97054 0.00046	10.75 0.98031 0.00046
11.40 0.96999 0.00044	11.10 0.97416 0.00046	10.80 0.98427 0.00046
11.45 0.97444 0.00044	11.15 0.97796 0.00045	10.85 0.98751 0.00048
11.50 0.97723 0.00045	11.20 0.98137 0.00046	10.90 0.99151 0.00047
11.55 0.98059 0.00045	11.25 0.98490 0.00046	10.95 0.99439 0.00048
11.60 0.98402 0.00045	11.30 0.98713 0.00046	11.00 0.99817 0.00046

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11.65 0.98651 0.00045	11.35 0.99105 0.00047	11.05 1.00141 0.00048
11.70 0.98981 0.00043	11.40 0.99386 0.00045	11.10 1.00533 0.00046
11.75 0.99307 0.00045	11.45 0.99627 0.00045	11.15 1.00847 0.00047
11.80 0.99699 0.00046	11.50 0.99985 0.00048	11.20 1.01261 0.00049
11.85 0.99898 0.00044	11.55 1.00306 0.00047	11.25 1.01532 0.00048
11.90 1.00234 0.00044	11.60 1.00711 0.00045	11.30 1.01762 0.00047
11.95 1.00547 0.00045	11.65 1.00890 0.00045	
12.00 1.00826 0.00044	11.70 1.01230 0.00046	
12.05 1.01002 0.00045	11.75 1.01548 0.00046	
12.10 1.01417 0.00043	11.80 1.01880 0.00046	
12.15 1.01661 0.00046		
12.20 1.01994 0.00045		

60	70	80
9.70 0.91750 0.00048	9.50 0.91350 0.00050	9.50 0.92102 0.00050
9.75 0.92273 0.00048	9.55 0.91798 0.00048	9.55 0.92511 0.00049
9.80 0.92671 0.00046	9.60 0.92257 0.00049	9.60 0.92940 0.00049
9.85 0.93083 0.00049	9.65 0.92608 0.00050	9.65 0.93402 0.00050
9.90 0.93445 0.00049	9.70 0.93035 0.00049	9.70 0.93833 0.00049
9.95 0.93914 0.00049	9.75 0.93469 0.00049	9.75 0.94166 0.00051
10.00 0.94279 0.00049	9.80 0.93869 0.00049	9.80 0.94617 0.00050
10.05 0.94718 0.00048	9.85 0.94306 0.00050	9.85 0.95128 0.00050
10.10 0.95032 0.00047	9.90 0.94774 0.00048	9.90 0.95385 0.00050
10.15 0.95368 0.00049	9.95 0.95133 0.00049	9.95 0.95966 0.00050
10.20 0.95900 0.00049	10.00 0.95473 0.00051	10.00 0.96288 0.00049
10.25 0.96286 0.00049	10.10 0.96363 0.00049	10.05 0.96537 0.00051
10.30 0.96592 0.00048	10.15 0.96767 0.00049	10.10 0.97100 0.00050
10.35 0.96888 0.00049	10.20 0.97129 0.00050	10.15 0.97527 0.00049
10.40 0.97386 0.00048	10.25 0.97457 0.00049	10.20 0.97913 0.00050
10.45 0.97766 0.00048	10.30 0.97805 0.00051	10.25 0.98210 0.00050
10.55 0.98531 0.00049	10.35 0.98212 0.00050	10.30 0.98591 0.00050
10.60 0.98708 0.00048	10.40 0.98637 0.00048	10.35 0.99018 0.00051
10.65 0.99220 0.00050	10.45 0.99009 0.00050	10.40 0.99328 0.00050
10.70 0.99643 0.00049	10.50 0.99361 0.00048	10.45 0.99773 0.00050
10.75 1.00039 0.00048	10.55 0.99787 0.00049	10.50 1.00020 0.00050
10.80 1.00262 0.00049	10.60 1.00030 0.00048	10.55 1.00366 0.00050
10.85 1.00647 0.00049	10.65 1.00499 0.00050	10.60 1.00819 0.00048
10.95 1.01325 0.00049	10.70 1.00875 0.00050	10.65 1.01131 0.00049
11.00 1.01678 0.00049	10.75 1.01127 0.00050	10.70 1.01641 0.00051
11.05 1.02021 0.00049	10.80 1.01506 0.00048	10.75 1.01954 0.00049
11.10 1.02468 0.00048	10.85 1.01798 0.00049	10.80 1.02241 0.00049
	10.90 1.02187 0.00049	

90	100	120
9.40 0.91609 0.00049	9.40 0.92028 0.00051	9.40 0.92160 0.00050
9.45 0.92068 0.00050	9.45 0.92378 0.00051	9.45 0.92460 0.00050
9.50 0.92576 0.00050	9.50 0.92780 0.00050	9.50 0.92936 0.00051

9.55 0.93002 0.00049	9.55 0.93365 0.00052	9.55 0.93354 0.00051
9.60 0.93399 0.00050	9.60 0.93634 0.00050	9.60 0.93847 0.00051
9.65 0.93785 0.00051	9.65 0.94134 0.00049	9.65 0.94218 0.00049
9.70 0.94284 0.00050	9.70 0.94536 0.00050	9.70 0.94711 0.00050
9.75 0.94617 0.00050	9.75 0.95006 0.00050	9.75 0.94999 0.00049
9.80 0.95037 0.00051	9.80 0.95347 0.00051	9.80 0.95440 0.00051
9.85 0.95516 0.00050	9.85 0.95863 0.00051	9.85 0.95874 0.00051
9.90 0.95895 0.00050	9.90 0.96137 0.00049	9.90 0.96329 0.00051
9.95 0.96345 0.00050	9.95 0.96547 0.00050	9.95 0.96723 0.00051
10.00 0.96667 0.00049	10.00 0.97097 0.00052	10.00 0.97120 0.00052
10.05 0.97183 0.00051	10.05 0.97390 0.00052	10.05 0.97477 0.00050
10.10 0.97464 0.00052	10.10 0.97831 0.00050	10.10 0.97825 0.00051
10.15 0.97854 0.00050	10.15 0.98130 0.00050	10.15 0.98310 0.00050
10.20 0.98242 0.00050	10.20 0.98639 0.00051	10.20 0.98522 0.00052
10.25 0.98663 0.00049	10.25 0.98962 0.00050	10.25 0.99030 0.00051
10.30 0.99005 0.00051	10.30 0.99363 0.00050	10.30 0.99396 0.00052
10.35 0.99423 0.00050	10.35 0.99660 0.00049	10.40 1.00176 0.00052
10.40 0.99826 0.00049	10.40 1.00090 0.00051	10.45 1.00642 0.00052
10.45 1.00169 0.00049	10.45 1.00459 0.00051	10.50 1.00980 0.00050
10.50 1.00544 0.00050	10.50 1.00838 0.00051	10.55 1.01275 0.00049
10.55 1.00909 0.00051	10.55 1.01197 0.00052	10.60 1.01675 0.00050
10.60 1.01272 0.00050	10.60 1.01610 0.00051	10.65 1.02091 0.00050
10.65 1.01662 0.00052	10.65 1.01956 0.00050	10.70 1.02460 0.00050
10.70 1.02031 0.00051	10.70 1.02299 0.00049	

130	150	200
9.40 0.92184 0.00051	9.45 0.92450 0.00051	9.50 0.92038 0.00051
9.45 0.92712 0.00050	9.50 0.92901 0.00052	9.55 0.92459 0.00051
9.50 0.93030 0.00049	9.55 0.93328 0.00051	9.60 0.92877 0.00051
9.55 0.93443 0.00050	9.60 0.93688 0.00050	9.65 0.93327 0.00050
9.60 0.93904 0.00051	9.70 0.94558 0.00049	9.70 0.93759 0.00052
9.65 0.94286 0.00050	9.75 0.94982 0.00049	9.75 0.94165 0.00051
9.70 0.94666 0.00049	9.80 0.95352 0.00050	9.80 0.94477 0.00051
9.75 0.95292 0.00050	9.85 0.95818 0.00049	9.85 0.94938 0.00048
9.80 0.95541 0.00052	9.90 0.96073 0.00051	9.90 0.95303 0.00052
9.85 0.95920 0.00050	9.95 0.96536 0.00051	9.95 0.95688 0.00050
9.90 0.96344 0.00051	10.00 0.96958 0.00050	10.00 0.96134 0.00050
9.95 0.96790 0.00050	10.05 0.97368 0.00049	10.05 0.96519 0.00051
10.00 0.97222 0.00052	10.10 0.97764 0.00052	10.10 0.96976 0.00050
10.05 0.97537 0.00051	10.15 0.98154 0.00052	10.15 0.97281 0.00052
10.10 0.97962 0.00051	10.20 0.98523 0.00051	10.20 0.97633 0.00050
10.15 0.98318 0.00050	10.25 0.98925 0.00051	10.25 0.97957 0.00052
10.20 0.98726 0.00051	10.30 0.99250 0.00051	10.30 0.98435 0.00051
10.25 0.99127 0.00050	10.35 0.99634 0.00051	10.35 0.98776 0.00051
10.30 0.99469 0.00052	10.40 1.00057 0.00052	10.40 0.99150 0.00051
10.35 0.99836 0.00051	10.45 1.00338 0.00051	10.45 0.99602 0.00050
10.40 1.00272 0.00051	10.50 1.00690 0.00051	10.50 0.99881 0.00050
10.45 1.00593 0.00051	10.55 1.01087 0.00052	10.55 1.00193 0.00051
10.50 1.01061 0.00051	10.60 1.01682 0.00051	10.60 1.00616 0.00050

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10.55 1.01468 0.00051	10.65 1.01883 0.00051	10.65 1.01070 0.00051
10.60 1.01723 0.00051	10.70 1.02182 0.00051	10.70 1.01316 0.00052
10.65 1.02071 0.00053		10.75 1.01716 0.00051
10.70 1.02472 0.00051		

239	250	359
9.60 0.92004 0.00052	9.60 0.91731 0.00051	9.90 0.91741 0.00050
9.65 0.92540 0.00051	9.65 0.92238 0.00051	9.95 0.92099 0.00051
9.70 0.92766 0.00050	9.70 0.92524 0.00050	10.00 0.92470 0.00049
9.75 0.93267 0.00051	9.75 0.92952 0.00051	10.05 0.92872 0.00050
9.80 0.93587 0.00050	9.80 0.93428 0.00051	10.10 0.93318 0.00052
9.85 0.93969 0.00052	9.85 0.93705 0.00051	10.15 0.93632 0.00050
9.90 0.94370 0.00051	9.90 0.94210 0.00050	10.20 0.93975 0.00049
9.95 0.94770 0.00053	9.95 0.94470 0.00053	10.25 0.94314 0.00048
10.00 0.95157 0.00050	10.00 0.94962 0.00052	10.30 0.94719 0.00050
10.05 0.95615 0.00051	10.05 0.95384 0.00051	10.35 0.95076 0.00050
10.10 0.95963 0.00051	10.10 0.95722 0.00053	10.40 0.95509 0.00052
10.15 0.96370 0.00049	10.15 0.96135 0.00051	10.45 0.95912 0.00051
10.20 0.96723 0.00052	10.20 0.96590 0.00051	10.50 0.96321 0.00050
10.25 0.97127 0.00051	10.25 0.96886 0.00050	10.55 0.96573 0.00050
10.30 0.97541 0.00050	10.30 0.97239 0.00050	10.60 0.96978 0.00051
10.35 0.97877 0.00052	10.35 0.97583 0.00052	10.65 0.97238 0.00050
10.40 0.98226 0.00051	10.40 0.97930 0.00051	10.70 0.97644 0.00050
10.45 0.98480 0.00051	10.45 0.98286 0.00050	10.75 0.97992 0.00050
10.50 0.98969 0.00051	10.50 0.98673 0.00051	10.80 0.98385 0.00050
10.55 0.99308 0.00051	10.55 0.99122 0.00051	10.85 0.98776 0.00050
10.60 0.99698 0.00050	10.60 0.99471 0.00051	10.90 0.99031 0.00051
10.65 1.00066 0.00052	10.65 0.99811 0.00051	10.95 0.99375 0.00050
10.70 1.00489 0.00051	10.70 1.00124 0.00051	11.00 0.99619 0.00050
10.75 1.00829 0.00051	10.75 1.00507 0.00052	11.05 1.00097 0.00051
10.80 1.01102 0.00051	10.80 1.00849 0.00049	11.10 1.00404 0.00050
10.85 1.01391 0.00049	10.85 1.01254 0.00051	11.15 1.00692 0.00050
10.90 1.01910 0.00051	10.90 1.01493 0.00051	11.20 1.01011 0.00049
10.95 1.02149 0.00050	10.95 1.01842 0.00051	11.25 1.01366 0.00049
11.00 1.02437 0.00050	11.00 1.02217 0.00050	11.30 1.01703 0.00050
		11.35 1.01993 0.00050
		11.40 1.02305 0.00049

478	500	600
10.30 0.91817 0.00049	10.40 0.91847 0.00050	11.00 0.91980 0.00049
10.35 0.92223 0.00050	10.45 0.92179 0.00048	11.05 0.92398 0.00049
10.40 0.92606 0.00049	10.50 0.92525 0.00050	11.10 0.92674 0.00049
10.45 0.92933 0.00049	10.55 0.92893 0.00050	11.15 0.92869 0.00049
10.50 0.93277 0.00049	10.60 0.93213 0.00050	11.20 0.93298 0.00047
10.55 0.93670 0.00049	10.65 0.93716 0.00050	11.25 0.93655 0.00048
10.60 0.94003 0.00048	10.70 0.94007 0.00051	11.30 0.93964 0.00050
10.65 0.94385 0.00048	10.75 0.94324 0.00049	11.35 0.94402 0.00049

10.70 0.94640 0.00049	10.80 0.94647 0.00052	11.40 0.94663 0.00048
10.75 0.95042 0.00050	10.85 0.95099 0.00051	11.45 0.95014 0.00048
10.80 0.95351 0.00051	10.90 0.95416 0.00050	11.50 0.95347 0.00050
10.85 0.95783 0.00050	10.95 0.95655 0.00050	11.55 0.95660 0.00050
10.90 0.96044 0.00048	11.00 0.96043 0.00050	11.60 0.95871 0.00049
10.95 0.96484 0.00048	11.10 0.96735 0.00050	11.65 0.96282 0.00051
11.00 0.96740 0.00051	11.15 0.97063 0.00050	11.70 0.96523 0.00049
11.05 0.97109 0.00049	11.20 0.97413 0.00049	11.75 0.96910 0.00049
11.10 0.97418 0.00049	11.25 0.97714 0.00050	11.80 0.97319 0.00049
11.15 0.97850 0.00048	11.30 0.98084 0.00049	11.85 0.97585 0.00049
11.20 0.98144 0.00050	11.35 0.98422 0.00048	11.90 0.98004 0.00050
11.25 0.98471 0.00049	11.40 0.98661 0.00048	11.95 0.98132 0.00049
11.30 0.98776 0.00051	11.45 0.99032 0.00051	12.00 0.98477 0.00049
11.35 0.99081 0.00049	11.50 0.99386 0.00050	12.05 0.98846 0.00051
11.40 0.99494 0.00048	11.55 0.99652 0.00049	12.10 0.99074 0.00050
11.45 0.99780 0.00051	11.60 0.99895 0.00050	12.20 0.99779 0.00049
11.50 1.00074 0.00049	11.65 1.00270 0.00051	12.25 1.00047 0.00048
11.60 1.00734 0.00049	11.70 1.00615 0.00050	12.30 1.00315 0.00050
11.65 1.01107 0.00049	11.75 1.00951 0.00049	12.35 1.00614 0.00050
11.70 1.01347 0.00050	11.80 1.01259 0.00049	12.40 1.01011 0.00051
11.75 1.01639 0.00050	11.85 1.01499 0.00049	12.45 1.01188 0.00051
11.80 1.02017 0.00050	11.90 1.01820 0.00049	12.50 1.01436 0.00047
	11.95 1.02127 0.00050	12.55 1.01709 0.00049
	12.00 1.02442 0.00050	12.60 1.01948 0.00049

650	660	670
11.65 0.92543 0.00048	11.70 0.91721 0.00048	12.00 0.92311 0.00048
11.70 0.92793 0.00049	11.75 0.92030 0.00049	12.05 0.92711 0.00046
11.75 0.93222 0.00048	11.80 0.92388 0.00049	12.10 0.93059 0.00048
11.80 0.93472 0.00048	11.85 0.92696 0.00049	12.15 0.93383 0.00049
11.85 0.93786 0.00049	11.90 0.93100 0.00050	12.25 0.93981 0.00049
11.90 0.94139 0.00049	11.95 0.93325 0.00048	12.30 0.94350 0.00050
11.95 0.94422 0.00050	12.00 0.93700 0.00049	12.35 0.94617 0.00049
12.00 0.94723 0.00048	12.05 0.93979 0.00048	12.40 0.94954 0.00047
12.05 0.95086 0.00050	12.10 0.94271 0.00048	12.45 0.95122 0.00047
12.10 0.95413 0.00049	12.15 0.94600 0.00049	12.50 0.95526 0.00050
12.15 0.95682 0.00047	12.20 0.94885 0.00048	12.55 0.95910 0.00048
12.20 0.95968 0.00050	12.25 0.95275 0.00050	12.60 0.96056 0.00048
12.25 0.96323 0.00050	12.30 0.95557 0.00048	12.65 0.96363 0.00047
12.30 0.96633 0.00050	12.35 0.95927 0.00048	12.70 0.96659 0.00049
12.55 0.98080 0.00047	12.40 0.96201 0.00050	12.75 0.97115 0.00048
12.60 0.98422 0.00049	12.45 0.96419 0.00048	12.85 0.97541 0.00049
12.65 0.98735 0.00048	12.50 0.96725 0.00049	12.90 0.97899 0.00048
12.70 0.98969 0.00049	12.55 0.97057 0.00047	12.95 0.98132 0.00048
12.75 0.99288 0.00049	12.60 0.97424 0.00049	13.05 0.98751 0.00048
12.80 0.99521 0.00051	12.65 0.97729 0.00047	13.15 0.99243 0.00048
12.85 0.99896 0.00048	12.70 0.97935 0.00046	13.20 0.99611 0.00048
12.90 1.00156 0.00051	12.75 0.98189 0.00048	13.25 0.99898 0.00049
12.95 1.00420 0.00048	12.80 0.98560 0.00048	13.30 1.00110 0.00049

13.00 1.00727 0.00049	12.85 0.98858 0.00050	13.35 1.00478 0.00048
13.05 1.01006 0.00048	12.90 0.99190 0.00049	13.40 1.00709 0.00048
13.10 1.01337 0.00049	13.00 0.99583 0.00048	13.45 1.00965 0.00048
13.15 1.01505 0.00049	13.05 1.00003 0.00050	13.50 1.01210 0.00048
13.20 1.01705 0.00049	13.10 1.00341 0.00049	13.55 1.01486 0.00048
	13.15 1.00572 0.00048	13.60 1.01777 0.00049
	13.20 1.00837 0.00049	
	13.25 1.01042 0.00048	
	13.30 1.01419 0.00049	
	13.35 1.01567 0.00048	
	13.40 1.02000 0.00050	

680	690	698
12.20 0.91971 0.00049	12.60 0.91977 0.00049	13.40 0.92173 0.00048
12.30 0.92583 0.00049	12.70 0.92559 0.00049	13.50 0.92760 0.00048
12.40 0.93167 0.00049	12.80 0.93153 0.00048	13.60 0.93304 0.00047
12.50 0.93750 0.00048	13.00 0.94293 0.00049	13.70 0.93869 0.00047
12.60 0.94511 0.00048	13.10 0.94885 0.00048	13.80 0.94456 0.00047
12.80 0.95635 0.00049	13.20 0.95524 0.00048	13.90 0.95027 0.00048
12.90 0.96144 0.00048	13.30 0.96070 0.00049	14.00 0.95546 0.00049
13.00 0.96771 0.00048	13.40 0.96630 0.00048	14.10 0.96092 0.00048
13.10 0.97392 0.00048	13.50 0.97213 0.00047	14.20 0.96604 0.00048
13.20 0.97988 0.00050	13.60 0.97668 0.00049	14.30 0.97158 0.00047
13.30 0.98536 0.00047	13.70 0.98249 0.00049	14.40 0.97686 0.00050
13.40 0.98991 0.00046	13.80 0.98924 0.00048	14.50 0.98278 0.00048
13.50 0.99682 0.00049	13.90 0.99484 0.00049	14.60 0.98696 0.00049
13.60 1.00030 0.00049	14.00 0.99863 0.00049	14.70 0.99270 0.00048
13.70 1.00696 0.00047	14.10 1.00513 0.00047	14.80 0.99711 0.00048
13.80 1.01197 0.00048	14.20 1.01010 0.00049	14.90 1.00261 0.00048
13.90 1.01808 0.00050	14.30 1.01445 0.00048	15.00 1.00652 0.00049
14.00 1.02275 0.00047	14.40 1.01960 0.00048	15.10 1.01192 0.00049
		15.20 1.01733 0.00048
		15.30 1.02179 0.00049

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12	15	20
16.90 0.92650 0.00028	13.60 0.92279 0.00034	11.30 0.92176 0.00037
17.10 0.93036 0.00029	13.70 0.92558 0.00032	11.40 0.92565 0.00038
17.30 0.93404 0.00029	13.80 0.92926 0.00032	11.50 0.93054 0.00037
17.50 0.93831 0.00029	13.90 0.93189 0.00032	11.60 0.93531 0.00039
17.90 0.94610 0.00028	14.00 0.93469 0.00032	11.70 0.93970 0.00037
18.10 0.94910 0.00028	14.10 0.93853 0.00033	11.80 0.94388 0.00037
18.30 0.95314 0.00029	14.20 0.94173 0.00032	11.90 0.94851 0.00037
18.50 0.95638 0.00027	14.30 0.94485 0.00032	12.00 0.95296 0.00036
18.70 0.95996 0.00028	14.40 0.94766 0.00033	12.10 0.95670 0.00037
18.90 0.96343 0.00027	14.50 0.95030 0.00032	12.20 0.96205 0.00036
19.10 0.96587 0.00027	14.60 0.95322 0.00032	12.30 0.96562 0.00036
19.30 0.96984 0.00027	14.70 0.95598 0.00032	12.40 0.96988 0.00037

19.50 0.97261 0.00028	14.80 0.95908 0.00031	12.50 0.97410 0.00037
19.70 0.97580 0.00027	14.90 0.96126 0.00032	12.60 0.97727 0.00037
19.90 0.97827 0.00026	15.00 0.96446 0.00031	12.70 0.98257 0.00036
20.10 0.98138 0.00027	15.10 0.96681 0.00032	12.80 0.98562 0.00037
20.30 0.98396 0.00027	15.20 0.96955 0.00032	12.90 0.98949 0.00037
20.50 0.98710 0.00027	15.30 0.97197 0.00031	13.00 0.99369 0.00036
20.70 0.98951 0.00027	15.40 0.97536 0.00032	13.10 0.99740 0.00036
20.90 0.99296 0.00027	15.50 0.97776 0.00031	13.20 1.00086 0.00036
21.10 0.99505 0.00027	15.60 0.98026 0.00032	13.30 1.00422 0.00036
21.30 0.99796 0.00026	15.70 0.98313 0.00031	13.40 1.00813 0.00036
21.50 1.00039 0.00026	15.80 0.98491 0.00033	13.50 1.01226 0.00036
21.70 1.00310 0.00027	15.90 0.98816 0.00031	13.60 1.01553 0.00036
21.90 1.00530 0.00026	16.00 0.99026 0.00032	13.70 1.01914 0.00036
22.10 1.00746 0.00026	16.10 0.99282 0.00031	
22.30 1.01026 0.00025	16.20 0.99516 0.00032	
22.50 1.01267 0.00026	16.30 0.99793 0.00031	
	16.40 0.99965 0.00031	
	16.50 1.00211 0.00032	
	16.60 1.00465 0.00031	
	16.70 1.00704 0.00032	
	16.80 1.00916 0.00031	
	16.90 1.01142 0.00031	
	17.00 1.01361 0.00030	
	17.10 1.01535 0.00031	

25	30	32
10.20 0.92155 0.00040	9.50 0.91893 0.00042	9.30 0.91818 0.00042
10.30 0.92728 0.00040	9.55 0.92317 0.00042	9.35 0.92219 0.00043
10.40 0.93373 0.00041	9.60 0.92569 0.00041	9.40 0.92539 0.00043
10.50 0.93863 0.00039	9.65 0.92863 0.00042	9.45 0.92914 0.00042
10.60 0.94419 0.00039	9.70 0.93178 0.00041	9.50 0.93237 0.00042
10.70 0.95022 0.00040	9.75 0.93538 0.00042	9.55 0.93529 0.00043
10.80 0.95489 0.00040	9.80 0.93832 0.00042	9.60 0.93917 0.00043
10.90 0.96025 0.00040	9.85 0.94164 0.00043	9.65 0.94176 0.00043
11.00 0.96501 0.00040	9.90 0.94443 0.00041	9.70 0.94511 0.00041
11.10 0.97037 0.00039	9.95 0.94766 0.00042	9.75 0.94834 0.00042
11.20 0.97595 0.00040	10.00 0.95048 0.00042	9.80 0.95109 0.00043
11.30 0.98060 0.00039	10.05 0.95380 0.00042	9.85 0.95394 0.00042
11.40 0.98531 0.00039	10.10 0.95721 0.00041	9.90 0.95712 0.00042
11.50 0.99101 0.00041	10.15 0.96041 0.00042	9.95 0.96129 0.00043
11.60 0.99528 0.00040	10.20 0.96265 0.00041	10.00 0.96384 0.00042
11.70 1.00072 0.00040	10.25 0.96535 0.00042	10.05 0.96653 0.00042
11.80 1.00414 0.00040	10.30 0.96840 0.00042	10.10 0.97000 0.00043
11.90 1.00939 0.00039	10.35 0.97118 0.00041	10.15 0.97322 0.00043
12.00 1.01351 0.00040	10.50 0.97986 0.00042	10.20 0.97501 0.00041
12.10 1.01792 0.00039	10.55 0.98339 0.00042	10.25 0.97900 0.00043
	10.60 0.98513 0.00042	10.30 0.98274 0.00043
	10.65 0.98806 0.00041	10.35 0.98457 0.00044
	10.70 0.99046 0.00042	10.40 0.98683 0.00042

10.75	0.99498	0.00043	10.45	0.99007	0.00042
10.80	0.99682	0.00042	10.50	0.99277	0.00043
10.85	0.99893	0.00041	10.55	0.99669	0.00042
10.90	1.00223	0.00041	10.60	0.99912	0.00042
10.95	1.00434	0.00041	10.65	1.00187	0.00043
11.00	1.00684	0.00042	10.70	1.00528	0.00042
11.05	1.01041	0.00042	10.75	1.00786	0.00042
11.10	1.01286	0.00042	10.80	1.01086	0.00042
11.15	1.01497	0.00041	10.85	1.01328	0.00043
11.20	1.01867	0.00042	10.90	1.01523	0.00042
			10.95	1.01870	0.00042
			11.00	1.02121	0.00042

35	40	50						
9.10	0.92189	0.00043	8.80	0.92252	0.00044	8.40	0.92126	0.00046
9.15	0.92522	0.00043	8.85	0.92563	0.00045	8.45	0.92621	0.00046
9.20	0.92760	0.00044	8.90	0.92879	0.00045	8.50	0.92858	0.00045
9.25	0.93166	0.00043	8.95	0.93275	0.00045	8.55	0.93338	0.00047
9.30	0.93554	0.00043	9.00	0.93677	0.00045	8.60	0.93794	0.00045
9.35	0.93878	0.00043	9.05	0.93984	0.00044	8.65	0.94063	0.00046
9.40	0.94190	0.00044	9.10	0.94273	0.00045	8.70	0.94411	0.00045
9.45	0.94498	0.00043	9.15	0.94763	0.00044	8.75	0.94896	0.00047
9.50	0.94882	0.00043	9.20	0.95160	0.00045	8.80	0.95191	0.00046
9.55	0.95124	0.00043	9.25	0.95410	0.00045	8.85	0.95616	0.00045
9.60	0.95489	0.00044	9.30	0.95698	0.00044	8.90	0.96000	0.00046
9.65	0.95859	0.00042	9.35	0.96041	0.00043	8.95	0.96362	0.00046
9.70	0.96137	0.00044	9.40	0.96413	0.00044	9.00	0.96684	0.00047
9.75	0.96477	0.00043	9.45	0.96765	0.00044	9.05	0.97095	0.00046
9.80	0.96815	0.00044	9.50	0.97166	0.00043	9.10	0.97479	0.00047
9.85	0.97122	0.00041	9.55	0.97441	0.00045	9.15	0.97815	0.00048
9.90	0.97461	0.00042	9.60	0.97857	0.00045	9.20	0.98140	0.00046
9.95	0.97712	0.00044	9.65	0.98182	0.00045	9.25	0.98500	0.00046
10.00	0.98123	0.00044	9.70	0.98444	0.00045	9.30	0.98886	0.00046
10.05	0.98353	0.00043	9.75	0.98698	0.00043	9.35	0.99192	0.00047
10.10	0.98716	0.00043	9.80	0.99121	0.00045	9.40	0.99550	0.00045
10.15	0.99017	0.00043	9.85	0.99421	0.00045	9.45	0.99885	0.00045
10.20	0.99278	0.00043	9.90	0.99797	0.00044	9.50	1.00211	0.00046
10.25	0.99544	0.00043	9.95	1.00090	0.00045	9.55	1.00648	0.00047
10.30	0.99903	0.00043	10.00	1.00444	0.00043	9.60	1.00900	0.00047
10.35	1.00094	0.00044	10.05	1.00666	0.00044	9.65	1.01247	0.00046
10.40	1.00423	0.00044	10.10	1.00981	0.00043	9.70	1.01555	0.00045
10.45	1.00727	0.00044	10.15	1.01360	0.00043	9.75	1.01944	0.00046
10.50	1.01077	0.00043	10.20	1.01566	0.00043	9.80	1.02207	0.00047
10.55	1.01372	0.00043	10.25	1.01955	0.00044			
10.60	1.01648	0.00043	10.30	1.02172	0.00044			

60	70	80
8.10 0.91525 0.00047	8.00 0.91882 0.00048	7.90 0.91785 0.00048
8.15 0.91994 0.00047	8.05 0.92315 0.00047	7.95 0.92429 0.00049
8.20 0.92385 0.00048	8.10 0.92784 0.00047	8.00 0.92793 0.00048
8.25 0.92750 0.00047	8.15 0.93219 0.00047	8.05 0.93215 0.00048
8.30 0.93229 0.00046	8.20 0.93611 0.00048	8.10 0.93619 0.00049
8.35 0.93572 0.00046	8.25 0.94060 0.00049	8.15 0.94045 0.00047
8.40 0.94019 0.00047	8.30 0.94405 0.00046	8.20 0.94475 0.00048
8.45 0.94379 0.00047	8.35 0.94908 0.00047	8.25 0.94803 0.00048
8.50 0.94739 0.00046	8.40 0.95304 0.00047	8.30 0.95243 0.00048
8.55 0.95244 0.00046	8.45 0.95693 0.00048	8.35 0.95689 0.00048
8.60 0.95601 0.00047	8.50 0.95998 0.00046	8.40 0.95979 0.00047
8.65 0.95951 0.00046	8.55 0.96438 0.00049	8.45 0.96376 0.00048
8.70 0.96370 0.00046	8.60 0.96810 0.00048	8.50 0.96861 0.00050
8.75 0.96753 0.00047	8.65 0.97272 0.00049	8.55 0.97352 0.00048
8.80 0.97160 0.00048	8.70 0.97734 0.00046	8.60 0.97589 0.00048
8.85 0.97450 0.00047	8.75 0.98005 0.00047	8.65 0.98074 0.00049
8.90 0.98045 0.00046	8.80 0.98398 0.00048	8.70 0.98500 0.00049
8.95 0.98333 0.00047	8.85 0.98804 0.00048	8.75 0.98755 0.00048
9.00 0.98597 0.00046	8.90 0.99133 0.00047	8.80 0.99198 0.00047
9.05 0.98979 0.00046	8.95 0.99525 0.00047	8.85 0.99578 0.00048
9.10 0.99304 0.00047	9.00 0.99898 0.00046	8.90 0.99924 0.00048
9.15 0.99666 0.00048	9.05 1.00341 0.00047	8.95 1.00328 0.00047
9.20 1.00079 0.00047	9.10 1.00725 0.00049	9.00 1.00687 0.00048
9.25 1.00412 0.00048	9.15 1.00886 0.00047	9.05 1.01027 0.00048
9.30 1.00849 0.00045	9.20 1.01326 0.00047	9.10 1.01455 0.00049
9.35 1.01117 0.00046	9.25 1.01698 0.00047	9.15 1.01763 0.00048
9.40 1.01435 0.00046	9.30 1.02135 0.00047	9.20 1.02162 0.00049
9.45 1.01857 0.00045		
9.50 1.02210 0.00047		

90	100	120
7.80 0.91525 0.00048	7.80 0.91787 0.00049	7.80 0.92073 0.00048
7.85 0.92004 0.00049	7.85 0.92390 0.00049	7.85 0.92441 0.00050
7.90 0.92506 0.00048	7.90 0.92736 0.00049	7.90 0.92976 0.00048
7.95 0.92848 0.00048	7.95 0.93175 0.00049	7.95 0.93365 0.00047
8.00 0.93258 0.00047	8.00 0.93555 0.00049	8.00 0.93849 0.00047
8.05 0.93696 0.00048	8.05 0.93976 0.00049	8.05 0.94198 0.00050
8.10 0.94081 0.00048	8.10 0.94437 0.00048	8.10 0.94661 0.00050
8.15 0.94492 0.00047	8.15 0.94852 0.00049	8.15 0.95131 0.00050
8.20 0.94908 0.00049	8.20 0.95216 0.00048	8.20 0.95523 0.00048
8.25 0.95397 0.00048	8.25 0.95690 0.00048	8.25 0.95903 0.00049
8.30 0.95751 0.00047	8.30 0.96049 0.00048	8.30 0.96278 0.00048
8.35 0.96181 0.00048	8.35 0.96429 0.00050	8.35 0.96675 0.00049
8.40 0.96593 0.00047	8.40 0.96907 0.00048	8.40 0.97119 0.00049
8.45 0.96929 0.00049	8.45 0.97360 0.00050	8.45 0.97507 0.00050
8.50 0.97365 0.00049	8.50 0.97638 0.00048	8.50 0.97911 0.00048
8.55 0.97795 0.00048	8.55 0.98101 0.00050	8.60 0.98626 0.00049
8.60 0.98187 0.00048	8.60 0.98496 0.00048	8.65 0.99002 0.00050

8.65 0.98504 0.00048	8.65 0.98875 0.00050	8.70 0.99420 0.00048
8.70 0.98967 0.00048	8.70 0.99274 0.00048	8.75 0.99820 0.00048
8.75 0.99339 0.00048	8.75 0.99688 0.00049	8.85 1.00515 0.00050
8.80 0.99631 0.00048	8.80 1.00053 0.00048	8.90 1.00900 0.00048
8.85 1.00127 0.00048	8.85 1.00367 0.00048	8.95 1.01194 0.00050
8.90 1.00491 0.00048	8.90 1.00784 0.00049	9.00 1.01756 0.00049
8.95 1.00875 0.00048	8.95 1.01106 0.00048	9.05 1.02100 0.00048
9.00 1.01180 0.00050	9.00 1.01580 0.00049	9.10 1.02401 0.00048
9.05 1.01490 0.00048	9.05 1.01838 0.00048	
9.10 1.01910 0.00049	9.10 1.02240 0.00049	

130	150	200
7.80 0.92237 0.00048	7.80 0.92101 0.00051	7.90 0.92155 0.00049
7.85 0.92577 0.00048	7.85 0.92476 0.00051	7.95 0.92647 0.00049
7.90 0.93102 0.00049	7.90 0.92958 0.00050	8.00 0.93058 0.00048
7.95 0.93402 0.00049	7.95 0.93381 0.00051	8.05 0.93468 0.00048
8.00 0.93953 0.00049	8.05 0.94226 0.00050	8.10 0.93960 0.00050
8.05 0.94341 0.00049	8.10 0.94639 0.00050	8.15 0.94308 0.00050
8.10 0.94720 0.00048	8.15 0.94974 0.00049	8.20 0.94721 0.00049
8.15 0.95183 0.00047	8.20 0.95431 0.00048	8.25 0.95134 0.00049
8.20 0.95633 0.00048	8.25 0.95825 0.00049	8.30 0.95490 0.00050
8.25 0.95977 0.00049	8.30 0.96174 0.00050	8.35 0.95913 0.00049
8.30 0.96416 0.00048	8.35 0.96677 0.00049	8.40 0.96305 0.00049
8.35 0.96740 0.00048	8.40 0.96945 0.00049	8.45 0.96744 0.00049
8.40 0.97194 0.00047	8.45 0.97448 0.00049	8.50 0.97052 0.00050
8.45 0.97599 0.00049	8.50 0.97782 0.00049	8.55 0.97463 0.00049
8.50 0.97963 0.00049	8.55 0.98183 0.00048	8.60 0.97845 0.00049
8.55 0.98382 0.00048	8.60 0.98607 0.00049	8.65 0.98237 0.00048
8.60 0.98813 0.00050	8.65 0.98980 0.00050	8.70 0.98539 0.00049
8.65 0.99132 0.00050	8.70 0.99355 0.00049	8.75 0.98908 0.00050
8.75 0.99907 0.00050	8.75 0.99749 0.00050	8.80 0.99400 0.00050
8.80 1.00372 0.00048	8.80 1.00057 0.00049	8.85 0.99678 0.00050
8.85 1.00664 0.00050	8.85 1.00529 0.00048	8.90 1.00026 0.00049
8.90 1.00992 0.00048	8.90 1.00860 0.00050	8.95 1.00404 0.00050
8.95 1.01397 0.00049	8.95 1.01144 0.00047	9.00 1.00739 0.00051
	9.00 1.01510 0.00049	9.05 1.01046 0.00049
	9.05 1.01958 0.00050	9.15 1.01772 0.00049
	9.10 1.02257 0.00048	9.20 1.02190 0.00049

239	250	359
8.00 0.92326 0.00050	8.00 0.92022 0.00050	8.30 0.92232 0.00048
8.05 0.92744 0.00051	8.05 0.92444 0.00049	8.35 0.92585 0.00048
8.10 0.93055 0.00048	8.10 0.92874 0.00051	8.40 0.92946 0.00050
8.15 0.93530 0.00049	8.15 0.93255 0.00050	8.45 0.93321 0.00049
8.20 0.93909 0.00049	8.20 0.93717 0.00049	8.50 0.93719 0.00050
8.25 0.94329 0.00049	8.25 0.94091 0.00051	8.55 0.94149 0.00050
8.30 0.94720 0.00049	8.30 0.94521 0.00049	8.60 0.94465 0.00050

8.35 0.95083 0.00048	8.35 0.94788 0.00049	8.65 0.94873 0.00049
8.40 0.95572 0.00050	8.40 0.95311 0.00048	8.70 0.95175 0.00050
8.45 0.95788 0.00050	8.45 0.95674 0.00050	8.75 0.95513 0.00048
8.50 0.96178 0.00050	8.50 0.95981 0.00050	8.80 0.95900 0.00049
8.55 0.96644 0.00049	8.55 0.96393 0.00050	8.85 0.96347 0.00050
8.60 0.96958 0.00050	8.60 0.96812 0.00050	8.90 0.96663 0.00048
8.65 0.97372 0.00049	8.65 0.97157 0.00047	8.95 0.96997 0.00050
8.70 0.97720 0.00051	8.70 0.97485 0.00049	9.00 0.97454 0.00049
8.75 0.98184 0.00049	8.75 0.97853 0.00049	9.05 0.97780 0.00051
8.80 0.98560 0.00049	8.80 0.98311 0.00050	9.10 0.98104 0.00050
8.85 0.98787 0.00051	8.85 0.98617 0.00050	9.15 0.98308 0.00049
8.90 0.99249 0.00050	8.95 0.99289 0.00049	9.20 0.98790 0.00048
8.95 0.99593 0.00049	9.00 0.99665 0.00048	9.25 0.99079 0.00050
9.00 0.99937 0.00050	9.05 1.00041 0.00050	9.30 0.99415 0.00049
9.05 1.00342 0.00049	9.10 1.00374 0.00049	9.35 0.99789 0.00049
9.10 1.00638 0.00050	9.15 1.00802 0.00049	9.40 1.00104 0.00050
9.15 1.00990 0.00049	9.20 1.01142 0.00049	9.45 1.00346 0.00050
9.20 1.01403 0.00050	9.25 1.01414 0.00051	9.50 1.00713 0.00050
9.25 1.01636 0.00051	9.30 1.01756 0.00049	9.55 1.01201 0.00049
9.30 1.02031 0.00049		9.60 1.01468 0.00049
		9.65 1.01759 0.00053
		9.70 1.02112 0.00048

478	500	600
8.60 0.91737 0.00049	8.70 0.91887 0.00048	9.30 0.92475 0.00049
8.65 0.92187 0.00049	8.75 0.92257 0.00049	9.35 0.92759 0.00049
8.70 0.92570 0.00048	8.80 0.92536 0.00048	9.40 0.93131 0.00049
8.75 0.92855 0.00049	8.85 0.92863 0.00048	9.45 0.93452 0.00049
8.80 0.93271 0.00048	8.90 0.93318 0.00047	9.50 0.93848 0.00049
8.85 0.93509 0.00050	8.95 0.93622 0.00049	9.55 0.94053 0.00048
8.90 0.93977 0.00047	9.00 0.94089 0.00049	9.60 0.94463 0.00047
8.95 0.94293 0.00047	9.05 0.94375 0.00049	9.70 0.95247 0.00048
9.00 0.94662 0.00049	9.10 0.94714 0.00049	9.75 0.95439 0.00049
9.05 0.95072 0.00048	9.15 0.95000 0.00048	9.80 0.95822 0.00048
9.10 0.95365 0.00050	9.20 0.95371 0.00049	9.85 0.96096 0.00048
9.15 0.95734 0.00048	9.25 0.95811 0.00048	9.90 0.96361 0.00051
9.20 0.95989 0.00050	9.30 0.96220 0.00049	9.95 0.96791 0.00049
9.25 0.96412 0.00049	9.35 0.96346 0.00049	10.00 0.97003 0.00049
9.30 0.96796 0.00049	9.40 0.96800 0.00050	10.05 0.97360 0.00050
9.35 0.97118 0.00049	9.45 0.97131 0.00048	10.10 0.97777 0.00049
9.40 0.97459 0.00050	9.50 0.97442 0.00049	10.15 0.97954 0.00047
9.45 0.97727 0.00050	9.55 0.97778 0.00049	10.20 0.98330 0.00048
9.50 0.98076 0.00048	9.65 0.98375 0.00049	10.25 0.98563 0.00048
9.55 0.98403 0.00050	9.70 0.98669 0.00048	10.30 0.98912 0.00049
9.60 0.98738 0.00048	9.75 0.99148 0.00049	10.35 0.99135 0.00049
9.65 0.99052 0.00049	9.80 0.99414 0.00049	10.40 0.99521 0.00049
9.70 0.99309 0.00048	9.85 0.99675 0.00049	10.45 0.99817 0.00049
9.75 0.99698 0.00049	9.90 1.00067 0.00048	10.50 1.00101 0.00047
9.80 1.00045 0.00049	9.95 1.00236 0.00049	10.55 1.00382 0.00049

9.85 1.00336 0.00050	10.00 1.00656 0.00049	10.60 1.00681 0.00049
9.90 1.00681 0.00049	10.05 1.00960 0.00050	10.65 1.00979 0.00049
9.95 1.00944 0.00048	10.10 1.01203 0.00049	10.70 1.01260 0.00049
10.00 1.01299 0.00050	10.15 1.01522 0.00049	10.75 1.01518 0.00049
10.05 1.01550 0.00050	10.20 1.01808 0.00050	10.80 1.01912 0.00048
10.10 1.01830 0.00049		

650	660	670
9.70 0.91837 0.00048	9.90 0.92332 0.00048	10.00 0.91768 0.00049
9.75 0.92146 0.00049	9.95 0.92564 0.00048	10.05 0.92176 0.00048
9.80 0.92513 0.00049	10.00 0.92965 0.00048	10.10 0.92464 0.00049
9.85 0.92892 0.00047	10.05 0.93305 0.00049	10.15 0.92728 0.00048
9.90 0.93140 0.00049	10.10 0.93602 0.00049	10.20 0.93102 0.00047
9.95 0.93469 0.00048	10.15 0.93933 0.00047	10.25 0.93359 0.00048
10.05 0.94129 0.00050	10.20 0.94147 0.00049	10.30 0.93708 0.00047
10.10 0.94447 0.00049	10.25 0.94531 0.00048	10.35 0.94054 0.00048
10.15 0.94753 0.00048	10.30 0.94725 0.00049	10.40 0.94343 0.00047
10.20 0.95014 0.00049	10.35 0.95036 0.00048	10.45 0.94632 0.00047
10.25 0.95362 0.00050	10.40 0.95476 0.00048	10.50 0.94900 0.00050
10.30 0.95622 0.00048	10.45 0.95621 0.00048	10.55 0.95241 0.00049
10.35 0.95985 0.00047	10.50 0.96020 0.00049	10.60 0.95529 0.00048
10.40 0.96337 0.00049	10.55 0.96307 0.00049	10.65 0.95791 0.00049
10.45 0.96603 0.00049	10.60 0.96569 0.00048	10.70 0.96127 0.00048
10.50 0.96914 0.00049	10.65 0.96939 0.00047	10.75 0.96388 0.00048
10.55 0.97185 0.00048	10.70 0.97276 0.00047	10.80 0.96790 0.00048
10.60 0.97516 0.00050	10.75 0.97508 0.00049	10.85 0.97043 0.00049
10.65 0.97912 0.00048	10.80 0.97776 0.00047	10.90 0.97286 0.00049
10.70 0.98083 0.00049	10.85 0.98146 0.00048	10.95 0.97569 0.00047
10.80 0.98736 0.00048	10.90 0.98340 0.00048	11.00 0.97871 0.00050
10.90 0.99208 0.00050	10.95 0.98657 0.00048	11.05 0.98242 0.00049
10.95 0.99528 0.00049	11.00 0.98947 0.00050	11.10 0.98423 0.00049
11.00 0.99826 0.00049	11.05 0.99231 0.00049	11.15 0.98656 0.00048
11.10 1.00349 0.00050	11.10 0.99497 0.00048	11.20 0.98953 0.00049
11.15 1.00624 0.00049	11.15 0.99801 0.00049	11.35 0.99779 0.00049
11.20 1.01026 0.00049	11.20 1.00110 0.00048	11.45 1.00435 0.00049
11.25 1.01180 0.00050	11.25 1.00429 0.00049	11.50 1.00598 0.00049
11.30 1.01490 0.00048	11.30 1.00611 0.00048	11.55 1.00994 0.00048
11.35 1.01714 0.00049	11.35 1.00961 0.00049	11.60 1.01233 0.00048
11.40 1.01999 0.00047	11.40 1.01181 0.00049	11.65 1.01450 0.00049
	11.45 1.01475 0.00048	11.70 1.01746 0.00048
	11.50 1.01748 0.00049	

680	690	698
10.30 0.92258 0.00049	10.60 0.92077 0.00048	11.30 0.92370 0.00047
10.35 0.92590 0.00047	10.70 0.92616 0.00049	11.40 0.92928 0.00049
10.40 0.92903 0.00048	10.80 0.93141 0.00046	11.50 0.93517 0.00048
10.45 0.93239 0.00049	10.90 0.93774 0.00049	11.60 0.94016 0.00048

10.50 0.93462 0.00049	11.00 0.94384 0.00047	11.70 0.94605 0.00047
10.55 0.93776 0.00048	11.10 0.94995 0.00049	11.80 0.95193 0.00048
10.60 0.94061 0.00049	11.20 0.95416 0.00046	11.90 0.95699 0.00048
10.65 0.94399 0.00049	11.30 0.96131 0.00047	12.00 0.96181 0.00048
10.70 0.94692 0.00049	11.40 0.96688 0.00048	12.10 0.96699 0.00048
10.75 0.94985 0.00048	11.50 0.97172 0.00050	12.20 0.97203 0.00047
10.85 0.95569 0.00048	11.60 0.97677 0.00048	12.30 0.97816 0.00047
10.90 0.95956 0.00048	11.70 0.98237 0.00049	12.40 0.98285 0.00049
10.95 0.96167 0.00048	11.80 0.98906 0.00049	12.50 0.98797 0.00048
11.00 0.96528 0.00050	11.90 0.99326 0.00049	12.60 0.99299 0.00048
11.05 0.96723 0.00048	12.00 0.99935 0.00048	12.70 0.99745 0.00049
11.10 0.97088 0.00049	12.10 1.00385 0.00049	12.80 1.00189 0.00049
11.15 0.97299 0.00048	12.20 1.00871 0.00049	12.90 1.00833 0.00048
11.20 0.97535 0.00049	12.30 1.01448 0.00049	13.00 1.01236 0.00049
11.25 0.97825 0.00048	12.40 1.01966 0.00049	13.10 1.01701 0.00050
11.30 0.98218 0.00049		
11.35 0.98446 0.00048		
11.40 0.98776 0.00048		
11.45 0.98966 0.00047		
11.50 0.99129 0.00050		
11.60 0.99773 0.00050		
11.65 1.00073 0.00048		
11.70 1.00262 0.00048		
11.75 1.00564 0.00049		
11.80 1.00896 0.00049		
11.85 1.01153 0.00047		
11.90 1.01440 0.00048		
11.95 1.01591 0.00046		
12.00 1.01870 0.00048		

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12	15	20
15.70 0.92554 0.00027	12.60 0.92674 0.00030	10.10 0.91981 0.00035
15.90 0.92982 0.00027	12.70 0.93057 0.00031	10.20 0.92370 0.00034
16.30 0.93710 0.00027	12.80 0.93360 0.00030	10.30 0.92935 0.00035
16.50 0.94096 0.00027	12.90 0.93702 0.00032	10.40 0.93350 0.00034
16.70 0.94472 0.00027	13.00 0.94050 0.00031	10.50 0.93823 0.00034
16.90 0.94795 0.00027	13.10 0.94290 0.00031	10.60 0.94276 0.00035
17.10 0.95206 0.00027	13.20 0.94622 0.00030	10.70 0.94752 0.00035
17.30 0.95556 0.00028	13.30 0.94833 0.00031	10.80 0.95186 0.00036
17.50 0.95915 0.00027	13.40 0.95224 0.00031	10.90 0.95621 0.00034
17.70 0.96276 0.00027	13.50 0.95424 0.00031	11.00 0.96067 0.00034
17.90 0.96614 0.00026	13.60 0.95715 0.00029	11.10 0.96518 0.00034
18.10 0.96916 0.00026	13.70 0.96030 0.00030	11.20 0.96880 0.00034
18.30 0.97180 0.00025	13.80 0.96319 0.00030	11.30 0.97339 0.00035
18.50 0.97534 0.00026	13.90 0.96611 0.00030	11.40 0.97752 0.00034
18.70 0.97759 0.00027	14.00 0.96825 0.00030	11.50 0.98110 0.00035
18.90 0.98108 0.00026	14.10 0.97185 0.00030	11.60 0.98525 0.00034
19.10 0.98416 0.00026	14.20 0.97386 0.00030	11.70 0.99012 0.00035

19.30 0.98654 0.00026	14.30 0.97646 0.00030	11.80 0.99260 0.00035
19.50 0.98922 0.00026	14.40 0.97901 0.00030	11.90 0.99672 0.00035
19.70 0.99276 0.00026	14.50 0.98163 0.00031	12.00 1.00038 0.00033
19.90 0.99516 0.00025	14.60 0.98413 0.00030	12.10 1.00376 0.00034
20.10 0.99697 0.00025	14.70 0.98712 0.00029	12.20 1.00779 0.00033
20.30 0.99959 0.00025	14.80 0.98942 0.00030	12.30 1.01077 0.00034
20.50 1.00226 0.00026	14.90 0.99162 0.00030	12.40 1.01481 0.00034
20.70 1.00518 0.00025	15.00 0.99431 0.00030	12.50 1.01839 0.00034
20.90 1.00741 0.00024	15.10 0.99742 0.00029	
21.10 1.00975 0.00025	15.20 0.99940 0.00030	
21.30 1.01270 0.00024	15.30 1.00199 0.00029	
21.40 1.01307 0.00025	15.40 1.00375 0.00030	
	15.50 1.00564 0.00030	
	15.60 1.00812 0.00030	
	15.70 1.01032 0.00029	
	15.80 1.01280 0.00029	
	15.90 1.01508 0.00029	

25	30	32
9.00 0.92091 0.00037	8.30 0.91993 0.00039	8.10 0.92043 0.00040
9.10 0.92627 0.00037	8.35 0.92343 0.00039	8.15 0.92379 0.00040
9.20 0.93311 0.00038	8.40 0.92553 0.00038	8.20 0.92612 0.00038
9.30 0.93851 0.00038	8.45 0.92975 0.00039	8.25 0.92997 0.00039
9.40 0.94388 0.00036	8.50 0.93221 0.00040	8.30 0.93304 0.00039
9.50 0.94943 0.00037	8.55 0.93677 0.00039	8.35 0.93647 0.00040
9.60 0.95543 0.00037	8.60 0.93958 0.00037	8.40 0.94072 0.00038
9.70 0.96033 0.00037	8.65 0.94192 0.00039	8.45 0.94289 0.00039
9.80 0.96506 0.00037	8.70 0.94542 0.00040	8.50 0.94643 0.00040
9.90 0.97072 0.00037	8.75 0.94792 0.00037	8.55 0.94983 0.00040
10.00 0.97609 0.00037	8.80 0.95138 0.00038	8.60 0.95289 0.00040
10.10 0.98046 0.00037	8.85 0.95440 0.00039	8.65 0.95614 0.00039
10.20 0.98581 0.00037	8.90 0.95822 0.00040	8.70 0.95865 0.00038
10.30 0.99072 0.00037	8.95 0.96055 0.00038	8.75 0.96302 0.00038
10.40 0.99603 0.00036	9.10 0.96980 0.00038	8.80 0.96575 0.00039
10.50 1.00021 0.00037	9.15 0.97249 0.00037	8.85 0.96954 0.00039
10.60 1.00498 0.00036	9.20 0.97572 0.00038	8.90 0.97100 0.00039
10.70 1.00947 0.00037	9.25 0.97895 0.00039	8.95 0.97550 0.00039
10.80 1.01516 0.00038	9.30 0.98075 0.00039	9.00 0.97829 0.00040
10.90 1.01906 0.00035	9.35 0.98433 0.00039	9.05 0.98127 0.00039
	9.40 0.98738 0.00039	9.10 0.98382 0.00039
	9.45 0.98967 0.00039	9.15 0.98713 0.00039
	9.50 0.99314 0.00039	9.20 0.99049 0.00039
	9.55 0.99581 0.00039	9.25 0.99270 0.00040
	9.60 0.99798 0.00037	9.30 0.99684 0.00040
	9.65 1.00145 0.00040	9.35 0.99903 0.00038
	9.70 1.00413 0.00039	9.40 1.00078 0.00040
	9.75 1.00661 0.00040	9.45 1.00457 0.00039
	9.80 1.00868 0.00038	9.50 1.00657 0.00039
	9.85 1.01174 0.00038	9.55 1.01083 0.00039
	9.90 1.01430 0.00039	9.60 1.01306 0.00039

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9.95	1.01788	0.00039	9.65	1.01537	0.00039
10.00	1.02020	0.00039	9.70	1.01845	0.00040

35	40	50
7.90 0.92304 0.00040	7.50 0.91789 0.00041	7.10 0.92037 0.00042
7.95 0.92704 0.00040	7.55 0.92112 0.00040	7.15 0.92469 0.00042
8.00 0.92985 0.00040	7.60 0.92522 0.00041	7.20 0.92805 0.00042
8.05 0.93439 0.00041	7.65 0.92943 0.00042	7.25 0.93311 0.00042
8.10 0.93741 0.00039	7.70 0.93403 0.00041	7.30 0.93688 0.00042
8.15 0.94087 0.00039	7.75 0.93640 0.00041	7.35 0.93964 0.00042
8.20 0.94450 0.00039	7.80 0.94009 0.00040	7.40 0.94361 0.00042
8.25 0.94829 0.00041	7.85 0.94394 0.00040	7.45 0.94806 0.00042
8.30 0.95085 0.00039	7.90 0.94727 0.00040	7.50 0.95243 0.00043
8.35 0.95545 0.00039	7.95 0.95177 0.00041	7.55 0.95518 0.00042
8.40 0.95780 0.00041	8.00 0.95497 0.00042	7.60 0.95929 0.00043
8.45 0.96123 0.00039	8.05 0.95880 0.00040	7.65 0.96362 0.00043
8.50 0.96461 0.00039	8.10 0.96287 0.00041	7.70 0.96647 0.00042
8.55 0.96823 0.00040	8.15 0.96491 0.00040	7.75 0.97066 0.00042
8.60 0.97123 0.00040	8.20 0.96815 0.00040	7.80 0.97509 0.00042
8.65 0.97495 0.00040	8.25 0.97292 0.00041	7.85 0.97825 0.00043
8.70 0.97749 0.00040	8.30 0.97602 0.00042	7.90 0.98162 0.00042
8.75 0.98045 0.00040	8.35 0.97964 0.00040	7.95 0.98556 0.00043
8.80 0.98384 0.00040	8.40 0.98267 0.00040	8.00 0.98864 0.00043
8.85 0.98726 0.00039	8.45 0.98559 0.00040	8.05 0.99270 0.00042
8.90 0.99037 0.00040	8.50 0.98941 0.00043	8.10 0.99706 0.00042
8.95 0.99309 0.00040	8.55 0.99120 0.00042	8.15 0.99966 0.00043
9.00 0.99671 0.00040	8.60 0.99597 0.00042	8.20 1.00323 0.00042
9.05 0.99952 0.00041	8.65 0.99922 0.00041	8.25 1.00690 0.00042
9.10 1.00207 0.00039	8.70 1.00214 0.00040	8.30 1.00990 0.00042
9.15 1.00544 0.00040	8.75 1.00465 0.00041	8.35 1.01403 0.00043
9.20 1.00810 0.00041	8.80 1.00782 0.00041	8.40 1.01675 0.00043
9.25 1.01108 0.00040	8.85 1.01156 0.00041	8.45 1.02093 0.00043
9.30 1.01364 0.00040	8.90 1.01553 0.00041	8.50 1.02413 0.00044
9.35 1.01699 0.00040	8.95 1.01803 0.00041	
9.40 1.01964 0.00040	9.00 1.02140 0.00042	

60	70	80
6.80 0.91686 0.00042	6.70 0.92359 0.00043	6.50 0.91677 0.00043
6.85 0.92211 0.00044	6.75 0.92819 0.00042	6.55 0.92142 0.00045
6.90 0.92502 0.00043	6.80 0.93185 0.00044	6.60 0.92464 0.00044
6.95 0.92953 0.00042	6.85 0.93657 0.00043	6.65 0.92966 0.00043
7.05 0.93822 0.00044	6.90 0.94083 0.00042	6.70 0.93291 0.00044
7.10 0.94133 0.00043	6.95 0.94497 0.00043	6.75 0.93892 0.00043
7.15 0.94647 0.00044	7.00 0.94984 0.00043	6.80 0.94265 0.00043
7.20 0.95005 0.00043	7.05 0.95335 0.00042	6.85 0.94659 0.00046
7.25 0.95428 0.00043	7.10 0.95707 0.00043	6.90 0.95071 0.00044
7.30 0.95752 0.00045	7.15 0.96162 0.00044	6.95 0.95605 0.00045

7.35 0.96143 0.00043	7.20 0.96577 0.00044	7.00 0.95990 0.00044
7.40 0.96533 0.00042	7.25 0.97001 0.00043	7.05 0.96410 0.00044
7.45 0.96986 0.00043	7.30 0.97434 0.00043	7.10 0.96748 0.00044
7.50 0.97399 0.00044	7.35 0.97716 0.00044	7.15 0.97245 0.00043
7.55 0.97771 0.00043	7.40 0.98155 0.00044	7.20 0.97496 0.00043
7.60 0.98124 0.00042	7.45 0.98514 0.00044	7.25 0.98052 0.00043
7.65 0.98569 0.00043	7.50 0.98909 0.00044	7.30 0.98417 0.00045
7.70 0.98904 0.00043	7.55 0.99290 0.00043	7.35 0.98710 0.00046
7.75 0.99335 0.00043	7.60 0.99690 0.00044	7.40 0.99238 0.00045
7.80 0.99682 0.00042	7.65 1.00050 0.00043	7.45 0.99595 0.00045
7.85 1.00058 0.00043	7.70 1.00489 0.00044	7.50 1.00000 0.00043
7.90 1.00426 0.00043	7.75 1.00861 0.00045	7.55 1.00364 0.00044
7.95 1.00755 0.00042	7.80 1.01125 0.00044	7.60 1.00698 0.00046
8.00 1.01103 0.00044	7.85 1.01560 0.00044	7.65 1.01062 0.00045
8.05 1.01428 0.00044	7.90 1.01994 0.00045	7.70 1.01459 0.00044
8.10 1.01887 0.00044		7.75 1.01794 0.00045
		7.80 1.02223 0.00044

90	100	120
6.40 0.91521 0.00045	6.40 0.92061 0.00045	6.30 0.91831 0.00044
6.45 0.91993 0.00044	6.45 0.92563 0.00043	6.35 0.92246 0.00045
6.50 0.92430 0.00044	6.50 0.92962 0.00045	6.40 0.92738 0.00044
6.55 0.92853 0.00045	6.55 0.93438 0.00045	6.45 0.93030 0.00044
6.60 0.93293 0.00044	6.60 0.93884 0.00046	6.50 0.93616 0.00044
6.65 0.93777 0.00044	6.65 0.94344 0.00044	6.55 0.93975 0.00045
6.70 0.94150 0.00045	6.70 0.94714 0.00043	6.60 0.94455 0.00045
6.75 0.94620 0.00044	6.75 0.95136 0.00045	6.65 0.94914 0.00046
6.80 0.94985 0.00043	6.80 0.95540 0.00045	6.70 0.95241 0.00046
6.85 0.95474 0.00045	6.85 0.96025 0.00044	6.75 0.95763 0.00046
6.90 0.95859 0.00044	6.90 0.96381 0.00045	6.80 0.96150 0.00045
6.95 0.96297 0.00044	6.95 0.96775 0.00046	6.85 0.96711 0.00046
7.00 0.96719 0.00045	7.00 0.97276 0.00044	6.90 0.96903 0.00045
7.05 0.97064 0.00044	7.05 0.97683 0.00045	6.95 0.97373 0.00046
7.10 0.97469 0.00044	7.10 0.98088 0.00046	7.00 0.97810 0.00046
7.15 0.97952 0.00044	7.15 0.98476 0.00045	7.05 0.98178 0.00046
7.20 0.98330 0.00045	7.20 0.98834 0.00044	7.10 0.98524 0.00045
7.25 0.98703 0.00045	7.25 0.99247 0.00044	7.20 0.99444 0.00045
7.30 0.99131 0.00044	7.30 0.99574 0.00044	7.25 0.99834 0.00045
7.35 0.99413 0.00046	7.35 0.99963 0.00045	7.30 1.00183 0.00046
7.40 0.99888 0.00044	7.40 1.00397 0.00045	7.35 1.00586 0.00045
7.45 1.00277 0.00047	7.45 1.00844 0.00045	7.40 1.00952 0.00046
7.50 1.00681 0.00044	7.50 1.01067 0.00045	7.45 1.01335 0.00046
7.55 1.01107 0.00044	7.55 1.01557 0.00045	7.50 1.01670 0.00046
7.60 1.01435 0.00044	7.60 1.01955 0.00045	
7.65 1.01802 0.00044		
7.70 1.02165 0.00044		

130	150	200
6.30 0.92109 0.00046	6.30 0.92258 0.00045	6.30 0.92254 0.00044
6.35 0.92540 0.00046	6.35 0.92719 0.00044	6.35 0.92691 0.00046
6.40 0.92993 0.00043	6.40 0.93267 0.00044	6.40 0.93139 0.00045
6.45 0.93389 0.00045	6.45 0.93557 0.00046	6.45 0.93471 0.00045
6.50 0.93859 0.00047	6.50 0.94032 0.00044	6.50 0.93937 0.00045
6.55 0.94205 0.00043	6.60 0.94888 0.00045	6.55 0.94376 0.00046
6.60 0.94675 0.00046	6.65 0.95357 0.00046	6.60 0.94773 0.00045
6.65 0.95201 0.00046	6.70 0.95751 0.00045	6.65 0.95176 0.00045
6.70 0.95535 0.00045	6.75 0.96164 0.00045	6.70 0.95585 0.00046
6.75 0.96120 0.00044	6.80 0.96487 0.00046	6.75 0.96014 0.00047
6.80 0.96512 0.00045	6.85 0.97007 0.00046	6.80 0.96417 0.00046
6.85 0.96861 0.00045	6.90 0.97386 0.00046	6.85 0.96813 0.00046
6.90 0.97199 0.00045	6.95 0.97745 0.00046	6.90 0.97221 0.00044
6.95 0.97610 0.00045	7.00 0.98114 0.00046	6.95 0.97532 0.00045
7.00 0.98012 0.00044	7.05 0.98624 0.00046	7.00 0.98028 0.00046
7.05 0.98505 0.00046	7.10 0.98901 0.00046	7.05 0.98407 0.00045
7.10 0.98875 0.00044	7.15 0.99325 0.00046	7.10 0.98723 0.00045
7.15 0.99220 0.00044	7.20 0.99718 0.00046	7.15 0.99164 0.00045
7.20 0.99653 0.00045	7.25 1.00068 0.00044	7.20 0.99421 0.00044
7.25 0.99966 0.00045	7.30 1.00553 0.00045	7.25 0.99976 0.00046
7.30 1.00364 0.00044	7.35 1.00783 0.00045	7.30 1.00261 0.00045
7.35 1.00761 0.00046	7.40 1.01201 0.00045	7.35 1.00686 0.00046
7.40 1.01147 0.00046	7.45 1.01608 0.00045	7.40 1.01073 0.00046
7.45 1.01561 0.00046	7.50 1.02025 0.00044	7.45 1.01464 0.00045
		7.50 1.01753 0.00046

239	250	359
6.35 0.92358 0.00045	6.40 0.92634 0.00047	6.50 0.92054 0.00046
6.40 0.92735 0.00044	6.45 0.92940 0.00046	6.55 0.92419 0.00045
6.50 0.93590 0.00045	6.50 0.93530 0.00045	6.60 0.92838 0.00045
6.55 0.94050 0.00044	6.55 0.93855 0.00045	6.65 0.93278 0.00047
6.60 0.94370 0.00045	6.60 0.94278 0.00046	6.70 0.93657 0.00047
6.65 0.94833 0.00044	6.65 0.94617 0.00046	6.75 0.94074 0.00047
6.70 0.95155 0.00045	6.70 0.95085 0.00046	6.80 0.94440 0.00046
6.75 0.95523 0.00045	6.75 0.95456 0.00045	6.85 0.94775 0.00045
6.80 0.95974 0.00046	6.80 0.95769 0.00046	6.90 0.95137 0.00045
6.85 0.96442 0.00045	6.85 0.96262 0.00045	6.95 0.95538 0.00044
6.90 0.96791 0.00046	6.90 0.96582 0.00046	7.00 0.95898 0.00046
6.95 0.97197 0.00044	6.95 0.96985 0.00045	7.05 0.96319 0.00045
7.00 0.97546 0.00044	7.00 0.97417 0.00046	7.10 0.96702 0.00045
7.05 0.97927 0.00045	7.05 0.97699 0.00045	7.15 0.97044 0.00046
7.10 0.98271 0.00045	7.10 0.98179 0.00046	7.20 0.97430 0.00045
7.15 0.98664 0.00045	7.15 0.98520 0.00045	7.25 0.97739 0.00045
7.20 0.99118 0.00045	7.20 0.98978 0.00047	7.30 0.98088 0.00046
7.25 0.99442 0.00047	7.25 0.99298 0.00046	7.35 0.98474 0.00046
7.30 0.99803 0.00046	7.30 0.99676 0.00045	7.40 0.98801 0.00047
7.35 1.00108 0.00045	7.35 1.00082 0.00047	7.45 0.99113 0.00046
7.40 1.00487 0.00045	7.40 1.00343 0.00046	7.50 0.99541 0.00046

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7.45 1.00789 0.00046	7.45 1.00835 0.00045	7.55 0.99755 0.00046
7.50 1.01299 0.00044	7.55 1.01489 0.00044	7.60 1.00191 0.00045
7.55 1.01598 0.00045	7.60 1.01797 0.00047	7.65 1.00561 0.00048
7.60 1.01978 0.00045		7.70 1.00834 0.00045
		7.75 1.01133 0.00046
		7.80 1.01517 0.00046
		7.85 1.01947 0.00045
		7.90 1.02205 0.00045

478	500	600
6.80 0.92520 0.00045	6.80 0.92113 0.00046	7.20 0.92346 0.00046
6.85 0.92896 0.00045	6.85 0.92552 0.00044	7.25 0.92739 0.00045
6.90 0.93231 0.00045	6.90 0.92849 0.00045	7.30 0.93008 0.00046
6.95 0.93636 0.00046	6.95 0.93156 0.00047	7.35 0.93365 0.00046
7.00 0.94063 0.00045	7.00 0.93611 0.00045	7.40 0.93768 0.00045
7.05 0.94410 0.00046	7.05 0.93890 0.00044	7.45 0.94077 0.00046
7.10 0.94770 0.00047	7.10 0.94224 0.00046	7.50 0.94450 0.00046
7.15 0.95021 0.00045	7.15 0.94600 0.00046	7.55 0.94686 0.00045
7.20 0.95501 0.00046	7.25 0.95296 0.00045	7.60 0.95081 0.00044
7.25 0.95811 0.00044	7.30 0.95672 0.00045	7.65 0.95283 0.00045
7.30 0.96139 0.00045	7.35 0.96090 0.00045	7.70 0.95755 0.00046
7.35 0.96503 0.00046	7.40 0.96320 0.00044	7.75 0.96107 0.00045
7.40 0.96770 0.00045	7.45 0.96737 0.00045	7.80 0.96367 0.00044
7.45 0.97226 0.00045	7.50 0.97014 0.00046	7.85 0.96735 0.00046
7.50 0.97502 0.00044	7.55 0.97298 0.00045	8.00 0.97607 0.00046
7.55 0.97834 0.00045	7.60 0.97678 0.00045	8.05 0.97917 0.00045
7.60 0.98168 0.00045	7.65 0.98060 0.00047	8.10 0.98232 0.00046
7.65 0.98521 0.00047	7.70 0.98402 0.00046	8.15 0.98553 0.00044
7.70 0.98868 0.00046	7.75 0.98777 0.00045	8.20 0.98894 0.00046
7.80 0.99517 0.00047	7.80 0.99071 0.00046	8.30 0.99483 0.00045
7.85 0.99760 0.00046	7.85 0.99361 0.00045	8.35 0.99696 0.00044
7.90 1.00139 0.00047	7.90 0.99647 0.00045	8.40 1.00071 0.00046
7.95 1.00484 0.00046	7.95 0.99964 0.00045	8.45 1.00394 0.00045
8.00 1.00801 0.00046	8.00 1.00267 0.00046	8.50 1.00693 0.00044
8.05 1.01158 0.00045	8.05 1.00631 0.00046	8.55 1.00969 0.00046
8.10 1.01499 0.00045	8.10 1.00898 0.00046	8.60 1.01204 0.00045
8.15 1.01740 0.00047	8.15 1.01273 0.00045	8.65 1.01567 0.00046
8.20 1.02048 0.00045	8.20 1.01551 0.00047	8.70 1.01898 0.00046
	8.25 1.01808 0.00046	
	8.30 1.02099 0.00045	

650	660	670
7.50 0.92046 0.00045	7.65 0.92370 0.00044	7.80 0.92642 0.00047
7.55 0.92469 0.00046	7.70 0.92693 0.00045	7.85 0.92796 0.00045
7.60 0.92719 0.00045	7.75 0.93057 0.00044	7.90 0.93193 0.00045
7.65 0.93010 0.00043	7.85 0.93682 0.00046	7.95 0.93488 0.00045
7.70 0.93431 0.00045	7.90 0.93914 0.00045	8.00 0.93780 0.00045

7.75 0.93747 0.00044	8.00 0.94615 0.00044	8.05 0.94075 0.00045
7.80 0.94019 0.00045	8.05 0.94941 0.00045	8.10 0.94483 0.00044
7.85 0.94363 0.00045	8.10 0.95224 0.00045	8.15 0.94755 0.00046
7.90 0.94622 0.00045	8.15 0.95579 0.00045	8.20 0.95076 0.00046
7.95 0.94993 0.00045	8.20 0.95823 0.00046	8.25 0.95328 0.00044
8.00 0.95251 0.00044	8.25 0.96131 0.00045	8.30 0.95628 0.00046
8.05 0.95512 0.00045	8.30 0.96475 0.00046	8.35 0.95944 0.00045
8.10 0.95862 0.00044	8.35 0.96728 0.00046	8.40 0.96251 0.00046
8.15 0.96141 0.00045	8.40 0.97118 0.00045	8.45 0.96514 0.00045
8.20 0.96513 0.00046	8.45 0.97364 0.00045	8.50 0.96867 0.00046
8.25 0.96838 0.00045	8.50 0.97619 0.00045	8.55 0.97103 0.00045
8.35 0.97320 0.00046	8.55 0.97849 0.00044	8.60 0.97337 0.00046
8.40 0.97673 0.00044	8.60 0.98217 0.00044	8.65 0.97798 0.00047
8.45 0.98050 0.00045	8.65 0.98435 0.00045	8.70 0.98037 0.00045
8.50 0.98237 0.00046	8.70 0.98763 0.00045	8.75 0.98199 0.00044
8.55 0.98508 0.00045	8.75 0.99066 0.00045	8.80 0.98580 0.00044
8.60 0.98868 0.00045	8.80 0.99315 0.00044	8.85 0.98881 0.00044
8.65 0.99161 0.00045	8.85 0.99663 0.00046	8.90 0.99151 0.00046
8.70 0.99480 0.00045	8.90 0.99930 0.00045	8.95 0.99460 0.00045
8.75 0.99726 0.00045	8.95 1.00185 0.00045	9.00 0.99703 0.00045
8.80 0.99991 0.00046	9.00 1.00432 0.00045	9.05 1.00019 0.00046
8.85 1.00319 0.00045	9.05 1.00748 0.00045	9.10 1.00169 0.00045
8.90 1.00581 0.00046	9.10 1.01092 0.00045	9.15 1.00524 0.00047
8.95 1.00961 0.00046	9.15 1.01275 0.00045	9.20 1.00765 0.00046
9.00 1.01143 0.00045	9.20 1.01529 0.00045	9.25 1.01029 0.00044
9.05 1.01473 0.00045	9.25 1.01817 0.00045	9.30 1.01362 0.00045
9.10 1.01640 0.00044	9.30 1.02100 0.00045	9.35 1.01535 0.00044
9.20 1.02298 0.00045		9.40 1.01845 0.00045

680	690	698
7.90 0.92229 0.00044	8.20 0.92531 0.00046	8.60 0.92253 0.00045
8.15 0.93656 0.00043	8.25 0.92818 0.00044	8.70 0.92813 0.00045
8.25 0.94298 0.00046	8.30 0.93160 0.00046	8.80 0.93474 0.00044
8.30 0.94625 0.00044	8.40 0.93724 0.00044	8.90 0.93947 0.00044
8.35 0.94916 0.00045	8.45 0.93975 0.00045	9.10 0.95072 0.00044
8.40 0.95231 0.00045	8.50 0.94338 0.00044	9.20 0.95539 0.00046
8.45 0.95475 0.00045	8.55 0.94622 0.00046	9.30 0.96145 0.00045
8.50 0.95803 0.00045	8.60 0.94837 0.00044	9.40 0.96614 0.00045
8.55 0.96120 0.00046	8.70 0.95489 0.00045	9.50 0.97120 0.00046
8.60 0.96350 0.00045	8.75 0.95732 0.00045	9.60 0.97666 0.00045
8.65 0.96686 0.00045	8.80 0.96021 0.00045	9.70 0.98237 0.00045
8.70 0.97058 0.00045	8.85 0.96312 0.00044	9.80 0.98660 0.00046
8.75 0.97240 0.00046	8.90 0.96611 0.00045	9.90 0.99198 0.00046
8.80 0.97562 0.00043	8.95 0.96889 0.00045	10.00 0.99621 0.00046
8.85 0.97782 0.00046	9.00 0.97100 0.00045	10.10 1.00163 0.00045
8.90 0.98132 0.00045	9.05 0.97436 0.00045	10.20 1.00659 0.00045
8.95 0.98387 0.00045	9.10 0.97774 0.00045	10.30 1.01123 0.00045
9.05 0.99014 0.00046	9.15 0.97968 0.00045	10.40 1.01593 0.00045
9.10 0.99235 0.00046	9.20 0.98263 0.00045	

9.15 0.99476 0.00045	9.25 0.98480 0.00044
9.20 0.99740 0.00045	9.30 0.98828 0.00045
9.25 1.00034 0.00046	9.35 0.99029 0.00045
9.30 1.00276 0.00045	9.40 0.99350 0.00046
9.35 1.00538 0.00044	9.45 0.99557 0.00046
9.40 1.00869 0.00046	9.50 0.99903 0.00045
9.45 1.00993 0.00045	9.55 1.00056 0.00045
9.50 1.01239 0.00044	9.60 1.00379 0.00045
9.55 1.01696 0.00047	9.65 1.00642 0.00045
9.60 1.01962 0.00045	9.70 1.00814 0.00044
	9.75 1.01114 0.00045
	9.80 1.01431 0.00045
	9.85 1.01708 0.00044
	9.90 1.01791 0.00046

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12	15	20
20.70 0.92588 0.00028	16.60 0.92231 0.00033	13.90 0.92288 0.00037
21.00 0.93042 0.00028	16.80 0.92721 0.00032	14.00 0.92640 0.00038
21.30 0.93511 0.00028	17.00 0.93323 0.00033	14.10 0.93066 0.00038
21.60 0.94020 0.00027	17.20 0.93859 0.00032	14.20 0.93445 0.00038
21.90 0.94377 0.00028	17.40 0.94380 0.00033	14.30 0.93897 0.00037
22.20 0.94829 0.00028	17.60 0.94861 0.00033	14.40 0.94261 0.00039
22.50 0.95306 0.00028	17.80 0.95276 0.00032	14.50 0.94572 0.00037
22.80 0.95667 0.00028	18.00 0.95830 0.00033	14.60 0.95045 0.00037
23.10 0.96042 0.00027	18.20 0.96263 0.00032	14.70 0.95394 0.00037
23.40 0.96364 0.00027	18.40 0.96763 0.00032	14.80 0.95747 0.00037
23.70 0.96778 0.00027	18.60 0.97108 0.00031	14.90 0.96152 0.00037
24.00 0.97128 0.00027	18.80 0.97628 0.00031	15.00 0.96527 0.00037
24.30 0.97431 0.00026	19.00 0.98046 0.00031	15.10 0.96970 0.00038
24.60 0.97742 0.00026	19.20 0.98489 0.00031	15.20 0.97368 0.00037
24.90 0.98099 0.00026	19.40 0.98909 0.00032	15.30 0.97620 0.00037
25.20 0.98416 0.00027	19.60 0.99251 0.00031	15.40 0.97971 0.00038
25.50 0.98759 0.00026	19.80 0.99739 0.00031	15.50 0.98248 0.00038
25.80 0.99090 0.00026	20.00 1.00007 0.00031	15.60 0.98654 0.00036
26.10 0.99344 0.00025	20.20 1.00402 0.00030	15.70 0.98892 0.00037
26.40 0.99600 0.00025	20.40 1.00729 0.00030	15.80 0.99264 0.00037
26.70 0.99878 0.00026	20.60 1.01108 0.00030	15.90 0.99620 0.00036
27.00 1.00146 0.00025	20.80 1.01455 0.00031	16.00 0.99963 0.00037
27.30 1.00443 0.00026		16.10 1.00305 0.00037
27.60 1.00673 0.00025		16.20 1.00554 0.00037
27.90 1.00936 0.00025		16.30 1.00877 0.00036
28.20 1.01157 0.00025		16.40 1.01252 0.00036
28.40 1.01330 0.00025		16.50 1.01441 0.00036
		16.60 1.01846 0.00036

25	30	32
12.60 0.92195 0.00040	11.80 0.91922 0.00042	11.60 0.91963 0.00042
12.70 0.92722 0.00041	11.90 0.92506 0.00043	11.70 0.92580 0.00043
12.80 0.93221 0.00042	12.00 0.93020 0.00043	11.80 0.93148 0.00043
12.90 0.93671 0.00041	12.10 0.93557 0.00042	11.90 0.93797 0.00044
13.00 0.94215 0.00041	12.20 0.94178 0.00043	12.00 0.94391 0.00045
13.10 0.94651 0.00041	12.30 0.94704 0.00042	12.10 0.94918 0.00045
13.20 0.95160 0.00040	12.40 0.95317 0.00043	12.20 0.95456 0.00043
13.30 0.95675 0.00040	12.50 0.95849 0.00042	12.30 0.96001 0.00044
13.40 0.96154 0.00041	12.60 0.96328 0.00043	12.40 0.96657 0.00044
13.50 0.96565 0.00040	12.70 0.96871 0.00043	12.50 0.97109 0.00044
13.60 0.97122 0.00040	12.80 0.97401 0.00042	12.60 0.97691 0.00042
13.70 0.97539 0.00040	12.90 0.97926 0.00042	12.70 0.98177 0.00043
13.80 0.97981 0.00040	13.00 0.98452 0.00042	12.80 0.98715 0.00043
13.90 0.98366 0.00040	13.10 0.98905 0.00043	12.90 0.99308 0.00043
14.00 0.98878 0.00041	13.20 0.99414 0.00042	13.00 0.99894 0.00043
14.10 0.99263 0.00040	13.30 0.99891 0.00042	13.10 1.00349 0.00044
14.20 0.99732 0.00040	13.40 1.00335 0.00042	13.20 1.00796 0.00042
14.30 1.00124 0.00041	13.50 1.00874 0.00042	13.30 1.01317 0.00042
14.40 1.00462 0.00039	13.60 1.01386 0.00042	13.40 1.01764 0.00043
14.50 1.00918 0.00040	13.70 1.01772 0.00043	
14.60 1.01368 0.00040		
14.70 1.01728 0.00040		

35	40	50
11.40 0.92328 0.00045	11.00 0.91894 0.00045	10.60 0.92215 0.00048
11.45 0.92658 0.00044	11.05 0.92318 0.00045	10.65 0.92591 0.00047
11.50 0.93029 0.00045	11.10 0.92658 0.00045	10.70 0.92894 0.00047
11.55 0.93318 0.00044	11.15 0.92955 0.00046	10.75 0.93232 0.00047
11.60 0.93751 0.00046	11.20 0.93304 0.00047	10.80 0.93572 0.00046
11.65 0.93951 0.00045	11.25 0.93590 0.00046	10.85 0.93915 0.00047
11.70 0.94202 0.00044	11.30 0.93978 0.00046	10.90 0.94380 0.00047
11.75 0.94588 0.00044	11.35 0.94263 0.00045	10.95 0.94759 0.00048
11.80 0.94869 0.00045	11.40 0.94575 0.00047	11.00 0.95037 0.00047
11.85 0.95115 0.00044	11.45 0.94902 0.00046	11.05 0.95413 0.00048
11.90 0.95507 0.00045	11.50 0.95295 0.00046	11.10 0.95767 0.00047
11.95 0.95774 0.00044	11.55 0.95561 0.00045	11.15 0.96086 0.00046
12.00 0.96066 0.00044	11.60 0.95894 0.00046	11.20 0.96453 0.00047
12.05 0.96337 0.00046	11.65 0.96177 0.00046	11.25 0.96661 0.00048
12.10 0.96669 0.00043	11.70 0.96512 0.00045	11.30 0.97130 0.00047
12.15 0.96895 0.00043	11.75 0.96872 0.00046	11.35 0.97327 0.00047
12.20 0.97175 0.00044	11.80 0.97172 0.00045	11.40 0.97804 0.00046
12.25 0.97490 0.00044	11.85 0.97448 0.00046	11.45 0.98032 0.00047
12.30 0.97788 0.00044	11.90 0.97718 0.00045	11.50 0.98379 0.00047
12.35 0.98110 0.00044	11.95 0.97913 0.00046	11.55 0.98730 0.00047
12.40 0.98337 0.00044	12.00 0.98294 0.00045	11.60 0.99057 0.00048
12.45 0.98636 0.00044	12.05 0.98602 0.00045	11.65 0.99349 0.00045

12.50 0.99014 0.00044	12.10 0.98993 0.00046	11.70 0.99709 0.00048
12.55 0.99144 0.00043	12.15 0.99216 0.00046	11.75 0.99957 0.00046
12.60 0.99403 0.00043	12.20 0.99513 0.00044	11.80 1.00286 0.00047
12.65 0.99706 0.00044	12.25 0.99824 0.00045	11.85 1.00661 0.00048
12.70 0.99979 0.00044	12.30 1.00095 0.00045	11.90 1.00916 0.00048
12.75 1.00198 0.00044	12.35 1.00475 0.00043	11.95 1.01143 0.00046
12.80 1.00534 0.00044	12.40 1.00755 0.00045	12.00 1.01512 0.00046
12.85 1.00730 0.00044	12.45 1.00976 0.00046	12.05 1.01920 0.00047
12.90 1.01044 0.00044	12.50 1.01217 0.00043	12.10 1.02132 0.00046
12.95 1.01278 0.00043	12.55 1.01582 0.00046	
13.00 1.01558 0.00043	12.60 1.01750 0.00045	
13.05 1.01854 0.00044	12.65 1.02068 0.00044	
13.10 1.02072 0.00043	12.70 1.02319 0.00045	

60	70	80
10.30 0.91731 0.00048	10.20 0.92021 0.00048	10.10 0.92034 0.00050
10.35 0.92264 0.00049	10.25 0.92449 0.00051	10.15 0.92427 0.00048
10.40 0.92532 0.00048	10.30 0.92832 0.00048	10.20 0.92870 0.00050
10.45 0.92835 0.00050	10.35 0.93207 0.00049	10.25 0.93228 0.00049
10.50 0.93328 0.00047	10.40 0.93683 0.00049	10.30 0.93654 0.00050
10.55 0.93639 0.00047	10.45 0.93989 0.00046	10.35 0.94024 0.00050
10.60 0.94099 0.00048	10.50 0.94426 0.00048	10.40 0.94378 0.00049
10.65 0.94389 0.00049	10.55 0.94760 0.00049	10.45 0.94780 0.00049
10.70 0.94767 0.00047	10.60 0.95167 0.00049	10.50 0.95182 0.00049
10.75 0.95167 0.00047	10.65 0.95411 0.00050	10.55 0.95467 0.00048
10.80 0.95475 0.00049	10.70 0.95910 0.00048	10.60 0.95969 0.00050
10.85 0.95738 0.00049	10.75 0.96335 0.00050	10.65 0.96235 0.00050
10.90 0.96182 0.00049	10.80 0.96513 0.00049	10.70 0.96676 0.00051
10.95 0.96659 0.00048	10.85 0.96892 0.00049	10.75 0.96984 0.00049
11.00 0.96903 0.00050	10.90 0.97293 0.00049	10.80 0.97362 0.00050
11.05 0.97288 0.00048	10.95 0.97664 0.00051	10.85 0.97633 0.00050
11.10 0.97529 0.00049	11.00 0.98039 0.00049	10.90 0.98133 0.00049
11.15 0.97879 0.00049	11.05 0.98372 0.00050	10.95 0.98396 0.00051
11.20 0.98256 0.00047	11.10 0.98756 0.00048	11.00 0.98753 0.00050
11.25 0.98753 0.00048	11.15 0.99026 0.00048	11.05 0.99241 0.00050
11.30 0.98902 0.00048	11.20 0.99353 0.00049	11.10 0.99461 0.00050
11.35 0.99297 0.00047	11.25 0.99713 0.00049	11.15 0.99809 0.00050
11.40 0.99665 0.00049	11.30 1.00134 0.00049	11.20 1.00269 0.00050
11.45 1.00011 0.00047	11.35 1.00477 0.00048	11.25 1.00554 0.00049
11.50 1.00302 0.00049	11.40 1.00783 0.00048	11.30 1.00833 0.00049
11.55 1.00525 0.00048	11.45 1.01109 0.00049	11.35 1.01197 0.00049
11.60 1.01022 0.00048	11.50 1.01476 0.00049	11.40 1.01595 0.00048
11.65 1.01287 0.00049	11.55 1.01748 0.00048	11.45 1.01829 0.00049
11.70 1.01609 0.00047	11.60 1.02033 0.00050	11.50 1.02164 0.00050
11.75 1.01841 0.00050		
11.80 1.02307 0.00046		

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90	100	120
10.00 0.91731 0.00051	9.90 0.91220 0.00052	10.00 0.92002 0.00051
10.05 0.92104 0.00050	9.95 0.91610 0.00048	10.05 0.92415 0.00050
10.10 0.92520 0.00050	10.00 0.91980 0.00049	10.10 0.92797 0.00051
10.15 0.92786 0.00049	10.05 0.92464 0.00051	10.15 0.93177 0.00051
10.20 0.93301 0.00049	10.10 0.92855 0.00050	10.20 0.93560 0.0005
10.25 0.93594 0.00051	10.15 0.93181 0.00050	10.25 0.94013 0.00050
10.30 0.94011 0.00050	10.20 0.93613 0.00050	10.30 0.94428 0.00050
10.35 0.94468 0.00049	10.25 0.94037 0.00051	10.35 0.94787 0.00052
10.40 0.94801 0.00050	10.30 0.94432 0.00050	10.40 0.95128 0.00048
10.45 0.95146 0.00049	10.35 0.94767 0.00051	10.45 0.95542 0.00050
10.50 0.95651 0.00050	10.40 0.94996 0.00051	10.50 0.95857 0.00050
10.55 0.96031 0.00048	10.45 0.95600 0.00051	10.55 0.96325 0.00051
10.60 0.96278 0.00050	10.50 0.95882 0.00051	10.60 0.96653 0.00050
10.65 0.96701 0.00050	10.55 0.96296 0.00049	10.65 0.96941 0.00051
10.70 0.97070 0.00050	10.60 0.96680 0.00049	10.70 0.97426 0.00050
10.75 0.97424 0.00050	10.65 0.97061 0.00050	10.75 0.97863 0.00051
10.80 0.97842 0.00048	10.70 0.97377 0.00049	10.80 0.98160 0.00050
10.85 0.98195 0.00049	10.75 0.97827 0.00050	10.85 0.98559 0.00049
10.90 0.98530 0.00049	10.80 0.98188 0.00050	10.90 0.98818 0.00050
10.95 0.98839 0.00050	10.85 0.98458 0.00050	10.95 0.99178 0.00049
11.00 0.99232 0.00048	10.90 0.98862 0.00049	11.00 0.99596 0.00052
11.05 0.99699 0.00048	10.95 0.99257 0.00050	11.05 0.99985 0.00051
11.10 0.99995 0.00050	11.00 0.99503 0.00051	11.10 1.00178 0.00052
11.15 1.00321 0.00049	11.05 0.99903 0.00051	11.15 1.00603 0.00050
11.20 1.00484 0.00049	11.10 1.00296 0.00049	11.20 1.00944 0.00052
11.25 1.01056 0.00049	11.15 1.00583 0.00051	11.25 1.01359 0.00050
11.30 1.01356 0.00049	11.20 1.00930 0.00051	11.30 1.01603 0.00050
11.35 1.01637 0.00051	11.25 1.01350 0.00050	11.35 1.01937 0.00051
11.40 1.02042 0.00051	11.30 1.01579 0.00049	11.40 1.02291 0.00050
	11.35 1.01984 0.00050	
	11.40 1.02307 0.00049	

130	150	200
10.00 0.91978 0.00051	10.00 0.91747 0.00051	10.10 0.91488 0.00049
10.05 0.92431 0.00050	10.05 0.92165 0.00050	10.15 0.91966 0.00050
10.10 0.92748 0.00049	10.10 0.92536 0.00052	10.20 0.92230 0.00049
10.15 0.93193 0.00050	10.15 0.92908 0.00049	10.25 0.92758 0.00051
10.20 0.93628 0.00050	10.20 0.93436 0.00050	10.30 0.93205 0.00051
10.25 0.94047 0.00051	10.25 0.93757 0.00051	10.35 0.93499 0.00051
10.30 0.94357 0.00051	10.30 0.94110 0.00049	10.40 0.93867 0.00050
10.35 0.94766 0.00051	10.35 0.94517 0.00050	10.45 0.94200 0.00050
10.40 0.95245 0.00050	10.40 0.94883 0.00052	10.50 0.94644 0.00049
10.45 0.95452 0.00051	10.45 0.95252 0.00052	10.55 0.95006 0.00049
10.50 0.95863 0.00050	10.50 0.95625 0.00050	10.60 0.95311 0.00051
10.55 0.96296 0.00051	10.55 0.95920 0.00050	10.65 0.95868 0.00051
10.60 0.96634 0.00050	10.60 0.96483 0.00052	10.70 0.96066 0.00051

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10.65 0.97041 0.00051	10.65 0.96759 0.00050	10.75 0.96385 0.00050
10.70 0.97443 0.00049	10.70 0.97160 0.00050	10.80 0.96717 0.00050
10.75 0.97701 0.00052	10.75 0.97526 0.00050	10.85 0.97183 0.00050
10.80 0.98138 0.00053	10.80 0.97910 0.00050	10.90 0.97655 0.00050
10.85 0.98475 0.00051	10.85 0.98267 0.00049	10.95 0.97866 0.00051
10.90 0.98773 0.00050	10.90 0.98547 0.00050	11.00 0.98157 0.00050
10.95 0.99142 0.00049	10.95 0.98881 0.00050	11.05 0.98498 0.00051
11.00 0.99567 0.00052	11.00 0.99263 0.00052	11.10 0.98930 0.00051
11.05 1.00015 0.00051	11.05 0.99665 0.00051	11.15 0.99253 0.00050
11.10 1.00190 0.00052	11.10 1.00013 0.00050	11.20 0.99632 0.00051
11.15 1.00573 0.00049	11.15 1.00261 0.00050	11.25 0.99975 0.00050
11.20 1.01029 0.00050	11.20 1.00709 0.00050	11.30 1.00319 0.00050
11.25 1.01321 0.00052	11.25 1.01016 0.00050	11.35 1.00521 0.00049
11.30 1.01615 0.00051	11.30 1.01333 0.00053	11.40 1.00900 0.00051
11.35 1.01897 0.00050	11.35 1.01761 0.00049	11.45 1.01300 0.00050
11.40 1.02386 0.00050	11.40 1.02052 0.00052	11.50 1.01648 0.00051
		11.55 1.02010 0.00051
		11.60 1.02151 0.00051

239	250	359
10.30 0.92179 0.00050	10.30 0.91958 0.00050	10.60 0.91775 0.00050
10.35 0.92566 0.00051	10.35 0.92333 0.00049	10.65 0.92158 0.00049
10.40 0.92938 0.00049	10.40 0.92698 0.00050	10.70 0.92489 0.00051
10.45 0.93379 0.00050	10.45 0.93083 0.00052	10.75 0.92747 0.00050
10.50 0.93727 0.00049	10.50 0.93445 0.00050	10.80 0.93185 0.00050
10.55 0.93998 0.00051	10.55 0.93931 0.00051	10.85 0.93477 0.00050
10.60 0.94404 0.00049	10.60 0.94173 0.00051	10.90 0.93975 0.00050
10.65 0.94785 0.00050	10.65 0.94602 0.00049	10.95 0.94258 0.00049
10.70 0.95136 0.00050	10.70 0.94884 0.00050	11.00 0.94639 0.00049
10.75 0.95461 0.00051	10.75 0.95258 0.00051	11.05 0.94934 0.00050
10.80 0.95833 0.00049	10.80 0.95510 0.00051	11.10 0.95338 0.00050
10.85 0.96227 0.00049	10.85 0.95991 0.00050	11.15 0.95630 0.00049
10.90 0.96642 0.00051	10.90 0.96309 0.00051	11.20 0.96047 0.00049
10.95 0.96995 0.00050	10.95 0.96632 0.00050	11.25 0.96355 0.00050
11.00 0.97311 0.00052	11.00 0.96945 0.00052	11.30 0.96560 0.00049
11.05 0.97550 0.00050	11.05 0.97505 0.00052	11.35 0.97001 0.00050
11.10 0.97920 0.00050	11.10 0.97781 0.00049	11.40 0.97298 0.00051
11.15 0.98309 0.00051	11.15 0.98119 0.00051	11.45 0.97634 0.00050
11.20 0.98607 0.00050	11.20 0.98349 0.00049	11.50 0.97932 0.00048
11.25 0.99110 0.00051	11.25 0.98755 0.00051	11.55 0.98254 0.00048
11.30 0.99324 0.00052	11.30 0.99101 0.00050	11.60 0.98541 0.00049
11.35 0.99696 0.00049	11.35 0.99416 0.00051	11.65 0.98850 0.00050
11.40 0.99975 0.00050	11.40 0.99676 0.00051	11.70 0.99278 0.00050
11.45 1.00378 0.00051	11.45 1.00018 0.00049	11.75 0.99537 0.00050
11.50 1.00644 0.00051	11.50 1.00299 0.00051	11.80 0.99857 0.00052
11.55 1.00960 0.00050	11.55 1.00688 0.00049	11.85 1.00075 0.00049
11.60 1.01294 0.00051	11.60 1.01046 0.00050	11.90 1.00461 0.00050
11.65 1.01546 0.00050	11.65 1.01358 0.00050	11.95 1.00735 0.00050
11.70 1.01928 0.00049	11.70 1.01615 0.00051	12.00 1.01050 0.00050
	11.75 1.01912 0.00051	12.05 1.01360 0.00049
	11.80 1.02238 0.00050	12.10 1.01680 0.00051

12.15 1.01920 0.00051
12.20 1.02355 0.00051

478	500	600
10.90 0.91845 0.00048	11.00 0.92219 0.00049	11.20 0.91732 0.00051
10.95 0.92213 0.00048	11.05 0.92557 0.00049	11.25 0.92082 0.00048
11.00 0.92607 0.00050	11.10 0.92909 0.00051	11.30 0.92410 0.00050
11.05 0.92880 0.00049	11.15 0.93290 0.00048	11.35 0.92754 0.00049
11.10 0.93286 0.00050	11.20 0.93605 0.00050	11.40 0.93224 0.00049
11.15 0.93602 0.00050	11.25 0.93917 0.00049	11.45 0.93490 0.00049
11.20 0.94008 0.00048	11.30 0.94159 0.00049	11.50 0.93718 0.00048
11.25 0.94258 0.00049	11.35 0.94593 0.00049	11.55 0.94093 0.00049
11.30 0.94608 0.00049	11.40 0.94855 0.00049	11.60 0.94464 0.00050
11.35 0.94868 0.00050	11.45 0.95166 0.00048	11.65 0.94796 0.00048
11.40 0.95270 0.00051	11.50 0.95628 0.00051	11.70 0.95035 0.00048
11.45 0.95596 0.00049	11.55 0.95871 0.00049	11.75 0.95352 0.00049
11.50 0.95925 0.00051	11.60 0.96213 0.00048	11.80 0.95709 0.00049
11.55 0.96220 0.00050	11.65 0.96566 0.00049	11.85 0.96049 0.00050
11.60 0.96573 0.00050	11.70 0.96856 0.00050	11.90 0.96328 0.00049
11.65 0.96930 0.00049	11.75 0.97126 0.00050	11.95 0.96673 0.00049
11.70 0.97215 0.00049	11.80 0.97544 0.00048	12.00 0.97054 0.00048
11.75 0.97559 0.00050	11.85 0.97887 0.00049	12.05 0.97261 0.00049
11.80 0.97847 0.00049	11.90 0.98189 0.00049	12.10 0.97562 0.00048
11.85 0.98185 0.00048	11.95 0.98403 0.00049	12.15 0.97813 0.00049
11.90 0.98450 0.00050	12.00 0.98816 0.00050	12.20 0.98280 0.00050
11.95 0.98823 0.00050	12.05 0.98981 0.00050	12.25 0.98465 0.00050
12.00 0.99066 0.00050	12.10 0.99338 0.00048	12.30 0.98803 0.00049
12.05 0.99412 0.00050	12.15 0.99681 0.00049	12.35 0.99061 0.00050
12.10 0.99734 0.00050	12.20 0.99908 0.00050	12.40 0.99283 0.00050
12.15 0.99899 0.00049	12.25 1.00238 0.00050	12.45 0.99686 0.00048
12.20 1.00345 0.00050	12.30 1.00652 0.00049	12.50 0.99913 0.00048
12.25 1.00595 0.00049	12.35 1.00815 0.00050	12.55 1.00322 0.00048
12.30 1.00817 0.00050	12.40 1.01171 0.00051	12.60 1.00565 0.00048
12.35 1.01149 0.00050	12.45 1.01344 0.00048	12.65 1.00811 0.00049
12.40 1.01440 0.00048	12.50 1.01699 0.00050	12.70 1.01031 0.00048
12.45 1.01781 0.00051	12.55 1.01982 0.00049	12.75 1.01369 0.00050
12.50 1.02058 0.00048	12.60 1.02323 0.00050	12.80 1.01700 0.00049
		12.85 1.01945 0.00049
		12.90 1.02266 0.00048

650	700	750
11.40 0.92065 0.00049	11.60 0.92112 0.00050	11.80 0.91469 0.00047
11.45 0.92454 0.00047	11.65 0.92486 0.00047	11.85 0.91946 0.00050
11.50 0.92779 0.00048	11.70 0.92729 0.00048	11.90 0.92248 0.00049
11.55 0.93056 0.00051	11.75 0.92957 0.00049	11.95 0.92558 0.00048
11.60 0.93481 0.00048	11.80 0.93325 0.00050	12.00 0.92961 0.00048
11.65 0.93768 0.00049	11.85 0.93681 0.00049	12.05 0.93175 0.00048

11.70 0.94082 0.00049	11.90 0.94010 0.00050	12.10 0.93448 0.00047
11.75 0.94327 0.00049	11.95 0.94248 0.00049	12.15 0.93827 0.00049
11.80 0.94739 0.00048	12.00 0.94622 0.00048	12.20 0.94171 0.00047
11.85 0.94971 0.00048	12.05 0.94894 0.00049	12.25 0.94452 0.00048
11.90 0.95356 0.00048	12.10 0.95253 0.00048	12.30 0.94741 0.00049
11.95 0.95722 0.00049	12.15 0.95504 0.00049	12.35 0.95184 0.00048
12.00 0.95975 0.00049	12.20 0.95845 0.00049	12.40 0.95411 0.00049
12.05 0.96278 0.00048	12.25 0.96260 0.00047	12.45 0.95682 0.00046
12.10 0.96575 0.00049	12.30 0.96492 0.00048	12.50 0.95952 0.00048
12.15 0.96954 0.00048	12.35 0.96780 0.00049	12.55 0.96332 0.00047
12.20 0.97213 0.00049	12.40 0.97158 0.00047	12.60 0.96607 0.00048
12.25 0.97418 0.00049	12.45 0.97412 0.00048	12.65 0.96803 0.00048
12.30 0.97863 0.00048	12.50 0.97794 0.00049	12.70 0.97241 0.00047
12.35 0.98066 0.00049	12.55 0.97985 0.00049	12.75 0.97548 0.00048
12.40 0.98458 0.00049	12.60 0.98367 0.00048	12.80 0.97858 0.00049
12.45 0.98759 0.00048	12.65 0.98595 0.00049	12.85 0.98137 0.00048
12.50 0.98979 0.00048	12.70 0.98890 0.00048	12.90 0.98318 0.00048
12.55 0.99346 0.00048	12.75 0.99134 0.00048	12.95 0.98715 0.00048
12.60 0.99571 0.00047	12.80 0.99467 0.00047	13.00 0.98997 0.00048
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12.70 1.00198 0.00048	12.90 1.00052 0.00049	13.10 0.99498 0.00049
12.75 1.00453 0.00049	12.95 1.00344 0.00049	13.15 0.99855 0.00049
12.80 1.00690 0.00048	13.00 1.00538 0.00048	13.20 1.00060 0.00048
12.85 1.01027 0.00049	13.05 1.00890 0.00047	13.25 1.00385 0.00048
12.90 1.01303 0.00049	13.10 1.01097 0.00048	13.30 1.00602 0.00048
12.95 1.01611 0.00049	13.15 1.01347 0.00049	13.35 1.00934 0.00049
13.00 1.01825 0.00049	13.20 1.01645 0.00048	13.40 1.01181 0.00048
	13.25 1.02061 0.00048	13.45 1.01491 0.00047
	13.30 1.02296 0.00048	13.50 1.01730 0.00048

760	765	770
11.90 0.91827 0.00048	11.90 0.91530 0.00046	12.00 0.92017 0.00046
11.95 0.92170 0.00049	12.00 0.92266 0.00048	12.05 0.92304 0.00049
12.00 0.92447 0.00049	12.10 0.92911 0.00048	12.10 0.92596 0.00048
12.05 0.92868 0.00048	12.20 0.93478 0.00049	12.15 0.92955 0.00049
12.10 0.93030 0.00049	12.30 0.94199 0.00048	12.20 0.93277 0.00047
12.15 0.93496 0.00046	12.40 0.94771 0.00049	12.25 0.93585 0.00047
12.20 0.93741 0.00047	12.50 0.95372 0.00049	12.30 0.93920 0.00049
12.25 0.94000 0.00049	12.60 0.95993 0.00048	12.35 0.94212 0.00049
12.30 0.94304 0.00046	12.70 0.96449 0.00048	12.40 0.94594 0.00048
12.35 0.94760 0.00046	12.80 0.97200 0.00049	12.45 0.94850 0.00049
12.40 0.95114 0.00048	12.90 0.97763 0.00049	12.50 0.95102 0.00047
12.45 0.95420 0.00049	13.00 0.98277 0.00047	12.55 0.95408 0.00048
12.50 0.95551 0.00047	13.10 0.99033 0.00048	12.60 0.95752 0.00048
12.55 0.95981 0.00048	13.20 0.99567 0.00047	12.65 0.96072 0.00047
12.60 0.96226 0.00049	13.30 1.00066 0.00047	12.70 0.96320 0.00048
12.65 0.96602 0.00048	13.40 1.00700 0.00048	12.75 0.96724 0.00047
12.70 0.96904 0.00048	13.50 1.01128 0.00049	12.80 0.96913 0.00049
12.75 0.97160 0.00047	13.60 1.01640 0.00049	12.85 0.97222 0.00050
12.80 0.97344 0.00048	13.70 1.02247 0.00049	12.90 0.97465 0.00050

12.85 0.97664 0.00049	12.95 0.97854 0.00049
12.90 0.97982 0.00048	13.00 0.98022 0.00048
12.95 0.98335 0.00049	13.05 0.98386 0.00049
13.00 0.98588 0.00047	13.10 0.98665 0.00049
13.05 0.98928 0.00049	13.15 0.98975 0.00048
13.10 0.99089 0.00048	13.20 0.99282 0.00050
13.15 0.99454 0.00050	13.25 0.99468 0.00047
13.20 0.99737 0.00048	13.30 0.99732 0.00048
13.25 1.00057 0.00048	13.35 1.00072 0.00048
13.30 1.00321 0.00049	13.40 1.00403 0.00048
13.35 1.00501 0.00048	13.45 1.00763 0.00047
13.40 1.00829 0.00049	13.50 1.00991 0.00049
13.45 1.01124 0.00048	13.55 1.01094 0.00048
13.50 1.01359 0.00048	13.60 1.01429 0.00048
13.55 1.01666 0.00048	13.65 1.01846 0.00047
13.60 1.01915 0.00048	13.70 1.02066 0.00049

775

0

12.00 0.91899 0.00048
12.05 0.92138 0.00047
12.10 0.92510 0.00048
12.15 0.92862 0.00048
12.20 0.93156 0.00048
12.25 0.93474 0.00048
12.30 0.93747 0.00047
12.35 0.94066 0.00048
12.40 0.94413 0.00048
12.45 0.94741 0.00048
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12.55 0.95227 0.00048
12.60 0.95593 0.00048
12.65 0.95984 0.00046
12.70 0.96174 0.00048
12.75 0.96516 0.00048
12.80 0.96850 0.00048
12.85 0.97155 0.00048
12.90 0.97344 0.00047
12.95 0.97663 0.00047
13.00 0.97946 0.00049
13.05 0.98306 0.00048
13.10 0.98512 0.00047
13.15 0.98844 0.00048
13.20 0.99129 0.00049
13.25 0.99343 0.00049
13.30 0.99619 0.00048
13.35 0.99853 0.00048
13.40 1.00246 0.00048
13.45 1.00546 0.00049
13.50 1.00776 0.00049
13.55 1.01135 0.00049
13.60 1.01334 0.00049

13.65 1.01622 0.00048
 13.70 1.01918 0.00048

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12	15	20
19.20 0.92648 0.00027	15.10 0.92442 0.00032	12.30 0.92207 0.00036
19.50 0.93119 0.00028	15.30 0.93060 0.00031	12.40 0.92599 0.00036
19.80 0.93598 0.00028	15.50 0.93495 0.00032	12.50 0.93023 0.00036
20.10 0.94056 0.00028	15.70 0.94078 0.00032	12.60 0.93433 0.00037
20.40 0.94547 0.00027	15.90 0.94579 0.00032	12.70 0.93785 0.00036
20.70 0.94920 0.00027	16.10 0.95018 0.00031	12.80 0.94223 0.00036
21.00 0.95386 0.00026	16.30 0.95522 0.00032	12.90 0.94646 0.00037
21.30 0.95783 0.00027	16.50 0.96054 0.00031	13.00 0.94945 0.00036
21.60 0.96085 0.00026	16.70 0.96454 0.00031	13.10 0.95373 0.00036
21.90 0.96506 0.00026	16.90 0.96918 0.00030	13.20 0.95776 0.00036
22.20 0.96877 0.00026	17.10 0.97352 0.00030	13.30 0.96179 0.00036
22.50 0.97206 0.00026	17.30 0.97783 0.00031	13.40 0.96463 0.00036
22.80 0.97558 0.00026	17.50 0.98222 0.00030	13.50 0.96948 0.00036
23.10 0.97905 0.00026	17.70 0.98627 0.00030	13.60 0.97193 0.00035
23.40 0.98224 0.00025	17.90 0.99040 0.00030	13.70 0.97593 0.00035
23.70 0.98499 0.00026	18.10 0.99406 0.00030	13.80 0.97978 0.00035
24.00 0.98760 0.00025	18.30 0.99815 0.00031	13.90 0.98246 0.00037
24.30 0.99159 0.00026	18.50 1.00236 0.00030	14.00 0.98630 0.00035
24.60 0.99411 0.00025	18.70 1.00629 0.00030	14.10 0.99008 0.00036
24.90 0.99701 0.00026	18.90 1.00908 0.00030	14.20 0.99255 0.00036
25.20 1.00002 0.00025	19.10 1.01274 0.00030	14.30 0.99589 0.00035
25.50 1.00260 0.00025	19.20 1.01439 0.00029	14.40 0.99858 0.00035
25.80 1.00487 0.00025		14.50 1.00238 0.00036
26.10 1.00793 0.00024		14.60 1.00507 0.00036
26.40 1.00981 0.00024		14.70 1.00829 0.00036
26.70 1.01271 0.00024		14.80 1.01223 0.00035
26.80 1.01267 0.00023		14.90 1.01430 0.00035

25	30	32
11.00 0.92131 0.00040	10.30 0.92412 0.00042	10.00 0.91939 0.00042
11.10 0.92724 0.00040	10.40 0.92981 0.00040	10.10 0.92561 0.00044
11.20 0.93172 0.00039	10.50 0.93591 0.00042	10.20 0.93125 0.00043
11.30 0.93652 0.00038	10.60 0.94045 0.00041	10.30 0.93795 0.00041
11.40 0.94178 0.00039	10.70 0.94735 0.00041	10.40 0.94363 0.00042
11.50 0.94684 0.00039	10.80 0.95252 0.00040	10.50 0.94884 0.00040
11.60 0.95178 0.00039	10.90 0.95789 0.00043	10.60 0.95461 0.00042
11.70 0.95634 0.00040	11.00 0.96367 0.00041	10.70 0.96070 0.00042
11.80 0.96139 0.00038	11.10 0.96867 0.00041	10.80 0.96596 0.00042
11.90 0.96511 0.00040	11.20 0.97459 0.00040	10.90 0.97125 0.00041
12.00 0.97038 0.00040	11.30 0.97925 0.00042	11.00 0.97679 0.00041
12.10 0.97565 0.00039	11.40 0.98343 0.00041	11.10 0.98316 0.00043
12.20 0.97973 0.00038	11.50 0.98893 0.00041	11.20 0.98739 0.00042
12.30 0.98274 0.00039	11.60 0.99509 0.00042	11.30 0.99241 0.00041

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12.40 0.98805 0.00038	11.70 0.99865 0.00041	11.40 0.99788 0.00041
12.50 0.99331 0.00039	11.80 1.00381 0.00041	11.50 1.00313 0.00040
12.60 0.99595 0.00039	11.90 1.00906 0.00040	11.60 1.00766 0.00041
12.70 1.00120 0.00038	12.00 1.01417 0.00040	11.70 1.01403 0.00042
12.80 1.00514 0.00039	12.10 1.01798 0.00040	11.80 1.01830 0.00043
12.90 1.00973 0.00038		
13.00 1.01255 0.00039		
13.10 1.01736 0.00039		

35	40	50
9.80 0.92384 0.00042	9.40 0.92025 0.00044	9.00 0.92326 0.00044
9.85 0.92733 0.00043	9.45 0.92295 0.00043	9.05 0.92550 0.00044
9.90 0.92984 0.00043	9.50 0.92745 0.00045	9.10 0.93010 0.00046
9.95 0.93299 0.00042	9.55 0.92941 0.00044	9.15 0.93369 0.00045
10.00 0.93604 0.00043	9.60 0.93304 0.00043	9.20 0.93661 0.00046
10.05 0.93995 0.00043	9.65 0.93630 0.00044	9.25 0.94078 0.00045
10.10 0.94240 0.00042	9.75 0.94295 0.00044	9.30 0.94456 0.00044
10.15 0.94550 0.00042	9.80 0.94665 0.00045	9.35 0.94752 0.00044
10.20 0.94801 0.00043	9.85 0.94955 0.00044	9.40 0.95104 0.00046
10.25 0.95185 0.00043	9.90 0.95293 0.00044	9.45 0.95427 0.00046
10.30 0.95458 0.00042	9.95 0.95582 0.00043	9.50 0.95851 0.00046
10.35 0.95706 0.00043	10.00 0.95990 0.00044	9.55 0.96146 0.00045
10.40 0.96075 0.00043	10.05 0.96306 0.00044	9.60 0.96434 0.00045
10.45 0.96367 0.00043	10.10 0.96560 0.00044	9.65 0.96825 0.00046
10.50 0.96622 0.00043	10.15 0.96821 0.00044	9.70 0.97160 0.00046
10.55 0.96896 0.00042	10.20 0.97217 0.00044	9.75 0.97437 0.00046
10.60 0.97222 0.00044	10.25 0.97507 0.00044	9.80 0.97793 0.00045
10.65 0.97467 0.00043	10.30 0.97796 0.00044	9.85 0.98173 0.00045
10.70 0.97784 0.00043	10.35 0.98069 0.00044	9.90 0.98412 0.00044
10.75 0.98080 0.00041	10.40 0.98470 0.00044	9.95 0.98788 0.00045
10.80 0.98344 0.00042	10.45 0.98663 0.00044	10.00 0.99112 0.00044
10.85 0.98655 0.00042	10.50 0.98975 0.00043	10.05 0.99459 0.00046
10.90 0.98900 0.00043	10.55 0.99191 0.00045	10.10 0.99788 0.00045
10.95 0.99108 0.00043	10.60 0.99539 0.00042	10.15 1.00195 0.00045
11.00 0.99437 0.00043	10.65 0.99833 0.00044	10.20 1.00299 0.00045
11.05 0.99760 0.00043	10.70 1.00189 0.00043	10.25 1.00703 0.00045
11.10 1.00034 0.00041	10.75 1.00462 0.00043	10.30 1.01001 0.00046
11.15 1.00333 0.00042	10.80 1.00791 0.00044	10.35 1.01322 0.00047
11.20 1.00555 0.00041	10.85 1.01012 0.00043	10.40 1.01597 0.00044
11.25 1.00775 0.00042	10.90 1.01270 0.00044	10.45 1.01903 0.00044
11.30 1.01026 0.00043	10.95 1.01467 0.00044	10.50 1.02147 0.00044
11.35 1.01319 0.00041	11.00 1.01827 0.00043	
11.40 1.01572 0.00044		
11.45 1.01861 0.00042		
11.50 1.02134 0.00042		

60	70	80
8.70 0.91926 0.00047	8.50 0.91494 0.00048	8.40 0.91510 0.00046
8.75 0.92306 0.00046	8.55 0.91913 0.00047	8.45 0.91881 0.00047
8.80 0.92656 0.00047	8.60 0.92248 0.00046	8.50 0.92237 0.00047
8.85 0.93105 0.00047	8.65 0.92689 0.00047	8.55 0.92739 0.00048
8.90 0.93544 0.00046	8.70 0.93045 0.00048	8.60 0.93178 0.00047
8.95 0.93864 0.00047	8.75 0.93422 0.00047	8.65 0.93558 0.00046
9.00 0.94091 0.00046	8.80 0.93912 0.00047	8.70 0.93931 0.00049
9.05 0.94578 0.00046	8.85 0.94212 0.00047	8.75 0.94265 0.00047
9.10 0.94881 0.00047	8.90 0.94589 0.00045	8.80 0.94680 0.00048
9.15 0.95264 0.00045	8.95 0.94977 0.00047	8.85 0.95068 0.00047
9.20 0.95654 0.00048	9.00 0.95269 0.00047	8.90 0.95512 0.00048
9.25 0.95896 0.00046	9.05 0.95736 0.00047	8.95 0.95753 0.00047
9.30 0.96377 0.00046	9.10 0.96053 0.00047	9.00 0.96124 0.00046
9.35 0.96696 0.00046	9.15 0.96381 0.00046	9.05 0.96470 0.00047
9.40 0.97059 0.00044	9.20 0.96757 0.00047	9.10 0.96857 0.00048
9.45 0.97388 0.00047	9.25 0.97135 0.00047	9.15 0.97234 0.00048
9.50 0.97707 0.00047	9.30 0.97560 0.00048	9.20 0.97572 0.00047
9.55 0.98148 0.00048	9.35 0.97901 0.00047	9.25 0.98042 0.00047
9.60 0.98491 0.00046	9.40 0.98231 0.00049	9.30 0.98292 0.00047
9.65 0.98794 0.00045	9.45 0.98615 0.00047	9.35 0.98667 0.00048
9.70 0.99162 0.00046	9.50 0.98972 0.00047	9.40 0.99099 0.00048
9.75 0.99458 0.00046	9.55 0.99206 0.00046	9.45 0.99358 0.00048
9.80 0.99714 0.00045	9.60 0.99629 0.00046	9.50 0.99771 0.00048
9.85 1.00193 0.00046	9.65 0.99855 0.00047	9.55 1.00072 0.00047
9.90 1.00475 0.00047	9.70 1.00393 0.00047	9.60 1.00503 0.00048
9.95 1.00764 0.00045	9.75 1.00635 0.00048	9.65 1.00732 0.00049
10.00 1.01034 0.00045	9.80 1.00928 0.00047	9.70 1.01214 0.00049
10.05 1.01464 0.00047	9.85 1.01254 0.00047	9.75 1.01407 0.00047
10.10 1.01788 0.00046	9.90 1.01602 0.00048	9.80 1.01709 0.00048
10.15 1.02065 0.00047	9.95 1.01998 0.00047	
10.20 1.02265 0.00046	10.00 1.02336 0.00049	
90	100	120
8.40 0.92052 0.00047	8.40 0.92287 0.00049	8.30 0.91671 0.00048
8.45 0.92424 0.00048	8.45 0.92739 0.00049	8.35 0.92057 0.00050
8.50 0.92735 0.00048	8.50 0.93100 0.00047	8.40 0.92526 0.00049
8.55 0.93098 0.00048	8.55 0.93529 0.00050	8.45 0.92872 0.00049
8.60 0.93634 0.00047	8.60 0.93955 0.00048	8.50 0.93262 0.00049
8.65 0.93998 0.00049	8.65 0.94383 0.00047	8.55 0.93745 0.00048
8.70 0.94325 0.00047	8.70 0.94723 0.00049	8.60 0.94026 0.00048
8.75 0.94764 0.00048	8.75 0.95057 0.00048	8.65 0.94421 0.00048
8.80 0.95143 0.00048	8.80 0.95440 0.00048	8.70 0.94850 0.00051
8.85 0.95452 0.00047	8.85 0.95867 0.00047	8.75 0.95289 0.00049
8.90 0.95846 0.00049	8.90 0.96285 0.00050	8.80 0.95651 0.00050
8.95 0.96236 0.00049	8.95 0.96617 0.00049	8.85 0.96002 0.00049
9.00 0.96652 0.00048	9.00 0.96971 0.00048	8.90 0.96265 0.00048

9.05 0.96994 0.00048	9.05 0.97377 0.00048	8.95 0.96771 0.00050
9.10 0.97332 0.00048	9.10 0.97806 0.00048	9.00 0.97063 0.00048
9.15 0.97742 0.00049	9.15 0.98135 0.00049	9.05 0.97438 0.00049
9.20 0.98123 0.00047	9.20 0.98383 0.00049	9.10 0.97781 0.00049
9.25 0.98547 0.00048	9.25 0.98784 0.00047	9.15 0.98263 0.00047
9.30 0.98871 0.00048	9.30 0.99155 0.00048	9.20 0.98587 0.00048
9.35 0.99206 0.00049	9.35 0.99467 0.00049	9.25 0.98907 0.00048
9.40 0.99663 0.00048	9.40 0.99871 0.00049	9.30 0.99239 0.00048
9.45 0.99802 0.00048	9.45 1.00286 0.00049	9.35 0.99705 0.00049
9.50 1.00220 0.00047	9.50 1.00613 0.00049	9.40 0.99937 0.00049
9.55 1.00603 0.00049	9.55 1.00956 0.00049	9.45 1.00276 0.00049
9.60 1.00878 0.00049	9.60 1.01219 0.00049	9.50 1.00641 0.00050
9.65 1.01218 0.00049	9.65 1.01602 0.00049	9.55 1.01001 0.00049
9.70 1.01622 0.00048	9.70 1.01978 0.00048	9.60 1.01304 0.00049
9.75 1.01918 0.00049		9.65 1.01610 0.00049
9.80 1.02341 0.00048		9.70 1.02088 0.00049

130	150	200
8.40 0.92579 0.00049	8.30 0.91543 0.00048	8.50 0.92274 0.00049
8.45 0.92952 0.00049	8.35 0.91986 0.00049	8.55 0.92587 0.00049
8.50 0.93217 0.00049	8.40 0.92351 0.00048	8.60 0.93007 0.00048
8.55 0.93753 0.00048	8.45 0.92723 0.00048	8.65 0.93469 0.00048
8.60 0.94131 0.00048	8.50 0.93195 0.00048	8.70 0.93799 0.00048
8.65 0.94447 0.00049	8.55 0.93505 0.00049	8.75 0.94116 0.00051
8.70 0.94814 0.00048	8.60 0.93841 0.00048	8.80 0.94534 0.00048
8.75 0.95275 0.00049	8.65 0.94289 0.00049	8.85 0.94915 0.00048
8.80 0.95632 0.00049	8.70 0.94569 0.00050	8.90 0.95261 0.00050
8.85 0.95956 0.00049	8.75 0.95017 0.00049	8.95 0.95609 0.00050
8.90 0.96357 0.00049	8.80 0.95347 0.00050	9.00 0.95986 0.00050
8.95 0.96811 0.00048	8.85 0.95846 0.00048	9.05 0.96328 0.00049
9.00 0.97128 0.00049	8.90 0.96130 0.00049	9.10 0.96588 0.00048
9.05 0.97535 0.00049	8.95 0.96541 0.00050	9.15 0.97050 0.00049
9.10 0.97795 0.00048	9.00 0.96937 0.00049	9.20 0.97457 0.00049
9.15 0.98293 0.00049	9.05 0.97255 0.00049	9.25 0.97802 0.00050
9.20 0.98590 0.00050	9.10 0.97641 0.00049	9.30 0.98252 0.00049
9.25 0.98960 0.00049	9.15 0.98041 0.00050	9.35 0.98440 0.00049
9.30 0.99187 0.00047	9.20 0.98396 0.00048	9.40 0.98885 0.00050
9.35 0.99586 0.00048	9.25 0.98776 0.00049	9.45 0.99173 0.00049
9.40 1.00045 0.00048	9.30 0.99040 0.00050	9.50 0.99565 0.00049
9.45 1.00273 0.00048	9.35 0.99472 0.00051	9.55 0.99794 0.00048
9.50 1.00574 0.00050	9.40 0.99724 0.00049	9.60 1.00269 0.00048
9.55 1.01017 0.00048	9.45 1.00160 0.00049	9.65 1.00535 0.00049
9.60 1.01281 0.00049	9.50 1.00529 0.00048	9.70 1.00822 0.00049
9.65 1.01662 0.00049	9.55 1.00814 0.00049	9.75 1.01202 0.00048
9.70 1.02053 0.00048	9.60 1.01123 0.00049	9.80 1.01465 0.00047
	9.65 1.01471 0.00049	9.85 1.01763 0.00048
	9.70 1.01822 0.00050	9.90 1.02165 0.00049

239	250	359
8.60 0.92213 0.00048	8.60 0.92064 0.00050	8.90 0.91914 0.00049
8.65 0.92557 0.00048	8.65 0.92281 0.00048	8.95 0.92327 0.00049
8.70 0.92914 0.00048	8.70 0.92767 0.00050	9.00 0.92699 0.00049
8.75 0.93340 0.00049	8.75 0.93129 0.00049	9.05 0.93043 0.00050
8.80 0.93653 0.00050	8.80 0.93490 0.00048	9.10 0.93460 0.00048
8.85 0.94132 0.00048	8.85 0.93872 0.00049	9.15 0.93706 0.00048
8.90 0.94392 0.00049	8.90 0.94164 0.00048	9.20 0.94048 0.00049
8.95 0.94847 0.00050	8.95 0.94563 0.00049	9.25 0.94417 0.00049
9.00 0.95232 0.00051	9.00 0.95024 0.00050	9.30 0.94684 0.00049
9.05 0.95554 0.00049	9.05 0.95250 0.00049	9.35 0.95051 0.00050
9.10 0.95793 0.00049	9.10 0.95571 0.00050	9.40 0.95465 0.00050
9.15 0.96238 0.00049	9.15 0.96035 0.00048	9.45 0.95843 0.00049
9.20 0.96658 0.00050	9.20 0.96327 0.00049	9.50 0.96181 0.00048
9.25 0.96995 0.00048	9.25 0.96624 0.00049	9.55 0.96492 0.00049
9.30 0.97280 0.00050	9.30 0.97051 0.00048	9.60 0.96718 0.00049
9.35 0.97738 0.00050	9.35 0.97412 0.00048	9.65 0.97033 0.00051
9.40 0.97952 0.00049	9.40 0.97734 0.00048	9.70 0.97460 0.00049
9.45 0.98253 0.00049	9.45 0.98047 0.00049	9.75 0.97799 0.00050
9.50 0.98612 0.00048	9.50 0.98466 0.00049	9.80 0.97982 0.00048
9.55 0.98959 0.00049	9.55 0.98715 0.00049	9.85 0.98394 0.00049
9.60 0.99337 0.00049	9.60 0.99052 0.00049	9.90 0.98710 0.00049
9.65 0.99640 0.00049	9.65 0.99341 0.00050	9.95 0.99039 0.00050
9.70 0.99940 0.00049	9.70 0.99707 0.00050	10.00 0.99427 0.00049
9.75 1.00365 0.00048	9.75 1.00094 0.00049	10.05 0.99656 0.00049
9.80 1.00656 0.00050	9.80 1.00281 0.00048	10.10 0.99984 0.00050
9.85 1.00952 0.00048	9.85 1.00674 0.00049	10.15 1.00212 0.00049
9.90 1.01367 0.00049	9.90 1.01035 0.00049	10.20 1.00560 0.00049
9.95 1.01584 0.00050	9.95 1.01352 0.00050	10.25 1.00857 0.00050
10.00 1.01919 0.00049	10.00 1.01641 0.00048	10.30 1.01216 0.00049
	10.05 1.01906 0.00049	10.35 1.01503 0.00048
	10.10 1.02313 0.00048	10.40 1.01754 0.00048
478	500	600
9.20 0.92152 0.00048	9.30 0.92586 0.00049	9.50 0.92166 0.00049
9.25 0.92433 0.00050	9.35 0.92812 0.00049	9.55 0.92320 0.00047
9.30 0.92820 0.00049	9.40 0.93129 0.00048	9.60 0.92775 0.00050
9.35 0.93180 0.00049	9.45 0.93508 0.00048	9.65 0.93082 0.00049
9.40 0.93580 0.00049	9.50 0.93816 0.00049	9.70 0.93381 0.00049
9.45 0.93845 0.00049	9.55 0.94167 0.00048	9.75 0.93763 0.00048
9.50 0.94227 0.00049	9.60 0.94510 0.00049	9.80 0.94131 0.00048
9.55 0.94478 0.00049	9.65 0.94854 0.00050	9.85 0.94494 0.00048
9.60 0.94876 0.00049	9.70 0.95090 0.00049	9.90 0.94837 0.00048
9.65 0.95158 0.00049	9.75 0.95456 0.00049	9.95 0.94998 0.00049
9.70 0.95492 0.00048	9.80 0.95837 0.00049	10.00 0.95395 0.00048
9.75 0.95922 0.00047	9.85 0.96129 0.00048	10.05 0.95735 0.00048
9.80 0.96250 0.00051	9.90 0.96412 0.00048	10.10 0.96047 0.00049

9.85 0.96483 0.00048	9.95 0.96715 0.00048	10.15 0.96358 0.00047
9.90 0.96758 0.00048	10.00 0.97031 0.00048	10.20 0.96630 0.00050
9.95 0.97062 0.00050	10.05 0.97373 0.00049	10.25 0.96909 0.00048
10.00 0.97436 0.00049	10.10 0.97685 0.00049	10.30 0.97236 0.00047
10.05 0.97792 0.00049	10.15 0.98003 0.00048	10.35 0.97622 0.00048
10.10 0.98051 0.00049	10.20 0.98275 0.00049	10.40 0.97778 0.00048
10.15 0.98290 0.00050	10.25 0.98703 0.00049	10.45 0.98272 0.00049
10.20 0.98690 0.00049	10.30 0.98948 0.00049	10.50 0.98450 0.00048
10.25 0.99015 0.00049	10.35 0.99214 0.00048	10.55 0.98720 0.00047
10.30 0.99263 0.00049	10.40 0.99481 0.00049	10.60 0.98998 0.00047
10.35 0.99586 0.00048	10.45 0.99797 0.00048	10.65 0.99237 0.00050
10.40 0.99914 0.00048	10.50 1.00112 0.00049	10.70 0.99624 0.00049
10.45 1.00161 0.00049	10.55 1.00416 0.00049	10.75 0.99958 0.00047
10.50 1.00477 0.00050	10.60 1.00723 0.00049	10.80 1.00242 0.00050
10.55 1.00757 0.00049	10.65 1.00976 0.00050	10.85 1.00503 0.00048
10.60 1.01018 0.00050	10.70 1.01210 0.00049	10.90 1.00785 0.00048
10.65 1.01323 0.00049	10.75 1.01524 0.00048	10.95 1.01024 0.00048
10.70 1.01603 0.00050	10.80 1.01722 0.00050	11.00 1.01387 0.00048
10.75 1.01824 0.00049		11.05 1.01641 0.00050
10.80 1.02268 0.00047		11.10 1.01885 0.00047

650	700	750
9.60 0.91889 0.00047	9.80 0.91987 0.00049	10.10 0.92292 0.00047
9.65 0.92171 0.00049	9.85 0.92321 0.00049	10.15 0.92594 0.00047
9.70 0.92528 0.00048	9.90 0.92687 0.00049	10.20 0.92931 0.00048
9.75 0.92912 0.00050	9.95 0.92846 0.00048	10.25 0.93252 0.00047
9.80 0.93181 0.00048	10.00 0.93139 0.00049	10.30 0.93660 0.00048
9.85 0.93584 0.00048	10.05 0.93632 0.00048	10.35 0.93837 0.00048
9.90 0.93840 0.00048	10.10 0.93907 0.00047	10.40 0.94236 0.00048
9.95 0.94158 0.00048	10.15 0.94162 0.00047	10.45 0.94487 0.00048
10.00 0.94491 0.00046	10.20 0.94503 0.00049	10.50 0.94714 0.00048
10.05 0.94716 0.00048	10.25 0.94874 0.00048	10.55 0.95086 0.00049
10.10 0.95109 0.00048	10.30 0.95120 0.00048	10.60 0.95373 0.00050
10.15 0.95375 0.00048	10.35 0.95351 0.00048	10.65 0.95706 0.00047
10.20 0.95678 0.00049	10.40 0.95756 0.00047	10.70 0.96021 0.00046
10.25 0.96101 0.00048	10.45 0.95974 0.00049	10.75 0.96358 0.00048
10.30 0.96338 0.00049	10.50 0.96314 0.00049	10.80 0.96646 0.00048
10.35 0.96632 0.00049	10.55 0.96637 0.00048	10.85 0.97060 0.00048
10.40 0.97003 0.00048	10.60 0.96908 0.00047	10.90 0.97185 0.00047
10.45 0.97174 0.00049	10.65 0.97213 0.00048	10.95 0.97486 0.00048
10.50 0.97490 0.00047	10.70 0.97585 0.00049	11.00 0.97718 0.00049
10.55 0.97865 0.00047	10.75 0.97899 0.00047	11.05 0.98077 0.00047
10.60 0.98162 0.00048	10.80 0.98129 0.00048	11.10 0.98321 0.00048
10.65 0.98370 0.00047	10.85 0.98400 0.00047	11.15 0.98622 0.00048
10.70 0.98763 0.00047	10.90 0.98754 0.00049	11.20 0.98954 0.00048
10.75 0.98994 0.00049	10.95 0.98956 0.00049	11.25 0.99208 0.00048
10.80 0.99338 0.00049	11.00 0.99203 0.00049	11.30 0.99466 0.00048
10.85 0.99709 0.00049	11.05 0.99531 0.00049	11.35 0.99771 0.00047
10.90 0.99847 0.00048	11.10 0.99850 0.00048	11.40 1.00063 0.00048

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10.95 1.00125 0.00049	11.15 1.00122 0.00050	11.45 1.00301 0.00048
11.00 1.00463 0.00049	11.20 1.00399 0.00049	11.50 1.00610 0.00049
11.05 1.00784 0.00049	11.25 1.00598 0.00048	11.55 1.00844 0.00048
11.10 1.01024 0.00049	11.30 1.00905 0.00049	11.60 1.01142 0.00049
11.15 1.01312 0.00050	11.35 1.01250 0.00048	11.65 1.01473 0.00049
11.20 1.01515 0.00050	11.40 1.01501 0.00050	11.70 1.01735 0.00048
	11.45 1.01816 0.00048	11.75 1.01938 0.00048
	11.50 1.02045 0.00049	11.80 1.02199 0.00048

760	765	770
10.10 0.91924 0.00048	10.20 0.92373 0.00048	10.20 0.92210 0.00048
10.15 0.92277 0.00048	10.25 0.92683 0.00047	10.25 0.92463 0.00047
10.20 0.92603 0.00047	10.30 0.92998 0.00047	10.30 0.92831 0.00046
10.25 0.92887 0.00047	10.35 0.93325 0.00049	10.35 0.93031 0.00048
10.30 0.93249 0.00049	10.40 0.93521 0.00049	10.40 0.93285 0.00050
10.35 0.93621 0.00047	10.45 0.93859 0.00047	10.45 0.93674 0.00048
10.40 0.93887 0.00049	10.50 0.94298 0.00047	10.50 0.93974 0.00048
10.45 0.94168 0.00047	10.55 0.94614 0.00048	10.55 0.94290 0.00049
10.50 0.94440 0.00049	10.60 0.94899 0.00047	10.60 0.94623 0.00049
10.55 0.94826 0.00049	10.65 0.95214 0.00048	10.65 0.94961 0.00050
10.60 0.94981 0.00046	10.70 0.95500 0.00048	10.70 0.95296 0.00048
10.65 0.95426 0.00048	10.75 0.95706 0.00049	10.75 0.95467 0.00049
10.70 0.95664 0.00047	10.80 0.96071 0.00048	10.80 0.95945 0.00048
10.75 0.95980 0.00049	10.85 0.96341 0.00049	10.85 0.96159 0.00046
10.80 0.96239 0.00048	10.90 0.96648 0.00048	10.90 0.96435 0.00048
10.85 0.96562 0.00048	10.95 0.97049 0.00049	10.95 0.96691 0.00048
10.90 0.96864 0.00048	11.00 0.97304 0.00049	11.00 0.96952 0.00049
10.95 0.97122 0.00048	11.05 0.97539 0.00048	11.05 0.97322 0.00048
11.00 0.97409 0.00048	11.10 0.97817 0.00047	11.10 0.97507 0.00048
11.05 0.97727 0.00047	11.15 0.98066 0.00049	11.15 0.97904 0.00049
11.10 0.98018 0.00049	11.20 0.98320 0.00049	11.20 0.98182 0.00048
11.15 0.98239 0.00048	11.25 0.98733 0.00049	11.25 0.98412 0.00048
11.20 0.98598 0.00048	11.30 0.98849 0.00049	11.30 0.98766 0.00047
11.25 0.98803 0.00048	11.35 0.99216 0.00049	11.35 0.98978 0.00050
11.30 0.99271 0.00048	11.40 0.99481 0.00049	11.40 0.99245 0.00049
11.35 0.99469 0.00048	11.45 0.99730 0.00049	11.45 0.99599 0.00049
11.40 0.99715 0.00049	11.50 1.00004 0.00047	11.50 0.99853 0.00047
11.45 1.00017 0.00048	11.55 1.00379 0.00048	11.55 1.00096 0.00049
11.50 1.00276 0.00048	11.60 1.00607 0.00048	11.60 1.00390 0.00048
11.55 1.00582 0.00048	11.65 1.00892 0.00048	11.65 1.00633 0.00050
11.60 1.00876 0.00049	11.70 1.01164 0.00048	11.70 1.00973 0.00046
11.65 1.01069 0.00047	11.75 1.01451 0.00049	11.75 1.01169 0.00049
11.70 1.01397 0.00049	11.80 1.01676 0.00048	11.80 1.01487 0.00047
11.75 1.01611 0.00047	11.85 1.01972 0.00049	11.85 1.01755 0.00047
11.80 1.01866 0.00049	11.90 1.02161 0.00048	11.90 1.02048 0.00051

775	0
10.20 0.92099 0.00049	
10.25 0.92309 0.00049	
10.30 0.92610 0.00048	
10.35 0.92946 0.00048	
10.40 0.93271 0.00047	
10.45 0.93648 0.00047	
10.50 0.93920 0.00049	
10.55 0.94206 0.00047	
10.60 0.94416 0.00048	
10.65 0.94720 0.00048	
10.70 0.95189 0.00048	
10.75 0.95482 0.00047	
10.80 0.95802 0.00048	
10.85 0.96021 0.00048	
10.90 0.96264 0.00048	
10.95 0.96582 0.00048	
11.00 0.96859 0.00048	
11.05 0.97225 0.00047	
11.10 0.97473 0.00047	
11.15 0.97729 0.00047	
11.20 0.98042 0.00049	
11.25 0.98405 0.00048	
11.30 0.98678 0.00049	
11.35 0.98999 0.00048	
11.40 0.99145 0.00049	
11.45 0.99480 0.00046	
11.50 0.99735 0.00048	
11.55 0.99945 0.00049	
11.60 1.00269 0.00049	
11.65 1.00515 0.00048	
11.70 1.00895 0.00050	
11.75 1.01048 0.00048	
11.80 1.01289 0.00048	
11.85 1.01598 0.00047	
11.90 1.01886 0.00047	

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12	15	20
17.90 0.92567 0.00026	13.90 0.92487 0.00030	11.10 0.92362 0.00034
18.20 0.93043 0.00027	14.10 0.93059 0.00031	11.20 0.92765 0.00035
18.50 0.93504 0.00026	14.30 0.93594 0.00030	11.30 0.93178 0.00035
18.80 0.93966 0.00026	14.50 0.94057 0.00030	11.40 0.93476 0.00035
19.10 0.94360 0.00026	14.70 0.94575 0.00029	11.50 0.94004 0.00035
19.40 0.94854 0.00026	14.90 0.95101 0.00030	11.60 0.94316 0.00033
19.70 0.95182 0.00025	15.10 0.95564 0.00029	11.70 0.94745 0.00035
20.00 0.95656 0.00025	15.30 0.96143 0.00029	11.80 0.95156 0.00033

20.30 0.96056 0.00025	15.50 0.96560 0.00029	11.90 0.95471 0.00035
20.60 0.96465 0.00025	15.70 0.96951 0.00029	12.00 0.95927 0.00034
20.90 0.96755 0.00025	15.90 0.97435 0.00029	12.10 0.96350 0.00034
21.20 0.97084 0.00024	16.10 0.97917 0.00029	12.20 0.96720 0.00033
21.50 0.97447 0.00024	16.30 0.98241 0.00030	12.30 0.97038 0.00034
21.80 0.97824 0.00024	16.50 0.98703 0.00030	12.40 0.97369 0.00033
22.10 0.98161 0.00025	16.70 0.99080 0.00029	12.50 0.97751 0.00034
22.40 0.98461 0.00024	16.90 0.99507 0.00029	12.60 0.98126 0.00034
22.70 0.98803 0.00025	17.10 0.99881 0.00029	12.70 0.98448 0.00034
23.00 0.99046 0.00024	17.30 1.00238 0.00027	12.80 0.98712 0.00033
23.30 0.99346 0.00024	17.50 1.00564 0.00029	12.90 0.99136 0.00033
23.60 0.99622 0.00025	17.70 1.00956 0.00028	13.00 0.99452 0.00033
23.90 0.99940 0.00024	17.90 1.01343 0.00028	13.10 0.99724 0.00034
24.20 1.00248 0.00024	18.00 1.01495 0.00028	13.20 1.00092 0.00033
24.50 1.00426 0.00023		13.30 1.00449 0.00034
24.80 1.00664 0.00023		13.40 1.00751 0.00032
25.10 1.00952 0.00024		13.50 1.01031 0.00033
25.40 1.01134 0.00024		13.60 1.01385 0.00033
25.60 1.01381 0.00023		13.70 1.01642 0.00033

25	30	32
9.70 0.91967 0.00037	9.00 0.92330 0.00039	8.70 0.91869 0.00038
9.80 0.92522 0.00037	9.10 0.92913 0.00038	8.80 0.92583 0.00039
9.90 0.92997 0.00038	9.20 0.93577 0.00040	8.90 0.93133 0.00040
10.00 0.93511 0.00037	9.30 0.94068 0.00038	9.00 0.93713 0.00038
10.10 0.94040 0.00036	9.40 0.94574 0.00039	9.10 0.94353 0.00039
10.20 0.94554 0.00037	9.50 0.95237 0.00039	9.20 0.94988 0.00040
10.30 0.94966 0.00036	9.60 0.95766 0.00039	9.30 0.95510 0.00039
10.40 0.95476 0.00036	9.70 0.96297 0.00038	9.40 0.96108 0.00040
10.50 0.95926 0.00036	9.80 0.96870 0.00038	9.50 0.96582 0.00039
10.60 0.96466 0.00037	9.90 0.97444 0.00038	9.60 0.97250 0.00039
10.70 0.96836 0.00036	10.00 0.97917 0.00038	9.70 0.97773 0.00038
10.80 0.97405 0.00037	10.10 0.98499 0.00037	9.80 0.98277 0.00038
10.90 0.97799 0.00036	10.20 0.98951 0.00038	9.90 0.98772 0.00039
11.00 0.98262 0.00035	10.30 0.99419 0.00039	10.00 0.99341 0.00038
11.10 0.98692 0.00036	10.40 0.99869 0.00037	10.10 0.99853 0.00038
11.20 0.99110 0.00037	10.50 1.00466 0.00038	10.20 1.00370 0.00039
11.30 0.99605 0.00036	10.60 1.00875 0.00037	10.30 1.00890 0.00039
11.40 0.99931 0.00037	10.70 1.01315 0.00038	10.40 1.01371 0.00039
11.50 1.00366 0.00035	10.80 1.01827 0.00039	10.50 1.01819 0.00039
11.60 1.00819 0.00037		
11.70 1.01127 0.00037		
11.80 1.01599 0.00036		

35	40	50
8.50 0.92424 0.00039	8.10 0.92179 0.00041	7.60 0.91975 0.00042
8.55 0.92696 0.00041	8.15 0.92543 0.00040	7.65 0.92387 0.00041
8.60 0.93124 0.00040	8.20 0.92895 0.00040	7.70 0.92768 0.00042
8.65 0.93375 0.00039	8.25 0.93229 0.00040	7.75 0.93181 0.00042
8.70 0.93706 0.00040	8.30 0.93541 0.00041	7.80 0.93459 0.00041
8.75 0.93975 0.00039	8.35 0.93848 0.00041	7.85 0.93814 0.00042
8.80 0.94314 0.00039	8.45 0.94540 0.00040	7.90 0.94278 0.00042
8.85 0.94626 0.00040	8.50 0.94932 0.00041	7.95 0.94626 0.00043
8.90 0.94962 0.00040	8.55 0.95209 0.00040	8.00 0.95001 0.00042
8.95 0.95300 0.00040	8.60 0.95572 0.00041	8.05 0.95219 0.00043
9.00 0.95523 0.00040	8.65 0.95910 0.00041	8.10 0.95669 0.00043
9.05 0.95927 0.00039	8.70 0.96137 0.00040	8.15 0.96082 0.00041
9.10 0.96195 0.00039	8.80 0.96858 0.00040	8.20 0.96389 0.00043
9.15 0.96504 0.00038	8.85 0.97137 0.00040	8.25 0.96722 0.00041
9.20 0.96732 0.00040	8.95 0.97700 0.00041	8.30 0.97013 0.00042
9.25 0.97016 0.00041	9.00 0.98028 0.00041	8.35 0.97350 0.00042
9.30 0.97304 0.00039	9.05 0.98391 0.00041	8.40 0.97706 0.00041
9.35 0.97665 0.00040	9.10 0.98667 0.00041	8.45 0.98067 0.00042
9.40 0.97944 0.00041	9.15 0.98890 0.00039	8.50 0.98338 0.00042
9.45 0.98281 0.00039	9.20 0.99248 0.00040	8.55 0.98660 0.00041
9.50 0.98438 0.00040	9.25 0.99518 0.00040	8.60 0.99012 0.00043
9.55 0.98726 0.00039	9.30 0.99811 0.00041	8.65 0.99399 0.00042
9.60 0.99048 0.00040	9.35 1.00147 0.00041	8.70 0.99643 0.00041
9.65 0.99391 0.00040	9.40 1.00483 0.00041	8.75 0.99929 0.00042
9.70 0.99578 0.00041	9.45 1.00700 0.00041	8.80 1.00284 0.00041
9.75 0.99915 0.00039	9.50 1.01005 0.00041	8.85 1.00592 0.00041
9.80 1.00204 0.00039	9.55 1.01372 0.00040	8.90 1.01010 0.00043
9.85 1.00378 0.00041	9.60 1.01524 0.00040	8.95 1.01256 0.00042
9.90 1.00641 0.00039	9.65 1.01813 0.00040	9.00 1.01572 0.00042
9.95 1.00973 0.00041	9.70 1.02182 0.00040	
10.00 1.01247 0.00039		
10.10 1.01784 0.00040		

60	70	80
7.30 0.91899 0.00043	7.10 0.91864 0.00043	7.00 0.92101 0.00043
7.35 0.92306 0.00044	7.15 0.92248 0.00042	7.05 0.92458 0.00043
7.40 0.92699 0.00044	7.20 0.92641 0.00042	7.10 0.92880 0.00044
7.45 0.93095 0.00042	7.25 0.93010 0.00044	7.15 0.93330 0.00044
7.50 0.93500 0.00042	7.30 0.93413 0.00045	7.20 0.93691 0.00044
7.55 0.93863 0.00042	7.35 0.93768 0.00043	7.25 0.94066 0.00044
7.60 0.94322 0.00043	7.40 0.94193 0.00043	7.30 0.94462 0.00044
7.65 0.94742 0.00043	7.45 0.94601 0.00045	7.35 0.94868 0.00044
7.70 0.95027 0.00043	7.50 0.94936 0.00043	7.40 0.95266 0.00044
7.75 0.95364 0.00043	7.55 0.95362 0.00044	7.45 0.95644 0.00043
7.80 0.95784 0.00044	7.60 0.95756 0.00042	7.50 0.95944 0.00045
7.85 0.96084 0.00043	7.65 0.96078 0.00044	7.55 0.96451 0.00044

7.90 0.96455 0.00043	7.70 0.96434 0.00044	7.60 0.96763 0.00043
7.95 0.96824 0.00044	7.75 0.96810 0.00043	7.65 0.97187 0.00043
8.00 0.97185 0.00043	7.80 0.97198 0.00043	7.70 0.97557 0.00044
8.05 0.97565 0.00043	7.85 0.97588 0.00044	7.75 0.97907 0.00045
8.10 0.97840 0.00042	7.90 0.97981 0.00044	7.80 0.98249 0.00043
8.15 0.98281 0.00042	7.95 0.98344 0.00044	7.85 0.98630 0.00044
8.20 0.98632 0.00042	8.00 0.98651 0.00043	7.90 0.99001 0.00045
8.25 0.98923 0.00042	8.05 0.99016 0.00043	7.95 0.99352 0.00043
8.30 0.99317 0.00042	8.10 0.99246 0.00044	8.00 0.99679 0.00044
8.35 0.99647 0.00043	8.15 0.99712 0.00044	8.05 0.99987 0.00043
8.40 0.99908 0.00042	8.20 0.99912 0.00043	8.10 1.00377 0.00043
8.45 1.00220 0.00043	8.25 1.00333 0.00044	8.15 1.00771 0.00045
8.50 1.00589 0.00043	8.30 1.00708 0.00043	8.20 1.01093 0.00044
8.55 1.00945 0.00043	8.35 1.01117 0.00044	8.25 1.01380 0.00045
8.60 1.01248 0.00044	8.40 1.01399 0.00044	8.30 1.01831 0.00043
8.65 1.01649 0.00042	8.45 1.01761 0.00044	
8.70 1.01969 0.00042	8.50 1.02055 0.00044	

90	100	120
6.90 0.91995 0.00044	6.80 0.91782 0.00043	6.80 0.92344 0.00043
6.95 0.92466 0.00044	6.85 0.92205 0.00045	6.85 0.92765 0.00045
7.00 0.92878 0.00043	6.90 0.92546 0.00044	6.90 0.93082 0.00045
7.05 0.93251 0.00045	6.95 0.92933 0.00044	6.95 0.93607 0.00043
7.10 0.93701 0.00044	7.00 0.93454 0.00045	7.00 0.93973 0.00044
7.15 0.93989 0.00043	7.05 0.93787 0.00045	7.05 0.94307 0.00044
7.20 0.94418 0.00043	7.10 0.94178 0.00045	7.10 0.94692 0.00045
7.25 0.94798 0.00043	7.15 0.94611 0.00045	7.15 0.94964 0.00045
7.30 0.95162 0.00045	7.20 0.94965 0.00045	7.20 0.95557 0.00044
7.35 0.95541 0.00044	7.25 0.95308 0.00045	7.25 0.95827 0.00045
7.40 0.96052 0.00045	7.30 0.95686 0.00045	7.30 0.96148 0.00044
7.45 0.96369 0.00045	7.35 0.96187 0.00046	7.35 0.96698 0.00047
7.50 0.96702 0.00045	7.40 0.96580 0.00046	7.40 0.96974 0.00044
7.55 0.97148 0.00044	7.45 0.96945 0.00045	7.45 0.97356 0.00046
7.60 0.97587 0.00045	7.50 0.97350 0.00045	7.50 0.97704 0.00045
7.65 0.97894 0.00044	7.55 0.97719 0.00044	7.55 0.98164 0.00043
7.70 0.98200 0.00044	7.60 0.97992 0.00045	7.60 0.98539 0.00044
7.75 0.98650 0.00045	7.65 0.98393 0.00045	7.65 0.98837 0.00045
7.80 0.98994 0.00045	7.70 0.98732 0.00044	7.70 0.99238 0.00045
7.85 0.99435 0.00044	7.75 0.99134 0.00045	7.75 0.99581 0.00043
7.90 0.99748 0.00044	7.80 0.99455 0.00043	7.80 1.00013 0.00045
7.95 1.00044 0.00045	7.85 0.99820 0.00045	7.85 1.00360 0.00046
8.00 1.00411 0.00044	7.90 1.00182 0.00044	7.90 1.00712 0.00044
8.05 1.00760 0.00044	7.95 1.00576 0.00045	7.95 1.01017 0.00045
8.10 1.01035 0.00044	8.00 1.00898 0.00045	8.00 1.01295 0.00046
8.15 1.01438 0.00045	8.05 1.01323 0.00045	8.05 1.01711 0.00045
8.20 1.01767 0.00046	8.10 1.01580 0.00046	8.10 1.02058 0.00045
	8.15 1.01919 0.00045	
	8.20 1.02291 0.00045	

130	150	200
6.80 0.92530 0.00044	6.70 0.91794 0.00045	6.80 0.92535 0.00046
6.85 0.92938 0.00044	6.75 0.92243 0.00046	6.85 0.92889 0.00045
6.90 0.93328 0.00045	6.80 0.92682 0.00044	6.90 0.93334 0.00046
6.95 0.93707 0.00045	6.85 0.93113 0.00045	6.95 0.93574 0.00045
7.00 0.94120 0.00045	6.90 0.93514 0.00045	7.00 0.94033 0.00045
7.05 0.94598 0.00044	6.95 0.93884 0.00044	7.05 0.94341 0.00044
7.10 0.94954 0.00045	7.00 0.94280 0.00045	7.10 0.94789 0.00045
7.15 0.95286 0.00045	7.05 0.94705 0.00044	7.15 0.95146 0.00044
7.20 0.95740 0.00044	7.10 0.95039 0.00046	7.20 0.95573 0.00045
7.25 0.96057 0.00046	7.15 0.95458 0.00046	7.25 0.95918 0.00045
7.30 0.96427 0.00044	7.20 0.95776 0.00045	7.30 0.96325 0.00046
7.35 0.96739 0.00045	7.25 0.96150 0.00044	7.35 0.96633 0.00046
7.40 0.97152 0.00045	7.30 0.96538 0.00046	7.40 0.97022 0.00045
7.45 0.97597 0.00045	7.35 0.96857 0.00045	7.45 0.97333 0.00046
7.50 0.98073 0.00045	7.40 0.97328 0.00045	7.50 0.97788 0.00045
7.55 0.98325 0.00044	7.45 0.97746 0.00044	7.55 0.98107 0.00046
7.60 0.98659 0.00045	7.50 0.98019 0.00045	7.60 0.98437 0.00045
7.65 0.99005 0.00045	7.55 0.98462 0.00045	7.65 0.98769 0.00046
7.70 0.99409 0.00044	7.60 0.98896 0.00044	7.70 0.99157 0.00046
7.75 0.99713 0.00045	7.65 0.99154 0.00046	7.75 0.99505 0.00046
7.80 1.00113 0.00044	7.70 0.99506 0.00045	7.80 0.99830 0.00046
7.85 1.00488 0.00045	7.75 0.99899 0.00045	7.85 1.00191 0.00045
7.90 1.00883 0.00045	7.80 1.00127 0.00044	7.90 1.00592 0.00045
7.95 1.01166 0.00045	7.85 1.00599 0.00045	7.95 1.00861 0.00045
8.00 1.01678 0.00045	7.90 1.00885 0.00046	8.00 1.01142 0.00046
	7.95 1.01239 0.00045	8.05 1.01569 0.00046
	8.00 1.01642 0.00045	8.10 1.01794 0.00046
	8.05 1.01999 0.00045	
	8.10 1.02311 0.00046	
239	250	359
6.80 0.92099 0.00046	6.80 0.91985 0.00046	7.00 0.92094 0.00045
6.85 0.92414 0.00045	6.85 0.92369 0.00044	7.05 0.92542 0.00044
6.90 0.92869 0.00045	6.90 0.92782 0.00046	7.10 0.92853 0.00045
6.95 0.93276 0.00045	6.95 0.93056 0.00045	7.15 0.93218 0.00046
7.00 0.93639 0.00045	7.00 0.93508 0.00045	7.20 0.93581 0.00045
7.05 0.94012 0.00045	7.05 0.93904 0.00045	7.25 0.93910 0.00045
7.10 0.94440 0.00045	7.10 0.94259 0.00044	7.30 0.94343 0.00045
7.15 0.94696 0.00044	7.15 0.94625 0.00045	7.35 0.94598 0.00046
7.20 0.95114 0.00046	7.20 0.94992 0.00046	7.40 0.95004 0.00047
7.25 0.95503 0.00044	7.25 0.95289 0.00045	7.45 0.95217 0.00046
7.30 0.95868 0.00045	7.30 0.95733 0.00044	7.50 0.95677 0.00045
7.35 0.96210 0.00043	7.35 0.96070 0.00045	7.55 0.95971 0.00045
7.40 0.96652 0.00047	7.40 0.96389 0.00045	7.60 0.96271 0.00045
7.45 0.96896 0.00044	7.45 0.96774 0.00046	7.65 0.96687 0.00046
7.50 0.97320 0.00045	7.50 0.97184 0.00046	7.70 0.96997 0.00045

7.55 0.97610 0.00046	7.55 0.97428 0.00046	7.75 0.97425 0.00045
7.60 0.97988 0.00045	7.60 0.97814 0.00046	7.80 0.97737 0.00045
7.65 0.98322 0.00046	7.65 0.98155 0.00046	7.85 0.98078 0.00046
7.70 0.98641 0.00045	7.70 0.98510 0.00044	7.90 0.98367 0.00047
7.75 0.99050 0.00045	7.75 0.98932 0.00046	7.95 0.98573 0.00046
7.80 0.99333 0.00044	7.80 0.99162 0.00045	8.00 0.98957 0.00045
7.85 0.99593 0.00044	7.85 0.99549 0.00047	8.05 0.99235 0.00045
7.90 1.00105 0.00045	7.90 0.99804 0.00046	8.10 0.99615 0.00046
7.95 1.00282 0.00045	7.95 1.00211 0.00045	8.15 0.99893 0.00045
8.00 1.00638 0.00046	8.00 1.00569 0.00044	8.20 1.00238 0.00046
8.05 1.00977 0.00045	8.05 1.00837 0.00046	8.25 1.00570 0.00045
8.10 1.01383 0.00045	8.10 1.01123 0.00046	8.30 1.00885 0.00046
8.15 1.01696 0.00045	8.15 1.01463 0.00045	8.35 1.01084 0.00046
8.20 1.01977 0.00044	8.20 1.01831 0.00044	8.40 1.01478 0.00046
		8.45 1.01744 0.00045
		8.50 1.02100 0.00046

478	500	600
7.20 0.92303 0.00046	7.20 0.91946 0.00044	7.40 0.92172 0.00045
7.25 0.92650 0.00046	7.25 0.92285 0.00045	7.45 0.92491 0.00046
7.30 0.92894 0.00046	7.30 0.92645 0.00045	7.50 0.92798 0.00045
7.35 0.93319 0.00045	7.35 0.93014 0.00045	7.55 0.93069 0.00045
7.40 0.93684 0.00045	7.40 0.93365 0.00047	7.60 0.93518 0.00044
7.45 0.94009 0.00045	7.45 0.93746 0.00045	7.65 0.93802 0.00046
7.50 0.94327 0.00045	7.50 0.94101 0.00044	7.70 0.94214 0.00045
7.55 0.94620 0.00045	7.55 0.94378 0.00045	7.75 0.94407 0.00046
7.60 0.94962 0.00045	7.60 0.94716 0.00045	7.80 0.94828 0.00045
7.65 0.95335 0.00045	7.65 0.95055 0.00046	7.85 0.95162 0.00046
7.70 0.95609 0.00046	7.70 0.95456 0.00045	7.90 0.95436 0.00046
7.75 0.95896 0.00045	7.75 0.95696 0.00045	7.95 0.95771 0.00045
7.80 0.96350 0.00044	7.80 0.96157 0.00046	8.00 0.95972 0.00044
7.85 0.96641 0.00045	7.85 0.96270 0.00045	8.05 0.96384 0.00045
7.90 0.96956 0.00045	7.90 0.96666 0.00046	8.10 0.96605 0.00045
7.95 0.97316 0.00047	7.95 0.96969 0.00046	8.15 0.96937 0.00045
8.00 0.97513 0.00047	8.00 0.97345 0.00044	8.20 0.97283 0.00047
8.05 0.97906 0.00046	8.05 0.97632 0.00044	8.25 0.97700 0.00045
8.10 0.98224 0.00046	8.10 0.97902 0.00045	8.30 0.97877 0.00045
8.15 0.98455 0.00045	8.15 0.98310 0.00046	8.35 0.98287 0.00046
8.20 0.98789 0.00045	8.20 0.98518 0.00046	8.40 0.98414 0.00043
8.25 0.99117 0.00045	8.25 0.98913 0.00046	8.45 0.98803 0.00046
8.30 0.99469 0.00045	8.30 0.99182 0.00045	8.50 0.99091 0.00044
8.35 0.99717 0.00044	8.35 0.99499 0.00047	8.55 0.99454 0.00044
8.40 1.00085 0.00045	8.40 0.99835 0.00045	8.60 0.99625 0.00046
8.45 1.00238 0.00046	8.45 1.00027 0.00045	8.65 0.99997 0.00046
8.50 1.00550 0.00047	8.50 1.00469 0.00045	8.70 1.00194 0.00045
8.55 1.00934 0.00045	8.55 1.00720 0.00046	8.75 1.00581 0.00047
8.60 1.01219 0.00046	8.60 1.00908 0.00045	8.80 1.00861 0.00045
8.65 1.01503 0.00046	8.65 1.01354 0.00045	8.85 1.01088 0.00046
8.70 1.01780 0.00045	8.70 1.01593 0.00046	8.90 1.01428 0.00045

8.75	1.01810	0.00046	8.95	1.01641	0.00045
8.80	1.02125	0.00045	9.00	1.01893	0.00045

650	700	750
7.50 0.92158 0.00044	7.60 0.91999 0.00045	7.80 0.92117 0.00046
7.55 0.92483 0.00045	7.65 0.92214 0.00044	7.85 0.92335 0.00045
7.60 0.92838 0.00045	7.70 0.92537 0.00046	7.90 0.92675 0.00045
7.65 0.93180 0.00045	7.75 0.92825 0.00044	7.95 0.93029 0.00044
7.70 0.93408 0.00045	7.80 0.93166 0.00045	8.00 0.93368 0.00046
7.75 0.93781 0.00045	7.85 0.93405 0.00044	8.05 0.93643 0.00046
7.80 0.94052 0.00046	7.90 0.93787 0.00045	8.10 0.93966 0.00045
7.85 0.94434 0.00045	7.95 0.94123 0.00046	8.15 0.94279 0.00044
7.90 0.94771 0.00046	8.00 0.94481 0.00046	8.20 0.94587 0.00046
7.95 0.95012 0.00045	8.05 0.94747 0.00045	8.25 0.94892 0.00046
8.00 0.95363 0.00045	8.10 0.95132 0.00045	8.30 0.95165 0.00045
8.05 0.95763 0.00046	8.15 0.95357 0.00046	8.35 0.95457 0.00044
8.10 0.95916 0.00047	8.20 0.95685 0.00045	8.40 0.95776 0.00046
8.15 0.96253 0.00045	8.25 0.95989 0.00045	8.45 0.96076 0.00044
8.20 0.96588 0.00045	8.30 0.96337 0.00045	8.50 0.96357 0.00045
8.25 0.96918 0.00046	8.35 0.96579 0.00044	8.55 0.96630 0.00045
8.30 0.97152 0.00046	8.40 0.97031 0.00043	8.60 0.97007 0.00045
8.35 0.97487 0.00045	8.45 0.97199 0.00045	8.65 0.97269 0.00045
8.40 0.97793 0.00046	8.50 0.97437 0.00046	8.70 0.97511 0.00044
8.45 0.98073 0.00045	8.55 0.97732 0.00045	8.75 0.97828 0.00046
8.50 0.98419 0.00046	8.60 0.98120 0.00045	8.80 0.98042 0.00044
8.55 0.98762 0.00045	8.65 0.98355 0.00045	8.85 0.98385 0.00045
8.60 0.98956 0.00045	8.70 0.98678 0.00044	8.90 0.98750 0.00045
8.65 0.99335 0.00046	8.75 0.98925 0.00045	8.95 0.98909 0.00046
8.70 0.99643 0.00046	8.80 0.99233 0.00044	9.00 0.99207 0.00045
8.75 0.99819 0.00045	8.85 0.99611 0.00044	9.05 0.99509 0.00046
8.80 1.00214 0.00046	8.90 0.99838 0.00046	9.10 0.99817 0.00045
8.85 1.00491 0.00044	8.95 1.00143 0.00046	9.15 0.99991 0.00046
8.90 1.00696 0.00045	9.00 1.00361 0.00046	9.20 1.00267 0.00045
8.95 1.00999 0.00046	9.05 1.00676 0.00046	9.25 1.00548 0.00046
9.00 1.01356 0.00046	9.10 1.00960 0.00046	9.30 1.00824 0.00044
9.05 1.01552 0.00045	9.15 1.01177 0.00044	9.35 1.01156 0.00045
9.10 1.01843 0.00045	9.20 1.01475 0.00045	9.40 1.01381 0.00045
	9.25 1.01730 0.00045	9.45 1.01677 0.00045
	9.30 1.02078 0.00045	9.50 1.01984 0.00045

760	765	770
7.80 0.91772 0.00044	7.90 0.92340 0.00044	7.90 0.92099 0.00045
7.85 0.92036 0.00044	7.95 0.92523 0.00045	7.95 0.92531 0.00044
7.90 0.92394 0.00044	8.00 0.92879 0.00044	8.00 0.92861 0.00045
7.95 0.92758 0.00045	8.05 0.93194 0.00045	8.05 0.93036 0.00044
8.00 0.93122 0.00045	8.10 0.93529 0.00046	8.10 0.93311 0.00044
8.05 0.93334 0.00046	8.15 0.93794 0.00046	8.15 0.93585 0.00044

8.10 0.93684 0.00045	8.20 0.94227 0.00046	8.20 0.93987 0.00045
8.15 0.93985 0.00045	8.25 0.94462 0.00046	8.25 0.94317 0.00044
8.20 0.94308 0.00045	8.30 0.94746 0.00044	8.30 0.94609 0.00044
8.25 0.94611 0.00045	8.35 0.95045 0.00044	8.35 0.94973 0.00046
8.30 0.94862 0.00045	8.40 0.95350 0.00046	8.40 0.95211 0.00046
8.35 0.95220 0.00045	8.45 0.95571 0.00044	8.45 0.95462 0.00045
8.40 0.95440 0.00043	8.50 0.96014 0.00046	8.50 0.95746 0.00045
8.45 0.95826 0.00046	8.55 0.96182 0.00045	8.55 0.96092 0.00046
8.50 0.96056 0.00045	8.60 0.96516 0.00047	8.60 0.96304 0.00046
8.55 0.96408 0.00045	8.65 0.96821 0.00045	8.65 0.96698 0.00044
8.60 0.96714 0.00045	8.70 0.97197 0.00044	8.70 0.96950 0.00046
8.65 0.96916 0.00045	8.75 0.97420 0.00045	8.75 0.97161 0.00045
8.70 0.97293 0.00044	8.80 0.97670 0.00046	8.80 0.97587 0.00046
8.75 0.97581 0.00046	8.85 0.97944 0.00045	8.85 0.97790 0.00045
8.80 0.97852 0.00045	8.90 0.98270 0.00046	8.90 0.98086 0.00044
8.85 0.98079 0.00044	8.95 0.98536 0.00045	8.95 0.98377 0.00045
8.90 0.98390 0.00045	9.00 0.98828 0.00045	9.00 0.98689 0.00046
8.95 0.98693 0.00045	9.05 0.99197 0.00046	9.05 0.98891 0.00044
9.00 0.98860 0.00044	9.10 0.99293 0.00045	9.10 0.99203 0.00045
9.05 0.99271 0.00044	9.15 0.99669 0.00045	9.15 0.99471 0.00046
9.10 0.99551 0.00045	9.20 0.99857 0.00046	9.20 0.99777 0.00044
9.15 0.99803 0.00045	9.25 1.00105 0.00045	9.25 0.99990 0.00044
9.20 1.00088 0.00044	9.30 1.00429 0.00045	9.30 1.00304 0.00045
9.25 1.00385 0.00045	9.35 1.00694 0.00046	9.35 1.00590 0.00045
9.30 1.00603 0.00046	9.40 1.01050 0.00044	9.40 1.00809 0.00044
9.35 1.00907 0.00045	9.45 1.01251 0.00045	9.45 1.01127 0.00045
9.40 1.01188 0.00045	9.50 1.01541 0.00045	9.50 1.01414 0.00045
9.45 1.01424 0.00047		9.55 1.01670 0.00046
9.50 1.01776 0.00045		9.60 1.01909 0.00046

775

0

7.90 0.92030 0.00045
 7.95 0.92316 0.00044
 8.00 0.92656 0.00044
 8.05 0.93062 0.00046
 8.10 0.93292 0.00045
 8.15 0.93625 0.00045
 8.20 0.93859 0.00043
 8.25 0.94235 0.00046
 8.30 0.94540 0.00045
 8.35 0.94800 0.00045
 8.40 0.95093 0.00045
 8.45 0.95408 0.00044
 8.50 0.95688 0.00046
 8.55 0.95967 0.00045
 8.60 0.96376 0.00045
 8.65 0.96577 0.00045
 8.70 0.96845 0.00045
 8.75 0.97138 0.00045

8.80 0.97508 0.00044
 8.85 0.97710 0.00045
 8.90 0.98068 0.00046
 8.95 0.98237 0.00045
 9.00 0.98553 0.00045
 9.05 0.98868 0.00045
 9.10 0.99021 0.00045
 9.15 0.99383 0.00045
 9.20 0.99710 0.00044
 9.25 0.99909 0.00044
 9.30 1.00214 0.00045
 9.35 1.00485 0.00044
 9.40 1.00772 0.00044
 9.45 1.01015 0.00044
 9.50 1.01275 0.00045
 9.55 1.01571 0.00045
 9.60 1.01834 0.00045

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12	15	20
9.60 0.92194 0.00030	8.20 0.92432 0.00033	7.00 0.91922 0.00038
9.70 0.92656 0.00030	8.25 0.92720 0.00033	7.05 0.92399 0.00038
9.80 0.93096 0.00030	8.30 0.93013 0.00032	7.10 0.92846 0.00038
9.90 0.93554 0.00030	8.35 0.93397 0.00034	7.15 0.93345 0.00039
10.00 0.93980 0.00029	8.40 0.93675 0.00033	7.20 0.93786 0.00038
10.10 0.94406 0.00029	8.45 0.93989 0.00033	7.25 0.94152 0.00037
10.20 0.94839 0.00030	8.50 0.94268 0.00034	7.30 0.94605 0.00038
10.30 0.95232 0.00029	8.55 0.94639 0.00035	7.35 0.95031 0.00038
10.40 0.95598 0.00030	8.60 0.94921 0.00034	7.40 0.95506 0.00038
10.50 0.96006 0.00029	8.65 0.95239 0.00033	7.45 0.95846 0.00039
10.60 0.96383 0.00028	8.70 0.95518 0.00033	7.50 0.96281 0.00037
10.70 0.96817 0.00029	8.75 0.95846 0.00033	7.55 0.96635 0.00038
10.80 0.97158 0.00029	8.80 0.96153 0.00033	7.60 0.97042 0.00038
10.90 0.97556 0.00029	8.85 0.96369 0.00033	7.65 0.97497 0.00038
11.00 0.97898 0.00029	8.90 0.96742 0.00033	7.70 0.97844 0.00038
11.10 0.98207 0.00028	8.95 0.96946 0.00033	7.75 0.98248 0.00037
11.20 0.98543 0.00028	9.00 0.97273 0.00034	7.80 0.98642 0.00038
11.30 0.98886 0.00029	9.05 0.97565 0.00033	7.85 0.99010 0.00037
11.40 0.99238 0.00029	9.10 0.97796 0.00033	7.90 0.99453 0.00038
11.50 0.99575 0.00028	9.15 0.98089 0.00034	7.95 0.99727 0.00037
11.60 0.99854 0.00028	9.20 0.98336 0.00033	8.00 1.00143 0.00038
11.70 1.00211 0.00028	9.25 0.98679 0.00032	8.05 1.00502 0.00037
11.80 1.00454 0.00028	9.30 0.98898 0.00034	8.10 1.00829 0.00036
11.90 1.00828 0.00028	9.35 0.99068 0.00032	8.15 1.01259 0.00036
12.00 1.01114 0.00029	9.40 0.99408 0.00033	8.20 1.01545 0.00037
12.10 1.01367 0.00028	9.45 0.99672 0.00032	8.25 1.01921 0.00036
	9.50 0.99880 0.00034	8.30 1.02179 0.00038
	9.55 1.00212 0.00032	
	9.60 1.00386 0.00032	
	9.65 1.00618 0.00032	

9.70 1.00819 0.00032
 9.75 1.01132 0.00033
 9.80 1.01387 0.00032
 9.85 1.01522 0.00033
 9.90 1.01837 0.00032

25	30	32
6.40 0.91719 0.00042	6.00 0.91174 0.00042	5.90 0.91233 0.00043
6.45 0.92226 0.00041	6.05 0.91809 0.00043	5.95 0.91784 0.00043
6.50 0.92856 0.00041	6.10 0.92394 0.00042	6.00 0.92475 0.00044
6.55 0.93297 0.00041	6.15 0.92988 0.00043	6.05 0.93078 0.00043
6.60 0.93854 0.00040	6.20 0.93565 0.00042	6.10 0.93611 0.00043
6.65 0.94335 0.00041	6.25 0.94109 0.00042	6.15 0.94330 0.00043
6.70 0.94906 0.00040	6.30 0.94749 0.00043	6.20 0.94878 0.00041
6.75 0.95380 0.00041	6.35 0.95305 0.00042	6.25 0.95507 0.00044
6.80 0.95893 0.00040	6.40 0.95821 0.00041	6.30 0.95958 0.00043
6.85 0.96356 0.00040	6.45 0.96366 0.00042	6.35 0.96603 0.00043
6.90 0.96902 0.00039	6.50 0.96946 0.00042	6.40 0.97122 0.00043
6.95 0.97369 0.00041	6.55 0.97503 0.00042	6.45 0.97725 0.00043
7.00 0.97820 0.00040	6.60 0.98063 0.00041	6.50 0.98248 0.00042
7.05 0.98332 0.00039	6.65 0.98514 0.00043	6.55 0.98861 0.00043
7.10 0.98708 0.00041	6.70 0.99052 0.00041	6.60 0.99307 0.00043
7.15 0.99217 0.00040	6.75 0.99717 0.00042	6.65 0.99941 0.00042
7.20 0.99676 0.00041	6.80 1.00088 0.00043	6.70 1.00432 0.00043
7.25 1.00137 0.00040	6.85 1.00633 0.00041	6.75 1.00916 0.00042
7.30 1.00552 0.00041	6.90 1.01124 0.00041	6.80 1.01478 0.00042
7.35 1.00948 0.00040	6.95 1.01571 0.00043	6.85 1.02043 0.00043
7.40 1.01446 0.00040	7.00 1.02028 0.00042	6.90 1.02521 0.00043
7.45 1.01900 0.00041		
7.50 1.02326 0.00040		

35	40	50
5.80 0.91655 0.00043	5.60 0.91194 0.00043	5.40 0.91532 0.00044
5.85 0.92253 0.00043	5.65 0.91852 0.00045	5.45 0.92248 0.00046
5.90 0.92882 0.00044	5.70 0.92580 0.00045	5.50 0.93062 0.00047
5.95 0.93504 0.00045	5.75 0.93287 0.00045	5.55 0.93780 0.00046
6.00 0.94185 0.00044	5.80 0.93919 0.00044	5.60 0.94465 0.00046
6.05 0.94723 0.00044	5.85 0.94574 0.00045	5.65 0.95240 0.00047
6.10 0.95373 0.00042	5.90 0.95235 0.00044	5.70 0.95882 0.00047
6.15 0.96009 0.00044	5.95 0.95878 0.00046	5.75 0.96631 0.00044
6.20 0.96563 0.00043	6.00 0.96480 0.00044	5.80 0.97244 0.00046
6.25 0.97153 0.00044	6.05 0.97138 0.00043	5.85 0.97913 0.00047
6.30 0.97710 0.00043	6.10 0.97729 0.00045	5.90 0.98522 0.00046
6.35 0.98371 0.00042	6.15 0.98389 0.00044	5.95 0.99209 0.00044
6.40 0.98888 0.00044	6.20 0.99058 0.00045	6.00 0.99824 0.00045
6.45 0.99424 0.00044	6.25 0.99580 0.00043	6.05 1.00413 0.00045
6.50 0.99944 0.00043	6.30 1.00175 0.00045	6.10 1.01169 0.00045

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6.55 1.00546 0.00042	6.35 1.00771 0.00044	6.15 1.01750 0.00046
6.60 1.01179 0.00043	6.40 1.01344 0.00044	6.20 1.02386 0.00047
6.65 1.01619 0.00044	6.45 1.01926 0.00045	
6.70 1.02251 0.00044	6.50 1.02525 0.00044	

60	70	80
5.20 0.90763 0.00047	5.10 0.90542 0.00047	5.10 0.91657 0.00047
5.25 0.91477 0.00047	5.15 0.91428 0.00048	5.15 0.92420 0.00048
5.30 0.92288 0.00047	5.20 0.92140 0.00047	5.20 0.93215 0.00048
5.35 0.93006 0.00047	5.25 0.92975 0.00049	5.25 0.94008 0.00048
5.40 0.93831 0.00047	5.30 0.93725 0.00047	5.30 0.94830 0.00048
5.45 0.94501 0.00046	5.35 0.94394 0.00045	5.35 0.95553 0.00047
5.50 0.95149 0.00046	5.40 0.95217 0.00048	5.40 0.96354 0.00050
5.55 0.95926 0.00047	5.45 0.95954 0.00046	5.45 0.97030 0.00048
5.60 0.96634 0.00045	5.50 0.96701 0.00047	5.50 0.97810 0.00049
5.65 0.97420 0.00047	5.55 0.97394 0.00048	5.55 0.98507 0.00047
5.70 0.97987 0.00046	5.60 0.98097 0.00048	5.60 0.99268 0.00048
5.75 0.98687 0.00048	5.65 0.98863 0.00049	5.65 0.99911 0.00047
5.80 0.99306 0.00046	5.70 0.99491 0.00046	5.70 1.00576 0.00048
5.85 1.00038 0.00047	5.75 1.00158 0.00047	5.75 1.01343 0.00047
5.90 1.00766 0.00049	5.80 1.00958 0.00048	5.80 1.02027 0.00049
5.95 1.01388 0.00048	5.85 1.01593 0.00047	
6.00 1.02061 0.00047	5.90 1.02290 0.00047	

90	100	120
5.00 0.90871 0.00047	5.00 0.91424 0.00049	4.90 0.90608 0.00048
5.05 0.91750 0.00050	5.05 0.92286 0.00048	4.95 0.91425 0.00051
5.10 0.92475 0.00048	5.10 0.93108 0.00048	5.00 0.92292 0.00049
5.15 0.93278 0.00048	5.15 0.93889 0.00051	5.05 0.93099 0.00047
5.20 0.93954 0.00050	5.20 0.94703 0.00048	5.10 0.93851 0.00050
5.25 0.94892 0.00049	5.25 0.95524 0.00049	5.15 0.94621 0.00049
5.30 0.95535 0.00047	5.30 0.96188 0.00049	5.20 0.95490 0.00049
5.35 0.96375 0.00049	5.35 0.97016 0.00048	5.25 0.96238 0.00049
5.40 0.97127 0.00049	5.40 0.97673 0.00049	5.30 0.96969 0.00049
5.45 0.97865 0.00049	5.45 0.98530 0.00048	5.35 0.97720 0.00049
5.50 0.98754 0.00047	5.50 0.99151 0.00050	5.40 0.98558 0.00049
5.55 0.99296 0.00048	5.55 0.99979 0.00048	5.45 0.99273 0.00048
5.60 0.99970 0.00048	5.60 1.00660 0.00047	5.50 0.99981 0.00049
5.65 1.00722 0.00048	5.65 1.01299 0.00049	5.55 1.00807 0.00050
5.70 1.01545 0.00048	5.70 1.02142 0.00049	5.60 1.01430 0.00048
5.75 1.02125 0.00048		5.65 1.02206 0.00048
5.80 1.02866 0.00048		5.70 1.02869 0.00048

130	150	200
4.90 0.90985 0.00047	4.90 0.91261 0.00048	4.90 0.91787 0.00049
4.95 0.91850 0.00049	4.95 0.92193 0.00051	4.95 0.92768 0.00048
5.00 0.92598 0.00049	5.00 0.93002 0.00050	5.00 0.93531 0.00048
5.05 0.93429 0.00050	5.05 0.93857 0.00049	5.05 0.94275 0.00049
5.10 0.94257 0.00048	5.10 0.94610 0.00050	5.10 0.95133 0.00051
5.15 0.95060 0.00048	5.15 0.95413 0.00049	5.15 0.95937 0.00050
5.20 0.95873 0.00048	5.20 0.96171 0.00049	5.20 0.96751 0.00049
5.25 0.96664 0.00048	5.25 0.97027 0.00050	5.25 0.97350 0.00051
5.30 0.97384 0.00048	5.30 0.97746 0.00049	5.30 0.98208 0.00048
5.35 0.98170 0.00049	5.35 0.98577 0.00050	5.35 0.98910 0.00051
5.40 0.98798 0.00049	5.40 0.99205 0.00049	5.40 0.99670 0.00049
5.45 0.99641 0.00049	5.45 1.00014 0.00049	5.45 1.00581 0.00049
5.50 1.00464 0.00049	5.50 1.00755 0.00047	5.50 1.01269 0.00050
5.55 1.01068 0.00050	5.55 1.01486 0.00049	5.55 1.01962 0.00050
5.60 1.01870 0.00049	5.60 1.02098 0.00048	5.60 1.02597 0.00050
5.65 1.02557 0.00049		
5.70 1.03152 0.00049		

239	250	359
4.90 0.91964 0.00048	4.90 0.91846 0.00050	4.90 0.91633 0.00050
4.95 0.92755 0.00048	4.95 0.92771 0.00050	4.95 0.92401 0.00050
5.00 0.93605 0.00049	5.00 0.93578 0.00049	5.00 0.93277 0.00049
5.05 0.94546 0.00050	5.05 0.94437 0.00048	5.05 0.94066 0.00049
5.10 0.95228 0.00049	5.10 0.95247 0.00049	5.10 0.94795 0.00050
5.15 0.95978 0.00048	5.15 0.96041 0.00049	5.15 0.95717 0.00049
5.20 0.96905 0.00051	5.20 0.96770 0.00049	5.20 0.96444 0.00050
5.25 0.97500 0.00048	5.25 0.97562 0.00049	5.25 0.97227 0.00049
5.30 0.98357 0.00049	5.30 0.98360 0.00050	5.30 0.97902 0.00049
5.35 0.99075 0.00050	5.35 0.99095 0.00048	5.35 0.98727 0.00047
5.40 0.99817 0.00049	5.40 0.99761 0.00049	5.40 0.99481 0.00049
5.45 1.00612 0.00050	5.45 1.00597 0.00050	5.45 1.00123 0.00049
5.50 1.01313 0.00050	5.50 1.01249 0.00049	5.50 1.00844 0.00049
5.55 1.01993 0.00050	5.55 1.01984 0.00050	5.55 1.01625 0.00048
5.60 1.02747 0.00051	5.60 1.02783 0.00049	5.60 1.02318 0.00048

478	500	600
4.90 0.90612 0.00048	5.00 0.91883 0.00050	5.10 0.91228 0.00050
4.95 0.91400 0.00048	5.05 0.92754 0.00048	5.15 0.91988 0.00050
5.00 0.92283 0.00050	5.10 0.93567 0.00049	5.20 0.92842 0.00048
5.05 0.93060 0.00050	5.15 0.94422 0.00049	5.25 0.93539 0.00049
5.10 0.93821 0.00049	5.20 0.95133 0.00049	5.30 0.94359 0.00048
5.15 0.94615 0.00047	5.25 0.95844 0.00048	5.35 0.95073 0.00049
5.20 0.95428 0.00049	5.30 0.96715 0.00049	5.40 0.95820 0.00049
5.25 0.96170 0.00049	5.35 0.97460 0.00049	5.45 0.96571 0.00050

5.30 0.96917 0.00049	5.40 0.98179 0.00050	5.50 0.97447 0.00050
5.35 0.97686 0.00050	5.45 0.98860 0.00049	5.55 0.97977 0.00050
5.40 0.98460 0.00049	5.50 0.99688 0.00048	5.60 0.98756 0.00048
5.45 0.99174 0.00048	5.55 1.00390 0.00049	5.65 0.99481 0.00050
5.50 0.99884 0.00049	5.60 1.01076 0.00049	5.70 1.00171 0.00049
5.55 1.00547 0.00049	5.65 1.01734 0.00049	5.75 1.00995 0.00049
5.60 1.01429 0.00050	5.70 1.02441 0.00049	5.80 1.01498 0.00048
5.65 1.02033 0.00050		5.85 1.02293 0.00048
5.70 1.02653 0.00049		5.90 1.03017 0.00048

650	700	750
5.20 0.90881 0.00049	5.50 0.92268 0.00048	6.00 0.91082 0.00049
5.30 0.92398 0.00049	5.55 0.92904 0.00048	6.05 0.91746 0.00047
5.35 0.93216 0.00049	5.60 0.93655 0.00047	6.10 0.92493 0.00049
5.40 0.94082 0.00049	5.65 0.94380 0.00049	6.15 0.93105 0.00049
5.45 0.94704 0.00047	5.70 0.95101 0.00049	6.20 0.93851 0.00048
5.50 0.95492 0.00049	5.75 0.95877 0.00049	6.25 0.94414 0.00048
5.55 0.96232 0.00048	5.80 0.96613 0.00049	6.30 0.95103 0.00049
5.60 0.96884 0.00050	5.85 0.97186 0.00050	6.35 0.95787 0.00050
5.65 0.97725 0.00049	5.90 0.97953 0.00048	6.40 0.96429 0.00049
5.70 0.98432 0.00049	5.95 0.98552 0.00049	6.45 0.97040 0.00049
5.75 0.99048 0.00049	6.00 0.99304 0.00049	6.50 0.97716 0.00049
5.80 0.99718 0.00050	6.05 0.99866 0.00050	6.55 0.98325 0.00048
5.85 1.00439 0.00051	6.10 1.00670 0.00050	6.60 0.98926 0.00049
5.90 1.01138 0.00048	6.15 1.01251 0.00048	6.65 0.99577 0.00048
5.95 1.01763 0.00048	6.20 1.01912 0.00049	6.70 1.00198 0.00050
6.00 1.02499 0.00050		6.75 1.00796 0.00048
		6.80 1.01298 0.00049
		6.85 1.01923 0.00048
		6.90 1.02552 0.00049

752	754	755
6.10 0.91541 0.00048	6.20 0.91402 0.00048	6.30 0.91307 0.00048
6.15 0.92132 0.00050	6.25 0.92222 0.00049	6.35 0.91936 0.00049
6.20 0.92796 0.00048	6.30 0.92682 0.00046	6.40 0.92647 0.00047
6.25 0.93516 0.00046	6.35 0.93458 0.00048	6.45 0.93210 0.00048
6.30 0.94162 0.00049	6.40 0.94058 0.00049	6.50 0.93905 0.00050
6.35 0.94759 0.00049	6.45 0.94761 0.00049	6.55 0.94567 0.00047
6.40 0.95361 0.00049	6.50 0.95392 0.00048	6.60 0.95161 0.00049
6.45 0.95998 0.00048	6.55 0.96027 0.00048	6.65 0.95719 0.00049
6.50 0.96726 0.00049	6.60 0.96665 0.00048	6.70 0.96331 0.00048
6.55 0.97355 0.00047	6.65 0.97297 0.00048	6.75 0.96993 0.00048
6.60 0.98041 0.00048	6.70 0.97837 0.00050	6.80 0.97599 0.00048
6.65 0.98532 0.00048	6.75 0.98499 0.00048	6.85 0.98150 0.00049
6.70 0.99188 0.00049	6.80 0.99059 0.00048	6.90 0.98774 0.00049
6.75 0.99755 0.00048	6.85 0.99634 0.00050	6.95 0.99438 0.00050
6.80 1.00333 0.00049	6.90 1.00279 0.00049	7.00 0.99955 0.00050

6.85	1.00998	0.00049	6.95	1.00858	0.00049	7.05	1.00483	0.00049
6.90	1.01564	0.00049	7.00	1.01398	0.00048	7.10	1.01082	0.00048
6.95	1.02129	0.00050	7.05	1.01892	0.00048	7.15	1.01591	0.00051
7.00	1.02768	0.00050	7.10	1.02559	0.00049	7.20	1.02231	0.00049

5.35 0.96682 0.00039	4.95 0.96696 0.00041	4.85 0.97040 0.00041
5.40 0.97203 0.00039	5.00 0.97230 0.00042	4.90 0.97460 0.00041
5.45 0.97645 0.00039	5.05 0.97919 0.00040	4.95 0.98165 0.00041
5.50 0.98079 0.00038	5.10 0.98354 0.00041	5.00 0.98576 0.00042
5.55 0.98547 0.00038	5.15 0.98927 0.00041	5.05 0.99209 0.00041
5.60 0.99023 0.00038	5.20 0.99403 0.00041	5.10 0.99741 0.00041
5.65 0.99514 0.00039	5.25 1.00026 0.00040	5.15 1.00308 0.00042
5.70 0.99974 0.00038	5.30 1.00422 0.00040	5.20 1.00792 0.00041
5.75 1.00422 0.00038	5.35 1.00945 0.00041	5.25 1.01313 0.00040
5.80 1.00855 0.00038	5.40 1.01349 0.00040	5.30 1.01896 0.00042
5.85 1.01324 0.00039	5.45 1.01924 0.00041	
5.90 1.01687 0.00037	5.50 1.02393 0.00040	

35	40	50
4.30 0.91991 0.00042	4.10 0.91617 0.00043	3.90 0.92252 0.00044
4.35 0.92716 0.00042	4.15 0.92452 0.00043	3.95 0.93006 0.00044
4.40 0.93317 0.00043	4.20 0.93098 0.00041	4.00 0.93689 0.00044
4.45 0.93959 0.00041	4.25 0.93761 0.00043	4.05 0.94382 0.00044
4.50 0.94541 0.00041	4.30 0.94364 0.00042	4.10 0.95148 0.00044
4.55 0.95164 0.00042	4.35 0.95124 0.00044	4.15 0.95741 0.00045
4.60 0.95774 0.00041	4.40 0.95676 0.00044	4.20 0.96467 0.00044
4.65 0.96458 0.00043	4.45 0.96320 0.00043	4.25 0.97135 0.00043
4.70 0.97051 0.00041	4.50 0.96925 0.00045	4.30 0.97833 0.00043
4.75 0.97650 0.00042	4.55 0.97666 0.00043	4.35 0.98450 0.00044
4.80 0.98196 0.00042	4.60 0.98250 0.00042	4.40 0.99197 0.00044
4.85 0.98774 0.00043	4.65 0.98922 0.00043	4.45 0.99847 0.00044
4.90 0.99320 0.00041	4.70 0.99460 0.00041	4.50 1.00469 0.00043
4.95 0.99890 0.00042	4.75 1.00033 0.00042	4.55 1.01117 0.00044
5.00 1.00468 0.00042	4.80 1.00572 0.00042	4.60 1.01703 0.00044
5.05 1.01011 0.00043	4.85 1.01179 0.00043	4.65 1.02313 0.00044
5.10 1.01551 0.00042	4.90 1.01816 0.00042	4.70 1.02988 0.00045
5.15 1.02150 0.00042		
5.20 1.02578 0.00041		

60	70	80
3.70 0.91590 0.00045	3.60 0.91376 0.00045	3.50 0.90926 0.00047
3.75 0.92164 0.00046	3.65 0.92178 0.00045	3.55 0.91808 0.00046
3.80 0.92972 0.00044	3.70 0.92990 0.00046	3.60 0.92575 0.00047
3.85 0.93807 0.00045	3.75 0.93856 0.00046	3.65 0.93321 0.00044
3.90 0.94508 0.00046	3.80 0.94481 0.00046	3.70 0.94134 0.00046
3.95 0.95277 0.00045	3.85 0.95241 0.00046	3.75 0.94930 0.00047
4.00 0.95981 0.00045	3.90 0.96078 0.00045	3.80 0.95644 0.00046
4.05 0.96668 0.00044	3.95 0.96744 0.00046	3.85 0.96528 0.00046
4.10 0.97403 0.00045	4.00 0.97481 0.00046	3.90 0.97136 0.00046
4.15 0.97995 0.00046	4.05 0.98298 0.00046	3.95 0.97992 0.00047
4.20 0.98754 0.00046	4.10 0.98881 0.00046	4.00 0.98695 0.00045
4.25 0.99493 0.00044	4.15 0.99634 0.00046	4.05 0.99395 0.00046

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4.30 1.00226 0.00045	4.20 1.00266 0.00046	4.10 1.00040 0.00047
4.35 1.00689 0.00046	4.25 1.00990 0.00047	4.15 1.00709 0.00045
4.40 1.01481 0.00046	4.30 1.01717 0.00044	4.20 1.01447 0.00046
4.45 1.02121 0.00045	4.35 1.02367 0.00047	4.25 1.02208 0.00047
4.50 1.02755 0.00045	4.40 1.02917 0.00046	4.30 1.02821 0.00046

90	100	120
3.50 0.91859 0.00046	3.50 0.92532 0.00047	3.40 0.91734 0.00047
3.55 0.92687 0.00047	3.55 0.93284 0.00047	3.45 0.92597 0.00048
3.60 0.93428 0.00047	3.60 0.94033 0.00047	3.50 0.93385 0.00047
3.65 0.94288 0.00047	3.65 0.94795 0.00047	3.55 0.94209 0.00048
3.70 0.94980 0.00047	3.70 0.95672 0.00046	3.60 0.95032 0.00047
3.75 0.95781 0.00047	3.75 0.96462 0.00046	3.65 0.95783 0.00048
3.80 0.96522 0.00048	3.80 0.97295 0.00046	3.70 0.96583 0.00047
3.85 0.97340 0.00046	3.85 0.98045 0.00047	3.75 0.97354 0.00047
3.90 0.98023 0.00047	3.90 0.98764 0.00048	3.80 0.98077 0.00047
3.95 0.98858 0.00047	3.95 0.99408 0.00048	3.85 0.98897 0.00046
4.00 0.99563 0.00047	4.00 1.00228 0.00047	3.90 0.99614 0.00047
4.05 1.00274 0.00047	4.05 1.00879 0.00047	3.95 1.00323 0.00046
4.10 1.00958 0.00046	4.10 1.01579 0.00045	4.00 1.01043 0.00049
4.15 1.01713 0.00047	4.15 1.02298 0.00047	4.05 1.01842 0.00046
4.20 1.02393 0.00046	4.20 1.03045 0.00047	4.10 1.02425 0.00047

130	150	200
3.40 0.92142 0.00045	3.30 0.90803 0.00047	3.30 0.91453 0.00049
3.45 0.92971 0.00047	3.35 0.91776 0.00047	3.35 0.92324 0.00048
3.50 0.93812 0.00047	3.40 0.92559 0.00047	3.40 0.93143 0.00047
3.55 0.94576 0.00047	3.45 0.93393 0.00046	3.45 0.93979 0.00049
3.60 0.95374 0.00045	3.50 0.94267 0.00048	3.50 0.94748 0.00047
3.65 0.96120 0.00048	3.55 0.94985 0.00047	3.55 0.95572 0.00048
3.70 0.96986 0.00048	3.60 0.95803 0.00046	3.60 0.96359 0.00048
3.75 0.97771 0.00048	3.65 0.96641 0.00047	3.65 0.97186 0.00048
3.80 0.98621 0.00046	3.70 0.97401 0.00046	3.70 0.97957 0.00049
3.85 0.99266 0.00046	3.75 0.98176 0.00047	3.75 0.98680 0.00048
3.90 0.99852 0.00047	3.80 0.98906 0.00048	3.80 0.99415 0.00047
3.95 1.00600 0.00047	3.85 0.99699 0.00047	3.85 1.00278 0.00047
4.00 1.01427 0.00047	3.90 1.00389 0.00048	3.90 1.00870 0.00048
4.05 1.02139 0.00047	3.95 1.01110 0.00047	3.95 1.01700 0.00047
4.10 1.02898 0.00048	4.00 1.01870 0.00048	4.00 1.02408 0.00048

239	250	359
3.30 0.91633 0.00049	3.30 0.91652 0.00048	3.30 0.91408 0.00047
3.35 0.92418 0.00047	3.35 0.92476 0.00046	3.35 0.92140 0.00047
3.40 0.93223 0.00048	3.40 0.93306 0.00047	3.40 0.93071 0.00048
3.45 0.94096 0.00049	3.45 0.94125 0.00048	3.45 0.93840 0.00048

3.50 0.94939 0.00048	3.50 0.94932 0.00047	3.50 0.94634 0.00048
3.55 0.95655 0.00048	3.55 0.95753 0.00048	3.55 0.95414 0.00048
3.60 0.96446 0.00049	3.60 0.96458 0.00047	3.60 0.96094 0.00047
3.65 0.97264 0.00048	3.65 0.97275 0.00047	3.65 0.96940 0.00049
3.70 0.98075 0.00046	3.70 0.98027 0.00046	3.70 0.97706 0.00046
3.75 0.98724 0.00050	3.75 0.98794 0.00047	3.75 0.98457 0.00049
3.80 0.99591 0.00047	3.80 0.99526 0.00046	3.80 0.99202 0.00048
3.85 1.00333 0.00047	3.85 1.00295 0.00048	3.85 0.99953 0.00049
3.90 1.01014 0.00047	3.90 1.01025 0.00048	3.90 1.00687 0.00049
3.95 1.01803 0.00048	3.95 1.01787 0.00049	3.95 1.01395 0.00047
4.00 1.02492 0.00048	4.00 1.02421 0.00048	4.00 1.02037 0.00049

478	500	600
3.40 0.92125 0.00047	3.40 0.91954 0.00048	3.50 0.91687 0.00049
3.45 0.92898 0.00047	3.45 0.92721 0.00049	3.55 0.92596 0.00049
3.50 0.93722 0.00047	3.50 0.93565 0.00049	3.60 0.93242 0.00049
3.55 0.94590 0.00048	3.55 0.94288 0.00048	3.65 0.94057 0.00046
3.60 0.95234 0.00048	3.60 0.95075 0.00047	3.70 0.94843 0.00047
3.65 0.96077 0.00048	3.65 0.95922 0.00050	3.75 0.95550 0.00048
3.70 0.96834 0.00047	3.70 0.96559 0.00048	3.80 0.96316 0.00048
3.75 0.97616 0.00048	3.75 0.97328 0.00048	3.85 0.96986 0.00047
3.80 0.98319 0.00047	3.80 0.98021 0.00047	3.90 0.97745 0.00049
3.85 0.98997 0.00048	3.85 0.98805 0.00047	3.95 0.98496 0.00047
3.90 0.99772 0.00048	3.90 0.99584 0.00048	4.00 0.99155 0.00048
3.95 1.00447 0.00048	3.95 1.00284 0.00049	4.05 0.99876 0.00049
4.00 1.01215 0.00048	4.00 1.00909 0.00048	4.10 1.00530 0.00048
4.05 1.01863 0.00049	4.05 1.01672 0.00048	4.15 1.01325 0.00049
4.10 1.02573 0.00048	4.10 1.02295 0.00049	4.20 1.01916 0.00047

650	700	750
3.60 0.91861 0.00047	3.70 0.90969 0.00048	4.20 0.92173 0.00047
3.65 0.92592 0.00049	3.75 0.91751 0.00047	4.25 0.92905 0.00049
3.70 0.93307 0.00047	3.80 0.92536 0.00048	4.30 0.93532 0.00048
3.75 0.94153 0.00047	3.85 0.93161 0.00048	4.35 0.94162 0.00049
3.85 0.95633 0.00048	3.90 0.93840 0.00048	4.40 0.94764 0.00048
3.90 0.96285 0.00048	3.95 0.94642 0.00048	4.45 0.95416 0.00050
3.95 0.96966 0.00048	4.00 0.95327 0.00049	4.50 0.96036 0.00048
4.00 0.97721 0.00047	4.05 0.96011 0.00050	4.55 0.96682 0.00049
4.05 0.98513 0.00048	4.10 0.96702 0.00048	4.60 0.97310 0.00048
4.10 0.99169 0.00050	4.15 0.97464 0.00049	4.65 0.97929 0.00049
4.15 0.99842 0.00048	4.20 0.98134 0.00049	4.70 0.98511 0.00048
4.20 1.00556 0.00049	4.25 0.98752 0.00049	4.75 0.99071 0.00047
4.25 1.01135 0.00048	4.30 0.99363 0.00049	4.80 0.99771 0.00048
4.30 1.01796 0.00050	4.35 1.00031 0.00050	4.85 1.00333 0.00048
	4.40 1.00730 0.00048	4.90 1.00962 0.00049
	4.45 1.01347 0.00048	4.95 1.01412 0.00047
	4.50 1.01992 0.00049	5.00 1.02073 0.00050

752	754	755
4.20 0.91476 0.00047	4.30 0.91818 0.00047	4.40 0.92051 0.00048
4.25 0.92105 0.00049	4.35 0.92536 0.00047	4.45 0.92721 0.00049
4.30 0.92768 0.00048	4.40 0.93193 0.00047	4.50 0.93347 0.00049
4.35 0.93467 0.00047	4.45 0.93796 0.00048	4.55 0.93878 0.00049
4.40 0.94106 0.00049	4.50 0.94409 0.00047	4.60 0.94641 0.00048
4.45 0.94720 0.00047	4.55 0.95003 0.00049	4.65 0.95172 0.00049
4.50 0.95365 0.00048	4.60 0.95670 0.00048	4.70 0.95755 0.00048
4.55 0.95985 0.00049	4.65 0.96254 0.00047	4.75 0.96407 0.00048
4.60 0.96602 0.00048	4.70 0.96896 0.00048	4.80 0.96945 0.00050
4.65 0.97166 0.00048	4.75 0.97442 0.00048	4.85 0.97556 0.00047
4.70 0.97799 0.00048	4.80 0.98084 0.00050	4.90 0.98133 0.00049
4.75 0.98434 0.00049	4.85 0.98637 0.00048	4.95 0.98770 0.00047
4.80 0.98957 0.00049	4.90 0.99224 0.00048	5.00 0.99318 0.00049
4.85 0.99578 0.00047	4.95 0.99868 0.00048	5.05 0.99879 0.00048
4.90 1.00174 0.00047	5.00 1.00283 0.00049	5.10 1.00475 0.00049
4.95 1.00834 0.00047	5.05 1.00931 0.00048	5.15 1.01018 0.00050
5.00 1.01299 0.00048	5.10 1.01526 0.00049	5.20 1.01567 0.00047
5.05 1.01916 0.00048		5.25 1.02150 0.00049
5.10 1.02527 0.00049		5.30 1.02633 0.00048

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12	15	20
7.00 0.92255 0.00028	5.60 0.92558 0.00031	4.40 0.92416 0.00033
7.10 0.92718 0.00026	5.65 0.92908 0.00031	4.45 0.92826 0.00034
7.20 0.93167 0.00027	5.70 0.93255 0.00031	4.50 0.93315 0.00034
7.30 0.93661 0.00026	5.75 0.93558 0.00030	4.55 0.93790 0.00033
7.40 0.94055 0.00027	5.80 0.93878 0.00030	4.60 0.94223 0.00034
7.50 0.94484 0.00027	5.85 0.94210 0.00030	4.65 0.94669 0.00034
7.60 0.94916 0.00027	5.90 0.94512 0.00030	4.70 0.95136 0.00033
7.70 0.95353 0.00027	5.95 0.94838 0.00031	4.75 0.95546 0.00033
7.80 0.95750 0.00027	6.00 0.95129 0.00030	4.80 0.95974 0.00033
7.90 0.96120 0.00027	6.05 0.95428 0.00030	4.85 0.96412 0.00034
8.00 0.96497 0.00026	6.10 0.95794 0.00030	4.90 0.96798 0.00034
8.10 0.96916 0.00026	6.15 0.96022 0.00029	4.95 0.97175 0.00033
8.20 0.97257 0.00027	6.20 0.96344 0.00030	5.00 0.97573 0.00033
8.30 0.97676 0.00026	6.25 0.96641 0.00030	5.05 0.98029 0.00033
8.40 0.97981 0.00026	6.30 0.96885 0.00029	5.10 0.98410 0.00033
8.50 0.98357 0.00027	6.35 0.97201 0.00031	5.15 0.98859 0.00033
8.60 0.98693 0.00026	6.40 0.97475 0.00030	5.20 0.99145 0.00033
8.70 0.99056 0.00026	6.45 0.97811 0.00030	5.25 0.99593 0.00034
8.80 0.99364 0.00026	6.50 0.98036 0.00029	5.30 0.99871 0.00033
8.90 0.99689 0.00025	6.55 0.98294 0.00029	5.35 1.00353 0.00034
9.00 1.00031 0.00025	6.60 0.98578 0.00029	5.40 1.00736 0.00033
9.10 1.00339 0.00026	6.65 0.98828 0.00029	5.45 1.00996 0.00033
9.20 1.00590 0.00025	6.70 0.99154 0.00030	5.50 1.01436 0.00034

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9.30 1.00934 0.00025	6.75 0.99321 0.00029	5.55 1.01759 0.00033
9.40 1.01292 0.00026	6.80 0.99613 0.00029	5.60 1.02163 0.00032
9.50 1.01513 0.00025	6.85 0.99933 0.00029	
	6.90 1.00183 0.00029	
	6.95 1.00397 0.00028	
	7.00 1.00632 0.00029	
	7.05 1.00906 0.00029	
	7.10 1.01164 0.00030	
	7.15 1.01370 0.00030	
	7.20 1.01552 0.00028	

25	30	32
3.80 0.92531 0.00036	3.40 0.92349 0.00037	3.30 0.92499 0.00038
3.85 0.93098 0.00036	3.45 0.92917 0.00037	3.35 0.93106 0.00037
3.90 0.93583 0.00036	3.50 0.93535 0.00038	3.40 0.93777 0.00036
3.95 0.94174 0.00035	3.55 0.94161 0.00037	3.45 0.94363 0.00037
4.00 0.94663 0.00036	3.60 0.94750 0.00038	3.50 0.95012 0.00038
4.05 0.95171 0.00035	3.65 0.95346 0.00037	3.55 0.95624 0.00038
4.10 0.95749 0.00035	3.70 0.95937 0.00038	3.60 0.96174 0.00038
4.15 0.96147 0.00036	3.75 0.96496 0.00037	3.65 0.96853 0.00037
4.20 0.96683 0.00035	3.80 0.97058 0.00038	3.70 0.97398 0.00037
4.25 0.97173 0.00035	3.85 0.97665 0.00037	3.75 0.97964 0.00037
4.30 0.97701 0.00036	3.90 0.98142 0.00037	3.80 0.98512 0.00037
4.35 0.98252 0.00035	3.95 0.98727 0.00037	3.85 0.99124 0.00036
4.40 0.98689 0.00036	4.00 0.99177 0.00038	3.90 0.99660 0.00038
4.45 0.99186 0.00036	4.05 0.99786 0.00038	3.95 1.00263 0.00038
4.50 0.99665 0.00036	4.10 1.00274 0.00037	4.00 1.00771 0.00038
4.55 1.00079 0.00035	4.15 1.00864 0.00037	4.05 1.01219 0.00036
4.60 1.00504 0.00036	4.20 1.01273 0.00037	4.10 1.01812 0.00038
4.65 1.01004 0.00035	4.25 1.01867 0.00038	
4.70 1.01523 0.00035	4.30 1.02327 0.00037	
4.75 1.01880 0.00036		
4.80 1.02304 0.00035		

35	40	50
3.10 0.91782 0.00038	2.90 0.91629 0.00039	2.60 0.91064 0.00040
3.15 0.92376 0.00038	2.95 0.92382 0.00040	2.65 0.91894 0.00039
3.20 0.93148 0.00039	3.00 0.93071 0.00040	2.70 0.92658 0.00040
3.25 0.93750 0.00039	3.05 0.93757 0.00039	2.75 0.93462 0.00041
3.30 0.94390 0.00039	3.10 0.94453 0.00039	2.80 0.94189 0.00042
3.35 0.95055 0.00039	3.15 0.95135 0.00040	2.85 0.94862 0.00039
3.40 0.95740 0.00039	3.20 0.95868 0.00039	2.90 0.95602 0.00041
3.45 0.96322 0.00038	3.25 0.96537 0.00039	2.95 0.96362 0.00041
3.50 0.96916 0.00038	3.30 0.97145 0.00040	3.00 0.97011 0.00041
3.55 0.97541 0.00040	3.35 0.97810 0.00039	3.05 0.97791 0.00040
3.60 0.98227 0.00038	3.40 0.98450 0.00039	3.10 0.98470 0.00042
3.65 0.98759 0.00038	3.45 0.99070 0.00039	3.15 0.99198 0.00042

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3.70 0.99380 0.00038	3.50 0.99620 0.00039	3.20 0.99799 0.00041
3.75 0.99923 0.00038	3.55 1.00323 0.00038	3.25 1.00490 0.00041
3.80 1.00512 0.00038	3.60 1.00908 0.00039	3.30 1.01146 0.00040
3.85 1.01040 0.00039	3.65 1.01556 0.00039	3.35 1.01767 0.00040
3.90 1.01653 0.00038	3.70 1.02104 0.00039	3.40 1.02486 0.00041
3.95 1.02161 0.00039		
4.00 1.02836 0.00039		

60	70	80
2.50 0.92312 0.00041	2.30 0.91019 0.00041	2.30 0.92580 0.00041
2.55 0.93130 0.00041	2.35 0.91876 0.00041	2.35 0.93474 0.00043
2.60 0.93914 0.00041	2.40 0.92639 0.00042	2.40 0.94222 0.00043
2.65 0.94698 0.00041	2.45 0.93539 0.00041	2.45 0.95126 0.00042
2.70 0.95413 0.00041	2.50 0.94272 0.00043	2.50 0.95873 0.00043
2.75 0.96139 0.00041	2.55 0.95073 0.00043	2.55 0.96689 0.00043
2.80 0.96975 0.00041	2.60 0.95938 0.00042	2.60 0.97425 0.00042
2.85 0.97771 0.00042	2.65 0.96631 0.00041	2.65 0.98202 0.00041
2.90 0.98404 0.00041	2.70 0.97443 0.00042	2.70 0.98968 0.00042
2.95 0.99157 0.00041	2.75 0.98207 0.00041	2.75 0.99719 0.00041
3.00 0.99785 0.00041	2.80 0.98960 0.00042	2.80 1.00527 0.00042
3.05 1.00559 0.00040	2.85 0.99697 0.00042	2.85 1.01206 0.00042
3.10 1.01278 0.00041	2.90 1.00349 0.00041	2.90 1.01897 0.00041
3.15 1.01904 0.00040	2.95 1.01034 0.00041	
3.20 1.02535 0.00041	3.00 1.01811 0.00042	

90	100	120
2.20 0.92204 0.00042	2.10 0.91388 0.00044	2.00 0.91101 0.00043
2.25 0.93011 0.00042	2.15 0.92349 0.00043	2.05 0.91995 0.00043
2.30 0.93783 0.00043	2.20 0.93158 0.00042	2.10 0.92884 0.00043
2.35 0.94759 0.00042	2.25 0.93995 0.00042	2.15 0.93780 0.00043
2.40 0.95483 0.00040	2.30 0.94873 0.00041	2.20 0.94608 0.00043
2.45 0.96279 0.00043	2.35 0.95653 0.00043	2.25 0.95484 0.00043
2.50 0.97079 0.00043	2.40 0.96462 0.00043	2.30 0.96298 0.00042
2.55 0.97830 0.00042	2.45 0.97287 0.00042	2.35 0.97045 0.00043
2.60 0.98663 0.00043	2.50 0.98071 0.00042	2.40 0.97859 0.00043
2.65 0.99410 0.00042	2.55 0.98857 0.00041	2.45 0.98762 0.00043
2.70 1.00119 0.00042	2.60 0.99583 0.00043	2.50 0.99480 0.00042
2.75 1.00968 0.00042	2.65 1.00378 0.00043	2.55 1.00269 0.00042
2.80 1.01700 0.00042	2.70 1.01116 0.00043	2.60 1.01078 0.00043
	2.75 1.01860 0.00042	2.65 1.01792 0.00043
	2.80 1.02630 0.00042	2.70 1.02472 0.00042

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130	150	200
2.00 0.91762 0.00043	1.90 0.90875 0.00042	1.90 0.92355 0.00043
2.05 0.92638 0.00043	1.95 0.91762 0.00043	1.95 0.93290 0.00042
2.10 0.93569 0.00042	2.00 0.92739 0.00042	2.00 0.94093 0.00044
2.15 0.94442 0.00042	2.05 0.93588 0.00043	2.05 0.94971 0.00043
2.20 0.95228 0.00043	2.10 0.94394 0.00043	2.10 0.95782 0.00043
2.25 0.96068 0.00043	2.15 0.95263 0.00042	2.15 0.96586 0.00044
2.30 0.96869 0.00042	2.20 0.96104 0.00043	2.20 0.97413 0.00042
2.35 0.97673 0.00044	2.25 0.96960 0.00044	2.25 0.98215 0.00043
2.40 0.98452 0.00043	2.30 0.97775 0.00044	2.30 0.99126 0.00043
2.45 0.99271 0.00042	2.35 0.98539 0.00044	2.35 0.99873 0.00042
2.50 1.00021 0.00042	2.40 0.99324 0.00044	2.40 1.00564 0.00043
2.55 1.00905 0.00044	2.45 1.00113 0.00044	2.45 1.01369 0.00043
2.60 1.01562 0.00042	2.50 1.00916 0.00044	2.50 1.02137 0.00044
	2.55 1.01706 0.00042	
	2.60 1.02341 0.00044	

239	250	359
1.80 0.91304 0.00042	1.80 0.91411 0.00043	1.80 0.92295 0.00044
1.85 0.92174 0.00044	1.85 0.92321 0.00041	1.85 0.93093 0.00043
1.90 0.93093 0.00042	1.90 0.93203 0.00044	1.90 0.93955 0.00043
1.95 0.93886 0.00044	1.95 0.94027 0.00043	1.95 0.94751 0.00043
2.00 0.94772 0.00043	2.00 0.94857 0.00044	2.00 0.95616 0.00044
2.05 0.95569 0.00043	2.05 0.95695 0.00043	2.05 0.96460 0.00044
2.10 0.96401 0.00043	2.10 0.96547 0.00044	2.10 0.97147 0.00043
2.15 0.97291 0.00043	2.15 0.97403 0.00043	2.15 0.97926 0.00043
2.20 0.98062 0.00044	2.20 0.98164 0.00043	2.20 0.98844 0.00043
2.25 0.98901 0.00042	2.25 0.98959 0.00043	2.25 0.99554 0.00044
2.30 0.99625 0.00044	2.30 0.99770 0.00044	2.30 1.00390 0.00044
2.35 1.00422 0.00043	2.35 1.00595 0.00042	2.35 1.00986 0.00043
2.40 1.01228 0.00043	2.40 1.01369 0.00045	2.40 1.01836 0.00043
2.45 1.01903 0.00044	2.45 1.02052 0.00043	
2.50 1.02664 0.00044	2.50 1.02797 0.00044	

478	500	600
1.80 0.92377 0.00043	1.80 0.92388 0.00043	1.80 0.91720 0.00044
1.85 0.93189 0.00044	1.85 0.93160 0.00043	1.85 0.92579 0.00043
1.90 0.94016 0.00043	1.90 0.93986 0.00044	1.90 0.93369 0.00043
1.95 0.94838 0.00043	1.95 0.94802 0.00044	1.95 0.94099 0.00043
2.00 0.95636 0.00044	2.00 0.95570 0.00043	2.00 0.94915 0.00044
2.05 0.96436 0.00044	2.05 0.96364 0.00043	2.05 0.95602 0.00044
2.10 0.97230 0.00044	2.10 0.97189 0.00043	2.10 0.96324 0.00044
2.15 0.98033 0.00044	2.15 0.97924 0.00043	2.15 0.97206 0.00046
2.20 0.98710 0.00043	2.20 0.98697 0.00044	2.20 0.97905 0.00045
2.25 0.99485 0.00045	2.25 0.99436 0.00042	2.25 0.98644 0.00044
2.30 1.00306 0.00045	2.30 1.00191 0.00044	2.30 0.99319 0.00044
2.35 1.01024 0.00043	2.35 1.00938 0.00043	2.35 1.00067 0.00043

2.40 1.01685 0.00044	2.40 1.01627 0.00045	2.40 1.00824 0.00043
		2.45 1.01502 0.00043
		2.50 1.02174 0.00045

650	700	750
1.80 0.91100 0.00044	1.90 0.91535 0.00042	2.10 0.91701 0.00043
1.85 0.91943 0.00043	1.95 0.92377 0.00044	2.15 0.92342 0.00045
1.90 0.92700 0.00043	2.00 0.93124 0.00043	2.20 0.92984 0.00043
1.95 0.93464 0.00042	2.05 0.93762 0.00044	2.25 0.93716 0.00044
2.00 0.94235 0.00043	2.10 0.94546 0.00045	2.30 0.94331 0.00045
2.05 0.95020 0.00044	2.15 0.95225 0.00043	2.35 0.95028 0.00046
2.10 0.95709 0.00044	2.20 0.96005 0.00044	2.40 0.95569 0.00044
2.15 0.96507 0.00044	2.25 0.96704 0.00044	2.45 0.96274 0.00044
2.20 0.97190 0.00043	2.30 0.97437 0.00044	2.50 0.96794 0.00044
2.25 0.97866 0.00044	2.35 0.98024 0.00043	2.55 0.97549 0.00044
2.30 0.98605 0.00043	2.40 0.98788 0.00044	2.60 0.98133 0.00043
2.35 0.99387 0.00045	2.50 1.00000 0.00043	2.65 0.98730 0.00044
2.40 1.00051 0.00045	2.55 1.00747 0.00045	2.70 0.99395 0.00044
2.45 1.00749 0.00045	2.60 1.01349 0.00045	2.75 0.99921 0.00044
2.50 1.01450 0.00044	2.65 1.02015 0.00045	2.80 1.00548 0.00046
2.55 1.02143 0.00044	2.70 1.02678 0.00045	2.85 1.01030 0.00044
2.60 1.02834 0.00043		2.90 1.01667 0.00044

752	754	755
2.20 0.92561 0.00044	2.20 0.92218 0.00044	2.20 0.91686 0.00043
2.25 0.93351 0.00043	2.25 0.92843 0.00042	2.25 0.92305 0.00044
2.30 0.93935 0.00043	2.30 0.93508 0.00045	2.30 0.92899 0.00043
2.35 0.94599 0.00045	2.35 0.94092 0.00045	2.35 0.93581 0.00044
2.40 0.95238 0.00043	2.40 0.94790 0.00044	2.40 0.94246 0.00044
2.45 0.95892 0.00044	2.45 0.95343 0.00042	2.45 0.94856 0.00045
2.50 0.96504 0.00043	2.50 0.95975 0.00044	2.50 0.95338 0.00044
2.55 0.97156 0.00044	2.55 0.96615 0.00044	2.55 0.96045 0.00045
2.60 0.97751 0.00044	2.60 0.97250 0.00044	2.60 0.96631 0.00043
2.65 0.98358 0.00045	2.65 0.97785 0.00044	2.65 0.97223 0.00045
2.70 0.98850 0.00044	2.70 0.98389 0.00045	2.70 0.97784 0.00043
2.75 0.99542 0.00043	2.75 0.99008 0.00044	2.75 0.98437 0.00044
2.80 1.00056 0.00044	2.80 0.99620 0.00045	2.80 0.98979 0.00043
2.85 1.00747 0.00045	2.85 1.00158 0.00043	2.85 0.99521 0.00045
2.90 1.01312 0.00044	2.90 1.00721 0.00043	2.90 1.00203 0.00044
2.95 1.01822 0.00044	2.95 1.01309 0.00045	2.95 1.00658 0.00044
3.00 1.02429 0.00044	3.00 1.01826 0.00046	3.00 1.01226 0.00045
		3.05 1.01730 0.00045
		3.10 1.02272 0.00045

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12	15	20
10.70 0.92378 0.00029	8.80 0.91879 0.00033	7.50 0.92191 0.00037
10.80 0.92755 0.00028	8.90 0.92433 0.00032	7.55 0.92568 0.00037
10.90 0.93142 0.00029	9.00 0.92986 0.00032	7.60 0.93035 0.00038
11.00 0.93459 0.00028	9.10 0.93511 0.00032	7.65 0.93457 0.00038
11.10 0.93875 0.00028	9.20 0.94069 0.00033	7.70 0.93790 0.00037
11.20 0.94232 0.00028	9.30 0.94528 0.00032	7.75 0.94119 0.00037
11.30 0.94557 0.00029	9.40 0.95039 0.00033	7.80 0.94572 0.00037
11.40 0.94849 0.00028	9.50 0.95623 0.00031	7.85 0.94933 0.00037
11.50 0.95151 0.00027	9.60 0.96065 0.00032	7.90 0.95347 0.00035
11.60 0.95495 0.00028	9.70 0.96548 0.00032	7.95 0.95651 0.00037
11.70 0.95758 0.00028	9.80 0.97051 0.00031	8.00 0.95990 0.00037
11.80 0.96098 0.00028	9.90 0.97448 0.00031	8.05 0.96437 0.00037
11.90 0.96416 0.00028	10.00 0.97956 0.00031	8.10 0.96751 0.00037
12.00 0.96642 0.00027	10.10 0.98435 0.00032	8.15 0.97044 0.00037
12.10 0.97001 0.00028	10.20 0.98894 0.00031	8.20 0.97424 0.00037
12.20 0.97267 0.00027	10.30 0.99328 0.00031	8.25 0.97826 0.00036
12.30 0.97559 0.00028	10.40 0.99680 0.00031	8.30 0.98166 0.00037
12.40 0.97837 0.00027	10.50 1.00146 0.00031	8.35 0.98473 0.00036
12.50 0.98120 0.00027	10.60 1.00527 0.00031	8.40 0.98841 0.00036
12.60 0.98346 0.00027	10.70 1.00939 0.00031	8.45 0.99201 0.00036
12.70 0.98691 0.00026	10.80 1.01316 0.00030	8.50 0.99503 0.00036
12.80 0.98912 0.00027	10.90 1.01781 0.00031	8.55 0.99828 0.00036
12.90 0.99173 0.00027		8.60 1.00123 0.00035
13.00 0.99423 0.00027		8.65 1.00415 0.00037
13.10 0.99611 0.00027		8.70 1.00831 0.00036
13.20 0.99860 0.00027		8.75 1.01065 0.00036
13.30 1.00064 0.00026		8.80 1.01468 0.00036
13.40 1.00381 0.00027		8.85 1.01732 0.00036
13.50 1.00579 0.00025		8.90 1.02005 0.00036
13.60 1.00745 0.00026		
13.70 1.01039 0.00026		
13.80 1.01278 0.00026		
13.90 1.01416 0.00025		

25	30	32
6.80 0.91854 0.00040	6.40 0.91934 0.00042	6.30 0.92232 0.00042
6.85 0.92378 0.00040	6.45 0.92593 0.00042	6.35 0.92794 0.00043
6.90 0.92859 0.00040	6.50 0.93021 0.00041	6.40 0.93244 0.00041
6.95 0.93426 0.00039	6.55 0.93615 0.00041	6.45 0.93880 0.00042
7.00 0.93787 0.00041	6.60 0.94119 0.00042	6.50 0.94404 0.00043
7.05 0.94313 0.00040	6.65 0.94684 0.00041	6.55 0.94985 0.00042
7.10 0.94786 0.00038	6.70 0.95180 0.00042	6.60 0.95572 0.00042
7.15 0.95214 0.00039	6.75 0.95672 0.00041	6.65 0.96026 0.00043
7.20 0.95621 0.00040	6.80 0.96192 0.00041	6.70 0.96514 0.00043
7.25 0.96058 0.00041	6.85 0.96682 0.00043	6.75 0.97100 0.00041

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7.30 0.96591 0.00040	6.90 0.97193 0.00040	6.80 0.97611 0.00042
7.35 0.96995 0.00039	6.95 0.97679 0.00041	6.85 0.98109 0.00041
7.40 0.97437 0.00039	7.00 0.98148 0.00042	6.90 0.98565 0.00041
7.45 0.97837 0.00039	7.05 0.98689 0.00040	6.95 0.99097 0.00043
7.50 0.98328 0.00040	7.10 0.99209 0.00040	7.00 0.99597 0.00042
7.55 0.98720 0.00038	7.15 0.99613 0.00040	7.05 1.00122 0.00041
7.60 0.99102 0.00039	7.20 1.00053 0.00041	7.10 1.00635 0.00041
7.65 0.99516 0.00040	7.25 1.00563 0.00041	7.15 1.01064 0.00042
7.70 0.99937 0.00039	7.30 1.01049 0.00043	7.20 1.01456 0.00043
7.75 1.00329 0.00039	7.35 1.01516 0.00041	7.25 1.02007 0.00042
7.80 1.00803 0.00038	7.40 1.01964 0.00042	7.30 1.02478 0.00042
7.85 1.01112 0.00039		
7.90 1.01490 0.00039		
7.95 1.01882 0.00038		
8.00 1.02284 0.00038		

35	40	50
6.10 0.91560 0.00043	5.90 0.91374 0.00044	5.70 0.92116 0.00047
6.15 0.92178 0.00043	5.95 0.92054 0.00045	5.75 0.92818 0.00045
6.20 0.92800 0.00043	6.00 0.92702 0.00044	5.80 0.93478 0.00045
6.25 0.93349 0.00044	6.05 0.93244 0.00045	5.85 0.94206 0.00045
6.30 0.93977 0.00043	6.10 0.93911 0.00045	5.90 0.94783 0.00047
6.35 0.94486 0.00043	6.15 0.94534 0.00044	5.95 0.95460 0.00045
6.40 0.95075 0.00042	6.20 0.95139 0.00045	6.00 0.96170 0.00045
6.45 0.95701 0.00043	6.25 0.95731 0.00045	6.05 0.96765 0.00046
6.50 0.96189 0.00043	6.30 0.96280 0.00044	6.10 0.97341 0.00046
6.55 0.96760 0.00044	6.35 0.96957 0.00044	6.15 0.98055 0.00046
6.60 0.97306 0.00043	6.40 0.97505 0.00044	6.20 0.98577 0.00046
6.65 0.97932 0.00044	6.45 0.98060 0.00046	6.25 0.99159 0.00045
6.70 0.98337 0.00044	6.50 0.98635 0.00044	6.30 0.99819 0.00045
6.75 0.98913 0.00043	6.55 0.99189 0.00043	6.35 1.00460 0.00046
6.80 0.99367 0.00043	6.60 0.99757 0.00045	6.40 1.01046 0.00044
6.85 0.99940 0.00042	6.65 1.00354 0.00044	6.45 1.01535 0.00045
6.90 1.00467 0.00043	6.70 1.00786 0.00044	6.50 1.02157 0.00045
6.95 1.00940 0.00043	6.75 1.01414 0.00044	
7.00 1.01465 0.00042	6.80 1.01872 0.00044	
7.05 1.01912 0.00043		
7.10 1.02450 0.00042		

60	70	80
5.50 0.91476 0.00047	5.40 0.91535 0.00047	5.30 0.91133 0.00047
5.55 0.92170 0.00046	5.45 0.92359 0.00047	5.35 0.91979 0.00048
5.60 0.92949 0.00046	5.50 0.93013 0.00047	5.40 0.92548 0.00047
5.65 0.93503 0.00048	5.55 0.93795 0.00048	5.45 0.93361 0.00049
5.70 0.94263 0.00046	5.60 0.94519 0.00047	5.50 0.94182 0.00047
5.75 0.94952 0.00047	5.65 0.95230 0.00048	5.55 0.94760 0.00047
5.80 0.95680 0.00045	5.70 0.96068 0.00047	5.60 0.95522 0.00048

5.85 0.96271 0.00047	5.75 0.96614 0.00048	5.65 0.96285 0.00046
5.90 0.97058 0.00047	5.80 0.97196 0.00047	5.70 0.96977 0.00047
5.95 0.97721 0.00047	5.85 0.98001 0.00047	5.75 0.97571 0.00049
6.00 0.98370 0.00046	5.90 0.98669 0.00047	5.80 0.98391 0.00045
6.05 0.98949 0.00046	5.95 0.99255 0.00046	5.85 0.98996 0.00048
6.10 0.99569 0.00048	6.00 0.99989 0.00046	5.90 0.99645 0.00049
6.15 1.00203 0.00045	6.05 1.00612 0.00047	5.95 1.00339 0.00048
6.20 1.00920 0.00047	6.10 1.01211 0.00047	6.00 1.01006 0.00049
6.25 1.01471 0.00046	6.15 1.01825 0.00048	6.05 1.01574 0.00049
6.30 1.02063 0.00047	6.20 1.02477 0.00047	6.10 1.02300 0.00049

90	100	120
5.30 0.91872 0.00048	5.20 0.90813 0.00048	5.20 0.91521 0.00049
5.35 0.92578 0.00048	5.25 0.91656 0.00048	5.25 0.92293 0.00049
5.40 0.93332 0.00049	5.30 0.92460 0.00049	5.30 0.93034 0.00047
5.45 0.94188 0.00048	5.35 0.93212 0.00049	5.35 0.93894 0.00049
5.50 0.94927 0.00048	5.40 0.93964 0.00049	5.40 0.94649 0.00048
5.55 0.95637 0.00048	5.45 0.94679 0.00049	5.45 0.95349 0.00049
5.60 0.96285 0.00047	5.50 0.95441 0.00050	5.50 0.96122 0.00049
5.65 0.97066 0.00049	5.55 0.96292 0.00048	5.55 0.96792 0.00049
5.70 0.97873 0.00048	5.60 0.96927 0.00049	5.60 0.97630 0.00049
5.75 0.98433 0.00047	5.65 0.97676 0.00049	5.65 0.98236 0.00049
5.80 0.99161 0.00047	5.70 0.98279 0.00049	5.70 0.98895 0.00050
5.85 0.99836 0.00048	5.75 0.99026 0.00048	5.75 0.99684 0.00048
5.90 1.00500 0.00047	5.80 0.99762 0.00047	5.80 1.00369 0.00048
5.95 1.01115 0.00047	5.85 1.00379 0.00049	5.85 1.01047 0.00048
6.00 1.01814 0.00048	5.90 1.01009 0.00048	5.90 1.01735 0.00048
6.05 1.02464 0.00047	5.95 1.01734 0.00048	5.95 1.02392 0.00048
6.10 1.03008 0.00046	6.00 1.02537 0.00046	6.00 1.03117 0.00049

130	150	200
5.20 0.91791 0.00047	5.20 0.92138 0.00049	5.20 0.92260 0.00048
5.25 0.92591 0.00049	5.25 0.92890 0.00049	5.25 0.92984 0.00049
5.30 0.93408 0.00049	5.30 0.93635 0.00048	5.30 0.93781 0.00049
5.35 0.94185 0.00048	5.35 0.94394 0.00049	5.35 0.94483 0.00049
5.40 0.94991 0.00048	5.40 0.95149 0.00050	5.40 0.95195 0.00049
5.45 0.95685 0.00049	5.45 0.95872 0.00049	5.45 0.96013 0.00047
5.50 0.96400 0.00049	5.50 0.96546 0.00049	5.50 0.96736 0.00049
5.55 0.97148 0.00049	5.55 0.97330 0.00050	5.55 0.97529 0.00049
5.60 0.97869 0.00047	5.60 0.98182 0.00049	5.60 0.98199 0.00048
5.65 0.98658 0.00048	5.65 0.98821 0.00050	5.65 0.98947 0.00050
5.70 0.99292 0.00049	5.70 0.99538 0.00050	5.70 0.99562 0.00050
5.75 1.00032 0.00049	5.75 1.00251 0.00049	5.75 1.00259 0.00050
5.80 1.00685 0.00049	5.80 1.00888 0.00050	5.80 1.01048 0.00049
5.85 1.01333 0.00049	5.85 1.01585 0.00049	5.85 1.01669 0.00049
5.90 1.02005 0.00048	5.90 1.02265 0.00048	5.90 1.02285 0.00048

239	250	359
5.20 0.91921 0.00047	5.20 0.91872 0.00049	5.30 0.91815 0.00050
5.25 0.92548 0.00048	5.25 0.92548 0.00047	5.35 0.92627 0.00048
5.30 0.93385 0.00048	5.30 0.93345 0.00049	5.40 0.93369 0.00048
5.35 0.94102 0.00049	5.35 0.94082 0.00048	5.45 0.94114 0.00049
5.40 0.94907 0.00049	5.40 0.94846 0.00050	5.50 0.94823 0.00047
5.45 0.95675 0.00049	5.45 0.95637 0.00049	5.55 0.95588 0.00049
5.50 0.96490 0.00049	5.50 0.96289 0.00050	5.60 0.96375 0.00049
5.55 0.97139 0.00049	5.55 0.97104 0.00050	5.65 0.97053 0.00049
5.60 0.97860 0.00050	5.60 0.97712 0.00048	5.70 0.97693 0.00049
5.65 0.98561 0.00050	5.65 0.98452 0.00050	5.75 0.98500 0.00047
5.70 0.99370 0.00048	5.70 0.99103 0.00047	5.80 0.99156 0.00048
5.75 0.99986 0.00049	5.75 0.99844 0.00051	5.85 0.99831 0.00050
5.80 1.00757 0.00048	5.80 1.00532 0.00049	5.90 1.00479 0.00049
5.85 1.01374 0.00050	5.85 1.01252 0.00049	5.95 1.01132 0.00049
5.90 1.02074 0.00049	5.90 1.01896 0.00049	6.00 1.01838 0.00049
	5.95 1.02581 0.00049	6.05 1.02485 0.00049
	6.00 1.03272 0.00048	6.10 1.03194 0.00050

478	500	600
5.40 0.90997 0.00049	5.50 0.91683 0.00049	5.80 0.91772 0.00047
5.45 0.91780 0.00048	5.55 0.92473 0.00050	5.85 0.92529 0.00048
5.50 0.92430 0.00047	5.60 0.93170 0.00048	5.90 0.93204 0.00050
5.55 0.93267 0.00049	5.65 0.93970 0.00050	5.95 0.93963 0.00050
5.60 0.93958 0.00050	5.70 0.94691 0.00048	6.00 0.94587 0.00049
5.65 0.94632 0.00048	5.75 0.95292 0.00049	6.05 0.95360 0.00049
5.70 0.95356 0.00049	5.80 0.96032 0.00050	6.10 0.95883 0.00048
5.75 0.96052 0.00048	5.85 0.96798 0.00048	6.15 0.96644 0.00048
5.80 0.96741 0.00047	5.90 0.97526 0.00050	6.20 0.97225 0.00049
5.85 0.97572 0.00049	5.95 0.98031 0.00049	6.25 0.97910 0.00050
5.90 0.98164 0.00049	6.00 0.98888 0.00049	6.30 0.98588 0.00049
5.95 0.98795 0.00050	6.05 0.99455 0.00048	6.35 0.99239 0.00047
6.00 0.99506 0.00049	6.10 1.00116 0.00049	6.40 0.99811 0.00048
6.05 1.00200 0.00049	6.15 1.00825 0.00048	6.45 1.00412 0.00048
6.10 1.00765 0.00049	6.20 1.01557 0.00049	6.50 1.01161 0.00049
6.15 1.01504 0.00049	6.25 1.01971 0.00050	6.55 1.01657 0.00049
6.20 1.02146 0.00049	6.30 1.02700 0.00049	6.60 1.02289 0.00049

650	660	670
6.10 0.91807 0.00049	6.20 0.91997 0.00048	6.30 0.91828 0.00050
6.15 0.92456 0.00047	6.25 0.92593 0.00048	6.35 0.92491 0.00048
6.20 0.93076 0.00048	6.30 0.93331 0.00048	6.40 0.93083 0.00048
6.25 0.93768 0.00048	6.35 0.93975 0.00048	6.45 0.93762 0.00048
6.30 0.94461 0.00049	6.40 0.94478 0.00049	6.50 0.94370 0.00048
6.35 0.95107 0.00049	6.45 0.95239 0.00049	6.55 0.94984 0.00049

6.40 0.95816 0.00047	6.50 0.95833 0.00049	6.60 0.95675 0.00047
6.45 0.96342 0.00048	6.55 0.96467 0.00049	6.65 0.96334 0.00049
6.50 0.96976 0.00048	6.60 0.97155 0.00050	6.70 0.96808 0.00050
6.55 0.97673 0.00049	6.65 0.97636 0.00048	6.75 0.97387 0.00048
6.60 0.98263 0.00049	6.70 0.98230 0.00048	6.80 0.98096 0.00050
6.65 0.98834 0.00049	6.75 0.98908 0.00049	6.85 0.98699 0.00049
6.70 0.99504 0.00050	6.80 0.99456 0.00047	6.90 0.99203 0.00049
6.75 1.00073 0.00048	6.85 1.00049 0.00048	6.95 0.99778 0.00050
6.80 1.00705 0.00049	6.90 1.00654 0.00048	7.00 1.00421 0.00048
6.85 1.01243 0.00048	6.95 1.01309 0.00049	7.05 1.01076 0.00048
6.90 1.01822 0.00050	7.00 1.01901 0.00049	7.10 1.01514 0.00048
6.95 1.02395 0.00049	7.05 1.02367 0.00048	7.15 1.02129 0.00048
7.00 1.03069 0.00049	7.10 1.02873 0.00049	7.20 1.02693 0.00050

680	690	698
6.40 0.91208 0.00048	6.70 0.92069 0.00048	7.10 0.91885 0.00048
6.45 0.91893 0.00047	6.75 0.92726 0.00049	7.15 0.92474 0.00049
6.50 0.92481 0.00049	6.80 0.93381 0.00047	7.20 0.92972 0.00048
6.55 0.93130 0.00048	6.85 0.93980 0.00048	7.25 0.93581 0.00049
6.60 0.93707 0.00049	6.90 0.94567 0.00049	7.30 0.94231 0.00048
6.65 0.94372 0.00047	6.95 0.95142 0.00049	7.35 0.94819 0.00048
6.70 0.95006 0.00049	7.00 0.95724 0.00048	7.40 0.95211 0.00048
6.75 0.95537 0.00050	7.05 0.96265 0.00047	7.45 0.95841 0.00048
6.80 0.96174 0.00047	7.10 0.96858 0.00050	7.50 0.96403 0.00049
6.85 0.96817 0.00049	7.15 0.97361 0.00049	7.55 0.96901 0.00047
6.90 0.97435 0.00049	7.20 0.97997 0.00050	7.60 0.97519 0.00050
6.95 0.98040 0.00049	7.25 0.98701 0.00048	7.65 0.98026 0.00048
7.00 0.98664 0.00048	7.30 0.99198 0.00049	7.70 0.98515 0.00049
7.05 0.99175 0.00048	7.35 0.99646 0.00049	7.75 0.99112 0.00049
7.10 0.99664 0.00049	7.40 1.00204 0.00050	7.80 0.99599 0.00048
7.15 1.00273 0.00049	7.45 1.00927 0.00050	7.85 1.00100 0.00049
7.20 1.00834 0.00049	7.50 1.01370 0.00048	7.90 1.00558 0.00048
7.25 1.01432 0.00049	7.55 1.01921 0.00048	7.95 1.01023 0.00048
7.30 1.02053 0.00050	7.60 1.02483 0.00049	8.00 1.01693 0.00048
		8.05 1.02102 0.00049
		8.10 1.02653 0.00048

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12	15	20
9.20 0.92607 0.00028	7.30 0.92091 0.00031	5.90 0.91749 0.00036
9.30 0.92961 0.00027	7.40 0.92666 0.00033	5.95 0.92129 0.00037
9.40 0.93289 0.00028	7.50 0.93250 0.00032	6.00 0.92571 0.00036
9.50 0.93662 0.00028	7.60 0.93776 0.00031	6.05 0.92898 0.00036
9.60 0.93984 0.00028	7.70 0.94302 0.00031	6.10 0.93397 0.00036
9.70 0.94358 0.00027	7.80 0.94786 0.00031	6.15 0.93754 0.00035
9.80 0.94669 0.00027	7.90 0.95318 0.00031	6.20 0.94134 0.00036
9.90 0.94980 0.00027	8.00 0.95837 0.00030	6.25 0.94548 0.00035
10.00 0.95269 0.00027	8.10 0.96307 0.00031	6.30 0.94892 0.00036
10.10 0.95628 0.00027	8.20 0.96804 0.00030	6.35 0.95249 0.00036
10.20 0.95917 0.00027	8.30 0.97225 0.00030	6.40 0.95622 0.00036
10.30 0.96237 0.00026	8.40 0.97829 0.00030	6.45 0.95984 0.00035
10.40 0.96527 0.00026	8.50 0.98207 0.00031	6.50 0.96393 0.00035
10.50 0.96841 0.00026	8.60 0.98650 0.00030	6.55 0.96729 0.00036
10.60 0.97153 0.00027	8.70 0.99074 0.00031	6.60 0.97133 0.00034
10.70 0.97411 0.00026	8.80 0.99494 0.00031	6.65 0.97417 0.00035
10.80 0.97668 0.00026	8.90 0.99922 0.00030	6.70 0.97779 0.00035
10.90 0.97937 0.00026	9.00 1.00305 0.00031	6.75 0.98171 0.00035
11.00 0.98227 0.00027	9.10 1.00740 0.00030	6.80 0.98444 0.00035
11.10 0.98496 0.00027	9.20 1.01116 0.00031	6.85 0.98840 0.00036
11.20 0.98772 0.00026	9.30 1.01531 0.00030	6.90 0.99229 0.00035
11.30 0.99011 0.00025		6.95 0.99563 0.00035
11.40 0.99225 0.00026		7.00 0.99736 0.00035
11.50 0.99469 0.00025		7.05 1.00135 0.00035
11.60 0.99773 0.00026		7.10 1.00458 0.00035
11.70 1.00001 0.00025		7.15 1.00762 0.00035
11.80 1.00231 0.00026		7.20 1.01106 0.00036
11.90 1.00403 0.00025		7.25 1.01415 0.00035
12.00 1.00683 0.00026		7.30 1.01672 0.00035
12.10 1.00907 0.00026		
12.20 1.01080 0.00025		
12.30 1.01298 0.00025		
25	30	32
5.30 0.92330 0.00037	4.80 0.91351 0.00041	4.70 0.91580 0.00041
5.35 0.92801 0.00038	4.85 0.91925 0.00040	4.75 0.92197 0.00039
5.40 0.93391 0.00039	4.90 0.92470 0.00040	4.80 0.92769 0.00040
5.45 0.93892 0.00038	4.95 0.93064 0.00040	4.85 0.93422 0.00040
5.50 0.94335 0.00038	5.00 0.93577 0.00040	4.90 0.93939 0.00041
5.55 0.94751 0.00039	5.05 0.94212 0.00040	4.95 0.94515 0.00040
5.60 0.95257 0.00038	5.10 0.94720 0.00041	5.00 0.95057 0.00041
5.65 0.95711 0.00037	5.15 0.95210 0.00041	5.05 0.95581 0.00040
5.70 0.96178 0.00037	5.20 0.95773 0.00040	5.10 0.96060 0.00040
5.75 0.96613 0.00037	5.25 0.96202 0.00040	5.15 0.96620 0.00042
5.80 0.96984 0.00038	5.30 0.96783 0.00041	5.20 0.97204 0.00041
5.85 0.97424 0.00037	5.35 0.97274 0.00039	5.25 0.97639 0.00040

5.90 0.97887 0.00037	5.40 0.97760 0.00040	5.30 0.98094 0.00041
5.95 0.98325 0.00038	5.45 0.98204 0.00040	5.35 0.98595 0.00040
6.00 0.98742 0.00039	5.50 0.98691 0.00041	5.40 0.99200 0.00040
6.05 0.99177 0.00038	5.55 0.99216 0.00039	5.45 0.99677 0.00040
6.10 0.99619 0.00038	5.60 0.99703 0.00040	5.50 1.00188 0.00041
6.15 0.99990 0.00037	5.65 1.00122 0.00040	5.55 1.00664 0.00040
6.20 1.00467 0.00038	5.70 1.00535 0.00040	5.60 1.01119 0.00041
6.25 1.00827 0.00037	5.75 1.01062 0.00041	5.65 1.01588 0.00040
6.30 1.01195 0.00038	5.80 1.01550 0.00041	5.70 1.02052 0.00040
6.35 1.01577 0.00038	5.85 1.01948 0.00040	
6.40 1.01951 0.00037	5.90 1.02343 0.00040	

35	40	50
4.60 0.92253 0.00042	4.40 0.92159 0.00043	3.10 0.76035 0.00043
4.65 0.92852 0.00041	4.45 0.92848 0.00043	3.12 0.76363 0.00044
4.70 0.93477 0.00042	4.50 0.93479 0.00043	3.14 0.76720 0.00043
4.75 0.94083 0.00040	4.55 0.94112 0.00042	3.16 0.77045 0.00043
4.80 0.94655 0.00040	4.60 0.94614 0.00044	3.18 0.77382 0.00044
4.85 0.95156 0.00041	4.65 0.95258 0.00042	3.20 0.77701 0.00043
4.90 0.95679 0.00042	4.70 0.95919 0.00042	3.22 0.78057 0.00043
4.95 0.96292 0.00040	4.75 0.96466 0.00042	3.24 0.78443 0.00043
5.00 0.96841 0.00040	4.80 0.97061 0.00042	3.26 0.78727 0.00043
5.05 0.97420 0.00041	4.85 0.97628 0.00042	3.28 0.79055 0.00044
5.10 0.97950 0.00041	4.90 0.98173 0.00042	3.30 0.79385 0.00043
5.15 0.98467 0.00041	4.95 0.98859 0.00042	3.32 0.79781 0.00044
5.20 0.98938 0.00042	5.00 0.99333 0.00041	3.34 0.80087 0.00044
5.25 0.99483 0.00042	5.05 0.99885 0.00040	3.36 0.80367 0.00043
5.30 1.00078 0.00041	5.10 1.00408 0.00043	3.38 0.80718 0.00044
5.35 1.00534 0.00041	5.15 1.00985 0.00041	3.40 0.81082 0.00042
5.40 1.01078 0.00040	5.20 1.01433 0.00043	3.42 0.81449 0.00044
5.45 1.01499 0.00042	5.25 1.02057 0.00042	3.44 0.81699 0.00043
5.50 1.02075 0.00041	5.30 1.02596 0.00042	3.46 0.82124 0.00044
		3.48 0.82357 0.00044
		3.50 0.82681 0.00042
		3.52 0.82994 0.00043
		3.54 0.83348 0.00042
		3.56 0.83686 0.00044
		3.58 0.84053 0.00045
		3.60 0.84251 0.00043

60	70	80
2.20 0.60484 0.00041	3.80 0.91228 0.00045	3.80 0.92422 0.00046
2.22 0.60857 0.00042	3.85 0.91960 0.00046	3.85 0.93108 0.00045
2.24 0.61291 0.00042	3.90 0.92731 0.00046	3.90 0.93915 0.00043
2.26 0.61711 0.00041	3.95 0.93480 0.00046	3.95 0.94554 0.00046
2.28 0.62211 0.00043	4.00 0.94194 0.00044	4.00 0.95359 0.00045
2.30 0.62553 0.00043	4.05 0.94917 0.00046	4.05 0.96064 0.00046

2.32 0.62995 0.00042	4.10 0.95603 0.00045	4.10 0.96759 0.00046
2.34 0.63395 0.00043	4.15 0.96283 0.00045	4.15 0.97481 0.00045
2.36 0.63851 0.00042	4.20 0.96996 0.00046	4.20 0.98131 0.00046
2.38 0.64269 0.00042	4.25 0.97747 0.00046	4.25 0.98789 0.00046
2.40 0.64727 0.00041	4.30 0.98391 0.00045	4.30 0.99590 0.00046
2.42 0.65142 0.00042	4.35 0.98991 0.00046	4.35 1.00199 0.00045
2.44 0.65522 0.00043	4.40 0.99613 0.00044	4.40 1.00934 0.00045
2.46 0.65970 0.00042	4.45 1.00257 0.00046	4.45 1.01487 0.00047
2.48 0.66284 0.00042	4.50 1.01013 0.00045	4.50 1.02082 0.00046
2.50 0.66773 0.00043	4.55 1.01557 0.00044	
	4.60 1.02277 0.00047	

90	100	120
3.70 0.91699 0.00045	3.70 0.92266 0.00046	3.60 0.91576 0.00047
3.75 0.92442 0.00047	3.75 0.93057 0.00046	3.65 0.92335 0.00048
3.80 0.93229 0.00046	3.80 0.93898 0.00046	3.70 0.93177 0.00046
3.85 0.93912 0.00047	3.85 0.94663 0.00046	3.75 0.93861 0.00046
3.90 0.94740 0.00046	3.90 0.95327 0.00046	3.80 0.94641 0.00047
3.95 0.95466 0.00046	3.95 0.96117 0.00047	3.85 0.95419 0.00047
4.00 0.96186 0.00047	4.00 0.96790 0.00048	3.90 0.96089 0.00047
4.05 0.96898 0.00046	4.05 0.97542 0.00045	3.95 0.96839 0.00048
4.10 0.97574 0.00045	4.10 0.98194 0.00047	4.00 0.97674 0.00045
4.15 0.98266 0.00046	4.15 0.98945 0.00045	4.05 0.98305 0.00048
4.20 0.99023 0.00047	4.20 0.99752 0.00046	4.10 0.99073 0.00047
4.25 0.99766 0.00046	4.25 1.00335 0.00046	4.15 0.99712 0.00046
4.30 1.00388 0.00045	4.30 1.00989 0.00047	4.20 1.00458 0.00047
4.35 1.01099 0.00046	4.35 1.01637 0.00047	4.25 1.01169 0.00048
4.40 1.01742 0.00047	4.40 1.02364 0.00046	4.30 1.01883 0.00048

130	150	200
3.60 0.91884 0.00045	3.60 0.92230 0.00047	3.50 0.91077 0.00047
3.65 0.92735 0.00047	3.65 0.93022 0.00048	3.55 0.91835 0.00047
3.70 0.93470 0.00047	3.70 0.93828 0.00048	3.60 0.92585 0.00046
3.75 0.94286 0.00048	3.75 0.94620 0.00048	3.65 0.93243 0.00047
3.80 0.95029 0.00047	3.80 0.95367 0.00048	3.70 0.94079 0.00048
3.85 0.95801 0.00046	3.85 0.96079 0.00047	3.75 0.94911 0.00047
3.90 0.96442 0.00047	3.90 0.96787 0.00048	3.80 0.95561 0.00048
3.95 0.97220 0.00049	3.95 0.97551 0.00047	3.85 0.96314 0.00047
4.00 0.97941 0.00047	4.00 0.98271 0.00047	3.90 0.97092 0.00049
4.05 0.98673 0.00047	4.05 0.98972 0.00048	3.95 0.97792 0.00047
4.10 0.99454 0.00046	4.10 0.99601 0.00047	4.00 0.98476 0.00047
4.15 1.00048 0.00046	4.15 1.00339 0.00048	4.05 0.99267 0.00047
4.20 1.00782 0.00046	4.20 1.01164 0.00048	4.10 0.99903 0.00047
4.25 1.01470 0.00047	4.25 1.01731 0.00046	4.15 1.00649 0.00047
4.30 1.02070 0.00047	4.30 1.02507 0.00046	4.20 1.01365 0.00048
		4.25 1.01935 0.00047
		4.30 1.02602 0.00047

239	250	359
3.60 0.92393 0.00048	3.60 0.92389 0.00048	3.60 0.91249 0.00046
3.65 0.93211 0.00046	3.65 0.93108 0.00047	3.65 0.92050 0.00047
3.70 0.93923 0.00047	3.70 0.93850 0.00047	3.70 0.92857 0.00049
3.75 0.94636 0.00048	3.75 0.94639 0.00047	3.75 0.93558 0.00048
3.80 0.95439 0.00047	3.80 0.95322 0.00047	3.80 0.94303 0.00048
3.85 0.96157 0.00049	3.85 0.96047 0.00048	3.85 0.95072 0.00048
3.90 0.96906 0.00046	3.90 0.96890 0.00047	3.90 0.95793 0.00047
3.95 0.97636 0.00047	3.95 0.97480 0.00047	3.95 0.96539 0.00049
4.00 0.98266 0.00047	4.00 0.98292 0.00047	4.00 0.97176 0.00048
4.05 0.98999 0.00047	4.05 0.98979 0.00046	4.05 0.97930 0.00046
4.10 0.99781 0.00049	4.10 0.99695 0.00049	4.10 0.98491 0.00048
4.15 1.00442 0.00048	4.15 1.00353 0.00047	4.15 0.99254 0.00048
4.20 1.01115 0.00047	4.20 1.01090 0.00048	4.20 0.99991 0.00047
4.25 1.01835 0.00049	4.25 1.01704 0.00048	4.25 1.00651 0.00047
4.30 1.02474 0.00047	4.30 1.02295 0.00047	4.30 1.01182 0.00049
		4.35 1.01960 0.00048
		4.40 1.02516 0.00048

478			500			600		
3.80	0.92368	0.00048	3.80	0.91986	0.00048	2.70	0.71242	0.00046
3.85	0.93244	0.00049	3.85	0.92699	0.00049	2.72	0.71611	0.00046
3.90	0.93936	0.00048	3.90	0.93384	0.00047	2.74	0.71920	0.00045
3.95	0.94568	0.00048	3.95	0.94163	0.00047	2.76	0.72327	0.00046
4.00	0.95367	0.00048	4.00	0.94911	0.00048	2.78	0.72655	0.00047
4.05	0.96036	0.00048	4.05	0.95486	0.00049	2.80	0.73048	0.00045
4.10	0.96686	0.00047	4.10	0.96224	0.00048	2.82	0.73330	0.00046
4.15	0.97361	0.00049	4.15	0.96868	0.00048	2.84	0.73641	0.00046
4.20	0.98046	0.00048	4.20	0.97579	0.00048	2.86	0.73912	0.00046
4.25	0.98759	0.00047	4.25	0.98218	0.00048	2.88	0.74344	0.00046
4.30	0.99289	0.00047	4.30	0.98895	0.00048	2.90	0.74634	0.00045
4.35	1.00052	0.00048	4.35	0.99563	0.00048	2.92	0.75041	0.00046
4.40	1.00652	0.00047	4.40	1.00128	0.00049	2.94	0.75337	0.00046
4.45	1.01406	0.00047	4.45	1.00793	0.00048	2.96	0.75656	0.00046
4.50	1.01919	0.00049	4.50	1.01416	0.00048	2.98	0.76022	0.00047
			4.55	1.01955	0.00047	3.00	0.76333	0.00046
			4.60	1.02705	0.00048	3.02	0.76671	0.00045
						3.04	0.76978	0.00047
						3.06	0.77340	0.00047
						3.08	0.77595	0.00046
						3.10	0.77988	0.00048

650	660	670
3.50 0.81450 0.00047	4.30 0.91701 0.00048	4.40 0.91903 0.00048
3.55 0.82159 0.00047	4.35 0.92279 0.00047	4.45 0.92566 0.00048
3.60 0.82783 0.00048	4.40 0.93054 0.00047	4.50 0.93200 0.00047
3.65 0.83553 0.00047	4.45 0.93633 0.00049	4.55 0.93806 0.00048
3.70 0.84300 0.00049	4.50 0.94267 0.00048	4.60 0.94438 0.00049
3.75 0.84973 0.00047	4.55 0.94845 0.00047	4.65 0.95066 0.00049
3.80 0.85716 0.00048	4.60 0.95463 0.00048	4.70 0.95637 0.00048
3.85 0.86376 0.00047	4.65 0.96143 0.00048	4.75 0.96316 0.00048
3.90 0.87115 0.00048	4.70 0.96619 0.00047	4.80 0.96860 0.00047
3.95 0.87844 0.00048	4.75 0.97312 0.00048	4.85 0.97493 0.00049
4.00 0.88475 0.00048	4.80 0.97931 0.00049	4.90 0.98083 0.00049
4.05 0.89203 0.00047	4.85 0.98494 0.00048	4.95 0.98600 0.00049
4.10 0.89930 0.00047	4.90 0.99119 0.00048	5.00 0.99139 0.00049
	4.95 0.99583 0.00048	5.05 0.99775 0.00049
	5.00 1.00247 0.00048	5.10 1.00341 0.00049
	5.05 1.00780 0.00050	5.15 1.00953 0.00048
	5.10 1.01419 0.00049	5.20 1.01451 0.00049
	5.15 1.01923 0.00048	5.25 1.02047 0.00048
	5.20 1.02543 0.00047	5.30 1.02505 0.00048

680	690	698
4.50 0.91862 0.00048	4.70 0.92176 0.00049	5.00 0.92055 0.00047
4.55 0.92494 0.00047	4.75 0.92691 0.00049	5.05 0.92690 0.00047
4.60 0.92986 0.00048	4.80 0.93450 0.00047	5.10 0.93153 0.00050
4.65 0.93609 0.00048	4.85 0.93936 0.00048	5.15 0.93719 0.00048
4.70 0.94237 0.00047	4.90 0.94560 0.00049	5.20 0.94302 0.00047
4.75 0.94870 0.00049	4.95 0.95157 0.00050	5.25 0.94789 0.00048
4.80 0.95539 0.00047	5.00 0.95657 0.00048	5.30 0.95315 0.00048
4.85 0.96017 0.00047	5.05 0.96259 0.00048	5.35 0.95935 0.00047
4.90 0.96695 0.00049	5.10 0.96777 0.00047	5.40 0.96402 0.00048
4.95 0.97124 0.00048	5.15 0.97398 0.00049	5.45 0.96874 0.00048
5.00 0.97798 0.00049	5.20 0.97889 0.00048	5.50 0.97519 0.00049
5.05 0.98361 0.00049	5.25 0.98529 0.00048	5.55 0.97988 0.00048
5.10 0.98939 0.00049	5.30 0.99012 0.00047	5.60 0.98585 0.00050
5.15 0.99495 0.00048	5.35 0.99562 0.00048	5.65 0.99157 0.00048
5.20 1.00135 0.00049	5.40 1.00151 0.00047	5.70 0.99413 0.00048
5.25 1.00595 0.00049	5.45 1.00690 0.00048	5.75 1.00020 0.00049
5.30 1.01160 0.00048	5.50 1.01065 0.00047	5.80 1.00552 0.00048
5.35 1.01691 0.00049	5.55 1.01786 0.00049	5.85 1.01037 0.00050
5.40 1.02300 0.00047	5.60 1.02274 0.00048	5.90 1.01571 0.00049
		5.95 1.02105 0.00048
		6.00 1.02550 0.00047

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12	15	20
8.00 0.92384 0.00026	6.20 0.92375 0.00030	4.80 0.92316 0.00033
8.10 0.92748 0.00025	6.30 0.92947 0.00030	4.85 0.92712 0.00032
8.20 0.93072 0.00026	6.40 0.93512 0.00029	4.90 0.93152 0.00033
8.30 0.93450 0.00026	6.50 0.94063 0.00029	4.95 0.93566 0.00034
8.40 0.93809 0.00025	6.60 0.94630 0.00028	5.00 0.93938 0.00032
8.50 0.94139 0.00026	6.70 0.95102 0.00029	5.05 0.94335 0.00032
8.60 0.94469 0.00026	6.80 0.95644 0.00028	5.10 0.94728 0.00033
8.70 0.94795 0.00026	6.90 0.96079 0.00029	5.15 0.95120 0.00034
8.80 0.95173 0.00025	7.00 0.96621 0.00028	5.20 0.95504 0.00033
8.90 0.95463 0.00026	7.10 0.97107 0.00029	5.25 0.95831 0.00034
9.00 0.95788 0.00026	7.20 0.97530 0.00029	5.30 0.96202 0.00033
9.10 0.96104 0.00025	7.30 0.97975 0.00029	5.35 0.96615 0.00033
9.20 0.96434 0.00025	7.40 0.98490 0.00029	5.40 0.96992 0.00032
9.30 0.96667 0.00025	7.50 0.98938 0.00028	5.45 0.97370 0.00032
9.40 0.96974 0.00025	7.60 0.99296 0.00028	5.50 0.97625 0.00032
9.50 0.97263 0.00025	7.70 0.99792 0.00028	5.55 0.98027 0.00033
9.60 0.97534 0.00025	7.80 1.00190 0.00028	5.60 0.98354 0.00031
9.70 0.97807 0.00025	7.90 1.00612 0.00028	5.65 0.98679 0.00033
9.80 0.98082 0.00025	8.00 1.01030 0.00028	5.70 0.99028 0.00033
9.90 0.98392 0.00025	8.10 1.01420 0.00027	5.75 0.99380 0.00033
10.00 0.98668 0.00024		5.80 0.99687 0.00033
10.10 0.98909 0.00025		5.85 1.00028 0.00032
10.20 0.99202 0.00025		5.90 1.00334 0.00031
10.30 0.99428 0.00024		5.95 1.00701 0.00032
10.40 0.99669 0.00024		6.00 1.01029 0.00033
10.50 0.99800 0.00025		6.05 1.01347 0.00033
10.60 1.00111 0.00025		6.10 1.01612 0.00032
10.70 1.00354 0.00024		
10.80 1.00575 0.00024		
10.90 1.00797 0.00024		
11.00 1.01056 0.00024		
11.10 1.01261 0.00024		
11.20 1.01506 0.00024		

25	30	32
4.10 0.92239 0.00036	3.60 0.91517 0.00036	3.50 0.91872 0.00037
4.15 0.92760 0.00036	3.65 0.92080 0.00036	3.55 0.92362 0.00037
4.20 0.93241 0.00036	3.70 0.92559 0.00037	3.60 0.92966 0.00038
4.25 0.93781 0.00035	3.75 0.93267 0.00037	3.65 0.93505 0.00037
4.30 0.94320 0.00034	3.80 0.93773 0.00037	3.70 0.94155 0.00036
4.35 0.94765 0.00035	3.85 0.94353 0.00037	3.75 0.94747 0.00037
4.40 0.95231 0.00034	3.90 0.94888 0.00037	3.80 0.95327 0.00037
4.45 0.95689 0.00035	3.95 0.95363 0.00036	3.85 0.95826 0.00037
4.50 0.96171 0.00035	4.00 0.95828 0.00037	3.90 0.96376 0.00038
4.55 0.96546 0.00035	4.05 0.96391 0.00037	3.95 0.96902 0.00036
4.60 0.97090 0.00034	4.10 0.97021 0.00037	4.00 0.97461 0.00037

4.65 0.97519 0.00035	4.15 0.97490 0.00037	4.05 0.97992 0.00037
4.70 0.97906 0.00035	4.20 0.97949 0.00037	4.10 0.98501 0.00037
4.75 0.98376 0.00035	4.25 0.98500 0.00037	4.15 0.99012 0.00036
4.80 0.98776 0.00035	4.30 0.98955 0.00036	4.20 0.99555 0.00036
4.85 0.99211 0.00035	4.35 0.99437 0.00037	4.25 1.00054 0.00037
4.90 0.99650 0.00034	4.40 0.99998 0.00036	4.30 1.00542 0.00037
4.95 1.00108 0.00035	4.45 1.00344 0.00036	4.35 1.00975 0.00036
5.00 1.00569 0.00036	4.50 1.00921 0.00036	4.40 1.01447 0.00038
5.05 1.00836 0.00035	4.55 1.01375 0.00036	4.45 1.01994 0.00038
5.10 1.01289 0.00035	4.60 1.01860 0.00036	4.50 1.02471 0.00037
5.15 1.01674 0.00035		
5.20 1.02039 0.00035		

35	40	50
3.30 0.91342 0.00037	3.10 0.91493 0.00039	2.80 0.91357 0.00040
3.35 0.91985 0.00037	3.15 0.92148 0.00039	2.85 0.92157 0.00040
3.40 0.92580 0.00037	3.20 0.92795 0.00038	2.90 0.92707 0.00040
3.45 0.93127 0.00038	3.25 0.93406 0.00039	2.95 0.93514 0.00040
3.50 0.93848 0.00038	3.30 0.94072 0.00039	3.00 0.94170 0.00040
3.55 0.94353 0.00037	3.35 0.94719 0.00038	3.05 0.94896 0.00040
3.60 0.94992 0.00037	3.40 0.95308 0.00039	3.10 0.95501 0.00040
3.65 0.95558 0.00038	3.45 0.95929 0.00038	3.15 0.96192 0.00040
3.70 0.96099 0.00037	3.50 0.96510 0.00039	3.20 0.96945 0.00039
3.75 0.96716 0.00038	3.55 0.97161 0.00039	3.25 0.97587 0.00040
3.80 0.97286 0.00038	3.60 0.97838 0.00039	3.30 0.98127 0.00040
3.85 0.97832 0.00038	3.65 0.98355 0.00039	3.35 0.98856 0.00040
3.90 0.98418 0.00038	3.70 0.98995 0.00038	3.40 0.99390 0.00040
3.95 0.98953 0.00037	3.75 0.99505 0.00040	3.45 1.00038 0.00041
4.00 0.99446 0.00037	3.80 1.00175 0.00039	3.50 1.00663 0.00039
4.05 1.00020 0.00037	3.85 1.00600 0.00039	3.55 1.01321 0.00040
4.10 1.00557 0.00039	3.90 1.01197 0.00038	3.60 1.01898 0.00040
4.15 1.01056 0.00037	3.95 1.01734 0.00038	
4.20 1.01573 0.00037	4.00 1.02291 0.00039	

60	70	80
2.60 0.91110 0.00040	2.50 0.91731 0.00040	2.40 0.91680 0.00041
2.65 0.91954 0.00041	2.55 0.92518 0.00042	2.45 0.92538 0.00042
2.70 0.92670 0.00040	2.60 0.93339 0.00042	2.50 0.93286 0.00042
2.75 0.93484 0.00041	2.65 0.93961 0.00041	2.55 0.94012 0.00041
2.80 0.94187 0.00041	2.70 0.94763 0.00041	2.60 0.94796 0.00042
2.85 0.94833 0.00042	2.75 0.95520 0.00041	2.65 0.95643 0.00042
2.90 0.95575 0.00040	2.80 0.96199 0.00042	2.70 0.96285 0.00042
2.95 0.96251 0.00040	2.85 0.96993 0.00041	2.75 0.97076 0.00044
3.00 0.96976 0.00042	2.90 0.97750 0.00042	2.80 0.97811 0.00041
3.05 0.97750 0.00040	2.95 0.98351 0.00042	2.85 0.98447 0.00042
3.10 0.98350 0.00041	3.00 0.99021 0.00042	2.90 0.99217 0.00042
3.15 0.98994 0.00042	3.05 0.99742 0.00041	2.95 0.99940 0.00042

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3.20 0.99591 0.00040	3.10 1.00361 0.00041	3.00 1.00525 0.00041
3.25 1.00383 0.00041	3.15 1.01102 0.00041	3.05 1.01316 0.00041
3.30 1.00928 0.00041	3.20 1.01711 0.00042	3.10 1.01886 0.00041
3.35 1.01544 0.00041		
3.40 1.02206 0.00040		

90	100	120
2.30 0.91309 0.00042	2.30 0.92321 0.00041	2.20 0.92080 0.00042
2.35 0.92071 0.00041	2.35 0.93124 0.00041	2.25 0.92904 0.00043
2.40 0.93009 0.00042	2.40 0.93929 0.00042	2.30 0.93737 0.00042
2.45 0.93684 0.00043	2.45 0.94669 0.00043	2.35 0.94518 0.00043
2.50 0.94443 0.00043	2.50 0.95492 0.00043	2.40 0.95308 0.00042
2.55 0.95298 0.00042	2.55 0.96177 0.00042	2.45 0.96036 0.00043
2.60 0.95981 0.00041	2.60 0.97044 0.00042	2.50 0.96888 0.00043
2.65 0.96815 0.00042	2.65 0.97616 0.00043	2.55 0.97700 0.00042
2.70 0.97429 0.00042	2.70 0.98428 0.00042	2.60 0.98410 0.00043
2.75 0.98261 0.00043	2.75 0.99170 0.00042	2.65 0.99146 0.00043
2.80 0.98998 0.00041	2.80 0.99904 0.00042	2.70 0.99836 0.00043
2.85 0.99716 0.00042	2.85 1.00677 0.00042	2.75 1.00595 0.00043
2.90 1.00363 0.00042	2.90 1.01359 0.00043	2.80 1.01236 0.00043
2.95 1.01032 0.00044	2.95 1.02005 0.00042	2.85 1.02021 0.00043
3.00 1.01824 0.00042	3.00 1.02642 0.00042	2.90 1.02665 0.00043

130	150	200
2.10 0.91051 0.00041	2.10 0.91858 0.00043	2.00 0.91546 0.00042
2.15 0.91899 0.00043	2.15 0.92747 0.00042	2.05 0.92387 0.00042
2.20 0.92780 0.00043	2.20 0.93524 0.00042	2.10 0.93153 0.00044
2.25 0.93528 0.00042	2.25 0.94309 0.00042	2.15 0.93980 0.00043
2.30 0.94263 0.00044	2.30 0.95142 0.00043	2.20 0.94801 0.00042
2.35 0.95018 0.00042	2.35 0.95928 0.00043	2.25 0.95608 0.00043
2.40 0.95925 0.00042	2.40 0.96679 0.00042	2.30 0.96374 0.00042
2.45 0.96626 0.00042	2.45 0.97456 0.00041	2.35 0.97092 0.00042
2.50 0.97384 0.00043	2.50 0.98159 0.00042	2.40 0.97797 0.00044
2.55 0.98197 0.00042	2.55 0.98949 0.00042	2.45 0.98666 0.00043
2.60 0.98902 0.00044	2.60 0.99726 0.00043	2.50 0.99373 0.00044
2.65 0.99689 0.00043	2.65 1.00388 0.00043	2.55 1.00111 0.00043
2.70 1.00352 0.00043	2.70 1.01127 0.00042	2.60 1.00846 0.00043
2.75 1.01122 0.00043	2.75 1.01779 0.00042	2.65 1.01501 0.00044
2.80 1.01862 0.00042	2.80 1.02507 0.00043	2.70 1.02205 0.00042

239	250	359
2.00 0.92157 0.00043	2.00 0.92209 0.00042	2.00 0.92534 0.00043
2.05 0.92950 0.00043	2.05 0.92985 0.00042	2.05 0.93362 0.00043
2.10 0.93683 0.00044	2.10 0.93842 0.00042	2.10 0.94182 0.00044
2.15 0.94514 0.00042	2.15 0.94572 0.00043	2.15 0.94914 0.00044

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2.20 0.95298 0.00044	2.20 0.95299 0.00043	2.20 0.95619 0.00042
2.25 0.96060 0.00043	2.25 0.96130 0.00043	2.25 0.96354 0.00043
2.30 0.96800 0.00042	2.30 0.96907 0.00043	2.30 0.97148 0.00042
2.35 0.97543 0.00042	2.35 0.97574 0.00042	2.35 0.97752 0.00044
2.40 0.98319 0.00044	2.40 0.98322 0.00042	2.40 0.98495 0.00044
2.45 0.99025 0.00043	2.45 0.99089 0.00042	2.45 0.99243 0.00043
2.50 0.99697 0.00043	2.50 0.99844 0.00044	2.50 0.99985 0.00042
2.55 1.00497 0.00044	2.55 1.00469 0.00044	2.55 1.00606 0.00043
2.60 1.01147 0.00043	2.60 1.01249 0.00043	2.60 1.01247 0.00044
2.65 1.01833 0.00044	2.65 1.01893 0.00043	2.65 1.01880 0.00043
2.70 1.02560 0.00044	2.70 1.02646 0.00043	2.70 1.02609 0.00043

478	500	600
2.00 0.92159 0.00043	2.00 0.91963 0.00044	2.10 0.91973 0.00042
2.05 0.92951 0.00044	2.05 0.92761 0.00043	2.15 0.92753 0.00044
2.10 0.93668 0.00043	2.10 0.93441 0.00043	2.20 0.93400 0.00043
2.15 0.94348 0.00044	2.15 0.94101 0.00043	2.25 0.94056 0.00043
2.20 0.95046 0.00044	2.20 0.94897 0.00044	2.30 0.94815 0.00043
2.25 0.95755 0.00044	2.25 0.95505 0.00045	2.35 0.95447 0.00043
2.30 0.96442 0.00043	2.30 0.96330 0.00043	2.40 0.96126 0.00044
2.35 0.97214 0.00043	2.35 0.96980 0.00042	2.45 0.96787 0.00044
2.40 0.97868 0.00043	2.40 0.97620 0.00043	2.50 0.97426 0.00044
2.45 0.98585 0.00044	2.45 0.98299 0.00044	2.55 0.98090 0.00043
2.50 0.99252 0.00045	2.50 0.98941 0.00044	2.60 0.98599 0.00044
2.55 0.99953 0.00044	2.55 0.99592 0.00045	2.65 0.99298 0.00044
2.60 1.00701 0.00045	2.60 1.00363 0.00042	2.70 0.99922 0.00044
2.65 1.01229 0.00043	2.65 1.01040 0.00044	2.75 1.00491 0.00045
2.70 1.01893 0.00043	2.70 1.01553 0.00044	2.80 1.01200 0.00044
		2.85 1.01739 0.00042
		2.90 1.02296 0.00045

650	660	670
2.20 0.91973 0.00044	2.20 0.91544 0.00044	2.30 0.92333 0.00043
2.25 0.92592 0.00043	2.25 0.92151 0.00042	2.35 0.92953 0.00043
2.30 0.93224 0.00042	2.30 0.92834 0.00043	2.40 0.93490 0.00043
2.35 0.93855 0.00043	2.35 0.93448 0.00045	2.45 0.94158 0.00044
2.40 0.94516 0.00044	2.40 0.94118 0.00042	2.50 0.94795 0.00044
2.45 0.95180 0.00043	2.45 0.94685 0.00043	2.55 0.95412 0.00045
2.50 0.95759 0.00043	2.50 0.95253 0.00044	2.60 0.96010 0.00045
2.55 0.96444 0.00045	2.55 0.95969 0.00044	2.65 0.96583 0.00045
2.60 0.97059 0.00044	2.60 0.96468 0.00043	2.70 0.97177 0.00043
2.65 0.97637 0.00044	2.65 0.97126 0.00044	2.75 0.97730 0.00044
2.70 0.98213 0.00043	2.70 0.97751 0.00044	2.80 0.98385 0.00045
2.75 0.98858 0.00046	2.75 0.98278 0.00044	2.85 0.98925 0.00045
2.80 0.99502 0.00043	2.80 0.98915 0.00043	2.90 0.99452 0.00044
2.85 0.99975 0.00044	2.85 0.99598 0.00044	2.95 1.00126 0.00045
2.90 1.00579 0.00044	2.90 1.00056 0.00044	3.00 1.00671 0.00043

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2.95 1.01227 0.00044	2.95 1.00661 0.00043	3.05 1.01211 0.00044
3.00 1.01680 0.00043	3.00 1.01172 0.00043	3.10 1.01749 0.00044
	3.05 1.01708 0.00044	
	3.10 1.02341 0.00044	

680	690	698
2.30 0.91699 0.00044	2.40 0.91829 0.00045	2.60 0.92322 0.00043
2.35 0.92199 0.00043	2.45 0.92425 0.00042	2.65 0.92961 0.00044
2.40 0.92847 0.00043	2.50 0.93015 0.00043	2.70 0.93323 0.00043
2.45 0.93437 0.00043	2.55 0.93604 0.00044	2.75 0.94003 0.00044
2.50 0.94034 0.00044	2.60 0.94240 0.00044	2.80 0.94553 0.00043
2.55 0.94641 0.00044	2.65 0.94726 0.00042	2.85 0.95060 0.00045
2.60 0.95144 0.00043	2.70 0.95354 0.00043	2.90 0.95591 0.00043
2.65 0.95848 0.00044	2.75 0.95932 0.00044	2.95 0.96091 0.00044
2.70 0.96445 0.00044	2.80 0.96437 0.00044	3.00 0.96704 0.00044
2.75 0.97123 0.00046	2.85 0.97024 0.00045	3.05 0.97098 0.00043
2.80 0.97608 0.00044	2.90 0.97548 0.00043	3.10 0.97677 0.00044
2.85 0.98174 0.00042	2.95 0.98008 0.00044	3.15 0.98175 0.00046
2.90 0.98672 0.00044	3.00 0.98640 0.00044	3.20 0.98723 0.00044
2.95 0.99293 0.00044	3.05 0.99206 0.00044	3.25 0.99238 0.00044
3.00 0.99872 0.00044	3.10 0.99704 0.00044	3.30 0.99712 0.00045
3.05 1.00396 0.00043	3.15 1.00322 0.00045	3.35 1.00169 0.00045
3.10 1.00970 0.00044	3.20 1.00862 0.00044	3.40 1.00766 0.00044
3.15 1.01502 0.00043	3.25 1.01294 0.00045	3.45 1.01291 0.00045
3.20 1.02000 0.00044	3.30 1.01795 0.00045	3.50 1.01625 0.00044

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12	15	20
12.00 0.92533 0.00028	9.70 0.92180 0.00032	8.10 0.92184 0.00037
12.20 0.93100 0.00028	9.80 0.92669 0.00032	8.15 0.92525 0.00036
12.40 0.93652 0.00027	9.90 0.93184 0.00032	8.20 0.92891 0.00037
12.60 0.94188 0.00027	10.00 0.93644 0.00032	8.25 0.93271 0.00036
12.80 0.94726 0.00027	10.10 0.94121 0.00032	8.30 0.93586 0.00037
13.00 0.95241 0.00027	10.20 0.94531 0.00032	8.35 0.93989 0.00035
13.20 0.95743 0.00027	10.30 0.95007 0.00031	8.40 0.94268 0.00036
13.40 0.96196 0.00026	10.40 0.95369 0.00031	8.45 0.94616 0.00037
13.60 0.96686 0.00027	10.50 0.95790 0.00031	8.50 0.94971 0.00036
13.80 0.97067 0.00026	10.60 0.96212 0.00031	8.55 0.95208 0.00035
14.00 0.97558 0.00026	10.70 0.96683 0.00031	8.60 0.95659 0.00036
14.20 0.97933 0.00026	10.80 0.97022 0.00031	8.65 0.95955 0.00035
14.40 0.98374 0.00026	10.90 0.97393 0.00030	8.70 0.96187 0.00036
14.60 0.98738 0.00025	11.00 0.97816 0.00031	8.75 0.96549 0.00034
14.80 0.99162 0.00026	11.10 0.98161 0.00032	8.80 0.96872 0.00036
15.00 0.99507 0.00025	11.20 0.98516 0.00031	8.85 0.97149 0.00036
15.20 0.99870 0.00026	11.30 0.98902 0.00031	8.90 0.97468 0.00036
15.40 1.00218 0.00026	11.40 0.99281 0.00030	8.95 0.97872 0.00035
15.60 1.00571 0.00025	11.50 0.99620 0.00030	9.00 0.98048 0.00036

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15.80 1.00894 0.00024	11.60 1.00003 0.00030	9.05 0.98374 0.00036
16.00 1.01193 0.00025	11.70 1.00271 0.00031	9.10 0.98716 0.00035
16.10 1.01370 0.00025	11.80 1.00613 0.00030	9.15 0.98965 0.00037
	11.90 1.00998 0.00029	9.20 0.99299 0.00035
	12.00 1.01310 0.00029	9.25 0.99584 0.00036
	12.10 1.01616 0.00029	9.30 0.99903 0.00036
		9.35 1.00136 0.00036
		9.40 1.00430 0.00035
		9.45 1.00700 0.00035
		9.50 1.00998 0.00036
		9.55 1.01268 0.00035
		9.60 1.01524 0.00035
		9.65 1.01712 0.00034
		9.70 1.02027 0.00035

25	30	32
7.30 0.92002 0.00039	6.80 0.91488 0.00041	6.70 0.91827 0.00042
7.35 0.92342 0.00039	6.85 0.91931 0.00040	6.75 0.92351 0.00042
7.40 0.92806 0.00039	6.90 0.92440 0.00042	6.80 0.92809 0.00042
7.45 0.93234 0.00039	6.95 0.92987 0.00040	6.85 0.93321 0.00041
7.50 0.93680 0.00040	7.00 0.93471 0.00041	6.90 0.93807 0.00041
7.55 0.94062 0.00038	7.05 0.93941 0.00042	6.95 0.94356 0.00041
7.60 0.94496 0.00039	7.10 0.94456 0.00041	7.00 0.94841 0.00041
7.65 0.94935 0.00039	7.15 0.94913 0.00040	7.05 0.95367 0.00042
7.70 0.95301 0.00039	7.20 0.95386 0.00041	7.10 0.95839 0.00042
7.75 0.95785 0.00039	7.25 0.95860 0.00041	7.15 0.96377 0.00042
7.80 0.96116 0.00039	7.30 0.96296 0.00042	7.20 0.96780 0.00041
7.85 0.96552 0.00037	7.35 0.96714 0.00041	7.25 0.97336 0.00041
7.90 0.96920 0.00039	7.40 0.97246 0.00041	7.30 0.97698 0.00041
7.95 0.97327 0.00040	7.45 0.97678 0.00041	7.35 0.98218 0.00042
8.00 0.97805 0.00039	7.50 0.98099 0.00042	7.40 0.98672 0.00041
8.05 0.98143 0.00038	7.55 0.98609 0.00041	7.45 0.99057 0.00041
8.10 0.98504 0.00040	7.60 0.98950 0.00041	7.50 0.99560 0.00041
8.15 0.98892 0.00039	7.65 0.99434 0.00040	7.55 1.00012 0.00041
8.20 0.99283 0.00038	7.70 0.99836 0.00041	7.60 1.00468 0.00042
8.25 0.99640 0.00038	7.75 1.00308 0.00042	7.65 1.00821 0.00041
8.30 1.00003 0.00039	7.80 1.00714 0.00041	7.70 1.01329 0.00041
8.35 1.00340 0.00037	7.85 1.01031 0.00041	7.75 1.01716 0.00043
8.40 1.00649 0.00038	7.90 1.01547 0.00041	7.80 1.02186 0.00040
8.45 1.01111 0.00038	7.95 1.01893 0.00039	
8.50 1.01413 0.00038	8.00 1.02305 0.00041	
8.55 1.01790 0.00039		
8.60 1.02042 0.00039		

35	40	50
6.50 0.91373 0.00042	6.30 0.91505 0.00043	6.00 0.91178 0.00045
6.55 0.91931 0.00043	6.35 0.92040 0.00043	6.05 0.91887 0.00045
6.60 0.92531 0.00041	6.40 0.92690 0.00044	6.10 0.92546 0.00046
6.65 0.92999 0.00043	6.45 0.93244 0.00043	6.15 0.93108 0.00046
6.70 0.93612 0.00044	6.50 0.93799 0.00044	6.20 0.93757 0.00044
6.75 0.94180 0.00043	6.55 0.94435 0.00044	6.25 0.94351 0.00046
6.80 0.94626 0.00043	6.60 0.94900 0.00045	6.30 0.95057 0.00045
6.85 0.95109 0.00043	6.65 0.95564 0.00044	6.35 0.95605 0.00045
6.90 0.95720 0.00042	6.70 0.96123 0.00044	6.40 0.96183 0.00046
6.95 0.96202 0.00042	6.75 0.96594 0.00042	6.45 0.96807 0.00044
7.00 0.96712 0.00041	6.80 0.97155 0.00043	6.50 0.97368 0.00045
7.05 0.97113 0.00043	6.85 0.97642 0.00045	6.55 0.97969 0.00045
7.10 0.97693 0.00042	6.90 0.98186 0.00044	6.60 0.98517 0.00045
7.15 0.98166 0.00043	6.95 0.98707 0.00044	6.65 0.99050 0.00045
7.20 0.98602 0.00041	7.00 0.99180 0.00043	6.70 0.99672 0.00044
7.25 0.99121 0.00041	7.05 0.99752 0.00043	6.75 1.00160 0.00045
7.30 0.99542 0.00042	7.10 1.00227 0.00045	6.80 1.00735 0.00045
7.35 1.00022 0.00043	7.15 1.00745 0.00044	6.85 1.01275 0.00045
7.40 1.00544 0.00041	7.20 1.01167 0.00043	6.90 1.01830 0.00044
7.45 1.00980 0.00043	7.25 1.01671 0.00044	6.95 1.02341 0.00045
7.50 1.01418 0.00042	7.30 1.02190 0.00045	7.00 1.02890 0.00044
7.55 1.01889 0.00043		
7.60 1.02413 0.00044		

60	70	80
5.90 0.92134 0.00045	5.70 0.90835 0.00047	5.70 0.91984 0.00047
5.95 0.92770 0.00045	5.75 0.91568 0.00047	5.75 0.92558 0.00046
6.00 0.93444 0.00045	5.80 0.92202 0.00047	5.80 0.93275 0.00045
6.05 0.94060 0.00047	5.85 0.92928 0.00047	5.85 0.94014 0.00047
6.10 0.94726 0.00046	5.90 0.93581 0.00047	5.90 0.94700 0.00049
6.15 0.95363 0.00045	5.95 0.94254 0.00047	5.95 0.95311 0.00048
6.20 0.96008 0.00045	6.00 0.94992 0.00046	6.00 0.95991 0.00048
6.25 0.96623 0.00046	6.05 0.95619 0.00047	6.05 0.96674 0.00047
6.30 0.97324 0.00047	6.10 0.96272 0.00048	6.10 0.97268 0.00046
6.35 0.97939 0.00047	6.15 0.96832 0.00048	6.15 0.97972 0.00048
6.40 0.98499 0.00046	6.20 0.97522 0.00046	6.20 0.98613 0.00047
6.45 0.99002 0.00046	6.25 0.98182 0.00047	6.25 0.99277 0.00048
6.50 0.99711 0.00045	6.30 0.98763 0.00047	6.30 0.99909 0.00048
6.55 1.00249 0.00046	6.35 0.99347 0.00048	6.35 1.00481 0.00047
6.60 1.00785 0.00046	6.40 0.99994 0.00047	6.40 1.01132 0.00048
6.65 1.01385 0.00047	6.45 1.00452 0.00047	6.45 1.01665 0.00047
6.70 1.01980 0.00046	6.50 1.01193 0.00047	6.50 1.02270 0.00047
6.75 1.02566 0.00046	6.55 1.01809 0.00047	6.55 1.02823 0.00047
6.80 1.03004 0.00046	6.60 1.02296 0.00047	6.60 1.03503 0.00047

90	100	120
5.60 0.91234 0.00048	5.50 0.90332 0.00047	5.50 0.90994 0.00048
5.65 0.92008 0.00048	5.55 0.91103 0.00048	5.55 0.91680 0.00050
5.70 0.92737 0.00047	5.60 0.91886 0.00047	5.60 0.92442 0.00047
5.75 0.93415 0.00047	5.65 0.92552 0.00048	5.65 0.93121 0.00049
5.80 0.94050 0.00048	5.70 0.93253 0.00048	5.70 0.93832 0.00048
5.85 0.94737 0.00047	5.75 0.93982 0.00047	5.75 0.94567 0.00048
5.90 0.95440 0.00046	5.80 0.94684 0.00047	5.80 0.95275 0.00049
5.95 0.96078 0.00047	5.85 0.95370 0.00046	5.85 0.96000 0.00047
6.00 0.96823 0.00049	5.90 0.96038 0.00048	5.90 0.96627 0.00047
6.05 0.97446 0.00046	5.95 0.96700 0.00046	5.95 0.97325 0.00048
6.10 0.98023 0.00049	6.00 0.97354 0.00048	6.00 0.98056 0.00048
6.15 0.98756 0.00047	6.05 0.97982 0.00049	6.05 0.98616 0.00047
6.20 0.99393 0.00048	6.10 0.98644 0.00048	6.10 0.99272 0.00048
6.25 1.00006 0.00047	6.15 0.99384 0.00048	6.15 0.99929 0.00049
6.30 1.00685 0.00048	6.20 0.99955 0.00048	6.20 1.00553 0.00049
6.35 1.01254 0.00048	6.25 1.00624 0.00048	6.25 1.01225 0.00049
6.40 1.01760 0.00047	6.30 1.01198 0.00048	6.30 1.01874 0.00048
6.45 1.02541 0.00046	6.35 1.01855 0.00047	6.35 1.02469 0.00048
6.50 1.03083 0.00047	6.40 1.02445 0.00047	6.40 1.03060 0.00049

130	150	200
5.50 0.91224 0.00048	5.40 0.89910 0.00049	5.50 0.91316 0.00049
5.55 0.91802 0.00049	5.45 0.90609 0.00048	5.55 0.91968 0.00050
5.60 0.92725 0.00049	5.50 0.91389 0.00049	5.60 0.92762 0.00048
5.65 0.93329 0.00048	5.55 0.92097 0.00049	5.65 0.93472 0.00048
5.70 0.94071 0.00049	5.60 0.92823 0.00049	5.70 0.94196 0.00048
5.75 0.94727 0.00048	5.65 0.93502 0.00049	5.75 0.94843 0.00049
5.80 0.95523 0.00047	5.70 0.94266 0.00049	5.80 0.95551 0.00049
5.85 0.96183 0.00048	5.75 0.95010 0.00048	5.85 0.96314 0.00049
5.90 0.96820 0.00048	5.80 0.95667 0.00049	5.90 0.96932 0.00049
5.95 0.97545 0.00049	5.85 0.96391 0.00049	5.95 0.97713 0.00049
6.00 0.98228 0.00048	5.90 0.97064 0.00048	6.00 0.98286 0.00050
6.05 0.98904 0.00048	5.95 0.97762 0.00048	6.05 0.98942 0.00049
6.10 0.99526 0.00049	6.00 0.98423 0.00049	6.10 0.99591 0.00048
6.15 1.00144 0.00048	6.05 0.99135 0.00049	6.15 1.00328 0.00050
6.20 1.00791 0.00049	6.10 0.99798 0.00048	6.20 1.00966 0.00048
6.25 1.01366 0.00049	6.15 1.00448 0.00048	6.25 1.01618 0.00051
6.30 1.01985 0.00048	6.20 1.01071 0.00048	6.30 1.02195 0.00047
6.35 1.02663 0.00049	6.25 1.01675 0.00048	6.35 1.02842 0.00050
6.40 1.03290 0.00049	6.30 1.02254 0.00048	6.40 1.03395 0.00049

239	250	359
5.50 0.90817 0.00049	5.50 0.90809 0.00049	5.60 0.90909 0.00048
5.55 0.91701 0.00047	5.55 0.91496 0.00049	5.65 0.91642 0.00049
5.60 0.92381 0.00049	5.60 0.92357 0.00050	5.70 0.92284 0.00050
5.65 0.93199 0.00048	5.65 0.92966 0.00048	5.75 0.92922 0.00050

5.70 0.93910 0.00048	5.70 0.93682 0.00048	5.80 0.93719 0.00049
5.75 0.94528 0.00048	5.75 0.94428 0.00048	5.85 0.94377 0.00049
5.80 0.95257 0.00048	5.80 0.95154 0.00048	5.90 0.95060 0.00048
5.85 0.96009 0.00050	5.85 0.95848 0.00049	5.95 0.95759 0.00049
5.90 0.96667 0.00049	5.90 0.96525 0.00048	6.00 0.96459 0.00048
5.95 0.97329 0.00047	5.95 0.97262 0.00048	6.05 0.97132 0.00046
6.00 0.97900 0.00048	6.00 0.97918 0.00048	6.10 0.97838 0.00051
6.05 0.98648 0.00050	6.05 0.98523 0.00049	6.15 0.98292 0.00048
6.10 0.99297 0.00048	6.10 0.99180 0.00049	6.20 0.99099 0.00049
6.15 0.99970 0.00049	6.15 0.99806 0.00049	6.25 0.99655 0.00047
6.20 1.00497 0.00048	6.20 1.00464 0.00050	6.30 1.00311 0.00050
6.25 1.01175 0.00049	6.25 1.01033 0.00050	6.35 1.00956 0.00049
6.30 1.01862 0.00049	6.30 1.01690 0.00050	6.40 1.01610 0.00050
6.35 1.02449 0.00049	6.35 1.02338 0.00050	6.45 1.02183 0.00049
6.40 1.03027 0.00048	6.40 1.02974 0.00048	6.50 1.02795 0.00048

478	500	600
5.70 0.90854 0.00049	5.80 0.91844 0.00049	5.90 0.91370 0.00049
5.75 0.91467 0.00049	5.85 0.92521 0.00049	5.95 0.92084 0.00049
5.80 0.92151 0.00048	5.90 0.93145 0.00048	6.00 0.92767 0.00049
5.85 0.92873 0.00048	5.95 0.93847 0.00048	6.05 0.93376 0.00049
5.90 0.93534 0.00048	6.00 0.94537 0.00049	6.10 0.94058 0.00050
5.95 0.94198 0.00049	6.05 0.95287 0.00049	6.15 0.94715 0.00048
6.00 0.94946 0.00048	6.10 0.95872 0.00049	6.20 0.95436 0.00048
6.05 0.95609 0.00047	6.15 0.96591 0.00050	6.25 0.96052 0.00049
6.10 0.96223 0.00048	6.20 0.97180 0.00049	6.30 0.96721 0.00047
6.20 0.97618 0.00051	6.25 0.97854 0.00049	6.35 0.97360 0.00048
6.25 0.98224 0.00048	6.30 0.98508 0.00050	6.40 0.97962 0.00049
6.30 0.98792 0.00048	6.35 0.99119 0.00048	6.45 0.98616 0.00049
6.35 0.99435 0.00049	6.40 0.99758 0.00049	6.50 0.99244 0.00049
6.40 1.00071 0.00048	6.45 1.00470 0.00050	6.55 0.99860 0.00048
6.45 1.00741 0.00049	6.50 1.00880 0.00050	6.60 1.00375 0.00048
6.50 1.01337 0.00048	6.55 1.01659 0.00049	6.65 1.01092 0.00049
6.55 1.01949 0.00048	6.60 1.02223 0.00048	6.70 1.01673 0.00049
6.60 1.02608 0.00048	6.65 1.02768 0.00049	6.75 1.02329 0.00048
	6.70 1.03426 0.00050	6.80 1.02796 0.00050

650	700	750
6.00 0.91550 0.00049	6.10 0.91351 0.00048	6.30 0.91870 0.00047
6.05 0.92268 0.00046	6.15 0.92058 0.00049	6.35 0.92513 0.00049
6.10 0.92964 0.00049	6.20 0.92664 0.00049	6.40 0.93145 0.00048
6.15 0.93561 0.00049	6.25 0.93309 0.00047	6.45 0.93815 0.00046
6.20 0.94309 0.00048	6.30 0.93936 0.00049	6.50 0.94395 0.00048
6.25 0.94912 0.00049	6.35 0.94657 0.00049	6.55 0.95131 0.00049
6.30 0.95583 0.00049	6.40 0.95204 0.00049	6.60 0.95686 0.00049
6.35 0.96218 0.00049	6.45 0.95980 0.00049	6.65 0.96246 0.00047
6.40 0.96878 0.00048	6.50 0.96552 0.00048	6.70 0.97018 0.00049

6.45 0.97465 0.00048	6.55 0.97295 0.00048	6.75 0.97664 0.00048
6.50 0.98188 0.00048	6.60 0.97786 0.00047	6.80 0.98190 0.00049
6.55 0.98732 0.00048	6.65 0.98392 0.00049	6.85 0.98698 0.00049
6.60 0.99363 0.00049	6.70 0.99059 0.00049	6.90 0.99454 0.00048
6.65 0.99940 0.00049	6.75 0.99638 0.00047	6.95 0.99824 0.00048
6.70 1.00602 0.00050	6.80 1.00229 0.00048	7.00 1.00560 0.00047
6.75 1.01147 0.00050	6.85 1.00853 0.00049	7.05 1.01047 0.00048
6.80 1.01805 0.00046	6.90 1.01423 0.00049	7.10 1.01711 0.00048
6.85 1.02286 0.00047	6.95 1.01939 0.00050	7.15 1.02267 0.00049
6.90 1.02974 0.00048	7.00 1.02614 0.00049	7.20 1.02772 0.00049

760	765	770
6.30 0.91379 0.00048	6.40 0.92390 0.00048	6.40 0.92084 0.00048
6.35 0.92047 0.00048	6.45 0.93112 0.00048	6.45 0.92798 0.00049
6.40 0.92627 0.00048	6.50 0.93694 0.00048	6.50 0.93415 0.00049
6.45 0.93359 0.00048	6.55 0.94269 0.00048	6.55 0.94073 0.00048
6.50 0.94006 0.00050	6.60 0.94920 0.00048	6.60 0.94694 0.00047
6.55 0.94548 0.00048	6.65 0.95557 0.00047	6.65 0.95314 0.00047
6.60 0.95256 0.00047	6.70 0.96135 0.00047	6.70 0.95906 0.00048
6.65 0.95926 0.00048	6.75 0.96795 0.00049	6.75 0.96536 0.00048
6.70 0.96498 0.00048	6.80 0.97457 0.00049	6.80 0.97022 0.00050
6.75 0.97081 0.00048	6.85 0.97976 0.00048	6.85 0.97739 0.00048
6.80 0.97716 0.00047	6.90 0.98669 0.00049	6.90 0.98247 0.00049
6.85 0.98286 0.00048	6.95 0.99239 0.00049	6.95 0.98884 0.00048
6.90 0.98851 0.00050	7.00 0.99750 0.00050	7.00 0.99481 0.00049
6.95 0.99473 0.00049	7.05 1.00332 0.00048	7.05 1.00091 0.00048
7.00 0.99988 0.00048	7.10 1.00965 0.00049	7.10 1.00647 0.00049
7.05 1.00575 0.00050	7.15 1.01600 0.00049	7.15 1.01172 0.00049
7.10 1.01224 0.00049	7.20 1.02000 0.00050	7.20 1.01730 0.00049
7.15 1.01745 0.00049		7.25 1.02329 0.00049
7.20 1.02382 0.00048		7.30 1.02893 0.00048

775	0
6.40 0.91909 0.00050	
6.45 0.92502 0.00048	
6.50 0.93239 0.00049	
6.55 0.93751 0.00047	
6.60 0.94478 0.00049	
6.65 0.95037 0.00048	
6.70 0.95689 0.00046	
6.75 0.96336 0.00049	
6.80 0.96879 0.00049	
6.85 0.97405 0.00048	
6.90 0.98160 0.00049	
6.95 0.98649 0.00049	
7.00 0.99279 0.00048	
7.05 0.99776 0.00048	

7.10 1.00483 0.00048
 7.15 1.01090 0.00049
 7.20 1.01605 0.00048
 7.25 1.02109 0.00048
 7.30 1.02652 0.00049

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12	15	20
10.40 0.92456 0.00027	8.20 0.92674 0.00031	6.50 0.92168 0.00036
10.60 0.93058 0.00027	8.30 0.93117 0.00030	6.55 0.92392 0.00035
10.80 0.93605 0.00027	8.40 0.93588 0.00032	6.60 0.92878 0.00034
11.00 0.94166 0.00026	8.50 0.94062 0.00030	6.65 0.93214 0.00035
11.20 0.94648 0.00026	8.60 0.94433 0.00030	6.70 0.93581 0.00035
11.40 0.95219 0.00026	8.70 0.94901 0.00031	6.75 0.93802 0.00035
11.60 0.95672 0.00026	8.80 0.95382 0.00030	6.80 0.94255 0.00035
11.80 0.96215 0.00027	8.90 0.95755 0.00030	6.85 0.94631 0.00034
12.00 0.96609 0.00026	9.00 0.96149 0.00031	6.90 0.94892 0.00035
12.20 0.97056 0.00025	9.10 0.96573 0.00030	6.95 0.95217 0.00034
12.40 0.97488 0.00026	9.20 0.96972 0.00030	7.00 0.95522 0.00035
12.60 0.97955 0.00025	9.30 0.97339 0.00031	7.05 0.95904 0.00034
12.80 0.98327 0.00026	9.40 0.97740 0.00029	7.10 0.96198 0.00034
13.00 0.98734 0.00025	9.50 0.98142 0.00030	7.15 0.96522 0.00035
13.20 0.99111 0.00025	9.60 0.98513 0.00030	7.20 0.96807 0.00035
13.40 0.99470 0.00024	9.70 0.98884 0.00030	7.25 0.97142 0.00034
13.60 0.99837 0.00025	9.80 0.99214 0.00030	7.30 0.97434 0.00034
13.80 1.00245 0.00024	9.90 0.99580 0.00029	7.35 0.97772 0.00034
14.00 1.00543 0.00024	10.00 0.99913 0.00029	7.40 0.98072 0.00033
14.20 1.00861 0.00025	10.10 1.00272 0.00030	7.45 0.98369 0.00034
14.40 1.01226 0.00025	10.20 1.00625 0.00029	7.50 0.98638 0.00035
14.50 1.01313 0.00024	10.30 1.00904 0.00028	7.55 0.98943 0.00034
	10.40 1.01243 0.00029	7.60 0.99310 0.00035
	10.50 1.01568 0.00029	7.65 0.99572 0.00035
		7.70 0.99815 0.00034
		7.75 1.00033 0.00034
		7.80 1.00383 0.00034
		7.85 1.00636 0.00034
		7.90 1.00861 0.00034
		7.95 1.01245 0.00034
		8.00 1.01508 0.00034

25	30	32
5.70 0.91998 0.00038	5.30 0.92444 0.00039	5.10 0.91719 0.00040
5.75 0.92318 0.00037	5.35 0.92943 0.00039	5.15 0.92358 0.00040
5.80 0.92756 0.00038	5.40 0.93490 0.00040	5.20 0.92854 0.00040
5.85 0.93255 0.00037	5.45 0.93953 0.00041	5.25 0.93356 0.00040
5.90 0.93647 0.00038	5.50 0.94426 0.00040	5.30 0.93990 0.00040
5.95 0.94056 0.00038	5.55 0.94970 0.00040	5.35 0.94318 0.00041

6.00 0.94541 0.00038	5.60 0.95344 0.00039	5.40 0.94849 0.00041
6.05 0.94880 0.00037	5.65 0.95923 0.00040	5.45 0.95434 0.00039
6.10 0.95350 0.00038	5.70 0.96328 0.00039	5.50 0.95889 0.00040
6.15 0.95771 0.00037	5.75 0.96784 0.00039	5.55 0.96399 0.00040
6.20 0.96148 0.00037	5.80 0.97202 0.00039	5.60 0.96730 0.00040
6.25 0.96509 0.00037	5.85 0.97713 0.00038	5.65 0.97330 0.00040
6.30 0.96944 0.00037	5.90 0.98132 0.00040	5.70 0.97827 0.00041
6.35 0.97324 0.00038	5.95 0.98626 0.00039	5.75 0.98246 0.00040
6.40 0.97717 0.00039	6.00 0.99029 0.00039	5.80 0.98644 0.00040
6.45 0.98078 0.00037	6.05 0.99416 0.00040	5.85 0.99148 0.00040
6.50 0.98466 0.00037	6.10 0.99836 0.00039	5.90 0.99578 0.00041
6.55 0.98832 0.00037	6.15 1.00293 0.00040	5.95 1.00009 0.00040
6.60 0.99285 0.00038	6.20 1.00701 0.00039	6.00 1.00401 0.00039
6.65 0.99562 0.00036	6.25 1.01053 0.00039	6.05 1.00966 0.00039
6.70 0.99938 0.00037	6.30 1.01545 0.00039	6.10 1.01399 0.00041
6.75 1.00328 0.00037	6.35 1.01919 0.00039	6.15 1.01728 0.00039
6.80 1.00710 0.00038	6.40 1.02280 0.00039	6.20 1.02166 0.00040
6.85 1.01031 0.00038		
6.90 1.01386 0.00037		
6.95 1.01692 0.00037		
7.00 1.02094 0.00037		

35	40	50
4.90 0.91437 0.00041	4.70 0.91607 0.00042	4.50 0.92763 0.00044
4.95 0.91978 0.00041	4.75 0.92214 0.00042	4.55 0.93307 0.00044
5.00 0.92588 0.00040	4.80 0.92769 0.00042	4.60 0.94012 0.00043
5.05 0.93138 0.00041	4.85 0.93384 0.00043	4.65 0.94571 0.00044
5.10 0.93640 0.00040	4.90 0.93977 0.00042	4.70 0.95159 0.00043
5.15 0.94085 0.00041	4.95 0.94517 0.00041	4.75 0.95712 0.00042
5.20 0.94661 0.00040	5.00 0.95026 0.00042	4.80 0.96410 0.00044
5.25 0.95293 0.00042	5.05 0.95623 0.00041	4.85 0.96932 0.00044
5.30 0.95793 0.00041	5.10 0.96252 0.00041	4.90 0.97605 0.00044
5.35 0.96244 0.00040	5.15 0.96645 0.00042	4.95 0.98121 0.00043
5.40 0.96773 0.00041	5.20 0.97218 0.00042	5.00 0.98725 0.00043
5.45 0.97255 0.00041	5.25 0.97761 0.00042	5.05 0.99237 0.00043
5.50 0.97708 0.00041	5.30 0.98280 0.00042	5.10 0.99802 0.00042
5.55 0.98187 0.00041	5.35 0.98758 0.00041	5.15 1.00365 0.00043
5.60 0.98705 0.00040	5.40 0.99316 0.00041	5.20 1.00926 0.00045
5.65 0.99269 0.00041	5.45 0.99804 0.00042	5.25 1.01473 0.00043
5.70 0.99714 0.00041	5.50 1.00280 0.00040	5.30 1.01973 0.00042
5.75 1.00251 0.00041	5.55 1.00789 0.00042	
5.80 1.00551 0.00040	5.60 1.01320 0.00043	
5.85 1.01082 0.00040	5.65 1.01820 0.00041	
5.90 1.01532 0.00039	5.70 1.02266 0.00042	
5.95 1.01962 0.00041		
6.00 1.02416 0.00041		

60	70	80
4.30 0.92479 0.00044	4.20 0.92704 0.00044	4.10 0.92438 0.00045
4.35 0.93119 0.00044	4.25 0.93355 0.00045	4.15 0.93115 0.00046
4.40 0.93764 0.00044	4.30 0.94119 0.00045	4.20 0.93829 0.00044
4.45 0.94461 0.00045	4.35 0.94679 0.00044	4.25 0.94523 0.00045
4.50 0.95128 0.00045	4.40 0.95309 0.00045	4.30 0.95189 0.00045
4.55 0.95725 0.00045	4.45 0.95999 0.00045	4.35 0.95793 0.00046
4.60 0.96282 0.00045	4.50 0.96662 0.00044	4.40 0.96547 0.00047
4.65 0.96908 0.00045	4.55 0.97206 0.00045	4.45 0.97151 0.00046
4.70 0.97530 0.00044	4.60 0.97873 0.00046	4.50 0.97799 0.00045
4.75 0.98151 0.00044	4.65 0.98493 0.00045	4.55 0.98441 0.00045
4.80 0.98792 0.00044	4.70 0.99211 0.00045	4.60 0.99092 0.00045
4.85 0.99311 0.00045	4.75 0.99788 0.00044	4.65 0.99750 0.00045
4.90 0.99913 0.00043	4.80 1.00349 0.00044	4.70 1.00384 0.00046
4.95 1.00572 0.00045	4.85 1.00900 0.00046	4.75 1.00962 0.00045
5.00 1.01020 0.00044	4.90 1.01497 0.00046	4.80 1.01552 0.00045
5.05 1.01685 0.00044	4.95 1.02035 0.00044	4.85 1.02129 0.00045
5.10 1.02134 0.00044	5.00 1.02619 0.00045	4.90 1.02711 0.00045

90	100	120
4.00 0.91854 0.00045	3.90 0.91073 0.00045	3.90 0.91778 0.00047
4.05 0.92598 0.00046	3.95 0.91843 0.00046	3.95 0.92571 0.00048
4.10 0.93376 0.00045	4.00 0.92486 0.00046	4.00 0.93233 0.00046
4.15 0.93918 0.00046	4.05 0.93189 0.00046	4.05 0.93963 0.00046
4.20 0.94682 0.00046	4.10 0.93941 0.00046	4.10 0.94650 0.00048
4.25 0.95431 0.00046	4.15 0.94618 0.00046	4.15 0.95331 0.00047
4.30 0.95985 0.00047	4.20 0.95342 0.00047	4.20 0.96114 0.00048
4.35 0.96720 0.00047	4.25 0.96003 0.00046	4.25 0.96722 0.00046
4.40 0.97410 0.00046	4.30 0.96730 0.00046	4.30 0.97437 0.00047
4.45 0.97956 0.00047	4.35 0.97327 0.00048	4.35 0.98119 0.00047
4.50 0.98607 0.00046	4.40 0.97957 0.00046	4.40 0.98742 0.00045
4.55 0.99291 0.00047	4.45 0.98634 0.00046	4.45 0.99371 0.00045
4.60 0.99919 0.00046	4.50 0.99255 0.00046	4.50 0.99947 0.00046
4.65 1.00579 0.00047	4.55 0.99897 0.00047	4.55 1.00786 0.00047
4.70 1.01168 0.00045	4.60 1.00518 0.00047	4.60 1.01242 0.00046
4.75 1.01844 0.00045	4.65 1.01229 0.00046	4.65 1.01947 0.00046
4.80 1.02387 0.00046	4.70 1.01875 0.00046	4.70 1.02539 0.00047
	4.75 1.02400 0.00045	
	4.80 1.02967 0.00046	

130	150	200
3.90 0.92123 0.00047	3.90 0.92406 0.00047	3.80 0.91192 0.00046
3.95 0.92798 0.00047	3.95 0.93051 0.00047	3.85 0.91900 0.00047
4.00 0.93540 0.00046	4.00 0.93864 0.00046	3.90 0.92534 0.00046
4.05 0.94206 0.00048	4.05 0.94532 0.00046	3.95 0.93248 0.00048
4.10 0.94918 0.00047	4.10 0.95284 0.00048	4.00 0.94010 0.00046
4.15 0.95620 0.00046	4.15 0.95982 0.00047	4.05 0.94796 0.00047

4.20 0.96295 0.00047	4.20 0.96682 0.00047	4.10 0.95390 0.00046
4.25 0.97054 0.00047	4.25 0.97324 0.00048	4.15 0.96114 0.00047
4.30 0.97686 0.00047	4.30 0.97879 0.00047	4.20 0.96818 0.00046
4.35 0.98357 0.00047	4.35 0.98629 0.00047	4.25 0.97452 0.00047
4.40 0.99021 0.00046	4.40 0.99316 0.00046	4.30 0.98040 0.00047
4.45 0.99648 0.00046	4.45 0.99962 0.00047	4.35 0.98828 0.00047
4.50 1.00323 0.00046	4.50 1.00651 0.00048	4.40 0.99382 0.00047
4.55 1.00927 0.00048	4.55 1.01243 0.00048	4.45 1.00129 0.00047
4.60 1.01597 0.00047	4.60 1.01883 0.00047	4.50 1.00727 0.00046
4.65 1.02207 0.00047	4.65 1.02502 0.00046	4.55 1.01362 0.00048
4.70 1.02848 0.00046	4.70 1.03025 0.00046	4.60 1.01998 0.00047

239	250	359
3.90 0.92355 0.00048	3.90 0.92218 0.00047	3.90 0.91173 0.00048
3.95 0.93090 0.00047	3.95 0.92926 0.00048	3.95 0.91832 0.00049
4.00 0.93780 0.00047	4.00 0.93665 0.00048	4.00 0.92560 0.00047
4.05 0.94537 0.00048	4.05 0.94335 0.00048	4.05 0.93311 0.00048
4.10 0.95192 0.00047	4.10 0.95105 0.00049	4.10 0.93913 0.00047
4.15 0.95880 0.00048	4.15 0.95823 0.00047	4.15 0.94702 0.00049
4.20 0.96523 0.00047	4.20 0.96511 0.00047	4.20 0.95391 0.00048
4.25 0.97271 0.00046	4.25 0.97125 0.00048	4.25 0.96020 0.00046
4.30 0.97932 0.00048	4.30 0.97845 0.00047	4.30 0.96709 0.00048
4.35 0.98496 0.00047	4.35 0.98482 0.00048	4.35 0.97312 0.00048
4.40 0.99264 0.00048	4.40 0.99172 0.00047	4.40 0.97951 0.00049
4.45 0.99874 0.00048	4.45 0.99741 0.00050	4.45 0.98640 0.00048
4.50 1.00492 0.00048	4.50 1.00312 0.00048	4.50 0.99308 0.00048
4.55 1.01116 0.00047	4.55 1.01107 0.00048	4.55 0.99822 0.00047
4.60 1.01719 0.00047	4.60 1.01642 0.00048	4.60 1.00595 0.00048
4.65 1.02428 0.00047	4.65 1.02282 0.00048	4.65 1.01124 0.00046
4.70 1.03032 0.00047	4.70 1.02903 0.00047	4.70 1.01683 0.00047
		4.75 1.02342 0.00048
		4.80 1.02929 0.00048

478	500	600
4.00 0.91344 0.00048	4.10 0.92469 0.00048	4.20 0.92352 0.00047
4.05 0.92043 0.00047	4.15 0.93140 0.00047	4.25 0.92971 0.00047
4.10 0.92729 0.00048	4.20 0.93820 0.00049	4.35 0.94207 0.00046
4.15 0.93443 0.00048	4.25 0.94472 0.00048	4.40 0.94884 0.00049
4.20 0.94140 0.00047	4.30 0.95187 0.00048	4.45 0.95489 0.00048
4.25 0.94774 0.00048	4.35 0.95743 0.00048	4.50 0.96159 0.00048
4.30 0.95433 0.00048	4.40 0.96503 0.00048	4.55 0.96822 0.00048
4.35 0.95976 0.00048	4.45 0.97040 0.00049	4.60 0.97422 0.00049
4.40 0.96675 0.00049	4.50 0.97708 0.00048	4.65 0.97963 0.00049
4.45 0.97337 0.00048	4.55 0.98326 0.00049	4.70 0.98749 0.00049
4.50 0.97929 0.00047	4.60 0.98872 0.00049	4.75 0.99241 0.00048
4.55 0.98703 0.00048	4.65 0.99576 0.00048	4.80 0.99868 0.00048
4.60 0.99198 0.00047	4.70 1.00126 0.00048	4.85 1.00404 0.00047

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4.65 0.99867 0.00048	4.75 1.00683 0.00048	4.90 1.01066 0.00049
4.70 1.00467 0.00048	4.80 1.01416 0.00048	4.95 1.01742 0.00048
4.75 1.01057 0.00047	4.85 1.02027 0.00048	5.00 1.02192 0.00048
4.80 1.01715 0.00047	4.90 1.02508 0.00049	
4.85 1.02265 0.00047		
4.90 1.02849 0.00047		

650	700	750
4.30 0.92682 0.00048	4.30 0.91368 0.00048	4.50 0.92316 0.00047
4.35 0.93291 0.00048	4.35 0.91981 0.00048	4.55 0.92943 0.00048
4.40 0.94046 0.00047	4.40 0.92701 0.00049	4.60 0.93636 0.00047
4.45 0.94541 0.00049	4.45 0.93303 0.00049	4.65 0.94202 0.00048
4.50 0.95276 0.00049	4.50 0.93945 0.00048	4.70 0.94759 0.00048
4.55 0.95831 0.00048	4.55 0.94560 0.00048	4.75 0.95470 0.00047
4.60 0.96511 0.00049	4.60 0.95263 0.00048	4.80 0.96048 0.00048
4.65 0.97065 0.00049	4.65 0.95882 0.00048	4.85 0.96603 0.00049
4.70 0.97779 0.00048	4.70 0.96540 0.00047	4.90 0.97181 0.00048
4.75 0.98302 0.00048	4.75 0.97002 0.00047	4.95 0.97856 0.00047
4.80 0.99026 0.00048	4.80 0.97661 0.00050	5.00 0.98444 0.00049
4.85 0.99570 0.00048	4.85 0.98266 0.00049	5.05 0.98979 0.00048
4.90 1.00156 0.00048	4.90 0.98894 0.00049	5.10 0.99560 0.00048
4.95 1.00623 0.00047	4.95 0.99514 0.00047	5.15 1.00095 0.00049
5.00 1.01345 0.00049	5.00 1.00116 0.00049	5.20 1.00677 0.00048
5.05 1.01875 0.00048	5.05 1.00567 0.00047	5.25 1.01282 0.00048
5.10 1.02464 0.00049	5.10 1.01207 0.00048	5.30 1.01751 0.00048
	5.15 1.01722 0.00049	
	5.20 1.02282 0.00048	

760	765	770
4.50 0.91962 0.00046	4.50 0.91733 0.00047	4.50 0.91498 0.00048
4.55 0.92541 0.00047	4.55 0.92414 0.00048	4.55 0.92181 0.00047
4.60 0.93229 0.00048	4.60 0.93035 0.00048	4.60 0.92755 0.00047
4.65 0.93834 0.00047	4.65 0.93506 0.00047	4.65 0.93314 0.00047
4.70 0.94368 0.00049	4.70 0.94218 0.00049	4.70 0.93973 0.00048
4.75 0.95094 0.00048	4.75 0.94899 0.00048	4.75 0.94611 0.00047
4.80 0.95661 0.00047	4.80 0.95444 0.00049	4.80 0.95194 0.00048
4.85 0.96285 0.00048	4.85 0.96002 0.00048	4.85 0.95789 0.00050
4.90 0.96881 0.00049	4.90 0.96612 0.00048	4.90 0.96456 0.00047
4.95 0.97534 0.00048	4.95 0.97176 0.00049	4.95 0.97015 0.00047
5.00 0.98063 0.00047	5.00 0.97818 0.00048	5.00 0.97548 0.00048
5.05 0.98614 0.00048	5.05 0.98355 0.00049	5.05 0.98165 0.00049
5.10 0.99165 0.00048	5.10 0.98920 0.00048	5.10 0.98755 0.00049
5.15 0.99748 0.00048	5.15 0.99583 0.00047	5.15 0.99264 0.00050
5.20 1.00307 0.00048	5.20 1.00130 0.00049	5.20 0.99933 0.00048
5.25 1.00869 0.00048	5.25 1.00633 0.00050	5.25 1.00313 0.00049
5.30 1.01502 0.00049	5.30 1.01155 0.00049	5.30 1.00967 0.00048
5.35 1.02052 0.00049	5.35 1.01746 0.00048	5.35 1.01484 0.00050
5.40 1.02548 0.00049	5.40 1.02285 0.00048	5.40 1.02002 0.00048
		5.45 1.02623 0.00049
		5.50 1.03130 0.00049

775	0
4.60 0.92510 0.00049	
4.65 0.93278 0.00048	
4.70 0.93814 0.00048	
4.75 0.94389 0.00048	
4.80 0.95000 0.00048	
4.85 0.95656 0.00047	
4.90 0.96197 0.00049	
4.95 0.96806 0.00048	
5.00 0.97417 0.00048	
5.05 0.98011 0.00049	
5.10 0.98624 0.00048	
5.15 0.99101 0.00047	
5.20 0.99662 0.00047	
5.25 1.00213 0.00048	
5.30 1.00832 0.00049	
5.35 1.01285 0.00047	
5.40 1.01839 0.00048	

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12	15	20
9.30 0.92770 0.00026	6.90 0.92201 0.00028	5.30 0.92265 0.00031
9.50 0.93353 0.00025	7.00 0.92678 0.00029	5.35 0.92742 0.00032
9.70 0.93858 0.00025	7.10 0.93144 0.00029	5.40 0.93092 0.00032
9.90 0.94451 0.00026	7.20 0.93637 0.00030	5.45 0.93429 0.00032
10.10 0.94953 0.00025	7.30 0.94103 0.00028	5.50 0.93841 0.00032
10.30 0.95435 0.00025	7.40 0.94553 0.00028	5.55 0.94172 0.00032
10.50 0.95953 0.00025	7.50 0.94986 0.00028	5.60 0.94517 0.00031
10.70 0.96431 0.00025	7.60 0.95360 0.00029	5.65 0.94839 0.00032
10.90 0.96900 0.00024	7.70 0.95862 0.00028	5.70 0.95206 0.00032
11.10 0.97323 0.00024	7.80 0.96251 0.00028	5.75 0.95479 0.00032
11.30 0.97778 0.00024	7.90 0.96664 0.00029	5.80 0.95804 0.00032
11.50 0.98219 0.00024	8.00 0.97041 0.00028	5.85 0.96168 0.00031
11.70 0.98573 0.00024	8.10 0.97457 0.00028	5.90 0.96444 0.00032
11.90 0.98969 0.00024	8.20 0.97793 0.00028	5.95 0.96767 0.00032
12.10 0.99313 0.00023	8.30 0.98266 0.00028	6.00 0.97073 0.00032
12.30 0.99726 0.00024	8.40 0.98603 0.00028	6.05 0.97381 0.00032
12.50 1.00064 0.00024	8.50 0.98956 0.00028	6.10 0.97712 0.00032
12.70 1.00409 0.00023	8.60 0.99329 0.00028	6.15 0.98032 0.00032
12.90 1.00768 0.00023	8.70 0.99727 0.00028	6.20 0.98298 0.00032
13.10 1.01081 0.00022	8.80 1.00024 0.00027	6.25 0.98664 0.00031
13.20 1.01252 0.00023	8.90 1.00358 0.00028	6.30 0.98898 0.00032
	9.00 1.00704 0.00027	6.35 0.99241 0.00031
	9.10 1.01027 0.00027	6.40 0.99481 0.00032
	9.20 1.01347 0.00027	6.45 0.99811 0.00032
	9.30 1.01667 0.00027	6.50 1.00102 0.00031

6.55 1.00402 0.00032
 6.60 1.00660 0.00031
 6.65 1.00892 0.00032
 6.70 1.01242 0.00032
 6.75 1.01502 0.00031
 6.80 1.01689 0.00032

25	30	32
4.50 0.92402 0.00035	4.00 0.92254 0.00037	3.80 0.91661 0.00037
4.55 0.92870 0.00035	4.05 0.92754 0.00036	3.85 0.92216 0.00036
4.60 0.93325 0.00034	4.10 0.93276 0.00036	3.90 0.92853 0.00037
4.65 0.93712 0.00035	4.15 0.93767 0.00037	3.95 0.93295 0.00037
4.70 0.94215 0.00034	4.20 0.94280 0.00037	4.00 0.93796 0.00037
4.75 0.94597 0.00034	4.25 0.94824 0.00035	4.05 0.94289 0.00037
4.80 0.94995 0.00035	4.30 0.95261 0.00036	4.10 0.94870 0.00037
4.85 0.95451 0.00035	4.35 0.95757 0.00035	4.15 0.95347 0.00037
4.90 0.95861 0.00034	4.40 0.96181 0.00036	4.20 0.95804 0.00036
4.95 0.96216 0.00035	4.45 0.96702 0.00036	4.25 0.96283 0.00036
5.00 0.96672 0.00034	4.50 0.97101 0.00036	4.30 0.96772 0.00037
5.05 0.97105 0.00035	4.55 0.97608 0.00037	4.35 0.97305 0.00038
5.10 0.97427 0.00034	4.60 0.98112 0.00036	4.40 0.97791 0.00038
5.15 0.97914 0.00034	4.65 0.98518 0.00035	4.45 0.98288 0.00036
5.20 0.98201 0.00034	4.70 0.98981 0.00036	4.50 0.98666 0.00037
5.25 0.98684 0.00034	4.75 0.99378 0.00036	4.55 0.99178 0.00036
5.30 0.99110 0.00034	4.80 0.99856 0.00037	4.60 0.99643 0.00036
5.35 0.99373 0.00035	4.85 1.00193 0.00035	4.65 1.00156 0.00036
5.40 0.99751 0.00034	4.90 1.00674 0.00036	4.70 1.00557 0.00037
5.45 1.00129 0.00034	4.95 1.01099 0.00036	4.75 1.00969 0.00037
5.50 1.00498 0.00034	5.00 1.01538 0.00036	4.80 1.01429 0.00037
5.55 1.00888 0.00034		4.85 1.01777 0.00036
5.60 1.01204 0.00035		4.90 1.02221 0.00037
5.65 1.01561 0.00033		
5.70 1.01976 0.00034		

35	40	50
3.70 0.92571 0.00037	3.40 0.91890 0.00037	3.10 0.92143 0.00040
3.75 0.93135 0.00037	3.45 0.92391 0.00038	3.15 0.92791 0.00040
3.80 0.93639 0.00037	3.50 0.93072 0.00039	3.20 0.93480 0.00039
3.85 0.94170 0.00038	3.55 0.93693 0.00040	3.25 0.94085 0.00038
3.90 0.94684 0.00038	3.60 0.94201 0.00039	3.30 0.94793 0.00039
3.95 0.95220 0.00038	3.65 0.94831 0.00039	3.35 0.95373 0.00040
4.00 0.95850 0.00039	3.70 0.95406 0.00038	3.40 0.96009 0.00040
4.05 0.96274 0.00039	3.75 0.95922 0.00038	3.45 0.96607 0.00040
4.10 0.96899 0.00037	3.80 0.96426 0.00038	3.50 0.97216 0.00040
4.15 0.97334 0.00037	3.85 0.97084 0.00038	3.55 0.97801 0.00039
4.20 0.97885 0.00037	3.90 0.97610 0.00039	3.60 0.98341 0.00040
4.25 0.98294 0.00037	3.95 0.98114 0.00039	3.65 0.98919 0.00039

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4.30 0.98858 0.00037	4.00 0.98665 0.00038	3.70 0.99497 0.00039
4.35 0.99292 0.00038	4.05 0.99227 0.00039	3.75 1.00030 0.00039
4.40 0.99827 0.00037	4.10 0.99628 0.00038	3.80 1.00668 0.00040
4.45 1.00295 0.00037	4.15 1.00194 0.00038	3.85 1.01178 0.00040
4.50 1.00762 0.00037	4.20 1.00747 0.00038	3.90 1.01661 0.00040
4.55 1.01206 0.00038	4.25 1.01228 0.00039	
4.60 1.01703 0.00037	4.30 1.01700 0.00038	
	4.35 1.02189 0.00038	
	4.40 1.02704 0.00038	

60	70	80
2.90 0.92330 0.00040	2.70 0.91570 0.00041	2.60 0.91614 0.00040
2.95 0.92992 0.00040	2.75 0.92225 0.00041	2.65 0.92375 0.00041
3.00 0.93644 0.00040	2.80 0.92931 0.00041	2.70 0.93091 0.00042
3.05 0.94352 0.00040	2.85 0.93696 0.00041	2.75 0.93766 0.00042
3.10 0.95021 0.00040	2.90 0.94362 0.00041	2.80 0.94510 0.00041
3.15 0.95654 0.00040	2.95 0.95067 0.00041	2.85 0.95133 0.00039
3.20 0.96296 0.00040	3.00 0.95714 0.00041	2.90 0.95888 0.00040
3.25 0.96950 0.00041	3.05 0.96435 0.00040	2.95 0.96580 0.00042
3.30 0.97539 0.00040	3.10 0.96991 0.00041	3.00 0.97190 0.00043
3.35 0.98106 0.00041	3.15 0.97606 0.00042	3.05 0.97906 0.00040
3.40 0.98768 0.00040	3.20 0.98271 0.00041	3.10 0.98576 0.00040
3.45 0.99425 0.00041	3.25 0.98900 0.00042	3.15 0.99213 0.00042
3.50 1.00016 0.00040	3.30 0.99574 0.00041	3.20 0.99817 0.00042
3.55 1.00561 0.00039	3.35 1.00297 0.00041	3.25 1.00468 0.00042
3.60 1.01201 0.00041	3.40 1.00831 0.00041	3.30 1.01167 0.00042
3.65 1.01718 0.00040	3.45 1.01411 0.00041	3.35 1.01718 0.00041
3.70 1.02326 0.00040	3.50 1.01945 0.00042	3.40 1.02361 0.00042

90	100	120
2.60 0.92818 0.00042	2.50 0.92301 0.00042	2.40 0.92267 0.00042
2.65 0.93647 0.00042	2.55 0.93144 0.00042	2.45 0.93043 0.00043
2.70 0.94294 0.00041	2.60 0.93780 0.00042	2.50 0.93726 0.00042
2.75 0.95034 0.00042	2.65 0.94547 0.00041	2.55 0.94488 0.00042
2.80 0.95675 0.00042	2.70 0.95274 0.00042	2.60 0.95127 0.00042
2.85 0.96436 0.00042	2.75 0.96007 0.00041	2.65 0.95860 0.00042
2.90 0.97146 0.00041	2.80 0.96703 0.00041	2.70 0.96613 0.00042
2.95 0.97669 0.00043	2.85 0.97375 0.00042	2.75 0.97277 0.00042
3.00 0.98425 0.00042	2.90 0.98015 0.00041	2.80 0.98036 0.00042
3.05 0.99009 0.00042	2.95 0.98693 0.00042	2.85 0.98685 0.00042
3.10 0.99720 0.00041	3.00 0.99355 0.00042	2.90 0.99358 0.00043
3.15 1.00452 0.00042	3.05 1.00031 0.00042	2.95 0.99967 0.00041
3.20 1.00960 0.00042	3.10 1.00721 0.00042	3.00 1.00669 0.00043
3.25 1.01645 0.00042	3.15 1.01270 0.00041	3.05 1.01313 0.00043
3.30 1.02192 0.00043	3.20 1.01972 0.00041	3.10 1.01925 0.00042

130	150	200
2.40 0.92856 0.00042	2.30 0.92138 0.00042	2.20 0.91812 0.00043
2.45 0.93594 0.00042	2.35 0.92910 0.00043	2.25 0.92593 0.00043
2.50 0.94215 0.00043	2.40 0.93582 0.00043	2.30 0.93306 0.00042
2.55 0.94986 0.00042	2.45 0.94332 0.00043	2.35 0.94010 0.00043
2.60 0.95736 0.00045	2.50 0.95048 0.00043	2.40 0.94766 0.00043
2.65 0.96487 0.00042	2.55 0.95720 0.00042	2.45 0.95436 0.00042
2.70 0.97115 0.00043	2.60 0.96542 0.00042	2.50 0.96157 0.00044
2.75 0.97870 0.00042	2.65 0.97187 0.00042	2.55 0.96840 0.00042
2.80 0.98522 0.00041	2.70 0.97941 0.00042	2.60 0.97563 0.00043
2.85 0.99135 0.00043	2.75 0.98618 0.00044	2.65 0.98187 0.00044
2.90 0.99857 0.00042	2.80 0.99193 0.00043	2.70 0.98935 0.00043
2.95 1.00541 0.00041	2.85 1.00026 0.00042	2.75 0.99546 0.00044
3.00 1.01131 0.00042	2.90 1.00587 0.00042	2.80 1.00330 0.00041
3.05 1.01852 0.00041	2.95 1.01250 0.00042	2.85 1.00882 0.00043
3.10 1.02428 0.00043	3.00 1.01894 0.00042	2.90 1.01603 0.00044

239	250	359
2.20 0.92304 0.00042	2.20 0.92418 0.00043	2.20 0.92687 0.00044
2.25 0.93045 0.00043	2.25 0.93125 0.00042	2.25 0.93461 0.00043
2.30 0.93696 0.00043	2.30 0.93805 0.00042	2.30 0.94056 0.00043
2.35 0.94532 0.00043	2.35 0.94514 0.00043	2.35 0.94820 0.00044
2.40 0.95154 0.00042	2.40 0.95236 0.00043	2.40 0.95459 0.00043
2.45 0.95885 0.00044	2.45 0.95959 0.00042	2.45 0.96164 0.00043
2.50 0.96561 0.00043	2.50 0.96683 0.00044	2.50 0.96793 0.00044
2.55 0.97298 0.00043	2.55 0.97331 0.00043	2.55 0.97484 0.00042
2.60 0.97959 0.00043	2.60 0.98060 0.00044	2.60 0.98150 0.00044
2.65 0.98610 0.00044	2.65 0.98719 0.00043	2.65 0.98737 0.00043
2.70 0.99187 0.00042	2.70 0.99382 0.00043	2.70 0.99480 0.00044
2.75 0.99902 0.00043	2.75 1.00102 0.00044	2.75 1.00061 0.00045
2.80 1.00588 0.00043	2.80 1.00610 0.00043	2.80 1.00673 0.00044
2.85 1.01210 0.00043	2.85 1.01267 0.00043	2.85 1.01222 0.00043
2.90 1.01880 0.00044	2.90 1.01936 0.00043	2.90 1.01936 0.00044

478	500	600
2.20 0.92530 0.00042	2.20 0.92478 0.00042	2.20 0.91922 0.00043
2.25 0.93252 0.00044	2.25 0.93101 0.00043	2.25 0.92623 0.00042
2.30 0.93901 0.00044	2.30 0.93863 0.00044	2.30 0.93254 0.00044
2.35 0.94640 0.00043	2.35 0.94490 0.00043	2.35 0.93961 0.00043
2.40 0.95249 0.00044	2.40 0.95178 0.00043	2.40 0.94628 0.00044
2.45 0.95928 0.00045	2.45 0.95808 0.00044	2.45 0.95236 0.00044
2.50 0.96577 0.00044	2.50 0.96386 0.00044	2.50 0.95787 0.00043
2.55 0.97282 0.00044	2.55 0.97088 0.00043	2.55 0.96444 0.00044
2.60 0.97881 0.00045	2.60 0.97800 0.00045	2.60 0.97064 0.00044
2.65 0.98526 0.00043	2.65 0.98332 0.00044	2.65 0.97753 0.00043
2.70 0.99068 0.00044	2.70 0.98988 0.00044	2.70 0.98375 0.00044

2.75 0.99683 0.00043	2.75 0.99612 0.00043	2.75 0.98998 0.00045
2.80 1.00382 0.00044	2.80 1.00193 0.00044	2.80 0.99505 0.00044
2.85 1.00990 0.00045	2.85 1.00803 0.00043	2.85 1.00098 0.00043
2.90 1.01516 0.00044	2.90 1.01491 0.00044	2.90 1.00767 0.00042
2.95 1.02168 0.00044	2.95 1.02078 0.00043	2.95 1.01338 0.00043
3.00 1.02737 0.00043	3.00 1.02586 0.00045	3.00 1.01839 0.00043

650	700	750
2.30 0.92965 0.00042	2.30 0.92342 0.00043	2.40 0.92849 0.00044
2.35 0.93569 0.00043	2.35 0.92992 0.00043	2.45 0.93379 0.00044
2.40 0.94202 0.00043	2.40 0.93532 0.00043	2.50 0.94008 0.00043
2.45 0.94749 0.00044	2.45 0.94196 0.00044	2.55 0.94655 0.00044
2.50 0.95430 0.00042	2.50 0.94854 0.00045	2.60 0.95191 0.00043
2.55 0.96063 0.00044	2.55 0.95420 0.00042	2.65 0.95854 0.00044
2.60 0.96651 0.00043	2.65 0.96629 0.00044	2.70 0.96423 0.00045
2.65 0.97276 0.00045	2.70 0.97199 0.00044	2.75 0.96982 0.00044
2.70 0.97891 0.00043	2.75 0.97823 0.00044	2.80 0.97562 0.00044
2.75 0.98457 0.00044	2.80 0.98424 0.00044	2.85 0.98116 0.00044
2.80 0.99072 0.00044	2.85 0.98986 0.00044	2.90 0.98685 0.00045
2.85 0.99676 0.00044	2.90 0.99512 0.00043	2.95 0.99297 0.00044
2.90 1.00293 0.00043	2.95 1.00185 0.00044	3.00 0.99789 0.00043
2.95 1.00817 0.00045	3.00 1.00722 0.00045	3.05 1.00410 0.00043
3.00 1.01398 0.00044	3.05 1.01202 0.00045	3.10 1.00886 0.00044
3.05 1.02044 0.00044	3.10 1.01832 0.00044	3.15 1.01468 0.00044
3.10 1.02500 0.00044		3.20 1.02037 0.00046

760	765	770
2.40 0.92705 0.00042	2.40 0.92649 0.00042	2.40 0.92406 0.00044
2.45 0.93183 0.00043	2.45 0.93144 0.00043	2.45 0.93000 0.00042
2.50 0.93824 0.00044	2.50 0.93720 0.00043	2.50 0.93662 0.00043
2.55 0.94421 0.00043	2.55 0.94335 0.00044	2.55 0.94146 0.00043
2.60 0.95012 0.00044	2.60 0.94983 0.00044	2.60 0.94838 0.00045
2.65 0.95609 0.00044	2.65 0.95475 0.00043	2.65 0.95418 0.00045
2.70 0.96210 0.00045	2.70 0.96025 0.00044	2.70 0.95947 0.00045
2.75 0.96773 0.00043	2.75 0.96708 0.00043	2.75 0.96603 0.00044
2.80 0.97392 0.00045	2.80 0.97215 0.00043	2.80 0.97034 0.00043
2.85 0.97947 0.00045	2.85 0.97801 0.00046	2.85 0.97618 0.00045
2.90 0.98491 0.00043	2.90 0.98334 0.00044	2.90 0.98237 0.00045
2.95 0.99020 0.00044	2.95 0.98967 0.00045	2.95 0.98837 0.00044
3.00 0.99623 0.00043	3.00 0.99464 0.00044	3.00 0.99379 0.00044
3.05 1.00220 0.00045	3.05 1.00014 0.00042	3.05 0.99828 0.00044
3.10 1.00694 0.00046	3.10 1.00560 0.00043	3.10 1.00461 0.00043
3.15 1.01169 0.00043	3.15 1.01173 0.00043	3.15 1.00870 0.00044
3.20 1.01855 0.00043	3.20 1.01647 0.00044	3.20 1.01547 0.00044
		3.25 1.02048 0.00044
		3.30 1.02505 0.00045

775	0
2.40 0.92393 0.00042	
2.45 0.92984 0.00044	
2.50 0.93544 0.00045	
2.55 0.94163 0.00045	
2.60 0.94727 0.00044	
2.65 0.95278 0.00043	
2.70 0.95853 0.00043	
2.75 0.96529 0.00045	
2.80 0.97072 0.00044	
2.85 0.97576 0.00043	
2.90 0.98168 0.00044	
2.95 0.98746 0.00045	
3.00 0.99262 0.00045	
3.05 0.99814 0.00043	
3.10 1.00308 0.00044	
3.15 1.00912 0.00044	
3.20 1.01419 0.00045	
3.25 1.01932 0.00045	
3.30 1.02510 0.00045	

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12	15	20
10.10 0.92349 0.00029	8.50 0.92233 0.00034	7.20 0.91477 0.00038
10.20 0.92735 0.00029	8.60 0.92851 0.00033	7.25 0.91951 0.00037
10.30 0.93097 0.00030	8.70 0.93447 0.00033	7.30 0.92339 0.00037
10.40 0.93437 0.00030	8.80 0.93992 0.00032	7.35 0.92791 0.00038
10.50 0.93889 0.00029	8.90 0.94526 0.00034	7.40 0.93170 0.00038
10.60 0.94270 0.00029	9.00 0.95104 0.00033	7.45 0.93586 0.00036
10.70 0.94657 0.00029	9.10 0.95626 0.00033	7.50 0.94012 0.00037
10.80 0.95023 0.00029	9.20 0.96159 0.00032	7.55 0.94379 0.00037
10.90 0.95375 0.00028	9.30 0.96651 0.00032	7.60 0.94839 0.00038
11.00 0.95684 0.00028	9.40 0.97181 0.00032	7.65 0.95166 0.00037
11.10 0.96048 0.00028	9.50 0.97713 0.00032	7.70 0.95578 0.00038
11.20 0.96414 0.00027	9.60 0.98134 0.00031	7.75 0.95890 0.00037
11.30 0.96679 0.00029	9.70 0.98682 0.00033	7.80 0.96288 0.00037
11.40 0.96999 0.00028	9.80 0.99198 0.00032	7.85 0.96723 0.00036
11.50 0.97358 0.00027	9.90 0.99575 0.00032	7.90 0.97077 0.00037
11.60 0.97642 0.00028	10.00 1.00036 0.00032	7.95 0.97421 0.00037
11.70 0.98026 0.00028	10.10 1.00426 0.00032	8.00 0.97755 0.00038
11.80 0.98254 0.00028	10.20 1.00844 0.00032	8.05 0.98107 0.00036
11.90 0.98588 0.00028	10.30 1.01290 0.00031	8.10 0.98497 0.00037
12.00 0.98833 0.00028	10.40 1.01705 0.00031	8.15 0.98882 0.00038
12.10 0.99164 0.00027		8.20 0.99238 0.00038
12.20 0.99424 0.00027		8.25 0.99576 0.00038
12.30 0.99783 0.00028		8.30 0.99874 0.00037
12.40 0.99977 0.00028		8.35 1.00149 0.00037

12.50 1.00241 0.00027
 12.60 1.00593 0.00027
 12.70 1.00775 0.00027
 12.80 1.01039 0.00027
 12.90 1.01265 0.00027
 13.00 1.01534 0.00027

8.40 1.00524 0.00037
 8.45 1.00840 0.00036
 8.50 1.01117 0.00037
 8.55 1.01475 0.00035
 8.60 1.01752 0.00036

25	30	32
6.60 0.91594 0.00040	6.30 0.92310 0.00042	6.10 0.91246 0.00042
6.65 0.92063 0.00041	6.35 0.92847 0.00043	6.15 0.91863 0.00043
6.70 0.92532 0.00040	6.40 0.93426 0.00042	6.20 0.92414 0.00043
6.75 0.93019 0.00040	6.45 0.94009 0.00042	6.25 0.92981 0.00043
6.80 0.93490 0.00041	6.50 0.94499 0.00042	6.30 0.93580 0.00044
6.85 0.94021 0.00040	6.55 0.94991 0.00043	6.35 0.94122 0.00043
6.90 0.94552 0.00039	6.60 0.95536 0.00041	6.40 0.94669 0.00042
6.95 0.94952 0.00040	6.65 0.96073 0.00042	6.45 0.95161 0.00042
7.00 0.95434 0.00041	6.70 0.96508 0.00043	6.50 0.95702 0.00042
7.05 0.95875 0.00039	6.75 0.97062 0.00042	6.55 0.96356 0.00043
7.10 0.96395 0.00040	6.80 0.97549 0.00041	6.60 0.96807 0.00042
7.15 0.96890 0.00040	6.85 0.98041 0.00041	6.65 0.97331 0.00042
7.20 0.97190 0.00040	6.90 0.98591 0.00040	6.70 0.97868 0.00042
7.25 0.97723 0.00039	6.95 0.99064 0.00040	6.75 0.98343 0.00042
7.30 0.98067 0.00040	7.00 0.99451 0.00042	6.80 0.98886 0.00042
7.35 0.98613 0.00040	7.05 1.00004 0.00043	6.85 0.99385 0.00043
7.40 0.98990 0.00039	7.10 1.00392 0.00042	6.90 0.99873 0.00042
7.45 0.99433 0.00039	7.15 1.00856 0.00042	6.95 1.00400 0.00042
7.50 0.99818 0.00039	7.20 1.01402 0.00042	7.00 1.00798 0.00042
7.55 1.00152 0.00039	7.25 1.01805 0.00042	7.05 1.01292 0.00041
7.60 1.00651 0.00040	7.30 1.02308 0.00042	7.10 1.01785 0.00042
7.65 1.01091 0.00040		
7.70 1.01480 0.00040		
7.75 1.01831 0.00039		
7.80 1.02238 0.00038		

35	40	50
6.00 0.91681 0.00043	5.80 0.91386 0.00045	5.60 0.91605 0.00046
6.05 0.92330 0.00044	5.85 0.91980 0.00044	5.65 0.92336 0.00046
6.10 0.92823 0.00043	5.90 0.92564 0.00044	5.70 0.92986 0.00046
6.15 0.93465 0.00042	5.95 0.93283 0.00045	5.75 0.93579 0.00046
6.20 0.94018 0.00043	6.00 0.93898 0.00045	5.80 0.94373 0.00045
6.25 0.94630 0.00042	6.05 0.94500 0.00045	5.85 0.94982 0.00046
6.30 0.95249 0.00043	6.10 0.95041 0.00044	5.90 0.95564 0.00046
6.35 0.95754 0.00044	6.15 0.95681 0.00046	5.95 0.96193 0.00046
6.40 0.96310 0.00043	6.20 0.96236 0.00042	6.00 0.96832 0.00045
6.45 0.96833 0.00043	6.25 0.96830 0.00043	6.05 0.97495 0.00045
6.50 0.97369 0.00042	6.30 0.97407 0.00044	6.10 0.98018 0.00045
6.55 0.97959 0.00044	6.35 0.98011 0.00045	6.15 0.98660 0.00047

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6.60 0.98491 0.00044	6.40 0.98550 0.00044	6.20 0.99217 0.00044
6.65 0.98945 0.00043	6.45 0.99106 0.00045	6.25 0.99803 0.00047
6.70 0.99508 0.00044	6.50 0.99658 0.00044	6.30 1.00490 0.00046
6.75 0.99957 0.00043	6.55 1.00180 0.00044	6.35 1.01001 0.00045
6.80 1.00521 0.00044	6.60 1.00732 0.00044	6.40 1.01509 0.00047
6.85 1.00963 0.00042	6.65 1.01286 0.00044	6.45 1.02137 0.00047
6.90 1.01540 0.00043	6.70 1.01737 0.00044	6.50 1.02746 0.00046
6.95 1.01926 0.00044	6.75 1.02303 0.00044	
7.00 1.02418 0.00041	6.80 1.02858 0.00043	

60	70	80
5.50 0.92173 0.00046	5.40 0.91896 0.00047	5.30 0.91280 0.00048
5.55 0.92881 0.00047	5.45 0.92590 0.00047	5.35 0.92020 0.00047
5.60 0.93560 0.00047	5.50 0.93281 0.00047	5.40 0.92617 0.00047
5.65 0.94130 0.00045	5.55 0.94026 0.00047	5.45 0.93462 0.00047
5.70 0.94933 0.00046	5.60 0.94786 0.00048	5.50 0.94128 0.00048
5.75 0.95603 0.00048	5.65 0.95446 0.00048	5.55 0.94819 0.00049
5.80 0.96269 0.00047	5.70 0.96037 0.00047	5.60 0.95555 0.00048
5.85 0.96846 0.00047	5.75 0.96720 0.00047	5.65 0.96191 0.00049
5.90 0.97573 0.00047	5.80 0.97317 0.00047	5.70 0.96866 0.00047
5.95 0.98156 0.00046	5.85 0.98071 0.00049	5.75 0.97594 0.00047
6.00 0.98783 0.00046	5.90 0.98673 0.00048	5.80 0.98198 0.00046
6.05 0.99368 0.00047	5.95 0.99368 0.00047	5.85 0.98867 0.00047
6.10 0.99990 0.00045	6.00 0.99903 0.00048	5.90 0.99463 0.00047
6.15 1.00728 0.00047	6.05 1.00573 0.00047	5.95 1.00250 0.00047
6.20 1.01162 0.00047	6.10 1.01213 0.00049	6.00 1.00736 0.00047
6.25 1.01780 0.00046	6.15 1.01714 0.00048	6.05 1.01384 0.00047
6.30 1.02300 0.00047	6.20 1.02364 0.00046	6.10 1.02056 0.00047

90	100	120
5.30 0.91849 0.00047	5.20 0.90750 0.00049	5.20 0.91035 0.00048
5.35 0.92572 0.00048	5.25 0.91428 0.00048	5.25 0.91709 0.00049
5.40 0.93257 0.00047	5.30 0.92176 0.00047	5.30 0.92555 0.00049
5.45 0.93951 0.00049	5.35 0.92967 0.00048	5.35 0.93262 0.00048
5.50 0.94730 0.00047	5.40 0.93641 0.00049	5.40 0.93928 0.00049
5.55 0.95437 0.00047	5.45 0.94384 0.00049	5.45 0.94675 0.00048
5.60 0.96002 0.00049	5.50 0.95035 0.00048	5.50 0.95381 0.00048
5.65 0.96725 0.00050	5.55 0.95808 0.00049	5.55 0.95973 0.00048
5.70 0.97447 0.00047	5.60 0.96386 0.00049	5.60 0.96753 0.00049
5.75 0.98152 0.00049	5.65 0.97130 0.00049	5.65 0.97395 0.00047
5.80 0.98818 0.00048	5.70 0.97788 0.00048	5.70 0.98124 0.00049
5.85 0.99481 0.00049	5.90 1.00489 0.00048	5.75 0.98770 0.00049
5.90 1.00038 0.00048	5.95 1.01016 0.00049	5.80 0.99362 0.00048
5.95 1.00677 0.00049	6.00 1.01654 0.00048	5.85 1.00074 0.00049
6.00 1.01317 0.00047	6.05 1.02261 0.00047	5.90 1.00707 0.00049
6.05 1.01971 0.00048	6.10 1.02808 0.00048	5.95 1.01376 0.00050
6.10 1.02489 0.00049		6.00 1.01985 0.00050

130	150	200
5.20 0.91272 0.00049	5.20 0.91303 0.00048	5.20 0.90936 0.00049
5.25 0.92038 0.00049	5.25 0.91910 0.00049	5.25 0.91671 0.00049
5.30 0.92756 0.00050	5.30 0.92655 0.00049	5.30 0.92425 0.00047
5.35 0.93434 0.00050	5.35 0.93476 0.00047	5.35 0.93056 0.00050
5.40 0.94112 0.00048	5.40 0.94102 0.00048	5.40 0.93806 0.00048
5.45 0.94793 0.00048	5.45 0.94789 0.00049	5.45 0.94496 0.00049
5.50 0.95578 0.00050	5.50 0.95546 0.00049	5.50 0.95213 0.00048
5.55 0.96248 0.00048	5.55 0.96181 0.00048	5.55 0.95825 0.00049
5.60 0.96935 0.00049	5.60 0.96857 0.00050	5.60 0.96525 0.00048
5.65 0.97670 0.00048	5.65 0.97532 0.00049	5.65 0.97219 0.00048
5.70 0.98260 0.00049	5.70 0.98157 0.00047	5.70 0.97792 0.00049
5.75 0.98861 0.00048	5.75 0.98836 0.00048	5.75 0.98440 0.00050
5.80 0.99587 0.00049	5.80 0.99430 0.00049	5.80 0.98993 0.00048
5.85 1.00193 0.00049	5.85 1.00147 0.00048	5.85 0.99622 0.00049
5.90 1.00857 0.00048	5.90 1.00768 0.00048	5.90 1.00382 0.00048
5.95 1.01479 0.00048	5.95 1.01340 0.00048	5.95 1.00907 0.00050
6.00 1.02094 0.00048	6.00 1.02000 0.00050	6.00 1.01638 0.00049
		6.05 1.02121 0.00049
		6.10 1.02736 0.00048

239	250	359
5.30 0.91975 0.00050	5.30 0.91819 0.00048	5.40 0.91804 0.00049
5.35 0.92633 0.00048	5.35 0.92475 0.00049	5.45 0.92523 0.00048
5.40 0.93456 0.00048	5.40 0.93186 0.00049	5.50 0.93176 0.00049
5.45 0.94036 0.00049	5.45 0.93819 0.00049	5.55 0.93863 0.00050
5.50 0.94690 0.00050	5.50 0.94483 0.00050	5.60 0.94451 0.00049
5.55 0.95324 0.00048	5.55 0.95174 0.00049	5.65 0.95089 0.00047
5.60 0.96027 0.00049	5.60 0.95845 0.00048	5.70 0.95680 0.00047
5.65 0.96659 0.00049	5.65 0.96516 0.00049	5.75 0.96379 0.00048
5.70 0.97327 0.00050	5.70 0.97069 0.00050	5.80 0.96955 0.00049
5.75 0.97947 0.00049	5.75 0.97791 0.00049	5.85 0.97600 0.00050
5.80 0.98609 0.00049	5.80 0.98468 0.00049	5.90 0.98159 0.00049
5.85 0.99190 0.00049	5.85 0.99023 0.00049	5.95 0.98895 0.00048
5.90 0.99882 0.00047	5.90 0.99691 0.00049	6.00 0.99442 0.00048
5.95 1.00430 0.00049	5.95 1.00286 0.00049	6.05 0.99987 0.00049
6.00 1.00981 0.00049	6.00 1.00860 0.00048	6.10 1.00532 0.00048
6.05 1.01762 0.00050	6.05 1.01458 0.00048	6.15 1.01076 0.00049
6.10 1.02204 0.00050	6.10 1.01982 0.00050	6.20 1.01726 0.00049
		6.25 1.02198 0.00048
		6.30 1.02761 0.00048

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478	500	600
5.50 0.91508 0.00048	5.50 0.91107 0.00048	5.70 0.91349 0.00047
5.55 0.92208 0.00048	5.55 0.91777 0.00048	5.75 0.92023 0.00048
5.60 0.92848 0.00050	5.60 0.92386 0.00050	5.80 0.92643 0.00049
5.65 0.93412 0.00050	5.65 0.93108 0.00048	5.85 0.93275 0.00048
5.70 0.94055 0.00048	5.70 0.93686 0.00049	5.90 0.93805 0.00048
5.75 0.94667 0.00047	5.75 0.94398 0.00050	5.95 0.94353 0.00048
5.80 0.95280 0.00049	5.80 0.94972 0.00048	6.00 0.94990 0.00048
5.85 0.95945 0.00048	5.85 0.95593 0.00048	6.05 0.95645 0.00049
5.90 0.96483 0.00049	5.90 0.96117 0.00047	6.10 0.96196 0.00049
5.95 0.97059 0.00049	5.95 0.96788 0.00049	6.15 0.96631 0.00047
6.00 0.97648 0.00049	6.00 0.97388 0.00049	6.20 0.97313 0.00048
6.05 0.98355 0.00049	6.05 0.97902 0.00048	6.25 0.97911 0.00049
6.10 0.98912 0.00047	6.10 0.98477 0.00048	6.30 0.98469 0.00047
6.30 1.01137 0.00048	6.15 0.99059 0.00049	6.35 0.99082 0.00049
6.35 1.01561 0.00049	6.20 0.99737 0.00050	6.40 0.99495 0.00047
6.40 1.02121 0.00049	6.25 1.00165 0.00049	6.45 1.00120 0.00047
	6.30 1.00835 0.00049	6.50 1.00573 0.00048
	6.35 1.01327 0.00048	6.55 1.01121 0.00049
	6.40 1.01759 0.00048	6.60 1.01663 0.00046
		6.65 1.02124 0.00047
		6.70 1.02654 0.00048

650			700			750		
5.90	0.92086	0.00049	6.10	0.91528	0.00046	6.70	0.91332	0.00047
5.95	0.92701	0.00047	6.15	0.92160	0.00048	6.75	0.91831	0.00046
6.00	0.93214	0.00047	6.20	0.92670	0.00046	6.80	0.92420	0.00047
6.05	0.93833	0.00048	6.25	0.93297	0.00048	6.85	0.92925	0.00046
6.10	0.94413	0.00049	6.30	0.93871	0.00048	6.90	0.93332	0.00048
6.15	0.95005	0.00047	6.35	0.94411	0.00048	6.95	0.93889	0.00047
6.20	0.95547	0.00048	6.40	0.94871	0.00046	7.00	0.94395	0.00047
6.25	0.96151	0.00048	6.45	0.95536	0.00048	7.05	0.94898	0.00047
6.30	0.96676	0.00048	6.50	0.96055	0.00048	7.10	0.95467	0.00048
6.35	0.97286	0.00049	6.55	0.96536	0.00049	7.15	0.96011	0.00046
6.40	0.97872	0.00048	6.60	0.97115	0.00047	7.20	0.96529	0.00046
6.45	0.98327	0.00048	6.65	0.97687	0.00048	7.25	0.96926	0.00047
6.50	0.98918	0.00048	6.70	0.98141	0.00048	7.30	0.97386	0.00048
6.70	1.01084	0.00049	6.75	0.98719	0.00048	7.35	0.97941	0.00047
6.75	1.01599	0.00048	6.80	0.99268	0.00048	7.40	0.98358	0.00048
6.80	1.01911	0.00049	6.85	0.99679	0.00047	7.45	0.98827	0.00049
			6.90	1.00300	0.00048	7.50	0.99285	0.00048
			6.95	1.00789	0.00048	7.55	0.99800	0.00047
			7.00	1.01200	0.00048	7.60	1.00208	0.00048
			7.05	1.01701	0.00048	7.65	1.00777	0.00046
			7.10	1.02307	0.00047	7.70	1.01144	0.00046
						7.75	1.01538	0.00048
						7.80	1.02016	0.00048

752	754	755
6.80 0.91433 0.00047	6.90 0.91339 0.00045	7.10 0.92354 0.00046
6.85 0.92013 0.00047	6.95 0.91800 0.00046	7.15 0.92795 0.00047
6.90 0.92496 0.00048	7.00 0.92308 0.00047	7.20 0.93296 0.00048
6.95 0.93060 0.00046	7.05 0.92903 0.00048	7.25 0.93829 0.00047
7.00 0.93519 0.00048	7.10 0.93472 0.00048	7.30 0.94327 0.00047
7.05 0.94133 0.00047	7.15 0.93904 0.00047	7.35 0.94799 0.00046
7.10 0.94546 0.00047	7.20 0.94439 0.00048	7.40 0.95322 0.00047
7.15 0.95014 0.00047	7.25 0.94938 0.00048	7.45 0.95677 0.00046
7.20 0.95594 0.00048	7.30 0.95373 0.00046	7.50 0.96339 0.00047
7.25 0.96025 0.00046	7.35 0.95814 0.00047	7.55 0.96658 0.00048
7.30 0.96583 0.00046	7.40 0.96366 0.00047	7.60 0.97190 0.00048
7.35 0.97021 0.00048	7.45 0.96862 0.00048	7.65 0.97719 0.00048
7.40 0.97588 0.00047	7.50 0.97240 0.00046	7.70 0.98071 0.00047
7.45 0.98107 0.00048	7.55 0.97794 0.00047	7.75 0.98625 0.00048
7.50 0.98509 0.00047	7.60 0.98185 0.00048	7.80 0.99047 0.00047
7.55 0.98941 0.00047	7.65 0.98656 0.00046	7.85 0.99465 0.00047
7.60 0.99502 0.00048	7.70 0.99071 0.00047	7.90 0.99894 0.00048
7.65 0.99945 0.00048	7.75 0.99543 0.00047	7.95 1.00359 0.00047
7.70 1.00342 0.00048	7.80 1.00082 0.00048	8.00 1.00778 0.00047
7.75 1.00717 0.00047	7.85 1.00526 0.00047	8.05 1.01308 0.00047
7.80 1.01177 0.00048	7.90 1.00923 0.00048	8.10 1.01680 0.00047
7.85 1.01642 0.00047	7.95 1.01411 0.00047	8.15 1.02111 0.00047
7.90 1.02141 0.00048	8.00 1.01764 0.00048	8.20 1.02480 0.00047

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12	15	20
8.60 0.92437 0.00028	7.00 0.92385 0.00032	5.70 0.91765 0.00037
8.70 0.92843 0.00029	7.10 0.92954 0.00031	5.75 0.92207 0.00037
8.80 0.93164 0.00028	7.20 0.93497 0.00033	5.80 0.92653 0.00035
8.90 0.93580 0.00028	7.30 0.94108 0.00033	5.85 0.92998 0.00036
9.00 0.93934 0.00028	7.40 0.94741 0.00032	5.90 0.93420 0.00036
9.10 0.94384 0.00029	7.50 0.95242 0.00031	5.95 0.93823 0.00036
9.20 0.94760 0.00028	7.60 0.95774 0.00031	6.00 0.94164 0.00036
9.30 0.95061 0.00027	7.70 0.96243 0.00033	6.05 0.94621 0.00037
9.40 0.95427 0.00028	7.80 0.96767 0.00033	6.10 0.95045 0.00036
9.50 0.95745 0.00027	7.90 0.97268 0.00031	6.15 0.95422 0.00036
9.60 0.96100 0.00028	8.00 0.97749 0.00032	6.20 0.95815 0.00035
9.70 0.96416 0.00027	8.10 0.98296 0.00030	6.25 0.96214 0.00035
9.80 0.96762 0.00028	8.20 0.98847 0.00031	6.30 0.96523 0.00036
9.90 0.97104 0.00028	8.30 0.99263 0.00031	6.35 0.96893 0.00035
10.00 0.97385 0.00027	8.40 0.99684 0.00030	6.40 0.97297 0.00035
10.10 0.97704 0.00027	8.50 1.00146 0.00031	6.45 0.97686 0.00036
10.20 0.98039 0.00027	8.60 1.00562 0.00030	6.50 0.98002 0.00036
10.30 0.98369 0.00027	8.70 1.01026 0.00030	6.55 0.98350 0.00035
10.40 0.98603 0.00028	8.80 1.01424 0.00031	6.60 0.98719 0.00036
10.50 0.98946 0.00027		6.65 0.99045 0.00036
10.60 0.99173 0.00027		6.70 0.99432 0.00035
10.70 0.99491 0.00027		6.75 0.99705 0.00036
10.80 0.99757 0.00027		6.80 1.00066 0.00034
10.90 1.00105 0.00027		6.85 1.00436 0.00035
11.00 1.00319 0.00027		6.90 1.00753 0.00035
11.10 1.00590 0.00027		6.95 1.01086 0.00035
11.20 1.00819 0.00027		7.00 1.01404 0.00036
11.30 1.01058 0.00026		7.05 1.01768 0.00035
11.40 1.01272 0.00026		7.10 1.01991 0.00034
11.50 1.01606 0.00026		
25	30	32
5.10 0.91826 0.00039	4.70 0.91541 0.00039	4.60 0.91710 0.00041
5.15 0.92361 0.00038	4.75 0.92124 0.00039	4.65 0.92348 0.00041
5.20 0.92914 0.00038	4.80 0.92673 0.00041	4.70 0.92821 0.00041
5.25 0.93326 0.00038	4.85 0.93238 0.00041	4.75 0.93437 0.00041
5.30 0.93784 0.00038	4.90 0.93745 0.00040	4.80 0.93922 0.00040
5.35 0.94334 0.00038	4.95 0.94292 0.00040	4.85 0.94585 0.00040
5.40 0.94821 0.00037	5.00 0.94860 0.00040	4.90 0.95045 0.00041
5.45 0.95344 0.00038	5.05 0.95372 0.00040	4.95 0.95652 0.00040
5.50 0.95807 0.00038	5.10 0.95938 0.00040	5.00 0.96172 0.00041
5.55 0.96242 0.00038	5.15 0.96428 0.00041	5.05 0.96803 0.00041
5.60 0.96670 0.00039	5.20 0.96951 0.00041	5.10 0.97216 0.00042
5.65 0.97183 0.00039	5.25 0.97347 0.00040	5.15 0.97754 0.00040
5.70 0.97556 0.00038	5.30 0.98018 0.00040	5.20 0.98243 0.00041
5.75 0.98039 0.00038	5.35 0.98456 0.00039	5.25 0.98761 0.00041

5.80 0.98502 0.00039	5.40 0.98870 0.00042	5.30 0.99228 0.00041
5.85 0.98890 0.00038	5.45 0.99473 0.00040	5.35 0.99730 0.00041
5.90 0.99303 0.00038	5.50 0.99916 0.00041	5.40 1.00308 0.00040
5.95 0.99733 0.00039	5.55 1.00325 0.00040	5.45 1.00655 0.00040
6.00 1.00137 0.00039	5.60 1.00842 0.00039	5.50 1.01225 0.00040
6.05 1.00473 0.00038	5.65 1.01266 0.00040	5.55 1.01731 0.00040
6.10 1.00935 0.00039	5.70 1.01671 0.00040	5.60 1.02125 0.00040
6.15 1.01336 0.00039		
6.20 1.01732 0.00037		

35	40	50
4.50 0.92163 0.00042	4.30 0.91970 0.00041	4.10 0.92333 0.00044
4.55 0.92710 0.00042	4.35 0.92583 0.00043	4.15 0.93036 0.00045
4.60 0.93345 0.00042	4.40 0.93181 0.00043	4.20 0.93691 0.00044
4.65 0.93886 0.00042	4.45 0.93818 0.00043	4.25 0.94315 0.00044
4.70 0.94471 0.00043	4.50 0.94501 0.00043	4.30 0.95048 0.00044
4.75 0.95128 0.00041	4.55 0.95035 0.00043	4.35 0.95561 0.00045
4.80 0.95743 0.00042	4.60 0.95662 0.00043	4.40 0.96322 0.00045
4.85 0.96244 0.00042	4.65 0.96230 0.00042	4.45 0.96934 0.00043
4.90 0.96799 0.00042	4.70 0.96796 0.00043	4.50 0.97569 0.00044
4.95 0.97280 0.00041	4.75 0.97347 0.00043	4.55 0.98116 0.00044
5.00 0.97850 0.00041	4.80 0.98006 0.00043	4.60 0.98732 0.00044
5.05 0.98389 0.00041	4.85 0.98538 0.00042	4.65 0.99360 0.00043
5.10 0.98907 0.00041	4.90 0.99142 0.00043	4.70 0.99928 0.00045
5.15 0.99508 0.00040	4.95 0.99659 0.00042	4.75 1.00578 0.00045
5.20 0.99948 0.00042	5.00 1.00160 0.00044	4.80 1.01105 0.00043
5.25 1.00490 0.00041	5.05 1.00774 0.00043	4.85 1.01654 0.00046
5.30 1.01040 0.00041	5.10 1.01308 0.00042	4.90 1.02202 0.00043
5.35 1.01532 0.00042	5.15 1.01822 0.00043	
5.40 1.02006 0.00041	5.20 1.02294 0.00043	

60	70	80
3.90 0.91539 0.00046	3.80 0.91329 0.00045	3.80 0.92296 0.00046
3.95 0.92233 0.00045	3.85 0.92177 0.00046	3.85 0.92966 0.00047
4.00 0.92976 0.00045	3.90 0.92777 0.00046	3.90 0.93809 0.00046
4.05 0.93603 0.00045	3.95 0.93551 0.00046	3.95 0.94456 0.00045
4.10 0.94308 0.00045	4.00 0.94176 0.00045	4.00 0.95191 0.00046
4.15 0.95080 0.00044	4.05 0.94895 0.00046	4.05 0.95875 0.00045
4.20 0.95707 0.00045	4.10 0.95634 0.00045	4.10 0.96513 0.00047
4.25 0.96380 0.00046	4.15 0.96301 0.00045	4.15 0.97160 0.00046
4.30 0.97036 0.00044	4.20 0.96930 0.00046	4.20 0.97932 0.00047
4.35 0.97692 0.00045	4.25 0.97572 0.00046	4.25 0.98557 0.00047
4.40 0.98302 0.00046	4.30 0.98300 0.00045	4.30 0.99271 0.00046
4.45 0.98970 0.00044	4.35 0.98838 0.00046	4.35 0.99858 0.00047
4.50 0.99671 0.00046	4.40 0.99519 0.00045	4.40 1.00448 0.00047
4.55 1.00173 0.00044	4.45 1.00222 0.00044	4.45 1.01146 0.00046
4.60 1.00749 0.00045	4.50 1.00754 0.00048	4.50 1.01629 0.00047

4.65 1.01330 0.00045	4.55 1.01450 0.00046
4.70 1.01966 0.00044	4.60 1.02089 0.00045

90	100	120
3.70 0.91462 0.00047	3.70 0.91944 0.00047	3.70 0.92403 0.00045
3.75 0.92334 0.00047	3.75 0.92693 0.00046	3.75 0.93158 0.00046
3.80 0.92990 0.00047	3.95 0.95477 0.00048	3.80 0.93779 0.00047
3.85 0.93722 0.00047	4.00 0.96289 0.00045	3.85 0.94547 0.00045
3.90 0.94478 0.00045	4.05 0.96966 0.00047	3.90 0.95228 0.00046
3.95 0.95150 0.00046	4.10 0.97494 0.00047	3.95 0.95940 0.00047
4.00 0.95735 0.00047	4.15 0.98209 0.00047	4.00 0.96668 0.00047
4.05 0.96487 0.00046	4.20 0.98982 0.00047	4.05 0.97306 0.00046
4.10 0.97134 0.00048	4.25 0.99621 0.00046	4.10 0.97968 0.00047
4.15 0.97843 0.00046	4.30 1.00223 0.00047	4.15 0.98643 0.00047
4.20 0.98538 0.00047	4.35 1.00853 0.00047	4.20 0.99275 0.00047
4.25 0.99210 0.00047	4.40 1.01516 0.00047	4.25 0.99988 0.00047
4.30 0.99810 0.00047	4.45 1.02126 0.00047	4.30 1.00552 0.00045
4.35 1.00403 0.00046	4.50 1.02729 0.00048	4.35 1.01285 0.00048
4.40 1.01073 0.00047		4.40 1.01764 0.00047
4.45 1.01754 0.00047		
4.50 1.02291 0.00046		

130	150	200
3.60 0.91101 0.00046	3.60 0.91214 0.00047	3.60 0.90990 0.00048
3.65 0.91848 0.00048	3.65 0.91895 0.00047	3.65 0.91713 0.00047
3.70 0.92587 0.00047	3.70 0.92638 0.00048	3.70 0.92485 0.00047
3.75 0.93313 0.00046	3.75 0.93407 0.00046	3.75 0.93223 0.00048
3.80 0.94031 0.00046	3.80 0.94077 0.00047	3.80 0.93866 0.00047
3.85 0.94811 0.00047	3.85 0.94867 0.00047	3.85 0.94557 0.00049
3.90 0.95462 0.00046	3.90 0.95552 0.00048	3.90 0.95346 0.00048
3.95 0.96142 0.00046	3.95 0.96167 0.00046	3.95 0.95924 0.00048
4.00 0.96825 0.00047	4.00 0.96902 0.00048	4.00 0.96567 0.00048
4.05 0.97589 0.00047	4.05 0.97506 0.00049	4.05 0.97285 0.00047
4.10 0.98153 0.00045	4.10 0.98198 0.00047	4.10 0.97879 0.00046
4.15 0.98832 0.00047	4.15 0.98853 0.00047	4.15 0.98589 0.00047
4.20 0.99437 0.00048	4.20 0.99518 0.00046	4.20 0.99156 0.00049
4.25 1.00132 0.00049	4.25 1.00167 0.00047	4.25 0.99735 0.00047
4.30 1.00719 0.00048	4.30 1.00745 0.00047	4.30 1.00477 0.00048
4.35 1.01455 0.00048	4.35 1.01430 0.00047	4.35 1.01078 0.00047
4.40 1.02059 0.00049	4.40 1.01986 0.00047	4.40 1.01606 0.00047

239	250	359
3.70 0.92069 0.00048	3.70 0.91933 0.00047	3.80 0.92143 0.00049
3.75 0.92847 0.00047	3.75 0.92643 0.00048	3.85 0.92816 0.00048
3.80 0.93582 0.00048	3.80 0.93342 0.00047	3.90 0.93468 0.00047

3.85 0.94112 0.00048	3.85 0.94037 0.00046	3.95 0.94180 0.00048
3.90 0.94828 0.00047	3.90 0.94730 0.00048	4.00 0.94765 0.00047
3.95 0.95518 0.00047	3.95 0.95344 0.00049	4.05 0.95341 0.00048
4.00 0.96210 0.00047	4.00 0.96099 0.00048	4.25 0.97868 0.00049
4.05 0.96826 0.00047	4.05 0.96745 0.00048	4.30 0.98470 0.00046
4.10 0.97456 0.00047	4.10 0.97363 0.00047	4.35 0.99060 0.00048
4.15 0.98106 0.00047	4.15 0.97902 0.00048	4.40 0.99574 0.00048
4.20 0.98765 0.00048	4.20 0.98733 0.00048	4.45 1.00304 0.00048
4.25 0.99329 0.00048	4.25 0.99283 0.00048	4.50 1.00818 0.00047
4.30 1.00017 0.00047	4.30 0.99823 0.00048	4.55 1.01269 0.00047
4.35 1.00573 0.00047	4.35 1.00452 0.00048	4.60 1.01919 0.00047
4.40 1.01201 0.00047	4.40 1.01049 0.00048	
4.45 1.01768 0.00048	4.45 1.01579 0.00048	
4.50 1.02377 0.00047	4.50 1.02158 0.00048	

478	500	600
3.90 0.91846 0.00048	3.90 0.91700 0.00048	4.10 0.92151 0.00049
3.95 0.92539 0.00047	3.95 0.92194 0.00047	4.30 0.94518 0.00048
4.00 0.93222 0.00047	4.00 0.92861 0.00048	4.35 0.95094 0.00048
4.05 0.93826 0.00048	4.05 0.93529 0.00048	4.40 0.95731 0.00048
4.10 0.94424 0.00048	4.10 0.94223 0.00048	4.45 0.96282 0.00046
4.15 0.95034 0.00048	4.15 0.94744 0.00047	4.50 0.96825 0.00048
4.20 0.95633 0.00047	4.20 0.95366 0.00048	4.55 0.97477 0.00047
4.25 0.96247 0.00048	4.25 0.95927 0.00047	4.60 0.97992 0.00048
4.30 0.96896 0.00049	4.30 0.96601 0.00048	4.65 0.98483 0.00048
4.35 0.97358 0.00048	4.35 0.97122 0.00047	4.70 0.99122 0.00048
4.40 0.98002 0.00048	4.40 0.97702 0.00047	4.75 0.99570 0.00048
4.45 0.98571 0.00048	4.45 0.98181 0.00048	4.80 1.00246 0.00048
4.50 0.99246 0.00046	4.50 0.98820 0.00048	4.85 1.00608 0.00047
4.55 0.99612 0.00048	4.55 0.99351 0.00048	4.90 1.01172 0.00047
4.60 1.00341 0.00048	4.60 0.99937 0.00047	4.95 1.01726 0.00048
4.65 1.00778 0.00048	4.65 1.00518 0.00048	5.00 1.02102 0.00048
4.70 1.01299 0.00048	4.70 1.01061 0.00049	
4.75 1.01903 0.00048	4.75 1.01614 0.00046	
4.80 1.02414 0.00047	4.80 1.02127 0.00047	

650	700	750
4.20 0.91939 0.00048	4.40 0.92123 0.00047	4.90 0.92305 0.00047
4.25 0.92611 0.00047	4.45 0.92724 0.00048	4.95 0.92776 0.00048
4.30 0.93221 0.00046	4.50 0.93194 0.00045	5.00 0.93335 0.00048
4.35 0.93704 0.00047	4.55 0.93864 0.00047	5.05 0.93893 0.00047
4.40 0.94354 0.00047	4.60 0.94358 0.00047	5.10 0.94306 0.00046
4.45 0.94888 0.00047	4.65 0.94885 0.00047	5.15 0.94884 0.00047
4.50 0.95443 0.00048	4.70 0.95454 0.00048	5.20 0.95369 0.00046
4.55 0.95978 0.00048	4.75 0.95963 0.00048	5.25 0.95805 0.00048
4.60 0.96553 0.00048	4.80 0.96464 0.00047	5.30 0.96270 0.00048
4.65 0.97061 0.00046	4.85 0.96987 0.00048	5.35 0.96792 0.00047

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4.70 0.97689 0.00046	4.90 0.97522 0.00047	5.40 0.97299 0.00048
4.75 0.98206 0.00047	4.95 0.98043 0.00048	5.45 0.97802 0.00046
4.80 0.98632 0.00047	5.00 0.98552 0.00046	5.50 0.98254 0.00047
4.85 0.99251 0.00046	5.05 0.99105 0.00046	5.55 0.98746 0.00048
4.90 0.99810 0.00046	5.10 0.99528 0.00046	5.60 0.99097 0.00047
4.95 1.00278 0.00048	5.15 1.00069 0.00049	5.65 0.99632 0.00047
5.00 1.00835 0.00048	5.20 1.00536 0.00047	5.70 1.00058 0.00045
5.05 1.01277 0.00047	5.25 1.01117 0.00048	5.75 1.00580 0.00047
5.10 1.01810 0.00048	5.30 1.01595 0.00049	5.80 1.01042 0.00048
	5.35 1.02059 0.00048	5.85 1.01483 0.00048
	5.40 1.02526 0.00046	5.90 1.01831 0.00048

752	754	755
4.90 0.91658 0.00047	5.00 0.91870 0.00047	5.10 0.91999 0.00046
4.95 0.92221 0.00047	5.05 0.92346 0.00047	5.15 0.92491 0.00048
5.00 0.92672 0.00048	5.10 0.92820 0.00046	5.20 0.92982 0.00046
5.05 0.93190 0.00048	5.15 0.93340 0.00047	5.25 0.93530 0.00049
5.10 0.93677 0.00047	5.20 0.93775 0.00047	5.30 0.94053 0.00047
5.15 0.94223 0.00046	5.25 0.94274 0.00048	5.35 0.94448 0.00047
5.20 0.94671 0.00047	5.30 0.94823 0.00047	5.40 0.95004 0.00047
5.25 0.95168 0.00046	5.35 0.95215 0.00047	5.45 0.95361 0.00048
5.30 0.95708 0.00047	5.40 0.95756 0.00045	5.50 0.95855 0.00048
5.35 0.96190 0.00047	5.45 0.96211 0.00049	5.55 0.96340 0.00047
5.40 0.96628 0.00048	5.50 0.96832 0.00046	5.60 0.96886 0.00048
5.45 0.97129 0.00048	5.55 0.97133 0.00046	5.65 0.97225 0.00047
5.50 0.97580 0.00047	5.60 0.97594 0.00047	5.70 0.97767 0.00046
5.55 0.98108 0.00047	5.65 0.98106 0.00048	5.75 0.98193 0.00047
5.60 0.98456 0.00047	5.70 0.98454 0.00048	5.80 0.98675 0.00047
5.65 0.99016 0.00047	5.75 0.99009 0.00047	5.85 0.99023 0.00048
5.70 0.99537 0.00047	5.80 0.99460 0.00047	5.90 0.99599 0.00047
5.75 0.99865 0.00046	5.85 0.99873 0.00047	5.95 0.99963 0.00047
5.80 1.00357 0.00047	5.90 1.00359 0.00047	6.00 1.00336 0.00047
5.85 1.00796 0.00046	5.95 1.00797 0.00046	6.05 1.00829 0.00046
5.90 1.01275 0.00047	6.00 1.01214 0.00046	6.10 1.01315 0.00046
5.95 1.01707 0.00046	6.05 1.01674 0.00048	6.15 1.01705 0.00047
6.00 1.02098 0.00047	6.10 1.02084 0.00046	6.20 1.02046 0.00048

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12	15	20
7.50 0.92432 0.00027	5.90 0.92500 0.00031	4.60 0.92051 0.00034
7.60 0.92813 0.00027	6.00 0.93076 0.00030	4.65 0.92501 0.00034
7.70 0.93224 0.00026	6.10 0.93644 0.00031	4.70 0.92915 0.00032
7.80 0.93656 0.00026	6.20 0.94275 0.00030	4.75 0.93268 0.00033
7.90 0.93983 0.00027	6.30 0.94828 0.00030	4.80 0.93715 0.00033
8.00 0.94379 0.00026	6.40 0.95412 0.00030	4.85 0.94135 0.00033
8.10 0.94782 0.00026	6.50 0.95915 0.00030	4.90 0.94558 0.00034
8.20 0.95121 0.00026	6.60 0.96418 0.00029	4.95 0.94991 0.00034

8.30 0.95505 0.00026	6.70 0.96922 0.00028	5.00 0.95338 0.00033
8.40 0.95804 0.00026	6.80 0.97407 0.00030	5.05 0.95775 0.00034
8.50 0.96141 0.00026	6.90 0.97943 0.00030	5.10 0.96149 0.00033
8.60 0.96526 0.00026	7.00 0.98420 0.00029	5.15 0.96576 0.00033
8.70 0.96798 0.00026	7.10 0.98933 0.00029	5.20 0.96871 0.00033
8.80 0.97176 0.00027	7.20 0.99414 0.00029	5.25 0.97237 0.00033
8.90 0.97504 0.00026	7.30 0.99858 0.00029	5.30 0.97666 0.00033
9.00 0.97788 0.00025	7.40 1.00276 0.00030	5.35 0.98052 0.00032
9.10 0.98113 0.00026	7.50 1.00748 0.00029	5.40 0.98320 0.00033
9.20 0.98443 0.00026	7.60 1.01142 0.00030	5.45 0.98761 0.00033
9.30 0.98750 0.00026	7.70 1.01613 0.00029	5.50 0.99051 0.00033
9.40 0.98967 0.00026		5.55 0.99454 0.00032
9.50 0.99249 0.00026		5.60 0.99752 0.00032
9.60 0.99539 0.00025		5.65 1.00136 0.00033
9.70 0.99816 0.00026		5.70 1.00475 0.00032
9.80 1.00118 0.00025		5.75 1.00806 0.00034
9.90 1.00392 0.00025		5.80 1.01061 0.00032
10.00 1.00675 0.00025		5.85 1.01453 0.00032
10.10 1.00887 0.00025		5.90 1.01795 0.00032
10.20 1.01154 0.00025		
10.30 1.01427 0.00024		

25	30	32
4.00 0.92523 0.00035	3.60 0.92520 0.00037	3.40 0.91558 0.00037
4.05 0.92942 0.00036	3.65 0.92992 0.00037	3.45 0.92136 0.00036
4.10 0.93478 0.00035	3.70 0.93587 0.00038	3.50 0.92781 0.00038
4.15 0.93982 0.00035	3.75 0.94218 0.00037	3.55 0.93353 0.00038
4.20 0.94480 0.00035	3.80 0.94688 0.00037	3.60 0.93904 0.00036
4.25 0.94966 0.00035	3.85 0.95295 0.00037	3.65 0.94465 0.00038
4.30 0.95428 0.00035	3.90 0.95810 0.00037	3.70 0.95128 0.00038
4.35 0.95953 0.00036	3.95 0.96334 0.00038	3.75 0.95628 0.00038
4.40 0.96397 0.00036	4.00 0.96873 0.00038	3.80 0.96168 0.00038
4.45 0.96888 0.00036	4.05 0.97400 0.00037	3.85 0.96728 0.00037
4.50 0.97317 0.00036	4.10 0.97898 0.00036	3.90 0.97272 0.00038
4.55 0.97768 0.00036	4.15 0.98404 0.00037	3.95 0.97811 0.00036
4.60 0.98191 0.00037	4.20 0.98887 0.00037	4.00 0.98376 0.00039
4.65 0.98749 0.00036	4.25 0.99431 0.00037	4.05 0.98817 0.00038
4.70 0.99181 0.00036	4.30 0.99837 0.00037	4.10 0.99364 0.00037
4.75 0.99491 0.00034	4.35 1.00412 0.00036	4.15 0.99822 0.00037
4.80 1.00000 0.00036	4.40 1.00760 0.00036	4.20 1.00449 0.00038
4.85 1.00439 0.00035	4.45 1.01380 0.00037	4.25 1.00842 0.00038
4.90 1.00800 0.00035	4.50 1.01771 0.00037	4.30 1.01336 0.00038
4.95 1.01225 0.00036		4.35 1.01890 0.00037
5.00 1.01637 0.00035		4.40 1.02327 0.00037

35	40	50
3.30 0.92182 0.00038	3.10 0.92111 0.00039	2.80 0.91675 0.00041
3.35 0.92785 0.00038	3.15 0.92745 0.00039	2.85 0.92403 0.00039
3.40 0.93382 0.00038	3.20 0.93438 0.00039	2.90 0.93098 0.00040
3.45 0.94025 0.00037	3.25 0.94157 0.00038	2.95 0.93843 0.00041
3.50 0.94606 0.00039	3.30 0.94741 0.00040	3.00 0.94464 0.00041
3.55 0.95205 0.00038	3.35 0.95349 0.00039	3.05 0.95168 0.00041
3.60 0.95861 0.00038	3.40 0.95969 0.00039	3.10 0.95865 0.00040
3.65 0.96300 0.00040	3.45 0.96609 0.00039	3.15 0.96540 0.00040
3.70 0.97006 0.00037	3.50 0.97153 0.00039	3.20 0.97122 0.00040
3.75 0.97499 0.00039	3.55 0.97826 0.00038	3.25 0.97769 0.00041
3.80 0.98060 0.00039	3.60 0.98386 0.00040	3.30 0.98456 0.00041
3.85 0.98636 0.00039	3.65 0.98965 0.00039	3.35 0.99028 0.00039
3.90 0.99153 0.00038	3.70 0.99535 0.00038	3.40 0.99651 0.00039
3.95 0.99662 0.00039	3.75 1.00145 0.00039	3.45 1.00305 0.00040
4.00 1.00214 0.00037	3.80 1.00617 0.00039	3.50 1.00851 0.00040
4.05 1.00739 0.00039	3.85 1.01248 0.00040	3.55 1.01446 0.00040
4.10 1.01316 0.00038	3.90 1.01841 0.00039	3.60 1.02051 0.00040
4.15 1.01784 0.00037		
4.20 1.02242 0.00039		

60	70	80
2.60 0.91307 0.00042	2.50 0.91601 0.00041	2.40 0.91422 0.00041
2.65 0.92039 0.00040	2.55 0.92349 0.00041	2.45 0.92302 0.00041
2.70 0.92830 0.00041	2.60 0.93108 0.00042	2.50 0.92972 0.00043
2.75 0.93522 0.00042	2.65 0.93887 0.00041	2.55 0.93633 0.00041
2.80 0.94302 0.00041	2.70 0.94604 0.00042	2.60 0.94521 0.00042
2.85 0.95033 0.00041	2.75 0.95242 0.00042	2.65 0.95272 0.00043
2.90 0.95632 0.00040	2.80 0.95991 0.00041	2.70 0.95922 0.00041
2.95 0.96384 0.00041	2.85 0.96792 0.00041	2.75 0.96635 0.00043
3.00 0.97046 0.00041	2.90 0.97393 0.00041	2.80 0.97375 0.00042
3.05 0.97695 0.00042	2.95 0.98146 0.00040	2.85 0.98036 0.00041
3.10 0.98363 0.00041	3.00 0.98820 0.00041	2.90 0.98764 0.00043
3.15 0.99007 0.00040	3.05 0.99445 0.00041	2.95 0.99435 0.00042
3.20 0.99713 0.00041	3.10 1.00081 0.00041	3.00 1.00082 0.00043
3.25 1.00316 0.00040	3.15 1.00810 0.00041	3.05 1.00752 0.00042
3.30 1.00979 0.00041	3.20 1.01354 0.00040	3.10 1.01346 0.00044
3.35 1.01528 0.00041	3.25 1.01934 0.00041	3.15 1.02095 0.00043
3.40 1.02176 0.00041	3.30 1.02642 0.00041	3.20 1.02653 0.00042

90	100	120
2.40 0.92527 0.00042	2.30 0.91718 0.00042	2.20 0.91289 0.00043
2.45 0.93247 0.00043	2.35 0.92567 0.00042	2.25 0.92184 0.00042
2.50 0.94032 0.00042	2.40 0.93366 0.00042	2.30 0.92898 0.00044
2.55 0.94775 0.00042	2.45 0.94064 0.00042	2.35 0.93716 0.00043
2.60 0.95544 0.00042	2.50 0.94812 0.00043	2.40 0.94343 0.00042
2.65 0.96246 0.00041	2.55 0.95554 0.00043	2.45 0.95174 0.00043

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2.70 0.96901 0.00044	2.60 0.96276 0.00043	2.50 0.95865 0.00043
2.75 0.97655 0.00042	2.65 0.97038 0.00043	2.55 0.96625 0.00042
2.80 0.98390 0.00042	2.85 0.99765 0.00043	2.60 0.97296 0.00043
2.85 0.99053 0.00042	2.90 1.00507 0.00041	2.65 0.98054 0.00043
2.90 0.99715 0.00044	2.95 1.01111 0.00043	2.70 0.98698 0.00044
2.95 1.00354 0.00043	3.00 1.01870 0.00043	2.75 0.99366 0.00042
3.00 1.00946 0.00041		2.80 1.00077 0.00043
3.05 1.01708 0.00041		2.85 1.00735 0.00044
3.10 1.02365 0.00042		2.90 1.01441 0.00043
		2.95 1.02126 0.00042
		3.00 1.02710 0.00043

130	150	200
2.20 0.91759 0.00044	2.20 0.92442 0.00044	2.10 0.91813 0.00043
2.25 0.92616 0.00043	2.25 0.93172 0.00044	2.15 0.92560 0.00042
2.30 0.93323 0.00044	2.30 0.93977 0.00042	2.20 0.93196 0.00044
2.35 0.94032 0.00043	2.35 0.94775 0.00043	2.25 0.94077 0.00043
2.40 0.94876 0.00043	2.40 0.95411 0.00044	2.30 0.94762 0.00044
2.45 0.95633 0.00043	2.45 0.96152 0.00043	2.35 0.95424 0.00042
2.50 0.96337 0.00044	2.50 0.96867 0.00043	2.40 0.96150 0.00042
2.55 0.97009 0.00043	2.55 0.97499 0.00043	2.45 0.96737 0.00044
2.60 0.97718 0.00042	2.60 0.98208 0.00044	2.50 0.97425 0.00043
2.65 0.98488 0.00042	2.65 0.99000 0.00043	2.55 0.98221 0.00043
2.70 0.99158 0.00043	2.70 0.99636 0.00044	2.60 0.98819 0.00042
2.75 0.99859 0.00045	2.75 1.00340 0.00044	2.65 0.99576 0.00044
2.80 1.00489 0.00043	2.80 1.00975 0.00044	2.70 1.00264 0.00044
2.85 1.01168 0.00043	2.85 1.01624 0.00044	2.75 1.00822 0.00043
2.90 1.01728 0.00043	2.90 1.02253 0.00044	2.80 1.01435 0.00044

239	250	359
2.10 0.92087 0.00043	2.10 0.92108 0.00044	2.10 0.92100 0.00043
2.15 0.92808 0.00043	2.15 0.92780 0.00044	2.15 0.92784 0.00044
2.20 0.93519 0.00044	2.20 0.93484 0.00043	2.20 0.93505 0.00044
2.25 0.94194 0.00043	2.25 0.94240 0.00042	2.25 0.94103 0.00043
2.30 0.95006 0.00044	2.30 0.94962 0.00043	2.30 0.94831 0.00043
2.35 0.95642 0.00042	2.35 0.95727 0.00044	2.35 0.95457 0.00044
2.40 0.96375 0.00043	2.40 0.96358 0.00045	2.40 0.96187 0.00043
2.45 0.96993 0.00044	2.45 0.96983 0.00043	2.45 0.96827 0.00043
2.50 0.97726 0.00044	2.50 0.97664 0.00043	2.50 0.97451 0.00043
2.55 0.98296 0.00044	2.55 0.98389 0.00045	2.55 0.97960 0.00044
2.60 0.98985 0.00043	2.60 0.98954 0.00044	2.60 0.98612 0.00043
2.65 0.99713 0.00045	2.65 0.99644 0.00044	2.65 0.99295 0.00042
2.70 1.00173 0.00043	2.70 1.00270 0.00043	2.70 0.99902 0.00044
2.75 1.00966 0.00044	2.75 1.00926 0.00044	2.75 1.00446 0.00045
2.80 1.01610 0.00044	2.80 1.01586 0.00044	2.80 1.01088 0.00045
		2.85 1.01673 0.00044
		2.90 1.02240 0.00044

478	500	600
2.10 0.91619 0.00044	2.10 0.91523 0.00042	2.20 0.91928 0.00043
2.15 0.92309 0.00043	2.15 0.92118 0.00043	2.25 0.92593 0.00043
2.20 0.92975 0.00043	2.20 0.92845 0.00043	2.30 0.93154 0.00044
2.25 0.93612 0.00043	2.25 0.93540 0.00044	2.35 0.93777 0.00043
2.30 0.94224 0.00043	2.30 0.94200 0.00044	2.40 0.94352 0.00043
2.35 0.94968 0.00043	2.35 0.94870 0.00045	2.45 0.95026 0.00043
2.40 0.95625 0.00044	2.40 0.95371 0.00043	2.50 0.95659 0.00044
2.45 0.96187 0.00044	2.45 0.96071 0.00045	2.55 0.96185 0.00044
2.50 0.96758 0.00043	2.50 0.96631 0.00045	2.60 0.96806 0.00044
2.70 0.99133 0.00043	2.55 0.97241 0.00043	2.65 0.97394 0.00044
2.75 0.99807 0.00044	2.60 0.97883 0.00045	2.70 0.97930 0.00044
2.80 1.00405 0.00043	2.65 0.98417 0.00045	2.75 0.98528 0.00043
2.85 1.00931 0.00044	2.70 0.98967 0.00044	2.80 0.99020 0.00045
2.90 1.01432 0.00044	2.75 0.99625 0.00044	2.85 0.99539 0.00044
	2.80 1.00232 0.00045	2.90 1.00046 0.00044
	2.85 1.00737 0.00043	2.95 1.00619 0.00044
	2.90 1.01296 0.00045	3.00 1.01165 0.00044
	2.95 1.01846 0.00044	3.05 1.01776 0.00044
	3.00 1.02383 0.00044	3.10 1.02242 0.00045

650			700			750		
2.30	0.92463	0.00043	2.40	0.92422	0.00043	2.60	0.91851	0.00043
2.35	0.92968	0.00043	2.45	0.93046	0.00043	2.65	0.92435	0.00044
2.40	0.93598	0.00044	2.50	0.93555	0.00044	2.70	0.92877	0.00043
2.45	0.94181	0.00043	2.55	0.94175	0.00044	2.75	0.93398	0.00043
2.50	0.94765	0.00043	2.60	0.94726	0.00044	2.80	0.93989	0.00043
2.55	0.95386	0.00043	2.65	0.95285	0.00043	2.85	0.94517	0.00043
2.75	0.97703	0.00044	2.70	0.95923	0.00043	2.90	0.94945	0.00043
2.80	0.98205	0.00044	2.75	0.96318	0.00043	2.95	0.95460	0.00044
2.85	0.98824	0.00044	2.80	0.97015	0.00043	3.00	0.95943	0.00043
2.90	0.99227	0.00044	2.85	0.97446	0.00044	3.05	0.96531	0.00045
2.95	0.99826	0.00042	2.90	0.97916	0.00045	3.10	0.96962	0.00043
3.00	1.00358	0.00044	2.95	0.98501	0.00043	3.15	0.97359	0.00044
3.05	1.00904	0.00043	3.00	0.99065	0.00044	3.20	0.97865	0.00044
3.10	1.01378	0.00044	3.05	0.99511	0.00045	3.25	0.98352	0.00044
3.15	1.01908	0.00043	3.10	1.00011	0.00043	3.30	0.98795	0.00044
3.20	1.02413	0.00043	3.15	1.00588	0.00043	3.35	0.99283	0.00044
			3.20	1.01070	0.00045	3.40	0.99766	0.00044
			3.25	1.01555	0.00044	3.45	1.00120	0.00044
			3.30	1.02020	0.00045	3.50	1.00671	0.00044
						3.55	1.01113	0.00043
						3.60	1.01542	0.00045

752	754	755
2.70 0.92566 0.00044	2.70 0.92123 0.00043	2.70 0.91683 0.00043
2.75 0.93080 0.00043	2.75 0.92626 0.00044	2.75 0.92127 0.00042
2.80 0.93640 0.00043	2.80 0.93146 0.00043	2.80 0.92662 0.00044
2.85 0.94074 0.00045	2.85 0.93606 0.00044	2.85 0.93220 0.00043
2.90 0.94606 0.00042	2.90 0.94166 0.00043	2.90 0.93663 0.00044
2.95 0.95142 0.00042	2.95 0.94614 0.00044	2.95 0.94169 0.00043
3.00 0.95641 0.00045	3.00 0.95122 0.00043	3.00 0.94636 0.00042
3.05 0.96183 0.00045	3.05 0.95496 0.00043	3.05 0.95132 0.00043
3.10 0.96534 0.00044	3.10 0.96039 0.00043	3.10 0.95666 0.00042
3.15 0.96999 0.00043	3.15 0.96532 0.00044	3.15 0.96037 0.00044
3.20 0.97476 0.00044	3.20 0.96988 0.00043	3.20 0.96525 0.00044
3.25 0.98038 0.00043	3.25 0.97434 0.00044	3.25 0.97056 0.00044
3.30 0.98471 0.00043	3.30 0.97964 0.00044	3.30 0.97510 0.00043
3.35 0.98906 0.00044	3.35 0.98375 0.00045	3.35 0.97993 0.00043
3.40 0.99414 0.00043	3.40 0.98841 0.00042	3.40 0.98303 0.00043
3.45 0.99852 0.00044	3.45 0.99290 0.00044	3.45 0.98800 0.00044
3.50 1.00351 0.00045	3.50 0.99802 0.00045	3.50 0.99260 0.00044
3.55 1.00665 0.00044	3.55 1.00213 0.00044	3.55 0.99701 0.00043
3.60 1.01204 0.00043	3.60 1.00705 0.00044	3.60 1.00087 0.00043
3.65 1.01621 0.00043	3.65 1.01067 0.00044	3.65 1.00555 0.00043
3.70 1.02077 0.00044	3.70 1.01566 0.00043	3.70 1.00998 0.00043
		3.75 1.01430 0.00044
		3.80 1.01871 0.00044

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12	15	20
24.20 0.77712 0.00025	29.10 0.92778 0.00026	21.00 0.92420 0.00033
25.80 0.79600 0.00024	29.70 0.93471 0.00026	21.20 0.92949 0.00033
27.40 0.81434 0.00024	30.30 0.94008 0.00025	21.40 0.93385 0.00032
29.00 0.82978 0.00023	30.90 0.94471 0.00026	21.60 0.93770 0.00033
30.60 0.84345 0.00023	31.50 0.94968 0.00024	21.80 0.94154 0.00033
32.20 0.85561 0.00022	32.10 0.95455 0.00024	22.00 0.94521 0.00033
33.80 0.86654 0.00022	32.70 0.95915 0.00025	22.20 0.95087 0.00032
35.40 0.87531 0.00022	33.30 0.96288 0.00024	22.40 0.95375 0.00032
37.00 0.88469 0.00021	33.90 0.96832 0.00023	22.60 0.95768 0.00032
38.60 0.89168 0.00020	34.50 0.97200 0.00024	22.80 0.96189 0.00033
40.20 0.89867 0.00020	35.10 0.97558 0.00024	23.00 0.96488 0.00032
41.80 0.90549 0.00020	35.70 0.97973 0.00023	23.20 0.96878 0.00032
43.40 0.91114 0.00019	36.30 0.98340 0.00023	23.40 0.97295 0.00031
45.00 0.91533 0.00019	36.90 0.98656 0.00023	23.60 0.97600 0.00031
46.60 0.92066 0.00018	37.50 0.98993 0.00021	23.80 0.98050 0.00032
48.20 0.92528 0.00018	38.10 0.99285 0.00023	24.00 0.98288 0.00032
49.80 0.92915 0.00017	38.70 0.99624 0.00023	24.20 0.98681 0.00032
51.40 0.93198 0.00017	39.30 0.99889 0.00022	24.40 0.98998 0.00031
53.00 0.93582 0.00017	39.90 1.00194 0.00022	24.60 0.99293 0.00031
54.60 0.93834 0.00017	40.50 1.00405 0.00022	24.80 0.99586 0.00031
56.20 0.94181 0.00017	41.10 1.00676 0.00022	25.00 0.99891 0.00031
57.40 0.94394 0.00017	41.30 1.00800 0.00021	25.20 1.00197 0.00031
		25.40 1.00530 0.00031

25.60 1.00749 0.00030
 25.80 1.01177 0.00030
 26.00 1.01429 0.00030

25	30	32
18.00 0.92454 0.00037	16.30 0.92172 0.00041	15.80 0.91963 0.00041
18.10 0.92796 0.00037	16.40 0.92505 0.00039	15.90 0.92421 0.00042
18.20 0.93036 0.00036	16.50 0.92939 0.00040	16.00 0.92769 0.00041
18.30 0.93319 0.00037	16.60 0.93260 0.00040	16.10 0.93191 0.00041
18.40 0.93694 0.00037	16.70 0.93655 0.00040	16.20 0.93565 0.00041
18.50 0.93996 0.00036	16.80 0.94018 0.00041	16.30 0.94074 0.00041
18.60 0.94340 0.00038	16.90 0.94500 0.00040	16.40 0.94501 0.00041
18.70 0.94613 0.00037	17.00 0.94867 0.00040	16.50 0.94890 0.00040
18.80 0.94887 0.00038	17.10 0.95174 0.00041	16.60 0.95283 0.00041
18.90 0.95201 0.00036	17.20 0.95577 0.00040	16.70 0.95546 0.00042
19.00 0.95438 0.00038	17.30 0.95970 0.00040	16.80 0.96115 0.00041
19.10 0.95757 0.00036	17.40 0.96274 0.00040	16.90 0.96383 0.00040
19.20 0.96103 0.00037	17.50 0.96567 0.00040	17.00 0.96746 0.00040
19.30 0.96395 0.00038	17.60 0.97025 0.00040	17.10 0.97159 0.00040
19.40 0.96617 0.00037	17.70 0.97326 0.00039	17.20 0.97588 0.00042
19.50 0.96910 0.00036	17.80 0.97765 0.00038	17.30 0.97937 0.00040
19.60 0.97186 0.00036	17.90 0.98120 0.00039	17.40 0.98274 0.00041
19.70 0.97446 0.00037	18.00 0.98415 0.00039	17.50 0.98600 0.00040
19.80 0.97754 0.00036	18.10 0.98636 0.00039	17.60 0.99055 0.00040
19.90 0.97968 0.00037	18.20 0.99015 0.00038	17.70 0.99346 0.00041
20.00 0.98259 0.00035	18.30 0.99366 0.00040	17.80 0.99677 0.00040
20.10 0.98513 0.00035	18.40 0.99731 0.00039	17.90 1.00029 0.00040
20.20 0.98780 0.00035	18.50 1.00041 0.00040	18.00 1.00379 0.00041
20.30 0.99026 0.00037	18.60 1.00410 0.00039	18.10 1.00761 0.00041
20.40 0.99289 0.00035	18.70 1.00732 0.00038	18.20 1.01133 0.00041
20.50 0.99562 0.00036	18.80 1.00966 0.00039	18.30 1.01405 0.00040
20.60 0.99886 0.00035	18.90 1.01278 0.00040	18.40 1.01774 0.00039
20.70 0.99971 0.00036	19.00 1.01578 0.00038	
20.80 1.00324 0.00037	19.10 1.01874 0.00039	
20.90 1.00558 0.00037		
21.00 1.00719 0.00036		
21.10 1.00998 0.00035		
21.20 1.01229 0.00035		
21.30 1.01519 0.00036		
21.40 1.01607 0.00035		

35	40	50
15.30 0.92297 0.00041	14.50 0.91896 0.00044	13.60 0.92184 0.00047
15.40 0.92771 0.00042	14.60 0.92380 0.00045	13.70 0.92688 0.00047
15.50 0.93208 0.00041	14.70 0.92917 0.00046	13.80 0.93384 0.00044
15.60 0.93629 0.00041	14.80 0.93458 0.00043	13.90 0.93887 0.00046
15.70 0.94083 0.00042	14.90 0.93919 0.00045	14.00 0.94507 0.00047

15.80 0.94484 0.00042	15.00 0.94509 0.00044	14.10 0.94953 0.00047
15.90 0.95011 0.00043	15.10 0.94976 0.00045	14.20 0.95545 0.00046
16.00 0.95303 0.00042	15.20 0.95464 0.00045	14.30 0.96219 0.00047
16.10 0.95798 0.00043	15.30 0.95890 0.00046	14.40 0.96769 0.00045
16.20 0.96290 0.00042	15.40 0.96232 0.00044	14.50 0.97215 0.00046
16.30 0.96642 0.00041	15.50 0.96872 0.00044	14.60 0.97764 0.00047
16.40 0.97150 0.00042	15.60 0.97281 0.00044	14.70 0.98350 0.00046
16.50 0.97544 0.00041	15.70 0.97770 0.00044	14.80 0.98844 0.00047
16.60 0.97863 0.00042	15.80 0.98233 0.00044	14.90 0.99353 0.00048
16.70 0.98328 0.00041	15.90 0.98658 0.00044	15.00 0.99737 0.00047
16.80 0.98626 0.00041	16.00 0.99112 0.00044	15.10 1.00391 0.00047
16.90 0.99138 0.00041	16.10 0.99522 0.00044	15.20 1.00908 0.00047
17.00 0.99467 0.00041	16.20 0.99977 0.00044	15.30 1.01366 0.00045
17.10 0.99882 0.00041	16.30 1.00494 0.00044	15.40 1.01877 0.00046
17.20 1.00209 0.00041	16.40 1.00900 0.00044	
17.30 1.00549 0.00042	16.50 1.01122 0.00043	
17.40 1.01035 0.00043	16.60 1.01595 0.00043	
17.50 1.01397 0.00041	16.70 1.02097 0.00043	
17.60 1.01720 0.00041		

60	70	80
12.90 0.91435 0.00048	12.50 0.91512 0.00050	12.20 0.91523 0.00051
13.00 0.92126 0.00048	12.55 0.91832 0.00050	12.25 0.91932 0.00052
13.10 0.92857 0.00049	12.60 0.92261 0.00049	12.30 0.92206 0.00051
13.20 0.93421 0.00048	12.65 0.92655 0.00049	12.35 0.92599 0.00050
13.30 0.94190 0.00048	12.70 0.93018 0.00050	12.40 0.93032 0.00051
13.40 0.94658 0.00048	12.75 0.93203 0.00050	12.45 0.93373 0.00051
13.50 0.95254 0.00050	12.80 0.93546 0.00051	12.50 0.93704 0.00051
13.60 0.95980 0.00048	12.85 0.94004 0.00050	12.55 0.94058 0.00052
13.70 0.96529 0.00049	12.90 0.94227 0.00050	12.60 0.94358 0.00051
13.80 0.97172 0.00049	12.95 0.94559 0.00050	12.65 0.94788 0.00051
13.90 0.97845 0.00048	13.00 0.94950 0.00051	12.70 0.95024 0.00049
14.00 0.98322 0.00049	13.05 0.95218 0.00048	12.75 0.95449 0.00051
14.10 0.98927 0.00048	13.10 0.95632 0.00052	12.80 0.95877 0.00052
14.20 0.99442 0.00049	13.15 0.95901 0.00051	12.85 0.96128 0.00050
14.30 0.99970 0.00050	13.20 0.96276 0.00050	12.90 0.96414 0.00052
14.40 1.00567 0.00048	13.25 0.96575 0.00051	12.95 0.96801 0.00052
14.50 1.01207 0.00047	13.30 0.96850 0.00050	13.00 0.97072 0.00052
14.60 1.01747 0.00049	13.35 0.97114 0.00051	13.05 0.97402 0.00050
14.70 1.02253 0.00049	13.40 0.97461 0.00051	13.10 0.97836 0.00050
	13.45 0.97802 0.00050	13.15 0.98053 0.00050
	13.50 0.98045 0.00050	13.20 0.98382 0.00051
	13.55 0.98438 0.00050	13.25 0.98663 0.00053
	13.60 0.98796 0.00050	13.30 0.99164 0.00051
	13.65 0.99126 0.00050	13.35 0.99402 0.00050
	13.70 0.99352 0.00050	13.40 0.99751 0.00052
	13.75 0.99626 0.00050	13.45 0.99999 0.00049
	13.80 0.99908 0.00050	13.50 1.00326 0.00052
	13.85 1.00300 0.00048	13.55 1.00650 0.00051

13.90	1.00576	0.00049	13.60	1.01074	0.00051
13.95	1.00827	0.00049	13.65	1.01337	0.00051
14.00	1.01184	0.00049	13.70	1.01567	0.00052
14.05	1.01434	0.00049	13.75	1.01851	0.00051
14.10	1.01790	0.00051	13.80	1.02168	0.00051
14.15	1.01990	0.00050			
14.20	1.02399	0.00049			

90	100	118
12.00 0.91713 0.00052	11.80 0.91448 0.00052	11.60 0.91680 0.00054
12.05 0.92040 0.00053	11.85 0.91836 0.00053	11.65 0.92090 0.00053
12.10 0.92507 0.00051	11.90 0.92234 0.00052	11.70 0.92418 0.00054
12.15 0.92772 0.00052	11.95 0.92583 0.00053	11.75 0.92833 0.00053
12.20 0.93116 0.00052	12.00 0.92965 0.00051	11.80 0.93203 0.00054
12.25 0.93543 0.00053	12.05 0.93373 0.00053	11.85 0.93583 0.00053
12.30 0.93842 0.00051	12.10 0.93698 0.00054	11.90 0.93983 0.00054
12.35 0.94251 0.00052	12.15 0.94207 0.00053	11.95 0.94421 0.00053
12.40 0.94630 0.00052	12.20 0.94532 0.00052	12.00 0.94905 0.00053
12.45 0.95041 0.00053	12.25 0.94860 0.00053	12.05 0.95224 0.00054
12.50 0.95410 0.00050	12.30 0.95117 0.00053	12.10 0.95573 0.00055
12.55 0.95749 0.00051	12.35 0.95632 0.00052	12.15 0.95986 0.00053
12.60 0.96090 0.00052	12.40 0.95990 0.00052	12.20 0.96422 0.00054
12.65 0.96478 0.00052	12.45 0.96311 0.00053	12.25 0.96655 0.00054
12.70 0.96704 0.00053	12.50 0.96666 0.00052	12.30 0.97049 0.00053
12.75 0.97111 0.00053	12.55 0.97007 0.00054	12.35 0.97464 0.00053
12.80 0.97300 0.00054	12.60 0.97345 0.00054	12.40 0.97848 0.00053
12.85 0.97732 0.00052	12.65 0.97719 0.00053	12.45 0.98127 0.00054
12.90 0.98114 0.00051	12.70 0.98084 0.00051	12.50 0.98618 0.00054
12.95 0.98547 0.00052	12.75 0.98390 0.00052	12.55 0.98953 0.00053
13.00 0.98813 0.00052	12.80 0.98789 0.00052	12.60 0.99211 0.00054
13.05 0.99152 0.00051	12.85 0.99095 0.00053	12.65 0.99752 0.00052
13.10 0.99498 0.00051	12.90 0.99477 0.00053	12.70 0.99957 0.00054
13.15 0.99738 0.00052	12.95 0.99843 0.00053	12.75 1.00338 0.00054
13.20 1.00123 0.00052	13.00 1.00295 0.00052	12.80 1.00706 0.00056
13.25 1.00465 0.00052	13.05 1.00409 0.00052	12.85 1.01090 0.00054
13.30 1.00794 0.00052	13.10 1.00848 0.00052	12.90 1.01411 0.00056
13.35 1.01047 0.00051	13.15 1.01255 0.00052	12.95 1.01810 0.00053
13.40 1.01425 0.00051	13.20 1.01529 0.00053	13.00 1.02101 0.00054
13.45 1.01756 0.00051	13.25 1.01875 0.00053	
13.50 1.02109 0.00051	13.30 1.02163 0.00052	

130	150	200
11.50 0.91941 0.00053	11.30 0.91418 0.00054	11.10 0.91581 0.00053
11.55 0.92255 0.00054	11.35 0.91778 0.00053	11.15 0.92001 0.00053
11.60 0.92699 0.00053	11.40 0.92292 0.00054	11.20 0.92486 0.00057
11.65 0.93111 0.00055	11.45 0.92708 0.00052	11.25 0.92758 0.00055
11.70 0.93493 0.00054	11.50 0.93261 0.00053	11.30 0.93360 0.00056

11.75 0.93790 0.00054	11.55 0.93616 0.00055	11.35 0.93730 0.00054
11.80 0.94308 0.00055	11.60 0.93980 0.00054	11.40 0.94129 0.00055
11.85 0.94726 0.00052	11.65 0.94415 0.00054	11.45 0.94500 0.00055
11.90 0.95097 0.00053	11.70 0.94725 0.00056	11.50 0.94961 0.00055
11.95 0.95494 0.00054	11.75 0.95132 0.00054	11.55 0.95290 0.00056
12.00 0.95829 0.00053	11.80 0.95533 0.00056	11.60 0.95905 0.00055
12.05 0.96178 0.00053	11.85 0.95949 0.00053	11.65 0.96238 0.00056
12.10 0.96648 0.00053	11.90 0.96340 0.00055	11.70 0.96624 0.00054
12.15 0.97016 0.00053	11.95 0.96705 0.00055	11.75 0.96927 0.00055
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12.25 0.97712 0.00054	12.05 0.97486 0.00056	11.85 0.97699 0.00056
12.30 0.98085 0.00054	12.10 0.97931 0.00054	11.90 0.98074 0.00055
12.35 0.98501 0.00056	12.15 0.98243 0.00055	11.95 0.98439 0.00056
12.40 0.98873 0.00054	12.20 0.98570 0.00055	12.00 0.98917 0.00056
12.45 0.99278 0.00053	12.25 0.98986 0.00055	12.05 0.99325 0.00057
12.50 0.99624 0.00054	12.30 0.99263 0.00057	12.10 0.99709 0.00056
12.55 1.00087 0.00054	12.35 0.99805 0.00055	12.15 1.00062 0.00055
12.60 1.00279 0.00053	12.40 1.00142 0.00054	12.20 1.00426 0.00057
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12.70 1.01035 0.00053	12.50 1.00800 0.00054	12.30 1.01235 0.00054
12.75 1.01434 0.00055	12.55 1.01292 0.00055	12.35 1.01595 0.00054
12.80 1.01886 0.00053	12.60 1.01677 0.00054	12.40 1.01960 0.00056
12.85 1.02105 0.00054	12.65 1.02096 0.00054	12.45 1.02312 0.00054
12.90 1.02451 0.00054	12.70 1.02358 0.00053	12.50 1.02718 0.00055

235	250	353
11.00 0.91333 0.00056	11.00 0.91556 0.00056	11.00 0.91739 0.00055
11.05 0.91783 0.00056	11.05 0.92014 0.00054	11.05 0.92312 0.00056
11.10 0.92143 0.00056	11.10 0.92426 0.00056	11.10 0.92658 0.00056
11.15 0.92708 0.00055	11.15 0.92697 0.00056	11.15 0.93097 0.00056
11.20 0.93023 0.00056	11.20 0.93189 0.00056	11.20 0.93560 0.00056
11.25 0.93448 0.00055	11.25 0.93678 0.00056	11.25 0.94096 0.00055
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11.35 0.94382 0.00055	11.35 0.94562 0.00056	11.35 0.94869 0.00055
11.40 0.94671 0.00054	11.45 0.95267 0.00055	11.40 0.95221 0.00056
11.45 0.95194 0.00055	11.50 0.95782 0.00054	11.45 0.95632 0.00056
11.50 0.95566 0.00056	11.55 0.96138 0.00057	11.50 0.96044 0.00055
11.55 0.96006 0.00056	11.60 0.96560 0.00056	11.55 0.96440 0.00054
11.60 0.96418 0.00056	11.65 0.96929 0.00055	11.60 0.96792 0.00055
11.65 0.96864 0.00055	11.70 0.97319 0.00056	11.65 0.97221 0.00057
11.70 0.97273 0.00055	11.75 0.97717 0.00057	11.70 0.97606 0.00054
11.75 0.97612 0.00056	11.80 0.98219 0.00056	11.75 0.97923 0.00056
11.80 0.97955 0.00056	11.85 0.98533 0.00056	11.80 0.98380 0.00056
11.85 0.98338 0.00056	11.90 0.99025 0.00056	11.85 0.98782 0.00055
11.90 0.98807 0.00054	11.95 0.99379 0.00057	11.90 0.99118 0.00056
11.95 0.99144 0.00055	12.00 0.99781 0.00056	11.95 0.99601 0.00056
12.00 0.99496 0.00057	12.05 1.00161 0.00057	12.00 0.99932 0.00055
12.05 1.00033 0.00056	12.10 1.00500 0.00055	12.05 1.00317 0.00057
12.10 1.00388 0.00057	12.15 1.01064 0.00055	12.10 1.00733 0.00054

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12.15 1.00727 0.00054	12.20 1.01404 0.00054	12.15 1.01076 0.00057
12.20 1.01034 0.00055	12.25 1.01586 0.00057	12.20 1.01367 0.00055
12.25 1.01508 0.00057	12.30 1.02109 0.00057	12.25 1.01782 0.00058
12.30 1.01791 0.00055		12.30 1.02296 0.00056
12.35 1.02285 0.00055		
12.40 1.02599 0.00056		

470	500	600
11.00 0.91345 0.00056	11.10 0.91942 0.00055	11.20 0.91621 0.00054
11.05 0.91682 0.00055	11.15 0.92351 0.00055	11.25 0.92033 0.00053
11.10 0.92119 0.00054	11.20 0.92798 0.00054	11.30 0.92485 0.00055
11.15 0.92542 0.00054	11.25 0.93248 0.00055	11.35 0.92881 0.00054
11.20 0.92981 0.00055	11.30 0.93611 0.00054	11.40 0.93314 0.00055
11.25 0.93364 0.00056	11.35 0.93976 0.00054	11.45 0.93600 0.00056
11.30 0.93727 0.00055	11.40 0.94210 0.00055	11.50 0.94147 0.00055
11.35 0.94156 0.00056	11.45 0.94775 0.00055	11.55 0.94375 0.00054
11.40 0.94588 0.00055	11.50 0.95204 0.00055	11.60 0.94783 0.00052
11.45 0.94855 0.00056	11.55 0.95697 0.00056	11.65 0.95245 0.00055
11.50 0.95492 0.00054	11.60 0.96090 0.00055	11.70 0.95636 0.00054
11.55 0.95880 0.00055	11.65 0.96368 0.00057	11.75 0.95982 0.00054
11.60 0.96256 0.00054	11.70 0.96744 0.00055	11.80 0.96341 0.00054
11.65 0.96598 0.00056	11.75 0.97244 0.00055	11.85 0.96697 0.00053
11.70 0.97054 0.00055	11.80 0.97648 0.00055	11.90 0.97019 0.00052
11.75 0.97380 0.00053	11.85 0.97893 0.00054	11.95 0.97522 0.00056
11.80 0.97817 0.00057	11.90 0.98334 0.00054	12.00 0.97939 0.00054
11.85 0.98284 0.00056	11.95 0.98753 0.00055	12.05 0.98245 0.00055
11.90 0.98655 0.00056	12.00 0.99061 0.00055	12.10 0.98657 0.00054
11.95 0.98882 0.00055	12.05 0.99523 0.00055	12.15 0.99030 0.00054
12.00 0.99349 0.00056	12.10 0.99952 0.00055	12.20 0.99411 0.00054
12.05 0.99689 0.00055	12.15 1.00177 0.00056	12.25 0.99769 0.00055
12.10 1.00077 0.00056	12.20 1.00549 0.00056	12.30 1.00090 0.00054
12.15 1.00432 0.00053	12.25 1.00998 0.00055	12.35 1.00500 0.00055
12.20 1.00907 0.00056	12.30 1.01320 0.00056	12.40 1.00912 0.00054
12.25 1.01251 0.00055	12.35 1.01711 0.00057	12.45 1.01237 0.00055
12.30 1.01556 0.00055	12.40 1.02041 0.00054	12.50 1.01635 0.00054
12.35 1.01948 0.00055		12.55 1.01796 0.00055
12.40 1.02448 0.00055		12.60 1.02427 0.00053

605	610	615
11.20 0.91643 0.00054	11.20 0.91499 0.00055	11.20 0.91549 0.00056
11.25 0.92070 0.00055	11.25 0.91913 0.00055	11.25 0.91908 0.00054
11.30 0.92349 0.00054	11.30 0.92374 0.00055	11.30 0.92425 0.00055
11.35 0.92795 0.00055	11.35 0.92659 0.00054	11.35 0.92762 0.00054
11.40 0.93237 0.00054	11.40 0.93171 0.00054	11.40 0.93213 0.00055
11.45 0.93573 0.00054	11.45 0.93546 0.00053	11.45 0.93580 0.00055
11.50 0.94013 0.00055	11.50 0.93963 0.00055	11.50 0.93792 0.00053
11.55 0.94455 0.00055	11.55 0.94351 0.00055	11.55 0.94286 0.00055
11.60 0.94726 0.00055	11.60 0.94722 0.00054	11.60 0.94709 0.00054
11.65 0.95261 0.00053	11.65 0.95155 0.00056	11.65 0.95052 0.00054

11.70 0.95649 0.00053	11.70 0.95642 0.00056	11.70 0.95442 0.00054
11.75 0.96036 0.00054	11.75 0.95919 0.00054	11.75 0.95943 0.00054
11.80 0.96393 0.00055	11.80 0.96250 0.00054	11.80 0.96176 0.00054
11.85 0.96628 0.00055	11.85 0.96697 0.00055	11.85 0.96615 0.00054
11.90 0.97247 0.00054	11.90 0.97073 0.00054	11.90 0.97040 0.00054
11.95 0.97575 0.00056	11.95 0.97440 0.00054	11.95 0.97562 0.00055
12.00 0.97880 0.00053	12.00 0.97872 0.00055	12.00 0.97852 0.00053
12.05 0.98203 0.00055	12.05 0.98130 0.00055	12.05 0.98266 0.00055
12.10 0.98652 0.00053	12.10 0.98564 0.00054	12.10 0.98488 0.00055
12.15 0.99007 0.00054	12.15 0.98948 0.00055	12.15 0.98984 0.00054
12.20 0.99384 0.00054	12.20 0.99360 0.00054	12.20 0.99374 0.00054
12.25 0.99777 0.00055	12.25 0.99711 0.00055	12.25 0.99712 0.00053
12.30 0.99978 0.00055	12.30 0.99981 0.00055	12.30 1.00067 0.00054
12.35 1.00446 0.00056	12.35 1.00448 0.00056	12.35 1.00388 0.00054
12.40 1.00824 0.00054	12.40 1.00796 0.00055	12.40 1.00768 0.00056
12.45 1.01091 0.00054	12.45 1.01209 0.00054	12.45 1.01070 0.00054
12.50 1.01619 0.00053	12.50 1.01430 0.00054	12.50 1.01520 0.00055
12.55 1.01971 0.00056	12.55 1.01896 0.00055	12.55 1.01837 0.00054
12.60 1.02253 0.00055	12.60 1.02140 0.00054	12.60 1.02128 0.00053

620	625	629
11.20 0.91275 0.00054	11.20 0.91403 0.00053	11.30 0.92079 0.00053
11.25 0.91839 0.00054	11.25 0.91734 0.00055	11.35 0.92439 0.00055
11.30 0.92185 0.00054	11.30 0.92219 0.00053	11.40 0.92813 0.00055
11.35 0.92564 0.00054	11.35 0.92549 0.00053	11.45 0.93251 0.00053
11.40 0.93055 0.00053	11.40 0.92910 0.00056	11.50 0.93722 0.00055
11.45 0.93282 0.00054	11.45 0.93370 0.00055	11.55 0.94094 0.00052
11.50 0.93813 0.00054	11.50 0.93714 0.00053	11.60 0.94504 0.00054
11.55 0.94175 0.00055	11.55 0.94132 0.00054	11.65 0.94828 0.00054
11.65 0.94937 0.00055	11.60 0.94555 0.00055	11.70 0.95187 0.00054
11.70 0.95423 0.00054	11.65 0.94955 0.00053	11.75 0.95638 0.00054
11.75 0.95866 0.00054	11.70 0.95288 0.00053	11.80 0.96053 0.00054
11.80 0.96134 0.00054	11.75 0.95722 0.00055	11.85 0.96443 0.00051
11.85 0.96462 0.00053	11.80 0.96221 0.00056	11.90 0.96876 0.00054
11.90 0.96860 0.00054	11.85 0.96448 0.00053	11.95 0.97170 0.00054
11.95 0.97260 0.00053	11.90 0.96801 0.00054	12.00 0.97557 0.00054
12.00 0.97715 0.00054	11.95 0.97262 0.00055	12.05 0.97885 0.00054
12.05 0.98068 0.00055	12.00 0.97503 0.00054	12.10 0.98258 0.00055
12.10 0.98452 0.00054	12.05 0.98014 0.00055	12.15 0.98578 0.00056
12.15 0.98734 0.00056	12.10 0.98310 0.00055	12.20 0.98889 0.00054
12.20 0.99112 0.00055	12.15 0.98854 0.00054	12.25 0.99421 0.00054
12.25 0.99538 0.00055	12.20 0.99127 0.00053	12.30 0.99724 0.00054
12.30 0.99917 0.00054	12.25 0.99522 0.00054	12.35 1.00230 0.00054
12.35 1.00228 0.00055	12.30 0.99746 0.00055	12.40 1.00427 0.00055
12.40 1.00556 0.00053	12.35 1.00190 0.00054	12.45 1.00800 0.00055
12.45 1.00955 0.00054	12.40 1.00554 0.00056	12.50 1.01283 0.00056
12.50 1.01184 0.00054	12.45 1.00917 0.00055	12.55 1.01532 0.00055
12.55 1.01613 0.00056	12.50 1.01287 0.00054	12.60 1.01953 0.00055
12.60 1.01996 0.00056	12.55 1.01584 0.00056	
	12.60 1.02090 0.00054	

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12	15	20
38.80 0.89927 0.00020	27.50 0.92751 0.00025	19.50 0.92491 0.00031
39.70 0.90282 0.00019	28.10 0.93278 0.00025	19.70 0.92961 0.00032
40.60 0.90607 0.00019	28.70 0.93829 0.00025	19.90 0.93347 0.00032
41.50 0.90942 0.00018	29.30 0.94358 0.00025	20.10 0.93736 0.00032
42.40 0.91252 0.00019	29.90 0.94879 0.00024	20.30 0.94183 0.00032
43.30 0.91571 0.00019	30.50 0.95452 0.00025	20.50 0.94601 0.00032
44.20 0.91781 0.00019	31.10 0.95881 0.00024	20.70 0.95056 0.00032
45.10 0.92067 0.00018	31.70 0.96308 0.00024	20.90 0.95414 0.00031
46.00 0.92296 0.00017	32.30 0.96712 0.00023	21.10 0.95760 0.00030
46.90 0.92544 0.00018	32.90 0.97184 0.00023	21.30 0.96169 0.00031
47.80 0.92751 0.00018	33.50 0.97502 0.00023	21.50 0.96628 0.00031
48.70 0.92925 0.00018	34.10 0.97902 0.00023	21.70 0.96893 0.00031
49.60 0.93186 0.00017	34.70 0.98259 0.00023	21.90 0.97222 0.00031
50.50 0.93318 0.00017	35.30 0.98640 0.00023	22.10 0.97655 0.00031
51.40 0.93580 0.00016	35.90 0.98910 0.00022	22.30 0.97997 0.00030
52.30 0.93667 0.00016	36.50 0.99383 0.00021	22.50 0.98343 0.00029
53.20 0.93879 0.00017	37.10 0.99552 0.00022	22.70 0.98701 0.00031
54.10 0.94059 0.00017	37.70 0.99865 0.00022	22.90 0.98974 0.00030
55.00 0.94257 0.00017	38.30 1.00134 0.00022	23.10 0.99291 0.00031
55.90 0.94328 0.00016	38.90 1.00426 0.00021	23.30 0.99589 0.00030
56.80 0.94503 0.00016	39.40 1.00624 0.00021	23.50 0.99948 0.00030
57.00 0.94503 0.00016		23.70 1.00287 0.00030
		23.90 1.00506 0.00030
		24.10 1.00832 0.00030
		24.30 1.01133 0.00030
		24.50 1.01470 0.00030
		24.60 1.01540 0.00029

25	30	32
16.40 0.92184 0.00036	14.80 0.92116 0.00038	14.30 0.91920 0.00040
16.50 0.92477 0.00037	14.90 0.92536 0.00038	14.40 0.92391 0.00039
16.60 0.92749 0.00036	15.00 0.92988 0.00039	14.50 0.92874 0.00040
16.70 0.93126 0.00036	15.10 0.93320 0.00038	14.60 0.93297 0.00039
16.80 0.93415 0.00035	15.20 0.93727 0.00038	14.70 0.93645 0.00039
16.90 0.93648 0.00036	15.30 0.94167 0.00038	14.80 0.94122 0.00039
17.00 0.94040 0.00035	15.40 0.94513 0.00039	14.90 0.94442 0.00040
17.10 0.94341 0.00035	15.50 0.94832 0.00037	15.00 0.94904 0.00039
17.20 0.94706 0.00035	15.60 0.95290 0.00038	15.10 0.95297 0.00038
17.30 0.94940 0.00036	15.70 0.95657 0.00037	15.20 0.95764 0.00039
17.40 0.95215 0.00036	15.80 0.96053 0.00037	15.30 0.96064 0.00039
17.50 0.95553 0.00036	15.90 0.96350 0.00038	15.40 0.96470 0.00040
17.60 0.95836 0.00035	16.00 0.96704 0.00038	15.50 0.96798 0.00039
17.70 0.96167 0.00035	16.10 0.97061 0.00038	15.60 0.97292 0.00039
17.80 0.96392 0.00036	16.20 0.97398 0.00038	15.70 0.97667 0.00040
17.90 0.96670 0.00035	16.30 0.97735 0.00039	15.80 0.97964 0.00039

18.00 0.96929 0.00035	16.40 0.98151 0.00039	15.90 0.98305 0.00038
18.10 0.97272 0.00037	16.50 0.98407 0.00038	16.00 0.98720 0.00038
18.20 0.97475 0.00035	16.60 0.98785 0.00037	16.10 0.99127 0.00040
18.30 0.97854 0.00034	16.70 0.99066 0.00038	16.20 0.99398 0.00038
18.40 0.98094 0.00036	16.80 0.99475 0.00037	16.30 0.99805 0.00039
18.50 0.98323 0.00036	16.90 0.99710 0.00038	16.40 1.00104 0.00039
18.60 0.98631 0.00034	17.00 1.00087 0.00037	16.50 1.00492 0.00040
18.70 0.98786 0.00034	17.10 1.00371 0.00037	16.60 1.00812 0.00038
18.80 0.99034 0.00035	17.20 1.00816 0.00036	16.70 1.01108 0.00037
18.90 0.99299 0.00036	17.30 1.01031 0.00037	16.80 1.01436 0.00038
19.00 0.99553 0.00035	17.40 1.01343 0.00039	16.90 1.01873 0.00040
19.10 0.99836 0.00034	17.50 1.01684 0.00037	
19.20 1.00112 0.00035		
19.30 1.00319 0.00034		
19.40 1.00542 0.00033		
19.50 1.00856 0.00035		
19.60 1.01093 0.00034		
19.70 1.01266 0.00034		
19.80 1.01517 0.00035		

35	40	50
13.70 0.91876 0.00041	13.00 0.91977 0.00042	12.00 0.91625 0.00045
13.80 0.92251 0.00040	13.10 0.92332 0.00042	12.10 0.92290 0.00044
13.90 0.92810 0.00041	13.20 0.93012 0.00043	12.20 0.92833 0.00045
14.00 0.93223 0.00041	13.30 0.93503 0.00043	12.30 0.93407 0.00045
14.10 0.93722 0.00041	13.40 0.93995 0.00042	12.40 0.93890 0.00045
14.20 0.94110 0.00039	13.50 0.94577 0.00042	12.50 0.94507 0.00045
14.30 0.94631 0.00041	13.60 0.95002 0.00043	12.60 0.95163 0.00045
14.40 0.95057 0.00040	13.70 0.95468 0.00042	12.70 0.95603 0.00045
14.50 0.95511 0.00039	13.80 0.95933 0.00042	12.80 0.96301 0.00045
14.60 0.95876 0.00040	13.90 0.96422 0.00042	12.90 0.96897 0.00045
14.70 0.96393 0.00041	14.00 0.96985 0.00042	13.00 0.97273 0.00044
14.80 0.96690 0.00041	14.10 0.97319 0.00042	13.10 0.97929 0.00045
14.90 0.97185 0.00041	14.20 0.97885 0.00043	13.20 0.98406 0.00045
15.00 0.97551 0.00039	14.30 0.98352 0.00042	13.30 0.98933 0.00045
15.10 0.97985 0.00041	14.40 0.98697 0.00043	13.40 0.99391 0.00044
15.20 0.98352 0.00040	14.50 0.99119 0.00044	13.50 0.99957 0.00044
15.30 0.98737 0.00039	14.60 0.99638 0.00042	13.60 1.00470 0.00044
15.40 0.99116 0.00041	14.70 0.99982 0.00042	13.70 1.00957 0.00044
15.50 0.99603 0.00041	14.80 1.00441 0.00042	13.80 1.01468 0.00044
15.60 0.99980 0.00040	14.90 1.00905 0.00040	13.90 1.01919 0.00045
15.70 1.00401 0.00041	15.00 1.01325 0.00042	
15.80 1.00664 0.00040	15.10 1.01747 0.00042	
15.90 1.01117 0.00040		
16.00 1.01415 0.00039		
16.10 1.01778 0.00040		

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60	70	80
11.40 0.91589 0.00047	11.00 0.91610 0.00047	10.70 0.91612 0.00049
11.50 0.92145 0.00048	11.05 0.91971 0.00049	10.75 0.91888 0.00049
11.60 0.92985 0.00046	11.10 0.92425 0.00048	10.80 0.92310 0.00047
11.70 0.93487 0.00046	11.15 0.92615 0.00049	10.85 0.92623 0.00049
11.80 0.94139 0.00047	11.20 0.93000 0.00048	10.90 0.93144 0.00049
11.90 0.94821 0.00045	11.25 0.93368 0.00047	10.95 0.93499 0.00048
12.00 0.95393 0.00046	11.30 0.93675 0.00048	11.00 0.93853 0.00050
12.10 0.95982 0.00047	11.35 0.93969 0.00048	11.05 0.94270 0.00047
12.20 0.96535 0.00048	11.40 0.94309 0.00048	11.10 0.94475 0.00049
12.30 0.97247 0.00048	11.45 0.94733 0.00049	11.15 0.94854 0.00050
12.40 0.97834 0.00046	11.50 0.95069 0.00047	11.20 0.95153 0.00049
12.50 0.98494 0.00046	11.55 0.95337 0.00048	11.25 0.95589 0.00049
12.60 0.98955 0.00047	11.60 0.95666 0.00048	11.30 0.95807 0.00049
12.70 0.99624 0.00046	11.65 0.96055 0.00048	11.35 0.96172 0.00048
12.80 1.00077 0.00047	11.70 0.96310 0.00048	11.40 0.96593 0.00048
12.90 1.00582 0.00047	11.75 0.96633 0.00047	11.45 0.96881 0.00048
13.00 1.01169 0.00048	11.80 0.96980 0.00048	11.50 0.97292 0.00049
13.10 1.01766 0.00046	11.85 0.97334 0.00047	11.55 0.97505 0.00049
13.20 1.02299 0.00046	11.90 0.97674 0.00049	11.60 0.97996 0.00050
	11.95 0.97995 0.00047	11.65 0.98121 0.00049
	12.00 0.98307 0.00049	11.70 0.98618 0.00048
	12.05 0.98605 0.00048	11.75 0.98913 0.00048
	12.10 0.98813 0.00049	11.80 0.99184 0.00049
	12.15 0.99160 0.00048	11.85 0.99567 0.00048
	12.20 0.99435 0.00048	11.90 0.99887 0.00049
	12.25 0.99850 0.00046	11.95 1.00117 0.00048
	12.30 1.00106 0.00048	12.00 1.00570 0.00050
	12.35 1.00395 0.00048	12.05 1.00846 0.00049
	12.40 1.00638 0.00048	12.10 1.01087 0.00049
	12.45 1.00974 0.00048	12.15 1.01470 0.00050
	12.50 1.01261 0.00048	12.20 1.01715 0.00050
	12.55 1.01654 0.00050	12.25 1.02146 0.00048
	12.60 1.01845 0.00047	12.30 1.02389 0.00047

90	100	118
10.50 0.91812 0.00049	10.30 0.91639 0.00050	10.10 0.91972 0.00051
10.55 0.92186 0.00050	10.35 0.91941 0.00051	10.15 0.92201 0.00053
10.60 0.92621 0.00048	10.40 0.92345 0.00050	10.20 0.92647 0.00051
10.65 0.93033 0.00050	10.45 0.92716 0.00048	10.25 0.93033 0.00051
10.70 0.93251 0.00049	10.50 0.93162 0.00050	10.30 0.93489 0.00052
10.75 0.93744 0.00050	10.55 0.93522 0.00051	10.35 0.93832 0.00051
10.80 0.94030 0.00049	10.60 0.93920 0.00051	10.40 0.94190 0.00050
10.85 0.94394 0.00050	10.65 0.94236 0.00050	10.45 0.94630 0.00050
10.90 0.94768 0.00050	10.70 0.94750 0.00051	10.50 0.95013 0.00051
10.95 0.95058 0.00050	10.75 0.94973 0.00051	10.55 0.95438 0.00052
11.00 0.95457 0.00050	10.80 0.95362 0.00050	10.60 0.95797 0.00052
11.05 0.95875 0.00049	10.85 0.95769 0.00052	10.65 0.96209 0.00050
11.10 0.96195 0.00049	10.90 0.96138 0.00049	10.70 0.96603 0.00053

11.15 0.96499 0.00050	10.95 0.96508 0.00051	10.75 0.96996 0.00054
11.20 0.96836 0.00049	11.00 0.96929 0.00051	10.80 0.97220 0.00051
11.25 0.97159 0.00050	11.05 0.97262 0.00050	10.85 0.97759 0.00050
11.30 0.97624 0.00049	11.10 0.97608 0.00050	10.90 0.98149 0.00051
11.35 0.97917 0.00049	11.15 0.98032 0.00049	10.95 0.98301 0.00050
11.40 0.98283 0.00050	11.20 0.98372 0.00050	11.00 0.98779 0.00051
11.45 0.98708 0.00050	11.25 0.98626 0.00050	11.05 0.99176 0.00052
11.50 0.98992 0.00048	11.30 0.99013 0.00052	11.10 0.99543 0.00052
11.55 0.99438 0.00052	11.35 0.99256 0.00051	11.15 0.99902 0.00051
11.60 0.99535 0.00049	11.40 0.99544 0.00051	11.20 1.00293 0.00052
11.65 0.99993 0.00050	11.45 0.99989 0.00050	11.25 1.00534 0.00052
11.70 1.00234 0.00050	11.50 1.00337 0.00052	11.30 1.00944 0.00052
11.75 1.00638 0.00051	11.55 1.00674 0.00051	11.35 1.01231 0.00051
11.80 1.00969 0.00050	11.60 1.01044 0.00050	11.40 1.01645 0.00052
11.85 1.01295 0.00051	11.65 1.01449 0.00050	11.45 1.01955 0.00053
11.90 1.01649 0.00049	11.70 1.01607 0.00051	11.50 1.02362 0.00052
11.95 1.01932 0.00049	11.75 1.02006 0.00052	
12.00 1.02168 0.00050	11.80 1.02398 0.00051	

130	150	200
10.00 0.92063 0.00051	9.80 0.91603 0.00051	9.60 0.91862 0.00052
10.05 0.92534 0.00052	9.85 0.92155 0.00052	9.65 0.92172 0.00053
10.10 0.92842 0.00053	9.90 0.92446 0.00051	9.70 0.92592 0.00053
10.15 0.93277 0.00052	9.95 0.92881 0.00054	9.75 0.93145 0.00053
10.20 0.93721 0.00051	10.00 0.93302 0.00051	9.80 0.93539 0.00051
10.25 0.94102 0.00051	10.05 0.93801 0.00051	9.85 0.93937 0.00054
10.30 0.94510 0.00053	10.10 0.94235 0.00053	9.90 0.94317 0.00052
10.35 0.94957 0.00052	10.15 0.94567 0.00052	9.95 0.94698 0.00054
10.40 0.95301 0.00051	10.20 0.94979 0.00052	10.00 0.95152 0.00053
10.45 0.95650 0.00050	10.25 0.95367 0.00053	10.05 0.95580 0.00053
10.50 0.96038 0.00052	10.30 0.95807 0.00053	10.10 0.95987 0.00053
10.55 0.96417 0.00052	10.35 0.96127 0.00052	10.15 0.96390 0.00054
10.60 0.96886 0.00051	10.40 0.96571 0.00051	10.20 0.96761 0.00053
10.65 0.97169 0.00052	10.45 0.96899 0.00052	10.25 0.97185 0.00052
10.70 0.97608 0.00052	10.50 0.97300 0.00052	10.30 0.97531 0.00053
10.75 0.97817 0.00052	10.55 0.97631 0.00051	10.35 0.97978 0.00054
10.80 0.98311 0.00052	10.60 0.98095 0.00051	10.40 0.98501 0.00053
10.85 0.98745 0.00053	10.65 0.98498 0.00054	10.45 0.98873 0.00054
10.90 0.99037 0.00051	10.70 0.98851 0.00052	10.50 0.99078 0.00055
10.95 0.99407 0.00052	10.75 0.99276 0.00052	10.55 0.99560 0.00052
11.00 0.99751 0.00051	10.80 0.99576 0.00052	10.60 0.99916 0.00053
11.05 1.00043 0.00052	10.85 0.99983 0.00053	10.65 1.00225 0.00054
11.10 1.00506 0.00051	10.90 1.00378 0.00053	10.70 1.00728 0.00053
11.15 1.00949 0.00050	10.95 1.00782 0.00053	10.75 1.01102 0.00053
11.20 1.01278 0.00051	11.00 1.01104 0.00053	10.80 1.01480 0.00053
11.25 1.01656 0.00050	11.05 1.01516 0.00054	10.85 1.01807 0.00051
11.30 1.01998 0.00052	11.10 1.01712 0.00054	10.90 1.02169 0.00053
	11.15 1.02100 0.00054	
	11.20 1.02498 0.00053	

235	250	353
9.50 0.91551 0.00054	9.50 0.91772 0.00054	9.50 0.92198 0.00054
9.55 0.92043 0.00054	9.55 0.92265 0.00052	9.55 0.92536 0.00052
9.60 0.92601 0.00053	9.60 0.92667 0.00054	9.60 0.93008 0.00054
9.65 0.92854 0.00053	9.65 0.93091 0.00053	9.65 0.93405 0.00053
9.70 0.93307 0.00053	9.70 0.93595 0.00053	9.70 0.93899 0.00054
9.75 0.93705 0.00053	9.75 0.93889 0.00054	9.75 0.94262 0.00053
9.80 0.94148 0.00052	9.80 0.94381 0.00054	9.80 0.94646 0.00054
9.85 0.94593 0.00053	9.85 0.94778 0.00051	9.85 0.95131 0.00053
9.90 0.95088 0.00054	9.90 0.95164 0.00054	9.90 0.95485 0.00054
9.95 0.95451 0.00053	9.95 0.95573 0.00053	9.95 0.95765 0.00054
10.00 0.95843 0.00053	10.00 0.96007 0.00053	10.00 0.96322 0.00054
10.05 0.96317 0.00052	10.05 0.96438 0.00053	10.05 0.96774 0.00054
10.10 0.96614 0.00053	10.10 0.96837 0.00055	10.10 0.97276 0.00054
10.15 0.97167 0.00052	10.15 0.97313 0.00053	10.15 0.97566 0.00053
10.20 0.97536 0.00053	10.20 0.97656 0.00054	10.20 0.98026 0.00055
10.25 0.97915 0.00054	10.25 0.98117 0.00055	10.25 0.98353 0.00054
10.30 0.98292 0.00052	10.30 0.98470 0.00053	10.30 0.98752 0.00053
10.35 0.98656 0.00054	10.35 0.98878 0.00055	10.35 0.99225 0.00053
10.40 0.99020 0.00053	10.40 0.99140 0.00053	10.40 0.99510 0.00054
10.45 0.99489 0.00052	10.45 0.99582 0.00055	10.45 0.99926 0.00052
10.50 0.99817 0.00054	10.50 1.00020 0.00054	10.50 1.00273 0.00055
10.55 1.00245 0.00053	10.55 1.00481 0.00055	10.55 1.00784 0.00053
10.60 1.00643 0.00053	10.60 1.00829 0.00053	10.60 1.01063 0.00054
10.65 1.00909 0.00053	10.65 1.01221 0.00055	10.65 1.01455 0.00055
10.70 1.01349 0.00054	10.70 1.01519 0.00053	10.70 1.01790 0.00054
10.80 1.02171 0.00054	10.75 1.01878 0.00052	10.75 1.02213 0.00054
	10.80 1.02347 0.00053	10.80 1.02579 0.00053

470	500	600
9.50 0.91632 0.00053	9.50 0.91493 0.00051	9.70 0.92081 0.00054
9.55 0.92065 0.00053	9.55 0.91884 0.00052	9.75 0.92463 0.00052
9.60 0.92435 0.00054	9.60 0.92275 0.00054	9.80 0.92857 0.00052
9.65 0.92961 0.00053	9.65 0.92665 0.00052	9.85 0.93329 0.00053
9.70 0.93297 0.00054	9.70 0.93135 0.00053	9.90 0.93747 0.00053
9.75 0.93690 0.00052	9.75 0.93560 0.00053	9.95 0.94023 0.00051
9.80 0.94257 0.00053	9.80 0.93895 0.00055	10.00 0.94516 0.00054
9.85 0.94528 0.00055	9.85 0.94334 0.00051	10.05 0.94832 0.00052
9.90 0.94983 0.00055	9.90 0.94745 0.00054	10.10 0.95332 0.00052
9.95 0.95371 0.00054	9.95 0.95210 0.00053	10.15 0.95665 0.00053
10.00 0.95910 0.00054	10.00 0.95603 0.00052	10.20 0.95992 0.00052
10.05 0.96187 0.00053	10.05 0.95953 0.00052	10.25 0.96416 0.00052
10.10 0.96531 0.00053	10.10 0.96421 0.00053	10.30 0.96836 0.00052
10.15 0.96987 0.00053	10.15 0.96774 0.00053	10.35 0.97155 0.00053
10.20 0.97432 0.00054	10.20 0.97303 0.00053	10.40 0.97627 0.00053
10.25 0.97686 0.00054	10.25 0.97652 0.00052	10.45 0.97935 0.00053

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10.30 0.98252 0.00054	10.30 0.98019 0.00053	10.50 0.98454 0.00054
10.35 0.98598 0.00054	10.35 0.98380 0.00053	10.55 0.98743 0.00055
10.40 0.98972 0.00055	10.40 0.98702 0.00055	10.60 0.99142 0.00055
10.45 0.99271 0.00054	10.45 0.99183 0.00053	10.65 0.99429 0.00053
10.50 0.99753 0.00053	10.50 0.99416 0.00052	10.70 0.99690 0.00054
10.55 1.00162 0.00052	10.55 0.99692 0.00054	10.75 1.00230 0.00053
10.60 1.00512 0.00053	10.60 1.00284 0.00052	10.80 1.00580 0.00052
10.65 1.00782 0.00054	10.65 1.00589 0.00053	10.85 1.01041 0.00053
10.70 1.01081 0.00054	10.70 1.00979 0.00055	10.90 1.01297 0.00053
10.75 1.01557 0.00053	10.75 1.01325 0.00052	10.95 1.01657 0.00052
10.80 1.02060 0.00056	10.80 1.01572 0.00054	11.00 1.02014 0.00053
10.85 1.02294 0.00056	10.85 1.02105 0.00053	
10.90 1.02680 0.00055	10.90 1.02444 0.00055	

605	610	615
9.70 0.92025 0.00052	9.70 0.92011 0.00053	9.70 0.91953 0.00052
9.75 0.92426 0.00052	9.75 0.92460 0.00052	9.75 0.92422 0.00052
9.80 0.92850 0.00054	9.80 0.92914 0.00053	9.80 0.92849 0.00053
9.85 0.93251 0.00053	9.85 0.93106 0.00053	9.85 0.93199 0.00053
9.90 0.93695 0.00052	9.90 0.93623 0.00052	9.90 0.93574 0.00051
9.95 0.94102 0.00052	9.95 0.94019 0.00053	9.95 0.94013 0.00053
10.00 0.94368 0.00052	10.00 0.94530 0.00052	10.00 0.94387 0.00053
10.05 0.94876 0.00054	10.05 0.94873 0.00051	10.05 0.94813 0.00055
10.10 0.95236 0.00054	10.10 0.95198 0.00054	10.10 0.95238 0.00053
10.15 0.95590 0.00053	10.15 0.95540 0.00053	10.15 0.95503 0.00054
10.20 0.96065 0.00052	10.20 0.96028 0.00053	10.20 0.95896 0.00052
10.25 0.96391 0.00053	10.25 0.96342 0.00053	10.25 0.96379 0.00051
10.30 0.96846 0.00052	10.30 0.96729 0.00054	10.30 0.96656 0.00053
10.35 0.97115 0.00054	10.35 0.97059 0.00054	10.35 0.97090 0.00052
10.40 0.97627 0.00052	10.40 0.97420 0.00054	10.40 0.97502 0.00052
10.45 0.97966 0.00054	10.45 0.97956 0.00052	10.45 0.97878 0.00054
10.50 0.98357 0.00053	10.50 0.98336 0.00052	10.50 0.98186 0.00051
10.55 0.98739 0.00053	10.55 0.98604 0.00052	10.55 0.98632 0.00051
10.60 0.99188 0.00055	10.60 0.98968 0.00054	10.60 0.99025 0.00053
10.65 0.99505 0.00053	10.65 0.99357 0.00052	10.65 0.99317 0.00053
10.70 0.99828 0.00053	10.70 0.99653 0.00053	10.70 0.99613 0.00054
10.75 1.00208 0.00054	10.75 1.00115 0.00055	10.75 1.00015 0.00055
10.80 1.00587 0.00055	10.80 1.00448 0.00053	10.80 1.00346 0.00052
10.85 1.00835 0.00054	10.85 1.00883 0.00052	10.85 1.00797 0.00053
10.90 1.01347 0.00054	10.90 1.01178 0.00053	10.90 1.01152 0.00053
10.95 1.01668 0.00053	10.95 1.01570 0.00054	10.95 1.01549 0.00054
11.00 1.02067 0.00053	11.00 1.01948 0.00053	11.00 1.01929 0.00052
	11.05 1.02312 0.00053	
	11.10 1.02654 0.00056	

620	625	629
9.70 0.91944 0.00052	9.70 0.91721 0.00051	9.70 0.91788 0.00053
9.75 0.92240 0.00052	9.75 0.92196 0.00053	9.75 0.92163 0.00053
9.80 0.92607 0.00052	9.80 0.92659 0.00052	9.80 0.92662 0.00052
9.90 0.93480 0.00051	9.85 0.93065 0.00052	9.85 0.93039 0.00052
9.95 0.93897 0.00052	9.90 0.93372 0.00054	9.90 0.93343 0.00054
10.00 0.94211 0.00052	9.95 0.93836 0.00054	9.95 0.93693 0.00052
10.05 0.94646 0.00053	10.00 0.94183 0.00054	10.00 0.94206 0.00054
10.10 0.94989 0.00053	10.05 0.94581 0.00053	10.05 0.94554 0.00053
10.15 0.95585 0.00053	10.10 0.94961 0.00051	10.10 0.94947 0.00053
10.20 0.95816 0.00052	10.15 0.95425 0.00052	10.15 0.95253 0.00052
10.25 0.96143 0.00054	10.20 0.95809 0.00053	10.20 0.95720 0.00053
10.30 0.96601 0.00052	10.25 0.96174 0.00053	10.25 0.96022 0.00052
10.35 0.96964 0.00052	10.30 0.96587 0.00052	10.30 0.96506 0.00051
10.40 0.97410 0.00053	10.35 0.97015 0.00053	10.35 0.96820 0.00052
10.45 0.97617 0.00052	10.40 0.97258 0.00052	10.40 0.97272 0.00054
10.50 0.98114 0.00054	10.45 0.97654 0.00053	10.45 0.97623 0.00052
10.55 0.98443 0.00053	10.50 0.98112 0.00052	10.50 0.98046 0.00052
10.60 0.98880 0.00054	10.55 0.98454 0.00052	10.55 0.98403 0.00053
10.65 0.99249 0.00053	10.60 0.98825 0.00053	10.60 0.98690 0.00053
10.70 0.99618 0.00054	10.65 0.99165 0.00053	10.65 0.99039 0.00053
10.75 0.99969 0.00055	10.70 0.99597 0.00054	10.70 0.99479 0.00054
10.80 1.00287 0.00053	10.75 0.99960 0.00052	10.75 0.99812 0.00053
10.85 1.00672 0.00053	10.80 1.00284 0.00053	10.80 1.00193 0.00052
10.90 1.01112 0.00053	10.85 1.00663 0.00054	10.85 1.00572 0.00054
10.95 1.01398 0.00054	10.90 1.00961 0.00054	10.90 1.00910 0.00052
11.00 1.01696 0.00052	10.95 1.01337 0.00051	10.95 1.01357 0.00054
	11.00 1.01687 0.00051	11.00 1.01587 0.00052
	11.05 1.02082 0.00054	11.05 1.01970 0.00053
	11.10 1.02335 0.00053	11.10 1.02204 0.00053

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12	15	20
41.00 0.91144 0.00018	26.30 0.92578 0.00024	18.40 0.92411 0.00031
41.70 0.91386 0.00018	26.90 0.93187 0.00024	18.60 0.92872 0.00029
42.40 0.91581 0.00018	27.50 0.93813 0.00024	18.80 0.93267 0.00029
43.10 0.91748 0.00018	28.10 0.94366 0.00023	19.00 0.93813 0.00030
43.80 0.92024 0.00018	28.70 0.94777 0.00023	19.20 0.94145 0.00030
44.50 0.92201 0.00017	29.30 0.95331 0.00023	19.40 0.94578 0.00029
45.20 0.92339 0.00017	29.90 0.95710 0.00024	19.60 0.94952 0.00030
45.90 0.92614 0.00017	30.50 0.96221 0.00023	19.80 0.95335 0.00029
46.60 0.92722 0.00017	31.10 0.96660 0.00022	20.00 0.95800 0.00030
47.30 0.92928 0.00017	31.70 0.97107 0.00022	20.20 0.96156 0.00030
48.00 0.93062 0.00016	32.30 0.97421 0.00023	20.40 0.96556 0.00029
48.70 0.93188 0.00018	32.90 0.97927 0.00021	20.60 0.96857 0.00029
49.40 0.93325 0.00017	33.50 0.98185 0.00022	20.80 0.97299 0.00029
50.10 0.93500 0.00017	34.10 0.98482 0.00022	21.00 0.97589 0.00029
50.80 0.93642 0.00016	34.70 0.98888 0.00021	21.20 0.97955 0.00028
51.50 0.93755 0.00017	35.30 0.99197 0.00021	21.40 0.98265 0.00028
52.20 0.93895 0.00016	35.90 0.99546 0.00021	21.60 0.98555 0.00029
52.90 0.94021 0.00016	36.50 0.99865 0.00021	21.80 0.98927 0.00028
53.60 0.94171 0.00016	37.10 1.00067 0.00021	22.00 0.99324 0.00029
54.30 0.94210 0.00016	37.70 1.00394 0.00020	22.20 0.99618 0.00028
55.00 0.94379 0.00016	38.30 1.00667 0.00020	22.40 0.99918 0.00029
55.70 0.94492 0.00015	38.70 1.00812 0.00020	22.60 1.00261 0.00028
56.00 0.94526 0.00016		22.80 1.00571 0.00029
		23.00 1.00924 0.00029
		23.20 1.01159 0.00028
		23.40 1.01449 0.00029

25	30	32
15.40 0.92349 0.00034	13.80 0.92419 0.00036	13.30 0.92431 0.00038
15.50 0.92746 0.00033	13.90 0.92883 0.00036	13.40 0.92780 0.00037
15.60 0.93031 0.00034	14.00 0.93309 0.00037	13.50 0.93189 0.00037
15.70 0.93359 0.00032	14.10 0.93671 0.00036	13.60 0.93651 0.00037
15.80 0.93693 0.00034	14.20 0.94070 0.00037	13.70 0.94095 0.00037
15.90 0.93961 0.00034	14.30 0.94472 0.00037	13.80 0.94524 0.00038
16.00 0.94280 0.00034	14.40 0.94910 0.00036	13.90 0.94855 0.00037
16.10 0.94609 0.00034	14.50 0.95337 0.00036	14.00 0.95267 0.00037
16.20 0.94899 0.00034	14.60 0.95575 0.00036	14.10 0.95747 0.00038
16.30 0.95187 0.00034	14.70 0.96004 0.00037	14.20 0.96094 0.00037
16.40 0.95508 0.00033	14.80 0.96336 0.00035	14.30 0.96394 0.00037
16.50 0.95743 0.00034	14.90 0.96681 0.00036	14.40 0.96873 0.00037
16.60 0.96146 0.00034	15.00 0.96941 0.00036	14.50 0.97286 0.00037
16.70 0.96368 0.00033	15.10 0.97396 0.00035	14.60 0.97661 0.00037
16.80 0.96669 0.00033	15.20 0.97703 0.00036	14.70 0.97957 0.00037
16.90 0.96874 0.00034	15.30 0.98036 0.00036	14.80 0.98369 0.00037
17.00 0.97166 0.00033	15.40 0.98425 0.00035	14.90 0.98671 0.00036
17.10 0.97490 0.00033	15.50 0.98800 0.00036	15.00 0.99076 0.00037

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17.20 0.97724 0.00034	15.60 0.99146 0.00036	15.10 0.99463 0.00036
17.30 0.97959 0.00033	15.70 0.99473 0.00037	15.20 0.99774 0.00035
17.40 0.98289 0.00033	15.80 0.99746 0.00036	15.30 1.00196 0.00038
17.50 0.98492 0.00033	15.90 1.00115 0.00034	15.40 1.00572 0.00036
17.60 0.98824 0.00033	16.00 1.00384 0.00035	15.50 1.00831 0.00037
17.70 0.99060 0.00033	16.10 1.00751 0.00035	15.60 1.01201 0.00037
17.80 0.99276 0.00033	16.20 1.01009 0.00035	15.70 1.01572 0.00037
17.90 0.99595 0.00033	16.30 1.01308 0.00036	15.80 1.01855 0.00036
18.00 0.99844 0.00033	16.40 1.01672 0.00036	
18.10 1.00079 0.00033		
18.20 1.00317 0.00032		
18.30 1.00610 0.00032		
18.40 1.00789 0.00032		
18.50 1.00996 0.00033		
18.60 1.01275 0.00032		
18.70 1.01539 0.00032		

35	40	50
12.70 0.92249 0.00037	11.90 0.91951 0.00041	11.00 0.92308 0.00042
12.80 0.92777 0.00039	12.00 0.92482 0.00039	11.10 0.92921 0.00042
12.90 0.93228 0.00040	12.10 0.93034 0.00040	11.20 0.93432 0.00042
13.00 0.93634 0.00038	12.20 0.93522 0.00040	11.30 0.94038 0.00043
13.10 0.94081 0.00039	12.30 0.93965 0.00039	11.40 0.94631 0.00042
13.20 0.94575 0.00037	12.40 0.94510 0.00039	11.50 0.95300 0.00042
13.30 0.95013 0.00038	12.50 0.94969 0.00038	11.60 0.95765 0.00042
13.40 0.95466 0.00038	12.60 0.95481 0.00039	11.70 0.96394 0.00041
13.50 0.95877 0.00039	12.70 0.95963 0.00039	11.80 0.96884 0.00042
13.60 0.96383 0.00038	12.80 0.96494 0.00038	11.90 0.97444 0.00041
13.70 0.96793 0.00037	12.90 0.96958 0.00039	12.00 0.97929 0.00041
13.80 0.97166 0.00038	13.00 0.97481 0.00040	12.10 0.98508 0.00043
13.90 0.97597 0.00038	13.10 0.97838 0.00040	12.20 0.99019 0.00041
14.00 0.97975 0.00038	13.20 0.98258 0.00039	12.30 0.99614 0.00042
14.10 0.98362 0.00038	13.30 0.98790 0.00039	12.40 1.00220 0.00042
14.20 0.98741 0.00038	13.40 0.99204 0.00039	12.50 1.00647 0.00041
14.30 0.99245 0.00038	13.50 0.99650 0.00039	12.60 1.01139 0.00041
14.40 0.99590 0.00037	13.60 1.00125 0.00039	12.70 1.01552 0.00041
14.50 1.00060 0.00037	13.70 1.00563 0.00038	12.80 1.02093 0.00042
14.60 1.00293 0.00038	13.80 1.01001 0.00039	
14.70 1.00676 0.00038	13.90 1.01448 0.00040	
14.80 1.01065 0.00039	14.00 1.01890 0.00038	
14.90 1.01438 0.00036		
15.00 1.01906 0.00038		

60	70	80
10.30 0.91732 0.00043	9.90 0.91875 0.00044	9.60 0.91942 0.00045
10.35 0.92068 0.00043	9.95 0.92318 0.00044	9.65 0.92326 0.00045
10.40 0.92381 0.00043	10.00 0.92583 0.00044	9.70 0.92720 0.00045

10.45 0.92724 0.00043	10.05 0.92915 0.00044	9.75 0.93009 0.00044
10.50 0.93084 0.00042	10.10 0.93330 0.00044	9.80 0.93474 0.00045
10.55 0.93382 0.00044	10.15 0.93658 0.00046	9.85 0.93832 0.00044
10.60 0.93745 0.00043	10.20 0.93924 0.00045	9.90 0.94198 0.00045
10.65 0.94034 0.00042	10.25 0.94325 0.00045	9.95 0.94535 0.00045
10.70 0.94345 0.00043	10.30 0.94742 0.00044	10.00 0.94872 0.00046
10.75 0.94607 0.00043	10.35 0.94986 0.00044	10.05 0.95220 0.00045
10.80 0.95042 0.00044	10.40 0.95386 0.00045	10.10 0.95633 0.00046
10.85 0.95353 0.00044	10.45 0.95701 0.00046	10.15 0.95900 0.00046
10.90 0.95656 0.00043	10.50 0.95966 0.00046	10.20 0.96317 0.00047
10.95 0.95873 0.00043	10.55 0.96330 0.00044	10.25 0.96753 0.00046
11.00 0.96220 0.00043	10.60 0.96639 0.00044	10.30 0.97032 0.00046
11.05 0.96570 0.00043	10.65 0.97003 0.00045	10.35 0.97466 0.00047
11.10 0.96891 0.00044	10.75 0.97575 0.00045	10.40 0.97686 0.00045
11.15 0.97140 0.00044	10.80 0.97989 0.00044	10.45 0.98058 0.00045
11.20 0.97462 0.00043	10.85 0.98261 0.00046	10.50 0.98310 0.00045
11.25 0.97805 0.00044	10.90 0.98657 0.00046	10.55 0.98750 0.00044
11.30 0.98114 0.00043	10.95 0.98894 0.00044	10.60 0.99019 0.00045
11.35 0.98392 0.00044	11.00 0.99247 0.00044	10.65 0.99330 0.00045
11.40 0.98727 0.00044	11.05 0.99608 0.00043	10.70 0.99670 0.00046
11.45 0.99048 0.00042	11.10 0.99857 0.00044	10.75 1.00066 0.00046
11.50 0.99209 0.00043	11.15 1.00137 0.00045	10.80 1.00367 0.00046
11.55 0.99557 0.00044	11.20 1.00478 0.00045	10.85 1.00669 0.00045
11.60 0.99849 0.00044	11.25 1.00783 0.00046	10.90 1.01005 0.00045
11.65 1.00212 0.00044	11.30 1.00990 0.00045	10.95 1.01380 0.00044
11.70 1.00358 0.00044	11.35 1.01382 0.00043	11.00 1.01690 0.00046
11.75 1.00737 0.00043	11.40 1.01694 0.00044	11.05 1.01985 0.00047
11.80 1.00922 0.00043	11.45 1.01996 0.00044	11.10 1.02311 0.00045
11.85 1.01327 0.00043	11.50 1.02274 0.00044	
11.90 1.01494 0.00043		
11.95 1.01804 0.00044		
12.00 1.02036 0.00044		

90	100	118
9.40 0.92259 0.00045	9.20 0.92190 0.00046	8.90 0.91735 0.00047
9.45 0.92686 0.00046	9.25 0.92488 0.00046	8.95 0.92161 0.00047
9.50 0.92926 0.00046	9.30 0.92844 0.00047	9.00 0.92666 0.00046
9.55 0.93395 0.00046	9.35 0.93275 0.00046	9.05 0.92922 0.00048
9.60 0.93783 0.00046	9.40 0.93742 0.00047	9.10 0.93470 0.00047
9.65 0.94224 0.00044	9.45 0.94051 0.00047	9.15 0.93824 0.00046
9.70 0.94459 0.00046	9.50 0.94471 0.00046	9.20 0.94283 0.00048
9.75 0.94968 0.00046	9.55 0.94887 0.00047	9.25 0.94599 0.00047
9.80 0.95297 0.00047	9.60 0.95199 0.00046	9.30 0.94996 0.00046
9.85 0.95621 0.00047	9.65 0.95564 0.00045	9.35 0.95421 0.00048
9.90 0.96034 0.00046	9.70 0.95999 0.00046	9.40 0.95773 0.00048
9.95 0.96430 0.00046	9.75 0.96347 0.00047	9.45 0.96147 0.00048
10.00 0.96732 0.00048	9.80 0.96715 0.00046	9.50 0.96516 0.00049
10.05 0.97098 0.00046	9.85 0.97140 0.00047	9.55 0.96919 0.00048
10.10 0.97454 0.00047	9.90 0.97521 0.00045	9.60 0.97326 0.00047

10.15 0.97848 0.00047	9.95 0.97908 0.00046	9.65 0.97605 0.00047
10.20 0.98115 0.00046	10.00 0.98201 0.00045	9.70 0.98079 0.00048
10.25 0.98538 0.00047	10.05 0.98502 0.00048	9.75 0.98433 0.00048
10.30 0.98950 0.00046	10.10 0.98990 0.00047	9.80 0.98731 0.00048
10.35 0.99332 0.00046	10.15 0.99270 0.00046	9.85 0.99303 0.00048
10.40 0.99592 0.00045	10.20 0.99628 0.00046	9.90 0.99607 0.00048
10.45 0.99849 0.00047	10.25 0.99900 0.00047	9.95 0.99947 0.00048
10.50 1.00353 0.00046	10.30 1.00373 0.00046	10.00 1.00229 0.00047
10.55 1.00629 0.00047	10.35 1.00716 0.00048	10.05 1.00742 0.00048
10.60 1.00876 0.00047	10.40 1.01013 0.00045	10.10 1.01052 0.00047
10.65 1.01296 0.00046	10.45 1.01468 0.00047	10.15 1.01369 0.00048
10.70 1.01625 0.00046	10.50 1.01678 0.00047	10.20 1.01760 0.00047
10.75 1.01857 0.00047	10.55 1.02039 0.00047	10.25 1.02113 0.00048
10.80 1.02147 0.00047	10.60 1.02489 0.00048	10.30 1.02415 0.00048

130	150	200
8.80 0.92102 0.00048	8.60 0.91813 0.00048	8.40 0.92258 0.00048
8.85 0.92508 0.00048	8.65 0.92227 0.00048	8.45 0.92691 0.00048
8.90 0.92918 0.00047	8.70 0.92648 0.00047	8.50 0.93095 0.00047
8.95 0.93365 0.00049	8.75 0.93097 0.00049	8.55 0.93502 0.00049
9.00 0.93792 0.00048	8.80 0.93412 0.00048	8.60 0.93968 0.00049
9.05 0.94066 0.00048	8.85 0.93882 0.00049	8.65 0.94449 0.00047
9.10 0.94548 0.00047	8.90 0.94331 0.00048	8.70 0.94848 0.00048
9.15 0.94897 0.00049	8.95 0.94747 0.00048	8.75 0.95297 0.00048
9.20 0.95280 0.00049	9.00 0.95150 0.00049	8.80 0.95660 0.00049
9.25 0.95770 0.00048	9.05 0.95505 0.00049	8.85 0.96029 0.00049
9.30 0.96233 0.00047	9.10 0.95959 0.00048	8.90 0.96522 0.00050
9.35 0.96578 0.00047	9.15 0.96400 0.00049	8.95 0.96963 0.00049
9.40 0.96936 0.00048	9.20 0.96772 0.00048	9.00 0.97360 0.00049
9.45 0.97319 0.00048	9.25 0.97180 0.00048	9.05 0.97750 0.00049
9.50 0.97701 0.00048	9.30 0.97570 0.00048	9.10 0.98164 0.00049
9.55 0.98134 0.00048	9.35 0.97962 0.00048	9.15 0.98581 0.00049
9.60 0.98501 0.00048	9.40 0.98412 0.00048	9.20 0.98986 0.00049
9.65 0.98841 0.00047	9.45 0.98772 0.00048	9.25 0.99359 0.00049
9.70 0.99243 0.00048	9.50 0.99155 0.00049	9.30 0.99709 0.00048
9.75 0.99589 0.00049	9.55 0.99517 0.00049	9.35 1.00170 0.00050
9.80 1.00032 0.00047	9.60 0.99866 0.00049	9.40 1.00575 0.00047
9.85 1.00424 0.00048	9.65 1.00346 0.00048	9.45 1.00934 0.00048
9.90 1.00716 0.00049	9.70 1.00700 0.00049	9.50 1.01338 0.00048
9.95 1.01064 0.00048	9.75 1.01007 0.00049	9.55 1.01756 0.00050
10.00 1.01525 0.00048	9.80 1.01281 0.00049	9.60 1.02201 0.00049
10.05 1.01876 0.00050	9.85 1.01727 0.00049	
10.10 1.02157 0.00049	9.90 1.02203 0.00048	

235	250	353
8.30 0.92235 0.00047	8.20 0.91627 0.00048	8.10 0.91637 0.00048
8.35 0.92673 0.00049	8.25 0.92115 0.00049	8.15 0.92089 0.00049
8.40 0.93146 0.00048	8.30 0.92511 0.00049	8.20 0.92464 0.00049
8.45 0.93562 0.00050	8.35 0.92937 0.00049	8.25 0.93016 0.00050
8.50 0.93990 0.00049	8.40 0.93371 0.00049	8.30 0.93365 0.00048
8.55 0.94464 0.00050	8.45 0.93814 0.00050	8.35 0.93849 0.00050
8.65 0.95207 0.00048	8.50 0.94340 0.00050	8.40 0.94174 0.00051
8.70 0.95652 0.00049	8.55 0.94668 0.00050	8.45 0.94597 0.00050
8.75 0.96112 0.00049	8.60 0.95174 0.00049	8.50 0.95129 0.00049
8.80 0.96540 0.00050	8.65 0.95442 0.00049	8.55 0.95534 0.00050
8.85 0.96944 0.00050	8.70 0.95942 0.00050	8.60 0.95927 0.00049
8.90 0.97387 0.00049	8.75 0.96405 0.00049	8.65 0.96406 0.00050
8.95 0.97834 0.00048	8.80 0.96778 0.00048	8.70 0.96776 0.00048
9.00 0.98285 0.00049	8.85 0.97240 0.00050	8.75 0.97137 0.00049
9.05 0.98554 0.00049	8.90 0.97619 0.00051	8.80 0.97618 0.00050
9.10 0.99086 0.00049	8.95 0.98024 0.00050	8.85 0.98017 0.00051
9.15 0.99365 0.00049	9.00 0.98424 0.00049	8.90 0.98492 0.00050
9.20 0.99806 0.00048	9.05 0.98836 0.00049	8.95 0.98862 0.00050
9.25 1.00224 0.00049	9.10 0.99355 0.00048	9.00 0.99162 0.00051
9.30 1.00655 0.00049	9.15 0.99640 0.00049	9.05 0.99617 0.00050
9.35 1.01054 0.00049	9.20 1.00121 0.00051	9.10 1.00038 0.00050
9.40 1.01376 0.00049	9.25 1.00535 0.00049	9.15 1.00468 0.00050
9.45 1.01807 0.00049	9.30 1.00951 0.00051	9.20 1.00842 0.00050
9.50 1.02090 0.00051	9.35 1.01308 0.00050	9.25 1.01300 0.00051
	9.40 1.01686 0.00048	9.30 1.01680 0.00049
	9.45 1.01921 0.00050	9.35 1.02003 0.00050
	9.50 1.02425 0.00049	9.40 1.02398 0.00050

470	500	600
8.10 0.91571 0.00048	8.10 0.91463 0.00048	8.20 0.91771 0.00047
8.15 0.92122 0.00049	8.15 0.91894 0.00049	8.25 0.92131 0.00050
8.20 0.92372 0.00049	8.20 0.92380 0.00048	8.30 0.92547 0.00048
8.25 0.92885 0.00048	8.25 0.92821 0.00050	8.35 0.92932 0.00049
8.30 0.93293 0.00049	8.30 0.93247 0.00049	8.40 0.93448 0.00048
8.35 0.93762 0.00050	8.35 0.93693 0.00050	8.45 0.93744 0.00049
8.40 0.94120 0.00049	8.40 0.94068 0.00048	8.50 0.94283 0.00049
8.45 0.94541 0.00050	8.45 0.94512 0.00048	8.55 0.94559 0.00048
8.50 0.94970 0.00048	8.50 0.94922 0.00050	8.60 0.95086 0.00050
8.55 0.95496 0.00048	8.55 0.95229 0.00050	8.65 0.95424 0.00049
8.60 0.95801 0.00051	8.60 0.95818 0.00049	8.70 0.95856 0.00049
8.65 0.96260 0.00048	8.65 0.96192 0.00049	8.75 0.96336 0.00050
8.70 0.96750 0.00050	8.70 0.96614 0.00051	8.80 0.96633 0.00049
8.75 0.97089 0.00049	8.75 0.96988 0.00050	8.85 0.97071 0.00048
8.80 0.97509 0.00050	8.80 0.97344 0.00049	8.90 0.97468 0.00050
8.85 0.97826 0.00049	8.85 0.97767 0.00049	8.95 0.97819 0.00051
8.90 0.98281 0.00049	8.90 0.98118 0.00050	9.00 0.98262 0.00048
8.95 0.98623 0.00049	8.95 0.98529 0.00049	9.05 0.98613 0.00049
9.00 0.99072 0.00050	9.00 0.98935 0.00049	9.10 0.98986 0.00048

9.05 0.99467 0.00049	9.05 0.99403 0.00050	9.15 0.99412 0.00051
9.10 0.99984 0.00050	9.10 0.99753 0.00049	9.20 0.99748 0.00050
9.15 1.00247 0.00050	9.15 1.00145 0.00049	9.25 1.00135 0.00049
9.20 1.00604 0.00051	9.20 1.00543 0.00051	9.30 1.00486 0.00050
9.25 1.01029 0.00050	9.25 1.00961 0.00051	9.35 1.00913 0.00049
9.30 1.01394 0.00050	9.30 1.01327 0.00048	9.40 1.01304 0.00050
9.35 1.01697 0.00050	9.35 1.01715 0.00050	9.45 1.01603 0.00048
9.40 1.02182 0.00050	9.40 1.02078 0.00049	9.50 1.01984 0.00051

605	610	615
8.20 0.91750 0.00048	8.20 0.91762 0.00049	8.20 0.91694 0.00049
8.25 0.92066 0.00049	8.25 0.92162 0.00048	8.25 0.92007 0.00049
8.30 0.92560 0.00048	8.30 0.92464 0.00048	8.30 0.92482 0.00049
8.35 0.92974 0.00050	8.35 0.92916 0.00049	8.35 0.92931 0.00051
8.40 0.93416 0.00048	8.40 0.93326 0.00048	8.40 0.93314 0.00048
8.45 0.93740 0.00049	8.45 0.93739 0.00050	8.45 0.93708 0.00049
8.50 0.94238 0.00048	8.50 0.94184 0.00049	8.50 0.94129 0.00049
8.55 0.94591 0.00049	8.55 0.94536 0.00050	8.55 0.94524 0.00048
8.60 0.95004 0.00048	8.60 0.94905 0.00050	8.60 0.94997 0.00048
8.65 0.95334 0.00048	8.65 0.95460 0.00048	8.65 0.95368 0.00049
8.70 0.95814 0.00048	8.70 0.95894 0.00048	8.70 0.95772 0.00050
8.75 0.96276 0.00049	8.75 0.96205 0.00050	8.75 0.96166 0.00050
8.80 0.96639 0.00048	8.80 0.96581 0.00048	8.80 0.96638 0.00049
8.85 0.97087 0.00049	8.85 0.97089 0.00049	8.85 0.96978 0.00049
8.90 0.97398 0.00049	8.90 0.97380 0.00048	8.90 0.97303 0.00049
8.95 0.97780 0.00049	8.95 0.97707 0.00049	8.95 0.97733 0.00049
9.00 0.98187 0.00050	9.00 0.98215 0.00048	9.00 0.98094 0.00049
9.05 0.98565 0.00050	9.05 0.98452 0.00050	9.05 0.98567 0.00049
9.10 0.98941 0.00048	9.10 0.98873 0.00049	9.10 0.98880 0.00050
9.15 0.99307 0.00049	9.15 0.99359 0.00050	9.15 0.99248 0.00050
9.20 0.99704 0.00048	9.20 0.99687 0.00049	9.20 0.99633 0.00049
9.25 1.00044 0.00049	9.25 1.00033 0.00050	9.25 1.00128 0.00049
9.30 1.00435 0.00049	9.30 1.00520 0.00050	9.30 1.00321 0.00051
9.35 1.00796 0.00049	9.35 1.00832 0.00048	9.35 1.00735 0.00050
9.40 1.01204 0.00049	9.40 1.01147 0.00050	9.40 1.01260 0.00049
9.45 1.01533 0.00050	9.45 1.01544 0.00048	9.45 1.01539 0.00050
9.50 1.01883 0.00050	9.50 1.01942 0.00049	9.50 1.01878 0.00049
9.55 1.02297 0.00050		
9.60 1.02663 0.00050		

620	625	629
8.20 0.91571 0.00049	8.20 0.91459 0.00049	8.30 0.92284 0.00049
8.25 0.92024 0.00048	8.25 0.92046 0.00050	8.35 0.92717 0.00049
8.30 0.92414 0.00048	8.30 0.92450 0.00050	8.40 0.93172 0.00048
8.35 0.92871 0.00049	8.35 0.92786 0.00048	8.45 0.93578 0.00048
8.40 0.93272 0.00049	8.40 0.93234 0.00049	8.50 0.93982 0.00048
8.45 0.93591 0.00049	8.45 0.93624 0.00048	8.55 0.94408 0.00047

8.50 0.94075 0.00049	8.50 0.94111 0.00049	8.60 0.94844 0.00049
8.55 0.94390 0.00048	8.55 0.94407 0.00049	8.65 0.95071 0.00050
8.60 0.94842 0.00047	8.60 0.94818 0.00049	8.70 0.95509 0.00048
8.65 0.95288 0.00050	8.65 0.95319 0.00049	8.75 0.95909 0.00049
8.70 0.95611 0.00049	8.70 0.95648 0.00049	8.80 0.96442 0.00050
8.75 0.96177 0.00048	8.75 0.96062 0.00049	8.85 0.96800 0.00048
8.80 0.96453 0.00049	8.80 0.96504 0.00049	8.90 0.97199 0.00048
8.85 0.96777 0.00050	8.85 0.96847 0.00049	8.95 0.97587 0.00051
8.90 0.97196 0.00048	8.90 0.97140 0.00048	9.00 0.97906 0.00049
8.95 0.97665 0.00049	8.95 0.97611 0.00048	9.05 0.98297 0.00048
9.00 0.98041 0.00049	9.00 0.97978 0.00049	9.10 0.98798 0.00048
9.05 0.98407 0.00048	9.05 0.98420 0.00050	9.15 0.99043 0.00048
9.10 0.98874 0.00050	9.10 0.98786 0.00049	9.20 0.99530 0.00049
9.15 0.99119 0.00049	9.15 0.99214 0.00049	9.25 0.99911 0.00048
9.20 0.99593 0.00050	9.20 0.99651 0.00049	9.30 1.00222 0.00049
9.25 0.99916 0.00050	9.25 0.99830 0.00050	9.35 1.00597 0.00049
9.30 1.00394 0.00051	9.30 1.00229 0.00050	9.40 1.00937 0.00048
9.35 1.00675 0.00048	9.35 1.00670 0.00049	9.45 1.01334 0.00049
9.40 1.01108 0.00049	9.40 1.01146 0.00049	9.50 1.01649 0.00048
9.45 1.01351 0.00048	9.45 1.01367 0.00049	9.55 1.02026 0.00049
9.50 1.01801 0.00050	9.50 1.01766 0.00050	9.60 1.02429 0.00049
9.55 1.02178 0.00049	9.55 1.02141 0.00049	
9.60 1.02561 0.00048	9.60 1.02515 0.00050	

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12	15	20
47.40 0.87430 0.00019	35.80 0.93214 0.00023	23.50 0.92667 0.00031
48.30 0.87671 0.00019	36.60 0.93764 0.00023	23.80 0.93124 0.00031
49.20 0.87959 0.00018	37.40 0.94083 0.00023	24.10 0.93774 0.00030
50.10 0.88157 0.00018	38.20 0.94522 0.00023	24.40 0.94201 0.00032
51.00 0.88365 0.00018	39.00 0.94952 0.00022	24.70 0.94688 0.00030
51.90 0.88593 0.00017	39.80 0.95295 0.00022	25.00 0.95121 0.00030
52.80 0.88731 0.00017	40.60 0.95660 0.00022	25.30 0.95639 0.00031
53.70 0.88957 0.00017	41.40 0.95978 0.00022	25.60 0.96039 0.00030
54.60 0.89087 0.00017	42.20 0.96312 0.00021	25.90 0.96544 0.00030
55.50 0.89238 0.00017	43.00 0.96624 0.00021	26.20 0.96936 0.00030
56.40 0.89372 0.00016	43.80 0.96939 0.00021	26.50 0.97391 0.00030
57.30 0.89558 0.00017	44.60 0.97243 0.00021	26.80 0.97767 0.00030
58.20 0.89711 0.00017	45.40 0.97450 0.00021	27.10 0.98102 0.00029
59.10 0.89858 0.00017	46.20 0.97736 0.00020	27.40 0.98523 0.00029
60.00 0.89953 0.00016	47.00 0.97974 0.00020	27.70 0.98847 0.00030
60.90 0.90062 0.00017	47.80 0.98206 0.00020	28.00 0.99253 0.00029
61.80 0.90198 0.00016	48.60 0.98405 0.00020	28.30 0.99552 0.00029
62.70 0.90320 0.00016	49.40 0.98655 0.00020	28.60 0.99919 0.00029
63.60 0.90450 0.00016	50.20 0.98882 0.00020	28.90 1.00310 0.00029
64.50 0.90493 0.00016	51.00 0.99029 0.00020	29.20 1.00580 0.00028
65.40 0.90631 0.00016	51.80 0.99252 0.00019	29.50 1.00951 0.00028
66.30 0.90750 0.00016	52.20 0.99292 0.00019	29.80 1.01210 0.00028
66.50 0.90777 0.00015		30.00 1.01450 0.00028

25	30	32
19.60 0.92502 0.00036	17.60 0.92329 0.00039	17.00 0.92148 0.00040
19.80 0.92902 0.00035	17.70 0.92613 0.00038	17.10 0.92494 0.00040
20.00 0.93588 0.00034	17.80 0.93063 0.00040	17.20 0.92852 0.00040
20.20 0.94063 0.00035	17.90 0.93500 0.00038	17.30 0.93322 0.00040
20.40 0.94601 0.00036	18.00 0.93782 0.00039	17.40 0.93720 0.00039
20.60 0.95016 0.00035	18.10 0.94046 0.00039	17.50 0.94051 0.00040
20.80 0.95551 0.00034	18.20 0.94335 0.00039	17.60 0.94380 0.00040
21.00 0.96019 0.00036	18.30 0.94689 0.00040	17.70 0.94708 0.00039
21.20 0.96473 0.00035	18.40 0.95047 0.00038	17.80 0.95033 0.00040
21.40 0.96944 0.00034	18.50 0.95395 0.00038	17.90 0.95517 0.00039
21.60 0.97401 0.00034	18.60 0.95701 0.00038	18.00 0.95726 0.00040
21.80 0.97867 0.00035	18.70 0.96010 0.00038	18.10 0.95999 0.00039
22.00 0.98318 0.00035	18.80 0.96374 0.00039	18.20 0.96460 0.00038
22.20 0.98720 0.00035	18.90 0.96603 0.00039	18.30 0.96714 0.00039
22.40 0.99120 0.00034	19.00 0.96897 0.00038	18.40 0.97074 0.00039
22.60 0.99586 0.00034	19.10 0.97217 0.00038	18.50 0.97411 0.00039
22.80 0.99987 0.00034	19.20 0.97523 0.00038	18.60 0.97762 0.00040
23.00 1.00360 0.00034	19.30 0.97760 0.00039	18.70 0.97984 0.00038
23.20 1.00800 0.00033	19.40 0.98131 0.00038	18.80 0.98389 0.00039
23.40 1.01107 0.00033	19.50 0.98476 0.00038	18.90 0.98613 0.00040
23.60 1.01529 0.00034	19.60 0.98644 0.00037	19.00 0.98974 0.00039
23.70 1.01753 0.00033	19.70 0.98996 0.00039	19.10 0.99303 0.00039
	19.80 0.99352 0.00037	19.20 0.99615 0.00039
	19.90 0.99523 0.00039	19.30 0.99946 0.00038
	20.00 0.99815 0.00038	19.40 1.00257 0.00038
	20.10 1.00106 0.00039	19.50 1.00547 0.00039
	20.20 1.00355 0.00037	19.60 1.00763 0.00039
	20.30 1.00573 0.00038	19.70 1.01138 0.00040
	20.40 1.00887 0.00037	19.80 1.01472 0.00039
	20.50 1.01077 0.00038	19.90 1.01669 0.00039
	20.60 1.01391 0.00038	
	20.70 1.01641 0.00037	

35	40	50
16.30 0.92071 0.00041	15.50 0.92182 0.00043	14.40 0.92141 0.00046
16.40 0.92388 0.00041	15.60 0.92707 0.00042	14.50 0.92645 0.00046
16.50 0.92888 0.00041	15.70 0.93175 0.00042	14.60 0.93234 0.00045
16.60 0.93310 0.00041	15.80 0.93611 0.00043	14.70 0.93676 0.00046
16.70 0.93676 0.00041	15.90 0.94093 0.00043	14.80 0.94360 0.00046
16.80 0.94175 0.00041	16.00 0.94475 0.00044	14.90 0.94700 0.00046
16.90 0.94509 0.00042	16.10 0.94957 0.00043	15.00 0.95325 0.00046
17.00 0.94778 0.00041	16.20 0.95362 0.00045	15.10 0.95829 0.00046
17.10 0.95202 0.00041	16.30 0.95855 0.00043	15.20 0.96298 0.00046
17.20 0.95680 0.00040	16.40 0.96256 0.00043	15.30 0.96831 0.00045
17.30 0.95996 0.00042	16.50 0.96600 0.00043	15.40 0.97390 0.00046

17.40 0.96405 0.00040	16.60 0.97054 0.00042	15.50 0.97771 0.00046
17.50 0.96759 0.00040	16.70 0.97524 0.00042	15.60 0.98287 0.00043
17.60 0.97084 0.00041	16.80 0.97847 0.00043	15.70 0.98804 0.00045
17.70 0.97374 0.00041	16.90 0.98285 0.00043	15.80 0.99198 0.00046
17.80 0.97785 0.00041	17.00 0.98652 0.00042	15.90 0.99661 0.00046
17.90 0.98203 0.00040	17.10 0.99079 0.00043	16.00 1.00095 0.00046
18.00 0.98523 0.00041	17.20 0.99406 0.00043	16.10 1.00655 0.00046
18.10 0.98869 0.00041	17.30 0.99810 0.00043	16.20 1.00984 0.00047
18.20 0.99201 0.00041	17.40 1.00239 0.00041	16.30 1.01576 0.00046
18.30 0.99488 0.00041	17.50 1.00589 0.00041	16.40 1.01972 0.00046
18.40 0.99852 0.00040	17.60 1.00965 0.00043	
18.50 1.00272 0.00041	17.70 1.01485 0.00042	
18.60 1.00508 0.00040	17.80 1.01707 0.00042	
18.70 1.00855 0.00040	17.90 1.02052 0.00041	
18.80 1.01185 0.00040		
18.90 1.01561 0.00040		
19.00 1.01822 0.00040		

60	70	80
13.70 0.91985 0.00048	13.20 0.91620 0.00049	12.90 0.91796 0.00051
13.80 0.92557 0.00049	13.30 0.92345 0.00049	12.95 0.92240 0.00048
13.90 0.93153 0.00048	13.40 0.92969 0.00049	13.00 0.92544 0.00050
14.00 0.93823 0.00048	13.50 0.93567 0.00050	13.05 0.92909 0.00050
14.10 0.94401 0.00049	13.60 0.94243 0.00050	13.10 0.93215 0.00051
14.20 0.94852 0.00047	13.70 0.94855 0.00049	13.15 0.93493 0.00050
14.30 0.95482 0.00048	13.80 0.95470 0.00050	13.20 0.93968 0.00052
14.40 0.96042 0.00048	13.90 0.96137 0.00050	13.25 0.94228 0.00050
14.50 0.96495 0.00048	14.00 0.96721 0.00049	13.30 0.94589 0.00052
14.60 0.97203 0.00049	14.10 0.97431 0.00050	13.35 0.94796 0.00050
14.70 0.97611 0.00048	14.20 0.97853 0.00050	13.40 0.95174 0.00051
14.80 0.98137 0.00048	14.30 0.98419 0.00049	13.45 0.95555 0.00051
14.90 0.98820 0.00049	14.40 0.98978 0.00048	13.50 0.95821 0.00050
15.00 0.99306 0.00048	14.50 0.99497 0.00049	13.55 0.96158 0.00051
15.10 0.99814 0.00047	14.60 1.00136 0.00049	13.60 0.96487 0.00050
15.20 1.00412 0.00048	14.70 1.00666 0.00050	13.65 0.96678 0.00050
15.30 1.00862 0.00049	14.80 1.01267 0.00050	13.70 0.97077 0.00051
15.40 1.01358 0.00049	14.90 1.01823 0.00051	13.75 0.97331 0.00051
15.50 1.01876 0.00048	15.00 1.02278 0.00049	13.80 0.97682 0.00050
		13.85 0.97986 0.00051
		13.90 0.98355 0.00052
		13.95 0.98557 0.00051
		14.00 0.98858 0.00050
		14.05 0.99118 0.00050
		14.10 0.99450 0.00053
		14.15 0.99769 0.00051
		14.20 1.00057 0.00052
		14.25 1.00374 0.00051
		14.30 1.00600 0.00050
		14.35 1.00940 0.00052

14.40 1.01261 0.00050
 14.45 1.01574 0.00050
 14.50 1.01834 0.00051
 14.55 1.02196 0.00051
 14.60 1.02426 0.00052

90	100	118
12.60 0.91557 0.00051	12.50 0.92190 0.00052	12.20 0.91856 0.00053
12.65 0.91890 0.00051	12.55 0.92530 0.00051	12.25 0.92213 0.00052
12.70 0.92311 0.00050	12.60 0.92961 0.00052	12.30 0.92553 0.00053
12.75 0.92542 0.00053	12.65 0.93321 0.00053	12.35 0.92928 0.00053
12.80 0.92990 0.00051	12.70 0.93691 0.00053	12.40 0.93261 0.00052
12.85 0.93289 0.00050	12.75 0.94025 0.00051	12.45 0.93675 0.00052
12.90 0.93686 0.00051	12.80 0.94434 0.00052	12.50 0.94073 0.00053
12.95 0.93911 0.00052	12.85 0.94630 0.00052	12.55 0.94432 0.00053
13.00 0.94315 0.00052	12.90 0.95066 0.00051	12.60 0.94691 0.00053
13.05 0.94787 0.00051	12.95 0.95449 0.00053	12.65 0.95151 0.00053
13.10 0.95004 0.00050	13.00 0.95711 0.00051	12.70 0.95485 0.00053
13.15 0.95282 0.00050	13.05 0.96023 0.00052	12.75 0.95873 0.00053
13.20 0.95673 0.00051	13.10 0.96395 0.00051	12.80 0.96137 0.00054
13.25 0.96053 0.00052	13.15 0.96740 0.00052	12.85 0.96477 0.00053
13.30 0.96321 0.00051	13.20 0.97122 0.00052	12.90 0.96885 0.00053
13.35 0.96711 0.00052	13.25 0.97442 0.00053	12.95 0.97288 0.00054
13.40 0.97017 0.00051	13.30 0.97712 0.00051	13.00 0.97523 0.00054
13.45 0.97390 0.00051	13.35 0.98146 0.00053	13.05 0.97984 0.00052
13.50 0.97622 0.00052	13.40 0.98422 0.00051	13.10 0.98203 0.00051
13.55 0.98009 0.00050	13.45 0.98613 0.00052	13.15 0.98646 0.00053
13.60 0.98368 0.00052	13.50 0.98991 0.00051	13.20 0.98964 0.00053
13.65 0.98540 0.00052	13.55 0.99376 0.00051	13.25 0.99330 0.00054
13.70 0.98999 0.00051	13.60 0.99672 0.00052	13.30 0.99657 0.00053
13.75 0.99179 0.00052	13.65 0.99985 0.00053	13.35 0.99910 0.00054
13.80 0.99533 0.00052	13.70 1.00362 0.00052	13.40 1.00283 0.00053
13.85 0.99888 0.00052	13.75 1.00720 0.00052	13.45 1.00569 0.00053
13.90 1.00098 0.00052	13.80 1.00906 0.00051	13.50 1.01005 0.00053
13.95 1.00416 0.00051	13.85 1.01354 0.00052	13.55 1.01297 0.00052
14.00 1.00725 0.00052	13.90 1.01572 0.00053	13.60 1.01590 0.00055
14.05 1.01129 0.00051	13.95 1.01844 0.00053	13.65 1.02069 0.00053
14.10 1.01424 0.00051	14.00 1.02186 0.00053	13.70 1.02211 0.00053
14.15 1.01683 0.00050		
14.20 1.01828 0.00051		

130	150	200
12.00 0.91195 0.00053	11.90 0.91721 0.00055	11.70 0.91760 0.00055
12.05 0.91651 0.00054	11.95 0.91996 0.00054	11.75 0.92133 0.00057
12.10 0.92108 0.00051	12.00 0.92453 0.00054	11.80 0.92501 0.00056
12.15 0.92281 0.00053	12.05 0.92736 0.00055	11.85 0.92956 0.00054
12.20 0.92832 0.00052	12.10 0.93184 0.00054	11.90 0.93411 0.00054

12.25 0.93157 0.00054	12.15 0.93647 0.00055	11.95 0.93790 0.00054
12.30 0.93545 0.00055	12.20 0.94069 0.00054	12.00 0.94239 0.00055
12.35 0.93937 0.00052	12.25 0.94335 0.00054	12.05 0.94547 0.00055
12.40 0.94258 0.00053	12.30 0.94651 0.00054	12.10 0.94948 0.00054
12.45 0.94679 0.00053	12.35 0.95112 0.00054	12.15 0.95411 0.00056
12.50 0.95054 0.00054	12.40 0.95524 0.00054	12.20 0.95708 0.00056
12.55 0.95481 0.00053	12.45 0.95794 0.00054	12.25 0.96052 0.00056
12.60 0.95696 0.00053	12.50 0.96244 0.00055	12.30 0.96423 0.00055
12.65 0.96063 0.00053	12.55 0.96526 0.00054	12.35 0.96874 0.00056
12.70 0.96515 0.00055	12.60 0.97000 0.00054	12.40 0.97320 0.00054
12.75 0.96907 0.00054	12.65 0.97373 0.00055	12.45 0.97614 0.00054
12.80 0.97087 0.00053	12.70 0.97691 0.00054	12.50 0.97972 0.00053
12.85 0.97608 0.00053	12.75 0.98084 0.00054	12.55 0.98443 0.00054
12.90 0.97899 0.00052	12.80 0.98424 0.00055	12.60 0.98750 0.00054
12.95 0.98210 0.00053	12.85 0.98794 0.00053	12.65 0.99144 0.00054
13.00 0.98632 0.00054	12.90 0.99115 0.00054	12.70 0.99510 0.00057
13.05 0.98972 0.00053	12.95 0.99472 0.00055	12.75 0.99732 0.00054
13.10 0.99320 0.00055	13.00 0.99754 0.00055	12.80 1.00225 0.00056
13.15 0.99689 0.00053	13.05 1.00227 0.00054	12.85 1.00500 0.00053
13.20 0.99959 0.00053	13.10 1.00632 0.00054	12.90 1.00833 0.00055
13.25 1.00335 0.00054	13.15 1.00842 0.00055	12.95 1.01172 0.00054
13.30 1.00616 0.00053	13.20 1.01143 0.00054	13.00 1.01545 0.00055
13.35 1.01061 0.00055	13.25 1.01565 0.00053	13.05 1.01918 0.00054
13.40 1.01379 0.00054	13.30 1.01873 0.00056	13.10 1.02206 0.00054
13.45 1.01641 0.00054	13.35 1.02161 0.00053	
13.50 1.02041 0.00054	13.40 1.02552 0.00055	

235	250	353
11.60 0.91481 0.00054	11.60 0.91616 0.00055	11.60 0.91496 0.00055
11.65 0.92013 0.00056	11.65 0.92064 0.00054	11.65 0.91921 0.00056
11.70 0.92221 0.00054	11.70 0.92395 0.00055	11.75 0.92715 0.00055
11.75 0.92645 0.00054	11.75 0.92912 0.00054	11.80 0.93110 0.00055
11.80 0.93042 0.00055	11.80 0.93293 0.00055	11.85 0.93493 0.00055
11.85 0.93504 0.00055	11.85 0.93651 0.00054	11.90 0.93861 0.00055
11.90 0.93980 0.00054	11.90 0.94129 0.00054	11.95 0.94273 0.00056
11.95 0.94253 0.00055	11.95 0.94329 0.00054	12.00 0.94669 0.00054
12.00 0.94583 0.00055	12.00 0.94918 0.00057	12.05 0.95172 0.00055
12.05 0.95083 0.00056	12.05 0.95379 0.00056	12.10 0.95482 0.00054
12.10 0.95469 0.00056	12.10 0.95651 0.00054	12.15 0.95889 0.00055
12.15 0.95846 0.00056	12.15 0.96062 0.00055	12.20 0.96248 0.00055
12.20 0.96170 0.00054	12.20 0.96431 0.00056	12.25 0.96680 0.00054
12.25 0.96626 0.00055	12.25 0.96722 0.00055	12.30 0.97066 0.00057
12.30 0.97062 0.00055	12.30 0.97188 0.00056	12.35 0.97243 0.00056
12.35 0.97498 0.00057	12.35 0.97607 0.00057	12.40 0.97684 0.00054
12.40 0.97707 0.00055	12.40 0.97975 0.00057	12.45 0.98160 0.00055
12.45 0.98199 0.00057	12.45 0.98303 0.00056	12.50 0.98397 0.00056
12.50 0.98636 0.00054	12.50 0.98664 0.00055	12.55 0.98859 0.00056
12.55 0.98871 0.00053	12.55 0.98967 0.00054	12.60 0.99242 0.00056
12.60 0.99212 0.00055	12.60 0.99444 0.00056	12.65 0.99509 0.00056

12.65 0.99721 0.00056	12.65 0.99864 0.00056	12.70 1.00062 0.00056
12.70 1.00020 0.00055	12.70 1.00128 0.00056	12.75 1.00401 0.00056
12.75 1.00349 0.00055	12.75 1.00467 0.00055	12.80 1.00815 0.00054
12.80 1.00697 0.00056	12.80 1.00964 0.00054	12.85 1.01041 0.00058
12.85 1.01005 0.00054	12.85 1.01127 0.00055	12.90 1.01425 0.00055
12.90 1.01398 0.00055	12.90 1.01643 0.00054	12.95 1.01786 0.00056
12.95 1.01827 0.00054	12.95 1.01880 0.00057	13.00 1.02122 0.00057
13.00 1.02113 0.00055	13.00 1.02202 0.00056	
13.05 1.02513 0.00057		
13.10 1.02786 0.00054		

470	500	510
11.80 0.91972 0.00055	11.80 0.91465 0.00055	11.90 0.92121 0.00053
11.85 0.92431 0.00055	11.85 0.91895 0.00053	11.95 0.92458 0.00054
11.90 0.92725 0.00054	11.90 0.92199 0.00054	12.00 0.92842 0.00054
11.95 0.93121 0.00053	11.95 0.92782 0.00053	12.05 0.93301 0.00054
12.00 0.93524 0.00054	12.00 0.93032 0.00055	12.10 0.93759 0.00054
12.05 0.93869 0.00054	12.05 0.93481 0.00054	12.15 0.93942 0.00053
12.10 0.94287 0.00054	12.10 0.93890 0.00054	12.20 0.94400 0.00054
12.15 0.94596 0.00055	12.15 0.94230 0.00056	12.25 0.94722 0.00054
12.20 0.95030 0.00056	12.20 0.94619 0.00054	12.30 0.95174 0.00053
12.25 0.95424 0.00054	12.25 0.94935 0.00057	12.35 0.95530 0.00055
12.30 0.95875 0.00055	12.30 0.95308 0.00054	12.40 0.95942 0.00054
12.35 0.96118 0.00057	12.35 0.95741 0.00055	12.45 0.96223 0.00055
12.40 0.96568 0.00055	12.40 0.95955 0.00054	12.50 0.96649 0.00054
12.45 0.96978 0.00055	12.45 0.96473 0.00057	12.55 0.97024 0.00054
12.50 0.97365 0.00054	12.50 0.96857 0.00053	12.60 0.97356 0.00054
12.55 0.97673 0.00056	12.55 0.97018 0.00054	12.65 0.97646 0.00054
12.60 0.97993 0.00055	12.60 0.97623 0.00055	12.70 0.97989 0.00054
12.65 0.98355 0.00054	12.65 0.97861 0.00055	12.75 0.98412 0.00055
12.70 0.98677 0.00055	12.70 0.98127 0.00054	12.80 0.98757 0.00055
12.75 0.99068 0.00054	12.75 0.98474 0.00055	12.85 0.99038 0.00053
12.80 0.99440 0.00055	12.80 0.99066 0.00057	12.90 0.99505 0.00053
12.85 0.99856 0.00055	12.85 0.99231 0.00054	12.95 0.99880 0.00054
12.90 1.00137 0.00054	12.90 0.99745 0.00054	13.00 1.00075 0.00053
12.95 1.00441 0.00054	12.95 0.99946 0.00054	13.05 1.00560 0.00055
13.00 1.00894 0.00055	13.00 1.00310 0.00055	13.10 1.00899 0.00055
13.05 1.01158 0.00057	13.05 1.00684 0.00055	13.15 1.01286 0.00055
13.10 1.01520 0.00055	13.10 1.01041 0.00056	13.20 1.01611 0.00053
13.15 1.01776 0.00054	13.15 1.01475 0.00055	13.25 1.01797 0.00055
13.20 1.02177 0.00055	13.20 1.01666 0.00056	13.30 1.02198 0.00054
	13.25 1.02114 0.00056	
	13.30 1.02444 0.00057	

520	530	540
11.90 0.91939 0.00054	11.90 0.91845 0.00055	11.90 0.91706 0.00053
11.95 0.92421 0.00054	11.95 0.92240 0.00056	11.95 0.91945 0.00054
12.00 0.92771 0.00053	12.00 0.92545 0.00054	12.00 0.92432 0.00055
12.05 0.93146 0.00054	12.05 0.92930 0.00054	12.05 0.92710 0.00054
12.10 0.93521 0.00054	12.10 0.93337 0.00055	12.10 0.93178 0.00054
12.15 0.93876 0.00056	12.15 0.93803 0.00054	12.15 0.93568 0.00055
12.20 0.94290 0.00053	12.20 0.94050 0.00055	12.20 0.93870 0.00053
12.25 0.94581 0.00055	12.25 0.94447 0.00056	12.25 0.94353 0.00055
12.30 0.94921 0.00054	12.30 0.94798 0.00053	12.30 0.94721 0.00056
12.35 0.95339 0.00054	12.35 0.95217 0.00054	12.35 0.95098 0.00054
12.40 0.95816 0.00055	12.40 0.95511 0.00055	12.40 0.95337 0.00053
12.45 0.96095 0.00055	12.45 0.95979 0.00054	12.45 0.95742 0.00053
12.50 0.96492 0.00053	12.50 0.96358 0.00054	12.50 0.96099 0.00056
12.55 0.96720 0.00053	12.55 0.96665 0.00056	12.55 0.96494 0.00054
12.60 0.97226 0.00055	12.60 0.96964 0.00055	12.60 0.96841 0.00054
12.65 0.97430 0.00055	12.65 0.97370 0.00055	12.65 0.97344 0.00055
12.70 0.97872 0.00054	12.70 0.97694 0.00056	12.70 0.97507 0.00053
12.75 0.98225 0.00054	12.75 0.98107 0.00055	12.75 0.97926 0.00055
12.80 0.98615 0.00054	12.80 0.98423 0.00055	12.80 0.98370 0.00053
12.85 0.98922 0.00055	12.85 0.98773 0.00054	12.85 0.98686 0.00055
12.90 0.99237 0.00054	12.90 0.99155 0.00056	12.90 0.99035 0.00053
12.95 0.99629 0.00054	12.95 0.99521 0.00055	12.95 0.99241 0.00055
13.00 1.00027 0.00056	13.00 0.99793 0.00056	13.00 0.99560 0.00055
13.05 1.00319 0.00053	13.05 1.00189 0.00054	13.05 1.00020 0.00055
13.10 1.00600 0.00054	13.10 1.00506 0.00054	13.10 1.00336 0.00054
13.15 1.01002 0.00054	13.15 1.00848 0.00054	13.15 1.00827 0.00054
13.20 1.01509 0.00054	13.20 1.01181 0.00054	13.20 1.01001 0.00055
13.25 1.01779 0.00054	13.25 1.01553 0.00054	13.25 1.01392 0.00054
13.30 1.02038 0.00054	13.30 1.01801 0.00055	13.30 1.01689 0.00054
13.35 1.02448 0.00056	13.35 1.02255 0.00055	13.35 1.02093 0.00054
13.40 1.02777 0.00055	13.40 1.02468 0.00055	13.40 1.02334 0.00056
550	560	
11.90 0.91452 0.00054	12.00 0.92167 0.00055	
11.95 0.91892 0.00053	12.05 0.92440 0.00055	
12.00 0.92278 0.00054	12.10 0.92920 0.00052	
12.05 0.92572 0.00054	12.15 0.93151 0.00055	
12.10 0.92980 0.00052	12.20 0.93606 0.00055	
12.15 0.93407 0.00054	12.25 0.93997 0.00053	
12.20 0.93604 0.00053	12.30 0.94262 0.00054	
12.25 0.94105 0.00053	12.35 0.94751 0.00054	
12.30 0.94544 0.00054	12.40 0.95034 0.00055	
12.35 0.94872 0.00055	12.45 0.95371 0.00054	
12.40 0.95276 0.00055	12.50 0.95775 0.00054	
12.45 0.95544 0.00054	12.55 0.96169 0.00056	
12.50 0.95899 0.00054	12.60 0.96503 0.00054	
12.55 0.96406 0.00053	12.65 0.96871 0.00052	
12.60 0.96620 0.00055	12.70 0.97179 0.00056	
12.65 0.97133 0.00054	12.75 0.97553 0.00055	
12.70 0.97459 0.00055	12.80 0.97896 0.00053	

12.75 0.97770 0.00055	12.85 0.98223 0.00054
12.80 0.98180 0.00056	12.90 0.98548 0.00053
12.85 0.98471 0.00055	12.95 0.98957 0.00054
12.90 0.98835 0.00055	13.00 0.99216 0.00054
12.95 0.99074 0.00055	13.05 0.99633 0.00054
13.00 0.99571 0.00054	13.10 1.00071 0.00054
13.05 0.99742 0.00056	13.15 1.00271 0.00055
13.10 1.00151 0.00054	13.20 1.00605 0.00054
13.15 1.00481 0.00053	13.25 1.00962 0.00054
13.25 1.01103 0.00054	13.30 1.01366 0.00056
13.30 1.01576 0.00054	13.35 1.01586 0.00053
13.35 1.01917 0.00055	13.40 1.02016 0.00052
13.40 1.02134 0.00055	13.45 1.02208 0.00054
	13.50 1.02588 0.00055

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12	15	20
33.40 0.82597 0.00021	31.60 0.91488 0.00024	21.80 0.92431 0.00031
33.60 0.82747 0.00020	31.65 0.91538 0.00024	22.10 0.92976 0.00030
33.80 0.82801 0.00021	31.70 0.91591 0.00024	22.40 0.93395 0.00030
34.00 0.82946 0.00021	31.75 0.91566 0.00023	22.70 0.94016 0.00029
34.20 0.83011 0.00021	31.80 0.91613 0.00024	23.00 0.94476 0.00029
34.40 0.83144 0.00021	31.85 0.91696 0.00023	23.30 0.94909 0.00031
34.60 0.83277 0.00021	31.90 0.91694 0.00023	23.60 0.95381 0.00029
34.80 0.83411 0.00020	31.95 0.91741 0.00023	23.90 0.95797 0.00029
35.00 0.83497 0.00020	32.00 0.91767 0.00023	24.20 0.96320 0.00030
35.20 0.83567 0.00021	32.05 0.91837 0.00023	24.50 0.96714 0.00029
35.40 0.83695 0.00020	32.10 0.91812 0.00023	24.80 0.97137 0.00029
35.60 0.83832 0.00020	32.15 0.91855 0.00023	25.10 0.97486 0.00028
35.80 0.83884 0.00020	32.20 0.91866 0.00023	25.40 0.97913 0.00029
36.00 0.83983 0.00020	32.25 0.91960 0.00023	25.70 0.98318 0.00029
36.20 0.83983 0.00020	32.30 0.91982 0.00023	26.00 0.98594 0.00030
36.40 0.84203 0.00020	32.35 0.91986 0.00023	26.30 0.99005 0.00029
36.60 0.84226 0.00020	32.40 0.92046 0.00023	26.60 0.99374 0.00028
36.80 0.84339 0.00020	32.45 0.92052 0.00023	26.90 0.99736 0.00028
37.00 0.84422 0.00020	32.50 0.92100 0.00023	27.20 1.00134 0.00028
37.20 0.84552 0.00020	32.55 0.92036 0.00023	27.50 1.00400 0.00027
37.40 0.84642 0.00020	32.60 0.92136 0.00024	27.80 1.00757 0.00027
37.50 0.84680 0.00020	32.65 0.92204 0.00023	28.10 1.01055 0.00028
	32.70 0.92226 0.00024	28.30 1.01299 0.00027
	32.75 0.92246 0.00023	
	32.80 0.92357 0.00024	
	32.85 0.92269 0.00023	
	32.90 0.92338 0.00023	
	32.95 0.92374 0.00022	
	33.00 0.92418 0.00023	

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25	30	32
18.00 0.92313 0.00035	16.00 0.92194 0.00037	15.50 0.92357 0.00039
18.20 0.92918 0.00034	16.10 0.92546 0.00038	15.60 0.92731 0.00039
18.40 0.93517 0.00034	16.20 0.92889 0.00037	15.70 0.93144 0.00038
18.60 0.93959 0.00034	16.30 0.93129 0.00037	15.80 0.93412 0.00038
18.80 0.94405 0.00034	16.40 0.93578 0.00036	15.90 0.93830 0.00039
19.00 0.94995 0.00035	16.50 0.93893 0.00037	16.00 0.94164 0.00038
19.20 0.95435 0.00033	16.60 0.94322 0.00037	16.10 0.94565 0.00038
19.40 0.95957 0.00035	16.70 0.94574 0.00038	16.20 0.94885 0.00038
19.60 0.96357 0.00035	16.80 0.94872 0.00037	16.30 0.95262 0.00039
19.80 0.96891 0.00035	16.90 0.95239 0.00036	16.40 0.95656 0.00039
20.00 0.97302 0.00034	17.00 0.95555 0.00037	16.50 0.95928 0.00038
20.20 0.97752 0.00034	17.10 0.95901 0.00037	16.60 0.96316 0.00037
20.40 0.98171 0.00032	17.20 0.96158 0.00037	16.70 0.96617 0.00038
20.60 0.98592 0.00033	17.30 0.96518 0.00038	16.80 0.96902 0.00038
20.80 0.99036 0.00033	17.40 0.96796 0.00037	16.90 0.97298 0.00038
21.00 0.99386 0.00032	17.50 0.97052 0.00038	17.00 0.97552 0.00037
21.20 0.99852 0.00033	17.60 0.97451 0.00037	17.10 0.97899 0.00037
21.40 1.00288 0.00033	17.70 0.97688 0.00038	17.20 0.98232 0.00038
21.60 1.00645 0.00034	17.80 0.97980 0.00038	17.30 0.98604 0.00038
21.80 1.01015 0.00033	17.90 0.98248 0.00037	17.40 0.98794 0.00037
22.00 1.01430 0.00033	18.00 0.98492 0.00038	17.50 0.99093 0.00038
22.10 1.01660 0.00033	18.10 0.98837 0.00037	17.60 0.99482 0.00038
	18.20 0.99115 0.00037	17.70 0.99740 0.00039
	18.30 0.99370 0.00036	17.80 1.00036 0.00037
	18.40 0.99662 0.00036	17.90 1.00380 0.00038
	18.50 0.99916 0.00037	18.00 1.00669 0.00038
	18.60 1.00255 0.00036	18.10 1.00983 0.00038
	18.70 1.00578 0.00036	18.20 1.01254 0.00036
	18.80 1.00798 0.00036	18.30 1.01488 0.00037
	18.90 1.01042 0.00038	18.40 1.01807 0.00038
	19.00 1.01260 0.00036	
	19.10 1.01499 0.00037	

35			40			50		
14.80	0.92275	0.00039	13.90	0.92014	0.00042	12.80	0.91895	0.00044
14.90	0.92666	0.00040	14.00	0.92452	0.00042	12.90	0.92408	0.00044
15.00	0.93020	0.00040	14.10	0.92919	0.00042	13.00	0.92949	0.00044
15.10	0.93492	0.00039	14.20	0.93460	0.00043	13.10	0.93454	0.00043
15.20	0.93805	0.00038	14.30	0.93836	0.00041	13.20	0.94017	0.00045
15.30	0.94276	0.00039	14.40	0.94270	0.00041	13.30	0.94602	0.00043
15.40	0.94691	0.00041	14.50	0.94740	0.00042	13.40	0.95042	0.00045
15.50	0.95023	0.00040	14.60	0.95203	0.00041	13.50	0.95621	0.00045
15.60	0.95434	0.00039	14.70	0.95586	0.00042	13.60	0.96071	0.00044
15.70	0.95778	0.00039	14.80	0.95962	0.00041	13.70	0.96564	0.00044
15.80	0.96240	0.00038	14.90	0.96429	0.00041	13.80	0.97073	0.00045
15.90	0.96489	0.00040	15.00	0.96854	0.00041	13.90	0.97534	0.00043
16.00	0.96927	0.00038	15.10	0.97312	0.00041	14.00	0.98015	0.00043
16.10	0.97259	0.00040	15.20	0.97666	0.00042	14.10	0.98552	0.00043

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16.20 0.97745 0.00039	15.30 0.98213 0.00040	14.20 0.98948 0.00044
16.30 0.97979 0.00039	15.40 0.98483 0.00042	14.30 0.99509 0.00044
16.40 0.98286 0.00039	15.50 0.98801 0.00042	14.40 1.00005 0.00043
16.50 0.98716 0.00040	15.60 0.99283 0.00040	14.50 1.00437 0.00043
16.60 0.99036 0.00039	15.70 0.99723 0.00042	14.60 1.00837 0.00044
16.70 0.99428 0.00039	15.80 1.00106 0.00041	14.70 1.01324 0.00043
16.80 0.99662 0.00040	15.90 1.00413 0.00042	14.80 1.01744 0.00043
16.90 1.00045 0.00039	16.00 1.00868 0.00040	14.90 1.02202 0.00044
17.00 1.00397 0.00038	16.10 1.01213 0.00041	
17.10 1.00720 0.00040	16.20 1.01585 0.00041	
17.20 1.01048 0.00040	16.30 1.02007 0.00041	
17.30 1.01407 0.00038		
17.40 1.01727 0.00039		

60	70	80
12.20 0.92318 0.00045	11.70 0.92100 0.00046	11.40 0.92264 0.00049
12.30 0.92912 0.00046	11.75 0.92355 0.00048	11.45 0.92561 0.00049
12.40 0.93524 0.00046	11.80 0.92595 0.00048	11.50 0.92981 0.00049
12.50 0.94073 0.00046	11.85 0.92986 0.00046	11.55 0.93217 0.00048
12.60 0.94691 0.00046	11.90 0.93381 0.00046	11.60 0.93640 0.00049
12.70 0.95199 0.00047	11.95 0.93705 0.00048	11.65 0.94034 0.00049
12.80 0.95815 0.00046	12.00 0.93943 0.00047	11.70 0.94243 0.00048
12.90 0.96313 0.00046	12.05 0.94231 0.00048	11.75 0.94562 0.00048
13.00 0.96943 0.00048	12.10 0.94526 0.00047	11.80 0.94901 0.00048
13.10 0.97484 0.00046	12.15 0.94777 0.00048	11.85 0.95167 0.00048
13.20 0.97996 0.00046	12.20 0.95165 0.00048	11.90 0.95526 0.00049
13.30 0.98581 0.00047	12.25 0.95544 0.00047	11.95 0.95960 0.00047
13.40 0.99155 0.00046	12.30 0.95855 0.00047	12.00 0.96203 0.00049
13.50 0.99559 0.00046	12.35 0.96125 0.00050	12.05 0.96495 0.00048
13.60 1.00071 0.00048	12.40 0.96343 0.00047	12.10 0.96786 0.00049
13.70 1.00688 0.00045	12.45 0.96634 0.00047	12.15 0.97103 0.00048
13.80 1.01087 0.00045	12.50 0.96968 0.00049	12.20 0.97478 0.00048
13.90 1.01579 0.00046	12.55 0.97287 0.00049	12.25 0.97805 0.00049
14.00 1.02091 0.00044	12.60 0.97486 0.00049	12.30 0.98070 0.00048
	12.65 0.97894 0.00046	12.35 0.98466 0.00047
	12.70 0.98142 0.00047	12.40 0.98697 0.00048
	12.75 0.98311 0.00048	12.45 0.98974 0.00049
	12.80 0.98780 0.00048	12.50 0.99296 0.00048
	12.85 0.99064 0.00048	12.55 0.99596 0.00049
	12.90 0.99372 0.00048	12.60 0.99928 0.00048
	12.95 0.99608 0.00047	12.65 1.00239 0.00049
	13.00 0.99838 0.00047	12.70 1.00446 0.00047
	13.05 1.00180 0.00047	12.75 1.00855 0.00048
	13.10 1.00426 0.00047	12.80 1.01033 0.00048
	13.15 1.00712 0.00048	12.85 1.01232 0.00047
	13.20 1.00967 0.00048	12.90 1.01579 0.00050
	13.25 1.01329 0.00047	12.95 1.01801 0.00049
	13.30 1.01526 0.00047	13.00 1.02349 0.00048
	13.35 1.01696 0.00047	
	13.40 1.02116 0.00047	

90	100	118
11.10 0.91981 0.00049	10.90 0.91933 0.00049	10.70 0.92375 0.00050
11.15 0.92362 0.00049	10.95 0.92263 0.00049	10.75 0.92712 0.00051
11.20 0.92728 0.00050	11.00 0.92598 0.00050	10.80 0.93080 0.00049
11.25 0.93047 0.00049	11.05 0.92970 0.00051	10.85 0.93479 0.00051
11.30 0.93296 0.00048	11.10 0.93321 0.00050	10.90 0.93751 0.00049
11.35 0.93768 0.00047	11.15 0.93676 0.00049	10.95 0.94146 0.00050
11.40 0.94060 0.00048	11.20 0.94170 0.00050	11.00 0.94441 0.00050
11.45 0.94389 0.00049	11.25 0.94425 0.00050	11.05 0.94930 0.00049
11.50 0.94757 0.00049	11.30 0.94761 0.00050	11.10 0.95256 0.00051
11.55 0.95146 0.00049	11.35 0.95099 0.00049	11.15 0.95565 0.00050
11.60 0.95460 0.00050	11.40 0.95477 0.00049	11.20 0.95943 0.00050
11.65 0.95787 0.00048	11.45 0.95847 0.00050	11.25 0.96371 0.00052
11.70 0.96097 0.00049	11.50 0.96078 0.00052	11.30 0.96648 0.00052
11.75 0.96401 0.00050	11.55 0.96542 0.00049	11.35 0.96966 0.00052
11.80 0.96721 0.00049	11.60 0.96765 0.00050	11.40 0.97323 0.00051
11.85 0.97061 0.00050	11.65 0.97132 0.00050	11.45 0.97779 0.00052
11.90 0.97393 0.00049	11.70 0.97504 0.00050	11.50 0.98153 0.00051
11.95 0.97682 0.00049	11.75 0.97842 0.00050	11.55 0.98372 0.00053
12.00 0.98027 0.00050	11.80 0.98210 0.00052	11.60 0.98744 0.00051
12.05 0.98301 0.00048	11.85 0.98471 0.00049	11.65 0.99081 0.00051
12.10 0.98650 0.00048	11.90 0.98809 0.00050	11.70 0.99375 0.00051
12.15 0.99009 0.00049	11.95 0.99130 0.00050	11.75 0.99733 0.00051
12.20 0.99278 0.00050	12.00 0.99457 0.00050	11.80 1.00117 0.00052
12.25 0.99618 0.00049	12.05 0.99810 0.00050	11.85 1.00425 0.00053
12.30 0.99924 0.00049	12.10 1.00071 0.00051	11.90 1.00704 0.00051
12.35 1.00225 0.00049	12.15 1.00417 0.00051	11.95 1.01150 0.00051
12.40 1.00529 0.00049	12.20 1.00773 0.00050	12.00 1.01508 0.00050
12.45 1.00882 0.00049	12.25 1.01026 0.00049	12.05 1.01648 0.00051
12.50 1.01162 0.00049	12.30 1.01423 0.00049	12.10 1.02128 0.00051
12.55 1.01368 0.00050	12.35 1.01675 0.00049	
12.60 1.01738 0.00048	12.40 1.02057 0.00051	
12.65 1.02053 0.00049		
12.70 1.02388 0.00048		

130	150	200
10.50 0.91731 0.00052	10.40 0.92262 0.00052	10.20 0.92421 0.00053
10.55 0.92114 0.00051	10.45 0.92567 0.00052	10.25 0.92772 0.00052
10.60 0.92538 0.00050	10.50 0.92947 0.00052	10.30 0.93114 0.00053
10.65 0.93001 0.00051	10.55 0.93398 0.00052	10.35 0.93601 0.00051
10.70 0.93263 0.00050	10.60 0.93783 0.00053	10.40 0.94026 0.00053
10.75 0.93668 0.00050	10.65 0.94124 0.00052	10.45 0.94377 0.00052
10.80 0.93932 0.00050	10.70 0.94447 0.00052	10.50 0.94819 0.00053
10.85 0.94470 0.00052	10.75 0.94834 0.00052	10.55 0.95156 0.00052
10.90 0.94863 0.00050	10.80 0.95200 0.00052	10.60 0.95544 0.00052
10.95 0.95048 0.00052	10.85 0.95692 0.00052	10.65 0.95920 0.00051
11.00 0.95521 0.00051	10.90 0.95989 0.00053	10.70 0.96233 0.00052
11.05 0.95870 0.00051	10.95 0.96394 0.00052	10.75 0.96733 0.00052
11.10 0.96186 0.00051	11.00 0.96727 0.00053	10.80 0.97080 0.00053

11.15 0.96572 0.00052	11.05 0.97144 0.00052	10.85 0.97532 0.00054
11.20 0.96896 0.00051	11.10 0.97497 0.00052	10.90 0.97748 0.00052
11.25 0.97384 0.00051	11.15 0.97864 0.00052	10.95 0.98264 0.00052
11.30 0.97700 0.00052	11.20 0.98167 0.00053	11.00 0.98451 0.00052
11.35 0.98064 0.00051	11.25 0.98503 0.00053	11.05 0.98969 0.00054
11.40 0.98405 0.00050	11.30 0.98888 0.00051	11.10 0.99340 0.00054
11.45 0.98754 0.00051	11.40 0.99641 0.00052	11.15 0.99636 0.00053
11.50 0.99039 0.00052	11.45 1.00001 0.00052	11.20 0.99977 0.00054
11.55 0.99460 0.00052	11.50 1.00343 0.00052	11.25 1.00401 0.00053
11.60 0.99761 0.00051	11.55 1.00712 0.00053	11.30 1.00722 0.00053
11.65 1.00069 0.00052	11.60 1.01086 0.00051	11.35 1.01035 0.00053
11.70 1.00477 0.00051	11.65 1.01343 0.00052	11.40 1.01400 0.00052
11.75 1.00790 0.00051	11.70 1.01686 0.00051	11.45 1.01850 0.00051
11.80 1.01147 0.00050	11.75 1.01998 0.00051	11.50 1.02187 0.00052
11.85 1.01504 0.00052	11.80 1.02470 0.00054	
11.90 1.01691 0.00052		
11.95 1.02107 0.00050		
12.00 1.02371 0.00052		

235	250	353
10.10 0.92172 0.00053	10.10 0.92351 0.00053	10.00 0.91575 0.00051
10.15 0.92506 0.00053	10.15 0.92676 0.00053	10.05 0.91947 0.00051
10.20 0.92878 0.00053	10.20 0.93146 0.00053	10.10 0.92348 0.00055
10.25 0.93216 0.00052	10.25 0.93603 0.00053	10.15 0.92756 0.00052
10.30 0.93801 0.00052	10.30 0.93987 0.00052	10.20 0.93099 0.00054
10.35 0.94170 0.00053	10.35 0.94252 0.00053	10.25 0.93454 0.00053
10.40 0.94559 0.00054	10.40 0.94684 0.00054	10.30 0.93920 0.00053
10.45 0.94871 0.00053	10.45 0.95104 0.00054	10.35 0.94350 0.00054
10.50 0.95300 0.00053	10.50 0.95572 0.00052	10.40 0.94679 0.00053
10.55 0.95773 0.00054	10.55 0.95993 0.00052	10.45 0.95104 0.00053
10.60 0.96117 0.00053	10.60 0.96283 0.00052	10.50 0.95514 0.00054
10.65 0.96565 0.00054	10.65 0.96635 0.00053	10.55 0.95937 0.00053
10.70 0.96893 0.00055	10.70 0.97057 0.00054	10.60 0.96271 0.00053
10.75 0.97287 0.00052	10.75 0.97356 0.00053	10.65 0.96526 0.00054
10.80 0.97545 0.00053	10.80 0.97768 0.00054	10.70 0.97026 0.00053
10.85 0.98071 0.00054	10.85 0.98181 0.00054	10.75 0.97369 0.00053
10.90 0.98328 0.00052	10.90 0.98478 0.00053	10.80 0.97727 0.00054
10.95 0.98664 0.00053	10.95 0.98984 0.00053	10.85 0.98058 0.00053
11.00 0.99116 0.00053	11.00 0.99221 0.00054	10.90 0.98425 0.00052
11.05 0.99497 0.00051	11.05 0.99651 0.00053	10.95 0.98879 0.00054
11.10 0.99814 0.00052	11.10 1.00050 0.00054	11.00 0.99359 0.00054
11.15 1.00130 0.00053	11.15 1.00460 0.00053	11.05 0.99604 0.00054
11.20 1.00649 0.00053	11.20 1.00825 0.00053	11.10 0.99996 0.00054
11.25 1.00957 0.00052	11.25 1.01063 0.00054	11.15 1.00307 0.00055
11.30 1.01369 0.00054	11.30 1.01560 0.00052	11.20 1.00656 0.00054
11.35 1.01677 0.00054	11.35 1.01769 0.00053	11.25 1.01071 0.00055
11.40 1.02045 0.00054	11.40 1.02235 0.00053	11.30 1.01451 0.00053
		11.35 1.01713 0.00055
		11.40 1.02172 0.00055

470	500	510
10.20 0.92043 0.00054	10.20 0.91657 0.00053	10.30 0.92189 0.00052
10.25 0.92440 0.00052	10.25 0.92046 0.00052	10.35 0.92667 0.00053
10.30 0.92902 0.00053	10.30 0.92465 0.00053	10.40 0.93089 0.00053
10.35 0.93300 0.00052	10.35 0.92879 0.00053	10.45 0.93402 0.00054
10.40 0.93590 0.00053	10.40 0.93147 0.00053	10.50 0.93861 0.00053
10.45 0.94001 0.00054	10.45 0.93504 0.00052	10.55 0.94245 0.00052
10.50 0.94435 0.00052	10.50 0.93995 0.00052	10.60 0.94649 0.00052
10.55 0.94851 0.00053	10.55 0.94400 0.00053	10.65 0.94871 0.00052
10.60 0.95119 0.00053	10.60 0.94718 0.00052	10.70 0.95375 0.00053
10.65 0.95548 0.00052	10.65 0.95074 0.00053	10.75 0.95671 0.00052
10.70 0.95901 0.00052	10.70 0.95532 0.00055	10.80 0.96127 0.00053
10.75 0.96369 0.00053	10.75 0.95872 0.00053	10.85 0.96524 0.00051
10.80 0.96607 0.00052	10.80 0.96359 0.00054	10.90 0.96790 0.00053
10.85 0.97069 0.00054	10.85 0.96562 0.00053	10.95 0.97235 0.00054
10.90 0.97377 0.00054	10.90 0.96995 0.00052	11.00 0.97520 0.00054
10.95 0.97755 0.00054	10.95 0.97309 0.00053	11.05 0.97918 0.00053
11.00 0.98113 0.00053	11.00 0.97577 0.00053	11.10 0.98188 0.00053
11.05 0.98452 0.00052	11.05 0.98050 0.00052	11.15 0.98584 0.00053
11.10 0.98850 0.00054	11.10 0.98375 0.00052	11.20 0.98946 0.00053
11.15 0.99268 0.00054	11.15 0.98728 0.00054	11.25 0.99381 0.00052
11.20 0.99608 0.00053	11.20 0.99069 0.00052	11.30 0.99647 0.00054
11.25 0.99890 0.00052	11.25 0.99496 0.00055	11.35 0.99934 0.00054
11.30 1.00246 0.00053	11.30 0.99851 0.00053	11.40 1.00383 0.00052
11.35 1.00621 0.00055	11.35 1.00106 0.00051	11.45 1.00675 0.00054
11.40 1.00985 0.00053	11.40 1.00526 0.00055	11.50 1.01087 0.00052
11.45 1.01254 0.00052	11.45 1.00893 0.00053	11.55 1.01460 0.00053
11.50 1.01735 0.00052	11.50 1.01205 0.00052	11.60 1.01671 0.00054
11.55 1.02026 0.00054	11.55 1.01517 0.00051	11.65 1.02073 0.00053
11.60 1.02307 0.00053	11.60 1.01925 0.00053	11.70 1.02346 0.00053
	11.65 1.02206 0.00055	
	11.70 1.02524 0.00055	

520	530	540
10.30 0.92157 0.00053	10.30 0.91968 0.00053	10.30 0.91848 0.00052
10.35 0.92604 0.00050	10.35 0.92390 0.00052	10.35 0.92260 0.00052
10.40 0.92908 0.00053	10.40 0.92662 0.00051	10.40 0.92611 0.00051
10.45 0.93376 0.00054	10.45 0.93219 0.00052	10.45 0.93001 0.00052
10.50 0.93684 0.00055	10.50 0.93585 0.00052	10.50 0.93362 0.00052
10.55 0.94008 0.00052	10.55 0.93913 0.00053	10.55 0.93841 0.00054
10.60 0.94405 0.00052	10.60 0.94236 0.00052	10.60 0.94119 0.00053
10.65 0.94928 0.00053	10.65 0.94654 0.00051	10.65 0.94424 0.00054
10.70 0.95132 0.00051	10.70 0.95059 0.00053	10.70 0.94865 0.00052
10.75 0.95488 0.00053	10.75 0.95448 0.00053	10.75 0.95308 0.00054
10.80 0.95928 0.00051	10.80 0.95826 0.00053	10.85 0.96013 0.00053
10.85 0.96298 0.00052	10.85 0.96180 0.00054	10.90 0.96384 0.00053

10.90 0.96705 0.00053	10.90 0.96532 0.00053	10.95 0.96662 0.00052
10.95 0.97059 0.00053	10.95 0.96862 0.00051	11.00 0.97076 0.00052
11.00 0.97386 0.00051	11.00 0.97285 0.00052	11.05 0.97362 0.00054
11.05 0.97793 0.00052	11.05 0.97420 0.00052	11.10 0.97847 0.00053
11.10 0.98149 0.00052	11.10 0.97837 0.00053	11.15 0.98246 0.00053
11.15 0.98453 0.00053	11.15 0.98245 0.00053	11.20 0.98498 0.00053
11.20 0.98851 0.00053	11.20 0.98760 0.00053	11.25 0.98863 0.00053
11.25 0.99102 0.00053	11.25 0.99087 0.00053	11.30 0.99226 0.00053
11.30 0.99418 0.00054	11.30 0.99352 0.00052	11.35 0.99554 0.00053
11.35 0.99788 0.00053	11.35 0.99686 0.00055	11.40 0.99894 0.00053
11.40 1.00225 0.00053	11.40 1.00057 0.00054	11.45 1.00183 0.00054
11.50 1.00876 0.00053	11.45 1.00461 0.00054	11.50 1.00412 0.00052
11.55 1.01295 0.00052	11.50 1.00801 0.00053	11.55 1.00851 0.00053
11.60 1.01586 0.00054	11.55 1.01124 0.00055	11.60 1.01335 0.00052
11.65 1.01796 0.00055	11.60 1.01323 0.00054	11.65 1.01608 0.00055
11.70 1.02251 0.00054	11.65 1.01738 0.00053	11.70 1.01993 0.00052
	11.70 1.02096 0.00052	11.75 1.02178 0.00053
		11.80 1.02604 0.00053

550	560
10.30 0.91795 0.00051	10.40 0.92325 0.00052
10.35 0.92158 0.00052	10.45 0.92649 0.00052
10.40 0.92371 0.00054	10.50 0.93047 0.00052
10.45 0.92809 0.00054	10.55 0.93504 0.00051
10.50 0.93287 0.00052	10.60 0.93928 0.00052
10.55 0.93671 0.00051	10.65 0.94216 0.00051
10.60 0.93896 0.00052	10.70 0.94596 0.00052
10.65 0.94343 0.00052	10.75 0.94888 0.00052
10.70 0.94652 0.00052	10.80 0.95259 0.00053
10.75 0.95137 0.00053	10.85 0.95621 0.00052
10.80 0.95453 0.00052	10.90 0.95954 0.00053
10.85 0.95806 0.00053	10.95 0.96387 0.00053
10.90 0.96126 0.00052	11.00 0.96790 0.00055
10.95 0.96502 0.00054	11.05 0.97153 0.00053
11.00 0.96978 0.00052	11.10 0.97380 0.00053
11.05 0.97262 0.00052	11.15 0.97873 0.00051
11.10 0.97619 0.00053	11.20 0.98061 0.00054
11.15 0.97922 0.00053	11.25 0.98492 0.00053
11.20 0.98363 0.00055	11.30 0.98860 0.00053
11.25 0.98641 0.00053	11.35 0.99155 0.00052
11.30 0.98940 0.00053	11.40 0.99645 0.00053
11.35 0.99339 0.00052	11.45 0.99921 0.00052
11.40 0.99701 0.00053	11.50 1.00239 0.00052
11.45 1.00100 0.00053	11.55 1.00476 0.00053
11.50 1.00361 0.00052	11.60 1.00876 0.00052
11.55 1.00778 0.00051	11.65 1.01279 0.00054
11.60 1.01013 0.00053	11.70 1.01561 0.00053
11.65 1.01383 0.00053	11.75 1.01998 0.00053
11.70 1.01799 0.00054	11.80 1.02247 0.00053
11.75 1.02118 0.00053	
11.80 1.02394 0.00054	

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12	15	20
33.50 0.83261 0.00019	31.80 0.92412 0.00022	20.70 0.92494 0.00028
33.70 0.83336 0.00019	31.85 0.92491 0.00022	21.00 0.92992 0.00029
33.90 0.83544 0.00020	31.90 0.92427 0.00023	21.30 0.93498 0.00029
34.10 0.83571 0.00019	31.95 0.92463 0.00022	21.60 0.94055 0.00028
34.30 0.83723 0.00020	32.00 0.92583 0.00022	21.90 0.94447 0.00029
34.50 0.83793 0.00020	32.05 0.92545 0.00021	22.20 0.94961 0.00029
34.70 0.83846 0.00019	32.10 0.92545 0.00021	22.50 0.95428 0.00028
34.90 0.83943 0.00019	32.15 0.92604 0.00022	22.80 0.95912 0.00027
35.10 0.84041 0.00019	32.20 0.92634 0.00022	23.10 0.96263 0.00027
35.30 0.84167 0.00019	32.25 0.92692 0.00022	23.40 0.96746 0.00028
35.50 0.84272 0.00019	32.30 0.92723 0.00022	23.70 0.97184 0.00028
35.70 0.84406 0.00019	32.35 0.92686 0.00022	24.00 0.97599 0.00027
35.90 0.84469 0.00019	32.40 0.92802 0.00022	24.30 0.97952 0.00027
36.10 0.84533 0.00019	32.45 0.92822 0.00022	24.60 0.98393 0.00027
36.30 0.84658 0.00019	32.50 0.92846 0.00022	24.90 0.98744 0.00028
36.50 0.84748 0.00019	32.55 0.92831 0.00022	25.20 0.99089 0.00028
36.70 0.84820 0.00019	32.60 0.92874 0.00022	25.50 0.99467 0.00027
36.90 0.84855 0.00019	32.65 0.92890 0.00023	25.80 0.99779 0.00027
37.10 0.84944 0.00019	32.70 0.92939 0.00022	26.10 1.00113 0.00027
37.30 0.85029 0.00019	32.75 0.92992 0.00022	26.40 1.00436 0.00027
37.50 0.85158 0.00019	32.80 0.93042 0.00022	26.70 1.00778 0.00027
37.70 0.85218 0.00018	32.85 0.93078 0.00022	27.00 1.01161 0.00026
37.90 0.85298 0.00018	32.90 0.93004 0.00022	27.20 1.01302 0.00027
	32.95 0.93119 0.00022	
	33.00 0.93130 0.00022	

25	30	32
16.90 0.92409 0.00033	14.90 0.92359 0.00035	14.40 0.92502 0.00036
17.10 0.93040 0.00032	15.00 0.92698 0.00035	14.50 0.92889 0.00037
17.30 0.93482 0.00033	15.10 0.93053 0.00035	14.60 0.93324 0.00037
17.50 0.93998 0.00033	15.20 0.93379 0.00036	14.70 0.93607 0.00035
17.70 0.94542 0.00032	15.30 0.93666 0.00034	14.80 0.94021 0.00036
17.90 0.95055 0.00032	15.40 0.94031 0.00035	14.90 0.94431 0.00035
18.10 0.95588 0.00034	15.50 0.94343 0.00035	15.00 0.94721 0.00036
18.30 0.96010 0.00031	15.60 0.94745 0.00036	15.10 0.95033 0.00036
18.50 0.96478 0.00032	15.70 0.94975 0.00035	15.20 0.95404 0.00035
18.70 0.96953 0.00031	15.80 0.95328 0.00036	15.30 0.95725 0.00036
18.90 0.97410 0.00032	15.90 0.95657 0.00035	15.40 0.96087 0.00034
19.10 0.97826 0.00033	16.00 0.96055 0.00035	15.50 0.96480 0.00037
19.30 0.98377 0.00032	16.10 0.96315 0.00036	15.60 0.96830 0.00035
19.50 0.98719 0.00032	16.20 0.96657 0.00035	15.70 0.97095 0.00034
19.70 0.99110 0.00031	16.30 0.96869 0.00035	15.80 0.97521 0.00036
19.90 0.99572 0.00031	16.40 0.97250 0.00035	15.90 0.97742 0.00036
20.10 1.00018 0.00032	16.50 0.97540 0.00035	16.00 0.98124 0.00036
20.30 1.00413 0.00032	16.60 0.97864 0.00034	16.10 0.98435 0.00036

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20.50 1.00849 0.00032	16.70 0.98164 0.00036	16.20 0.98729 0.00038
20.70 1.01134 0.00031	16.80 0.98446 0.00034	16.30 0.98986 0.00036
20.90 1.01577 0.00031	16.90 0.98711 0.00035	16.40 0.99347 0.00035
	17.00 0.98886 0.00035	16.50 0.99646 0.00035
	17.10 0.99351 0.00035	16.60 0.99944 0.00035
	17.20 0.99595 0.00035	16.70 1.00245 0.00036
	17.30 0.99865 0.00035	16.80 1.00548 0.00036
	17.40 1.00121 0.00034	16.90 1.00845 0.00035
	17.50 1.00396 0.00034	17.00 1.01175 0.00036
	17.60 1.00645 0.00034	17.10 1.01483 0.00033
	17.70 1.00925 0.00035	17.20 1.01743 0.00036
	17.80 1.01165 0.00034	
	17.90 1.01489 0.00034	
	18.00 1.01738 0.00035	

35	40	50
13.60 0.92000 0.00039	12.80 0.92209 0.00040	11.70 0.92239 0.00041
13.70 0.92445 0.00038	12.90 0.92794 0.00038	11.80 0.92844 0.00040
13.80 0.92877 0.00038	13.00 0.93278 0.00038	11.90 0.93314 0.00040
13.90 0.93312 0.00037	13.10 0.93621 0.00039	12.00 0.93987 0.00041
14.00 0.93698 0.00037	13.20 0.94126 0.00039	12.10 0.94503 0.00042
14.10 0.94066 0.00038	13.30 0.94618 0.00039	12.20 0.94926 0.00042
14.20 0.94538 0.00038	13.40 0.95031 0.00039	12.30 0.95493 0.00040
14.30 0.94908 0.00038	13.50 0.95498 0.00038	12.40 0.96154 0.00041
14.40 0.95292 0.00037	13.60 0.95897 0.00040	12.50 0.96519 0.00041
14.50 0.95619 0.00037	13.70 0.96369 0.00039	12.60 0.97037 0.00041
14.60 0.96029 0.00036	13.80 0.96713 0.00038	12.70 0.97526 0.00042
14.70 0.96382 0.00038	13.90 0.97151 0.00039	12.80 0.97960 0.00041
14.80 0.96817 0.00037	14.00 0.97559 0.00039	12.90 0.98513 0.00041
14.90 0.97088 0.00039	14.10 0.97930 0.00039	13.00 0.98886 0.00041
15.00 0.97575 0.00037	14.20 0.98384 0.00038	13.10 0.99487 0.00042
15.10 0.97820 0.00037	14.30 0.98856 0.00038	13.20 0.99962 0.00040
15.20 0.98255 0.00036	14.40 0.99192 0.00038	13.30 1.00417 0.00040
15.30 0.98584 0.00037	14.50 0.99582 0.00038	13.40 1.00813 0.00041
15.40 0.98960 0.00037	14.60 0.99967 0.00038	13.50 1.01302 0.00042
15.50 0.99317 0.00037	14.70 1.00333 0.00039	13.60 1.01671 0.00042
15.60 0.99617 0.00037	14.80 1.00768 0.00039	
15.70 0.99976 0.00037	14.90 1.01154 0.00039	
15.80 1.00287 0.00037	15.00 1.01449 0.00037	
15.90 1.00631 0.00038	15.10 1.01851 0.00038	
16.00 1.01037 0.00037		
16.10 1.01267 0.00037		
16.20 1.01672 0.00037		

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60			70			80		
11.00	0.92169	0.00042	10.50	0.92088	0.00044	10.20	0.92382	0.00046
11.10	0.92767	0.00042	10.55	0.92385	0.00044	10.25	0.92767	0.00044
11.20	0.93463	0.00042	10.60	0.92705	0.00044	10.30	0.93086	0.00045
11.30	0.94023	0.00043	10.65	0.93095	0.00045	10.35	0.93424	0.00044
11.40	0.94573	0.00042	10.70	0.93349	0.00045	10.40	0.93725	0.00044
11.50	0.95202	0.00042	10.75	0.93667	0.00044	10.45	0.94049	0.00043
11.60	0.95733	0.00042	10.80	0.94013	0.00045	10.50	0.94392	0.00046
11.70	0.96352	0.00042	10.85	0.94357	0.00044	10.55	0.94711	0.00044
11.80	0.96887	0.00042	10.90	0.94642	0.00043	10.60	0.95106	0.00045
11.90	0.97563	0.00043	10.95	0.95008	0.00044	10.65	0.95408	0.00044
12.00	0.97961	0.00041	11.00	0.95306	0.00043	10.70	0.95776	0.00045
12.10	0.98510	0.00042	11.05	0.95644	0.00044	10.75	0.96050	0.00044
12.20	0.99133	0.00043	11.10	0.95867	0.00044	10.80	0.96340	0.00044
12.30	0.99634	0.00043	11.15	0.96152	0.00043	10.85	0.96699	0.00044
12.40	1.00099	0.00042	11.20	0.96470	0.00045	10.90	0.96966	0.00045
12.50	1.00666	0.00042	11.25	0.96808	0.00044	10.95	0.97358	0.00045
12.60	1.01065	0.00043	11.30	0.97047	0.00043	11.00	0.97664	0.00044
12.70	1.01771	0.00043	11.35	0.97391	0.00043	11.05	0.97990	0.00044
12.80	1.02213	0.00042	11.40	0.97714	0.00044	11.10	0.98279	0.00046
			11.45	0.98001	0.00044	11.15	0.98540	0.00045
			11.50	0.98296	0.00044	11.20	0.98937	0.00043
			11.55	0.98546	0.00044	11.25	0.99153	0.00045
			11.60	0.98861	0.00045	11.30	0.99480	0.00044
			11.65	0.99236	0.00043	11.35	0.99778	0.00045
			11.70	0.99521	0.00044	11.40	1.00122	0.00046
			11.75	0.99759	0.00044	11.45	1.00430	0.00045
			11.80	0.99973	0.00043	11.50	1.00691	0.00046
			11.85	1.00411	0.00043	11.55	1.01039	0.00045
			11.90	1.00646	0.00044	11.60	1.01306	0.00045
			11.95	1.00816	0.00044	11.65	1.01601	0.00046
			12.00	1.01161	0.00045	11.70	1.01878	0.00046
			12.05	1.01384	0.00045			
			12.10	1.01728	0.00044			
			12.15	1.01968	0.00044			
			12.20	1.02299	0.00044			

90	100	118
9.90 0.92144 0.00046	9.70 0.92161 0.00046	9.40 0.92044 0.00048
9.95 0.92539 0.00045	9.75 0.92522 0.00046	9.45 0.92342 0.00046
10.00 0.92870 0.00046	9.80 0.92931 0.00046	9.50 0.92799 0.00047
10.05 0.93315 0.00046	9.85 0.93294 0.00047	9.55 0.93198 0.00046
10.10 0.93604 0.00045	9.90 0.93684 0.00047	9.60 0.93503 0.00045
10.15 0.94006 0.00045	9.95 0.93955 0.00045	9.65 0.93862 0.00046
10.20 0.94262 0.00046	10.00 0.94361 0.00046	9.70 0.94304 0.00047
10.25 0.94642 0.00044	10.05 0.94780 0.00045	9.75 0.94588 0.00047
10.30 0.94955 0.00045	10.10 0.95126 0.00046	9.80 0.95021 0.00046
10.35 0.95314 0.00045	10.15 0.95432 0.00046	9.85 0.95367 0.00046
10.40 0.95611 0.00046	10.20 0.95793 0.00047	9.90 0.95800 0.00048

10.45 0.96102 0.00045	10.25 0.96141 0.00047	9.95 0.96033 0.00048
10.50 0.96350 0.00045	10.30 0.96443 0.00048	10.00 0.96499 0.00047
10.55 0.96674 0.00046	10.35 0.96802 0.00047	10.05 0.96744 0.00048
10.60 0.97110 0.00045	10.40 0.97201 0.00045	10.10 0.97160 0.00047
10.65 0.97382 0.00044	10.45 0.97483 0.00045	10.15 0.97568 0.00048
10.70 0.97591 0.00044	10.50 0.97769 0.00047	10.20 0.97930 0.00046
10.75 0.98040 0.00044	10.55 0.98207 0.00046	10.25 0.98277 0.00047
10.80 0.98286 0.00046	10.60 0.98562 0.00045	10.30 0.98574 0.00046
10.85 0.98615 0.00046	10.65 0.98852 0.00045	10.35 0.98973 0.00046
10.90 0.98934 0.00046	10.70 0.99117 0.00045	10.40 0.99384 0.00047
10.95 0.99291 0.00045	10.75 0.99534 0.00048	10.45 0.99766 0.00047
11.00 0.99639 0.00047	10.80 0.99842 0.00046	10.50 0.99950 0.00047
11.05 0.99888 0.00046	10.85 1.00250 0.00047	10.55 1.00390 0.00046
11.10 1.00238 0.00045	10.90 1.00455 0.00046	10.60 1.00733 0.00048
11.15 1.00560 0.00046	10.95 1.00846 0.00047	10.65 1.00928 0.00048
11.20 1.00827 0.00045	11.00 1.01130 0.00046	10.70 1.01240 0.00047
11.25 1.01269 0.00046	11.05 1.01432 0.00047	10.75 1.01691 0.00046
11.30 1.01495 0.00046	11.10 1.01875 0.00047	10.80 1.02021 0.00047
11.35 1.01835 0.00048		
11.40 1.02092 0.00046		

130	150	200
9.30 0.92355 0.00048	9.10 0.92198 0.00047	8.80 0.91850 0.00047
9.35 0.92668 0.00047	9.15 0.92508 0.00047	8.85 0.92198 0.00048
9.40 0.93123 0.00048	9.20 0.92944 0.00047	8.90 0.92677 0.00049
9.45 0.93459 0.00047	9.25 0.93331 0.00049	8.95 0.93078 0.00046
9.50 0.93748 0.00048	9.30 0.93713 0.00047	9.00 0.93434 0.00049
9.55 0.94266 0.00048	9.35 0.94137 0.00047	9.05 0.93869 0.00048
9.60 0.94613 0.00048	9.40 0.94397 0.00047	9.10 0.94323 0.00047
9.65 0.94965 0.00046	9.45 0.94970 0.00048	9.15 0.94763 0.00048
9.70 0.95418 0.00047	9.50 0.95327 0.00049	9.20 0.95070 0.00049
9.75 0.95744 0.00047	9.55 0.95645 0.00049	9.25 0.95490 0.00048
9.80 0.96055 0.00047	9.60 0.96058 0.00047	9.30 0.95933 0.00050
9.85 0.96467 0.00047	9.65 0.96344 0.00047	9.35 0.96208 0.00050
9.90 0.96741 0.00048	9.70 0.96712 0.00049	9.40 0.96708 0.00049
9.95 0.97207 0.00048	9.75 0.97094 0.00049	9.45 0.97100 0.00048
10.00 0.97563 0.00047	9.80 0.97546 0.00047	9.50 0.97381 0.00049
10.05 0.97979 0.00047	9.85 0.97836 0.00049	9.55 0.97831 0.00049
10.10 0.98259 0.00047	9.90 0.98275 0.00047	9.60 0.98164 0.00049
10.15 0.98721 0.00047	9.95 0.98667 0.00047	9.65 0.98526 0.00050
10.20 0.99106 0.00045	10.00 0.99033 0.00048	9.70 0.98936 0.00049
10.25 0.99428 0.00048	10.05 0.99379 0.00049	9.75 0.99345 0.00050
10.30 0.99773 0.00048	10.10 0.99664 0.00048	9.80 0.99629 0.00048
10.35 1.00027 0.00047	10.15 1.00116 0.00048	9.85 1.00121 0.00049
10.40 1.00409 0.00048	10.20 1.00494 0.00048	9.90 1.00322 0.00049
10.45 1.00742 0.00048	10.25 1.00805 0.00048	9.95 1.00757 0.00049
10.50 1.01159 0.00048	10.30 1.01181 0.00048	10.00 1.01191 0.00051
10.55 1.01417 0.00047	10.35 1.01528 0.00048	10.05 1.01508 0.00048
10.60 1.01800 0.00046	10.40 1.01826 0.00047	10.10 1.01899 0.00050
10.65 1.02128 0.00048	10.45 1.02219 0.00051	
10.70 1.02382 0.00048	10.50 1.02526 0.00049	

235	250	353
8.70 0.91812 0.00049	8.70 0.92001 0.00049	8.60 0.91931 0.00047
8.75 0.92234 0.00048	8.75 0.92479 0.00048	8.65 0.92167 0.00049
8.80 0.92702 0.00048	8.80 0.92817 0.00049	8.70 0.92690 0.00050
8.85 0.92998 0.00049	8.85 0.93369 0.00048	8.75 0.93064 0.00050
8.90 0.93553 0.00048	8.90 0.93776 0.00049	8.80 0.93555 0.00049
8.95 0.93868 0.00049	8.95 0.94115 0.00049	8.85 0.93916 0.00049
9.00 0.94317 0.00049	9.00 0.94501 0.00049	8.90 0.94265 0.00051
9.05 0.94545 0.00048	9.05 0.94915 0.00049	8.95 0.94748 0.00049
9.10 0.95079 0.00049	9.10 0.95309 0.00050	9.00 0.95091 0.00050
9.15 0.95479 0.00048	9.15 0.95773 0.00048	9.05 0.95528 0.00050
9.20 0.95919 0.00050	9.20 0.96150 0.00048	9.10 0.95961 0.00049
9.25 0.96233 0.00048	9.25 0.96483 0.00048	9.15 0.96304 0.00051
9.30 0.96758 0.00049	9.30 0.97006 0.00049	9.20 0.96737 0.00049
9.35 0.97082 0.00051	9.35 0.97413 0.00051	9.25 0.97098 0.00050
9.40 0.97492 0.00049	9.40 0.97712 0.00048	9.30 0.97377 0.00048
9.45 0.97891 0.00049	9.45 0.98118 0.00050	9.35 0.97805 0.00049
9.50 0.98315 0.00049	9.50 0.98487 0.00050	9.40 0.98261 0.00051
9.55 0.98623 0.00049	9.55 0.98886 0.00049	9.45 0.98648 0.00048
9.60 0.99078 0.00051	9.60 0.99351 0.00049	9.50 0.98914 0.00049
9.65 0.99372 0.00049	9.65 0.99602 0.00048	9.55 0.99371 0.00049
9.70 0.99714 0.00049	9.70 0.99973 0.00049	9.60 0.99685 0.00048
9.75 1.00175 0.00049	9.75 1.00322 0.00049	9.65 1.00156 0.00049
9.80 1.00459 0.00047	9.80 1.00707 0.00049	9.70 1.00460 0.00049
9.85 1.00799 0.00048	9.85 1.01076 0.00049	9.75 1.00821 0.00049
9.90 1.01221 0.00050	9.90 1.01411 0.00049	9.80 1.01229 0.00049
9.95 1.01655 0.00049	9.95 1.01819 0.00050	9.85 1.01513 0.00051
10.00 1.01955 0.00049	10.00 1.02251 0.00050	9.95 1.02293 0.00050
		10.00 1.02637 0.00049

470	500	510
8.70 0.92256 0.00046	8.70 0.92052 0.00048	8.70 0.91893 0.00048
8.75 0.92651 0.00047	8.75 0.92397 0.00049	8.75 0.92251 0.00047
8.80 0.93049 0.00049	8.80 0.92825 0.00050	8.80 0.92682 0.00049
8.85 0.93377 0.00047	8.85 0.93151 0.00049	8.85 0.93070 0.00048
8.90 0.93880 0.00047	8.90 0.93514 0.00049	8.90 0.93398 0.00049
8.95 0.94246 0.00048	8.95 0.93948 0.00049	8.95 0.93874 0.00049
9.00 0.94526 0.00048	9.00 0.94308 0.00049	9.00 0.94288 0.00048
9.05 0.95069 0.00049	9.05 0.94627 0.00048	9.05 0.94623 0.00050
9.10 0.95412 0.00050	9.10 0.95111 0.00048	9.10 0.95063 0.00050
9.15 0.95790 0.00049	9.15 0.95588 0.00049	9.15 0.95363 0.00050
9.20 0.96244 0.00049	9.20 0.95849 0.00049	9.20 0.95888 0.00050
9.25 0.96564 0.00050	9.25 0.96258 0.00048	9.25 0.96140 0.00050
9.30 0.96981 0.00049	9.30 0.96551 0.00048	9.30 0.96562 0.00049
9.35 0.97272 0.00049	9.35 0.97094 0.00050	9.35 0.96934 0.00048
9.40 0.97763 0.00050	9.40 0.97428 0.00049	9.40 0.97236 0.00050
9.45 0.98031 0.00048	9.45 0.97825 0.00050	9.45 0.97668 0.00048
9.50 0.98366 0.00049	9.55 0.98529 0.00050	9.50 0.97982 0.00049
9.55 0.98671 0.00050	9.60 0.98835 0.00050	9.55 0.98330 0.00048

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9.60 0.99252 0.00049	9.65 0.99222 0.00049	9.60 0.98750 0.00049
9.65 0.99499 0.00049	9.70 0.99616 0.00049	9.65 0.99108 0.00050
9.70 0.99896 0.00048	9.75 0.99966 0.00050	9.70 0.99434 0.00048
9.75 1.00281 0.00048	9.80 1.00326 0.00050	9.75 0.99728 0.00048
9.80 1.00508 0.00051	9.85 1.00664 0.00051	9.80 1.00181 0.00049
9.85 1.00957 0.00048	9.90 1.01087 0.00049	9.85 1.00459 0.00049
9.90 1.01332 0.00049	9.95 1.01434 0.00050	9.90 1.00975 0.00049
9.95 1.01598 0.00050	10.00 1.01741 0.00050	9.95 1.01176 0.00049
10.00 1.02027 0.00048	10.05 1.02065 0.00048	10.00 1.01562 0.00049
	10.10 1.02287 0.00050	10.05 1.01886 0.00050
		10.10 1.02208 0.00050

520	530	540
8.70 0.91741 0.00049	8.70 0.91687 0.00049	8.70 0.91642 0.00049
8.75 0.92223 0.00048	8.75 0.92001 0.00049	8.75 0.91939 0.00049
8.80 0.92538 0.00050	8.80 0.92485 0.00048	8.80 0.92387 0.00047
8.85 0.92882 0.00049	8.85 0.92822 0.00050	8.85 0.92804 0.00050
8.90 0.93370 0.00050	8.90 0.93256 0.00049	8.90 0.93121 0.00049
8.95 0.93675 0.00048	8.95 0.93684 0.00049	8.95 0.93493 0.00049
9.00 0.94255 0.00050	9.00 0.94139 0.00048	9.00 0.93966 0.00050
9.05 0.94606 0.00049	9.05 0.94478 0.00048	9.05 0.94385 0.00049
9.10 0.94843 0.00049	9.10 0.94789 0.00048	9.10 0.94633 0.00048
9.15 0.95234 0.00049	9.15 0.95186 0.00049	9.15 0.95149 0.00048
9.20 0.95649 0.00049	9.20 0.95572 0.00050	9.20 0.95558 0.00048
9.25 0.95999 0.00048	9.25 0.95958 0.00048	9.25 0.95849 0.00049
9.30 0.96536 0.00048	9.30 0.96332 0.00049	9.30 0.96224 0.00049
9.35 0.96816 0.00050	9.35 0.96758 0.00048	9.35 0.96561 0.00049
9.40 0.97129 0.00049	9.40 0.96930 0.00049	9.40 0.96932 0.00048
9.45 0.97530 0.00050	9.45 0.97511 0.00048	9.45 0.97341 0.00049
9.50 0.97973 0.00049	9.50 0.97779 0.00048	9.60 0.98438 0.00049
9.55 0.98318 0.00049	9.55 0.98169 0.00049	9.65 0.98693 0.00047
9.60 0.98663 0.00049	9.60 0.98628 0.00049	9.70 0.99077 0.00050
9.65 0.98950 0.00049	9.65 0.98829 0.00049	9.75 0.99542 0.00048
9.70 0.99428 0.00048	9.70 0.99241 0.00049	9.80 0.99776 0.00050
9.75 0.99738 0.00048	9.75 0.99546 0.00048	9.85 1.00196 0.00049
9.80 1.00199 0.00049	9.80 0.99986 0.00049	9.90 1.00546 0.00050
9.85 1.00406 0.00049	9.85 1.00298 0.00049	9.95 1.00832 0.00049
9.90 1.00802 0.00050	9.90 1.00679 0.00049	10.00 1.01205 0.00048
9.95 1.01137 0.00050	9.95 1.00966 0.00050	10.05 1.01548 0.00050
10.00 1.01457 0.00048	10.00 1.01385 0.00051	10.10 1.01934 0.00050
10.05 1.01749 0.00050	10.05 1.01767 0.00050	
10.10 1.02183 0.00049	10.10 1.02011 0.00048	

550	560
8.80 0.92258 0.00048	8.80 0.92183 0.00048
8.85 0.92696 0.00048	8.85 0.92602 0.00048
8.90 0.93079 0.00047	8.90 0.92952 0.00048
8.95 0.93386 0.00048	8.95 0.93283 0.00049
9.00 0.93834 0.00049	9.00 0.93791 0.00048
9.05 0.94223 0.00048	9.05 0.94150 0.00048
9.10 0.94578 0.00049	9.10 0.94524 0.00048
9.15 0.94968 0.00049	9.15 0.94894 0.00049
9.20 0.95399 0.00049	9.20 0.95196 0.00049
9.25 0.95785 0.00048	9.25 0.95660 0.00050
9.30 0.96186 0.00048	9.30 0.95981 0.00048
9.35 0.96434 0.00049	9.35 0.96362 0.00048
9.40 0.96839 0.00048	9.40 0.96662 0.00050
9.45 0.97260 0.00049	9.45 0.97066 0.00049
9.50 0.97680 0.00049	9.50 0.97486 0.00048
9.55 0.97998 0.00049	9.55 0.97777 0.00049
9.60 0.98290 0.00048	9.60 0.98160 0.00049
9.65 0.98623 0.00049	9.65 0.98457 0.00048
9.70 0.98950 0.00048	9.70 0.98960 0.00049
9.75 0.99325 0.00050	9.75 0.99235 0.00050
9.80 0.99748 0.00048	9.80 0.99557 0.00050
9.85 1.00130 0.00050	9.85 0.99971 0.00049
9.90 1.00445 0.00050	9.90 1.00306 0.00050
9.95 1.00705 0.00047	9.95 1.00607 0.00049
10.00 1.01103 0.00049	10.00 1.00934 0.00049
10.05 1.01454 0.00050	10.05 1.01361 0.00050
10.10 1.01793 0.00048	10.10 1.01635 0.00050
	10.15 1.02089 0.00051
	10.20 1.02271 0.00050

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12	15	20
64.30 0.86295 0.00016	37.70 0.89860 0.00022	26.50 0.92690 0.00029
65.20 0.86478 0.00016	38.40 0.90261 0.00022	27.00 0.93351 0.00030
66.10 0.86576 0.00016	39.10 0.90610 0.00022	27.50 0.93948 0.00029
67.00 0.86662 0.00016	39.80 0.90968 0.00022	28.00 0.94629 0.00029
67.90 0.86781 0.00016	40.50 0.91343 0.00022	28.50 0.95215 0.00028
68.80 0.86909 0.00015	41.20 0.91615 0.00022	29.00 0.95816 0.00029
69.70 0.86975 0.00016	41.90 0.91912 0.00021	29.50 0.96319 0.00029
70.60 0.87006 0.00015	42.60 0.92205 0.00021	30.00 0.96924 0.00028
71.50 0.87100 0.00016	43.30 0.92380 0.00021	30.50 0.97410 0.00028
72.40 0.87157 0.00015	44.00 0.92698 0.00021	31.00 0.97858 0.00028
73.30 0.87260 0.00016	44.70 0.92928 0.00021	31.50 0.98296 0.00027
74.20 0.87360 0.00015	45.40 0.93190 0.00021	32.00 0.98763 0.00027
75.10 0.87445 0.00015	46.10 0.93389 0.00020	32.50 0.99198 0.00027
76.00 0.87474 0.00015	46.80 0.93622 0.00020	33.00 0.99677 0.00028
76.90 0.87550 0.00014	47.50 0.93888 0.00020	33.50 0.99987 0.00027
77.80 0.87584 0.00015	48.20 0.94020 0.00020	34.00 1.00390 0.00026

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78.70 0.87688 0.00015	48.90 0.94232 0.00020	34.50 1.00824 0.00026
79.60 0.87696 0.00014	49.60 0.94402 0.00021	35.00 1.01216 0.00026
80.50 0.87736 0.00015	50.30 0.94648 0.00019	35.50 1.01516 0.00026
81.40 0.87827 0.00015	51.00 0.94750 0.00020	36.00 1.01890 0.00026
82.30 0.87916 0.00015	51.70 0.94938 0.00019	36.50 1.02211 0.00026
82.40 0.87914 0.00015	52.40 0.95094 0.00019	
	52.50 0.95157 0.00019	

25	30	32
21.50 0.92357 0.00033	19.10 0.92358 0.00039	18.40 0.92165 0.00038
21.70 0.92759 0.00035	19.20 0.92587 0.00037	18.50 0.92504 0.00039
21.90 0.93362 0.00035	19.30 0.92886 0.00038	18.60 0.92828 0.00039
22.10 0.93642 0.00035	19.40 0.93232 0.00037	18.70 0.93189 0.00040
22.30 0.94150 0.00034	19.50 0.93477 0.00036	18.80 0.93460 0.00039
22.50 0.94557 0.00034	19.60 0.93763 0.00037	18.90 0.93766 0.00038
22.70 0.94976 0.00034	19.70 0.94093 0.00037	19.20 0.94740 0.00039
22.90 0.95446 0.00034	19.80 0.94336 0.00038	19.30 0.95050 0.00039
23.10 0.95795 0.00034	19.90 0.94636 0.00037	19.40 0.95256 0.00039
23.30 0.96247 0.00034	20.00 0.94935 0.00038	19.50 0.95639 0.00038
23.50 0.96590 0.00033	20.10 0.95128 0.00038	19.60 0.95891 0.00039
23.70 0.97015 0.00033	20.20 0.95468 0.00037	19.70 0.96164 0.00038
23.90 0.97357 0.00033	20.30 0.95773 0.00036	19.80 0.96514 0.00038
24.10 0.97737 0.00033	20.40 0.96054 0.00037	19.90 0.96851 0.00038
24.30 0.98040 0.00033	20.50 0.96331 0.00037	20.00 0.97131 0.00038
24.50 0.98398 0.00033	20.60 0.96471 0.00037	20.10 0.97329 0.00038
24.70 0.98767 0.00033	20.70 0.96866 0.00037	20.20 0.97658 0.00037
24.90 0.99092 0.00033	20.80 0.97019 0.00037	20.30 0.97894 0.00037
25.10 0.99387 0.00033	20.90 0.97371 0.00038	20.40 0.98239 0.00038
25.30 0.99759 0.00033	21.00 0.97605 0.00038	20.50 0.98472 0.00038
25.50 1.00074 0.00033	21.10 0.97766 0.00037	20.60 0.98729 0.00037
25.70 1.00376 0.00033	21.20 0.98091 0.00036	20.70 0.98942 0.00038
25.90 1.00702 0.00032	21.30 0.98304 0.00036	20.80 0.99243 0.00038
26.10 1.01078 0.00032	21.40 0.98591 0.00036	20.90 0.99577 0.00038
26.30 1.01337 0.00033	21.50 0.98898 0.00036	21.00 0.99789 0.00039
26.40 1.01574 0.00032	21.60 0.99043 0.00036	21.10 1.00072 0.00037
	21.70 0.99275 0.00037	21.20 1.00247 0.00038
	21.80 0.99567 0.00037	21.30 1.00565 0.00038
	21.90 0.99697 0.00036	21.40 1.00856 0.00037
	22.00 1.00022 0.00037	21.50 1.01008 0.00037
	22.10 1.00235 0.00036	21.60 1.01189 0.00036
	22.20 1.00510 0.00037	21.70 1.01554 0.00037
	22.30 1.00692 0.00037	
	22.40 1.00935 0.00036	
	22.50 1.01121 0.00036	
	22.60 1.01370 0.00036	
	22.70 1.01599 0.00036	
	22.80 1.01833 0.00036	

35	40	50
17.60 0.92137 0.00041	16.60 0.91974 0.00042	15.40 0.92187 0.00045
17.70 0.92576 0.00040	16.70 0.92382 0.00042	15.50 0.92668 0.00045
17.80 0.92811 0.00040	16.80 0.92844 0.00043	15.60 0.93149 0.00046
17.90 0.93213 0.00041	16.90 0.93279 0.00042	15.70 0.93654 0.00046
18.00 0.93548 0.00040	17.00 0.93614 0.00043	15.80 0.94027 0.00046
18.10 0.93907 0.00041	17.10 0.94138 0.00042	15.90 0.94649 0.00045
18.20 0.94247 0.00039	17.20 0.94443 0.00042	16.00 0.95049 0.00044
18.30 0.94544 0.00040	17.30 0.94822 0.00041	16.10 0.95456 0.00045
18.40 0.94913 0.00041	17.40 0.95258 0.00041	16.20 0.95976 0.00046
18.50 0.95295 0.00039	17.50 0.95607 0.00043	16.30 0.96352 0.00045
18.60 0.95631 0.00039	17.60 0.95946 0.00042	16.40 0.96895 0.00047
18.70 0.95912 0.00040	17.70 0.96371 0.00043	16.50 0.97340 0.00045
18.80 0.96207 0.00040	17.80 0.96697 0.00041	16.60 0.97794 0.00045
18.90 0.96600 0.00041	17.90 0.97066 0.00041	16.70 0.98079 0.00045
19.00 0.97003 0.00039	18.00 0.97481 0.00042	16.80 0.98626 0.00044
19.10 0.97245 0.00040	18.10 0.97864 0.00042	16.90 0.99029 0.00043
19.20 0.97471 0.00038	18.20 0.98133 0.00041	17.00 0.99377 0.00045
19.30 0.97907 0.00039	18.30 0.98527 0.00042	17.10 0.99863 0.00045
19.40 0.98117 0.00040	18.40 0.98842 0.00042	17.20 1.00292 0.00045
19.50 0.98500 0.00040	18.50 0.99232 0.00041	17.30 1.00730 0.00044
19.60 0.98722 0.00039	18.60 0.99589 0.00041	17.40 1.01082 0.00045
19.70 0.99056 0.00040	18.70 0.99968 0.00042	17.50 1.01495 0.00044
19.80 0.99345 0.00039	18.80 1.00211 0.00042	17.60 1.01967 0.00045
19.90 0.99602 0.00041	18.90 1.00548 0.00041	
20.00 0.99972 0.00039	19.00 1.00918 0.00042	
20.10 1.00206 0.00041	19.10 1.01218 0.00041	
20.30 1.00852 0.00038	19.20 1.01595 0.00041	
20.40 1.01086 0.00039	19.30 1.01855 0.00041	
20.50 1.01345 0.00040		
20.60 1.01588 0.00040		
60	70	80
14.60 0.91909 0.00048	14.10 0.92024 0.00048	13.70 0.91887 0.00048
14.70 0.92483 0.00048	14.30 0.93212 0.00049	13.80 0.92209 0.00051
14.80 0.93132 0.00047	14.40 0.93714 0.00050	13.90 0.92915 0.00049
14.90 0.93631 0.00048	14.50 0.94247 0.00050	14.00 0.93535 0.00050
15.00 0.94149 0.00047	14.60 0.94844 0.00050	14.10 0.94185 0.00050
15.10 0.94583 0.00047	14.70 0.95558 0.00048	14.20 0.94846 0.00050
15.20 0.95213 0.00046	14.80 0.95908 0.00050	14.30 0.95395 0.00050
15.30 0.95699 0.00046	14.90 0.96611 0.00048	14.40 0.95953 0.00051
15.40 0.96155 0.00048	15.00 0.97221 0.00047	14.60 0.97053 0.00049
15.50 0.96628 0.00047	15.10 0.97685 0.00048	14.70 0.97720 0.00050
15.60 0.97152 0.00049	15.20 0.98205 0.00048	14.80 0.98252 0.00050
15.70 0.97676 0.00047	15.30 0.98697 0.00049	14.90 0.98820 0.00049
15.80 0.98145 0.00046	15.40 0.99235 0.00049	15.00 0.99400 0.00051
15.90 0.98602 0.00047	15.50 0.99864 0.00049	15.10 0.99953 0.00050
16.00 0.99185 0.00046	15.60 1.00215 0.00049	15.20 1.00510 0.00049

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16.10 0.99584 0.00048	15.70 1.00770 0.00049	15.30 1.01030 0.00050
16.20 1.00122 0.00046	15.80 1.01123 0.00048	15.40 1.01524 0.00049
16.30 1.00484 0.00047	15.90 1.01825 0.00050	15.50 1.02061 0.00050
16.40 1.00964 0.00046		
16.50 1.01486 0.00045		
16.60 1.01959 0.00047		

90	100	118
13.40 0.91591 0.00051	13.30 0.92329 0.00051	13.00 0.92182 0.00052
13.45 0.91914 0.00050	13.35 0.92667 0.00052	13.05 0.92544 0.00051
13.50 0.92154 0.00052	13.40 0.92951 0.00051	13.10 0.92738 0.00053
13.55 0.92503 0.00051	13.45 0.93307 0.00052	13.15 0.93142 0.00053
13.60 0.92765 0.00051	13.50 0.93577 0.00051	13.20 0.93427 0.00052
13.65 0.93191 0.00050	13.55 0.94016 0.00052	13.25 0.93839 0.00052
13.70 0.93494 0.00050	13.60 0.94188 0.00052	13.30 0.94082 0.00052
13.75 0.93742 0.00051	13.65 0.94670 0.00051	13.35 0.94443 0.00053
13.80 0.94083 0.00051	13.75 0.95134 0.00051	13.40 0.94945 0.00053
13.85 0.94497 0.00051	13.80 0.95427 0.00052	13.45 0.95152 0.00053
13.90 0.94792 0.00049	13.85 0.95848 0.00052	13.60 0.96095 0.00051
13.95 0.94998 0.00051	13.90 0.96248 0.00051	13.65 0.96374 0.00053
14.00 0.95390 0.00052	14.00 0.96689 0.00051	13.70 0.96894 0.00053
14.05 0.95759 0.00052	14.05 0.97130 0.00052	13.75 0.97167 0.00052
14.10 0.95950 0.00051	14.10 0.97369 0.00052	13.80 0.97418 0.00052
14.15 0.96298 0.00052	14.15 0.97747 0.00052	13.85 0.97672 0.00052
14.20 0.96547 0.00051	14.20 0.97950 0.00052	13.90 0.98106 0.00053
14.25 0.96876 0.00051	14.25 0.98404 0.00053	13.95 0.98427 0.00052
14.30 0.97149 0.00052	14.30 0.98700 0.00052	14.00 0.98671 0.00052
14.35 0.97460 0.00050	14.35 0.98954 0.00052	14.05 0.99016 0.00052
14.40 0.97911 0.00052	14.40 0.99161 0.00053	14.10 0.99296 0.00053
14.45 0.98080 0.00052	14.45 0.99600 0.00052	14.15 0.99699 0.00054
14.50 0.98351 0.00052	14.50 0.99863 0.00051	14.20 0.99974 0.00053
14.55 0.98689 0.00050	14.55 1.00111 0.00053	14.25 1.00289 0.00053
14.60 0.98951 0.00049	14.60 1.00418 0.00051	14.30 1.00617 0.00053
14.65 0.99317 0.00050	14.65 1.00661 0.00051	14.35 1.00835 0.00053
14.70 0.99667 0.00052	14.70 1.01098 0.00051	14.40 1.01124 0.00052
14.75 0.99780 0.00050	14.75 1.01305 0.00052	14.45 1.01477 0.00052
14.80 1.00089 0.00052	14.80 1.01561 0.00051	14.50 1.01800 0.00054
14.85 1.00391 0.00051	14.85 1.01926 0.00051	14.55 1.02144 0.00051
14.90 1.00717 0.00050	14.90 1.02154 0.00053	14.60 1.02410 0.00053
14.95 1.00964 0.00051		
15.00 1.01110 0.00051		
15.05 1.01575 0.00051		
15.10 1.01749 0.00051		

130	150	200
12.80 0.91760 0.00054	12.70 0.92144 0.00054	12.40 0.91366 0.00055
12.85 0.92094 0.00053	12.75 0.92462 0.00053	12.45 0.91822 0.00054
12.90 0.92423 0.00052	12.80 0.92882 0.00054	12.50 0.92261 0.00057
12.95 0.92623 0.00053	12.85 0.93200 0.00055	12.55 0.92661 0.00055
13.00 0.93039 0.00053	12.90 0.93599 0.00053	12.60 0.92923 0.00054
13.05 0.93517 0.00055	12.95 0.93827 0.00054	12.65 0.93300 0.00056
13.10 0.93818 0.00052	13.00 0.94306 0.00052	12.70 0.93573 0.00055
13.15 0.94159 0.00052	13.05 0.94596 0.00054	12.75 0.93977 0.00056
13.20 0.94477 0.00053	13.10 0.94996 0.00054	12.80 0.94244 0.00055
13.25 0.94818 0.00053	13.15 0.95371 0.00054	12.85 0.94805 0.00055
13.30 0.95101 0.00055	13.20 0.95598 0.00055	12.90 0.95188 0.00054
13.35 0.95455 0.00053	13.25 0.95976 0.00054	12.95 0.95461 0.00055
13.40 0.95833 0.00053	13.30 0.96332 0.00054	13.00 0.95801 0.00054
13.45 0.96287 0.00052	13.35 0.96663 0.00053	13.05 0.96084 0.00055
13.50 0.96558 0.00054	13.40 0.97079 0.00054	13.10 0.96485 0.00055
13.55 0.96844 0.00054	13.45 0.97361 0.00053	13.15 0.96858 0.00055
13.60 0.97147 0.00055	13.50 0.97809 0.00054	13.20 0.97199 0.00055
13.65 0.97570 0.00053	13.55 0.98052 0.00054	13.25 0.97577 0.00054
13.70 0.97804 0.00053	13.60 0.98398 0.00055	13.30 0.97862 0.00055
13.75 0.98179 0.00053	13.65 0.98742 0.00053	13.35 0.98241 0.00056
13.80 0.98434 0.00053	13.70 0.99063 0.00055	13.40 0.98615 0.00055
13.85 0.98844 0.00055	13.75 0.99393 0.00054	13.45 0.98904 0.00056
13.90 0.99203 0.00053	13.80 0.99633 0.00054	13.50 0.99223 0.00054
13.95 0.99460 0.00052	13.85 1.00034 0.00054	13.55 0.99532 0.00055
14.00 0.99756 0.00053	13.90 1.00388 0.00054	13.60 0.99989 0.00055
14.05 0.99984 0.00053	13.95 1.00804 0.00056	13.65 1.00249 0.00054
14.10 1.00458 0.00054	14.00 1.01004 0.00053	13.70 1.00551 0.00053
14.15 1.00726 0.00052	14.05 1.01232 0.00054	13.75 1.00876 0.00054
14.20 1.00977 0.00052	14.10 1.01698 0.00055	13.80 1.01249 0.00053
14.25 1.01413 0.00054	14.15 1.01955 0.00054	13.85 1.01554 0.00055
14.30 1.01623 0.00054	14.20 1.02297 0.00053	13.90 1.01954 0.00054
14.35 1.01928 0.00054		13.95 1.02196 0.00055
14.40 1.02288 0.00053		14.00 1.02472 0.00056

235	250	353
12.40 0.91756 0.00055	12.40 0.91788 0.00054	12.50 0.91769 0.00054
12.45 0.92222 0.00054	12.45 0.92144 0.00054	12.55 0.92138 0.00053
12.50 0.92589 0.00057	12.50 0.92601 0.00054	12.60 0.92434 0.00055
12.55 0.92923 0.00056	12.55 0.92971 0.00054	12.65 0.92892 0.00055
12.60 0.93338 0.00052	12.60 0.93335 0.00055	12.75 0.93608 0.00054
12.65 0.93584 0.00056	12.65 0.93682 0.00055	12.80 0.93986 0.00055
12.70 0.93998 0.00054	12.70 0.94014 0.00054	12.85 0.94228 0.00055
12.75 0.94426 0.00053	12.75 0.94450 0.00055	12.90 0.94573 0.00056
12.80 0.94750 0.00054	12.80 0.94838 0.00055	12.95 0.95034 0.00056
12.90 0.95466 0.00054	12.85 0.95072 0.00055	13.00 0.95357 0.00055
12.95 0.95840 0.00054	12.90 0.95626 0.00054	13.05 0.95814 0.00055
13.00 0.96207 0.00055	12.95 0.95936 0.00054	13.10 0.96186 0.00057
13.05 0.96525 0.00055	13.00 0.96176 0.00053	13.15 0.96422 0.00055

13.10 0.96872 0.00055	13.05 0.96677 0.00056	13.20 0.96748 0.00055
13.15 0.97237 0.00056	13.10 0.96989 0.00056	13.25 0.97112 0.00055
13.20 0.97617 0.00055	13.15 0.97412 0.00056	13.30 0.97638 0.00054
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13.30 0.98242 0.00057	13.25 0.97989 0.00054	13.40 0.98174 0.00055
13.35 0.98651 0.00056	13.30 0.98348 0.00056	13.45 0.98573 0.00055
13.40 0.99056 0.00055	13.35 0.98712 0.00054	13.50 0.98803 0.00055
13.45 0.99342 0.00054	13.40 0.99016 0.00054	13.55 0.99201 0.00053
13.50 0.99704 0.00055	13.45 0.99379 0.00057	13.60 0.99502 0.00054
13.55 1.00010 0.00054	13.50 0.99590 0.00055	13.65 0.99761 0.00055
13.60 1.00349 0.00056	13.55 1.00067 0.00055	13.70 1.00159 0.00056
13.65 1.00731 0.00055	13.60 1.00414 0.00056	13.75 1.00474 0.00056
13.70 1.01018 0.00054	13.65 1.00738 0.00055	13.80 1.00864 0.00055
13.75 1.01292 0.00056	13.70 1.00988 0.00054	13.85 1.01147 0.00054
13.80 1.01699 0.00055	13.75 1.01415 0.00054	13.90 1.01497 0.00056
13.85 1.01906 0.00057	13.80 1.01714 0.00055	13.95 1.01830 0.00055
13.90 1.02313 0.00057	13.85 1.01984 0.00055	14.00 1.02175 0.00054
	13.90 1.02388 0.00057	

470	475	480
12.80 0.91681 0.00054	12.85 0.91911 0.00054	12.90 0.92150 0.00055
12.85 0.92105 0.00054	12.90 0.92203 0.00053	12.95 0.92328 0.00052
12.90 0.92434 0.00055	12.95 0.92688 0.00054	13.00 0.92851 0.00054
12.95 0.92741 0.00056	13.00 0.92870 0.00054	13.05 0.93138 0.00054
13.00 0.93029 0.00053	13.05 0.93258 0.00053	13.10 0.93477 0.00055
13.05 0.93335 0.00055	13.10 0.93686 0.00054	13.15 0.93887 0.00054
13.10 0.93743 0.00053	13.15 0.93904 0.00055	13.20 0.94210 0.00053
13.15 0.94078 0.00053	13.20 0.94283 0.00054	13.25 0.94535 0.00053
13.20 0.94432 0.00054	13.25 0.94730 0.00053	13.30 0.94796 0.00054
13.25 0.94872 0.00054	13.30 0.95067 0.00053	13.35 0.95208 0.00055
13.30 0.95250 0.00055	13.35 0.95293 0.00054	13.40 0.95585 0.00055
13.35 0.95510 0.00056	13.40 0.95637 0.00055	13.45 0.95988 0.00054
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13.60 0.97121 0.00055	13.65 0.97333 0.00053	13.70 0.97625 0.00052
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13.70 0.97784 0.00055	13.75 0.97960 0.00054	13.80 0.98126 0.00055
13.75 0.98150 0.00055	13.80 0.98277 0.00053	13.85 0.98490 0.00054
13.80 0.98535 0.00056	13.85 0.98693 0.00055	13.90 0.98804 0.00055
13.85 0.98802 0.00056	13.90 0.98935 0.00054	13.95 0.99166 0.00054
13.90 0.99158 0.00054	13.95 0.99395 0.00054	14.00 0.99444 0.00054
13.95 0.99415 0.00052	14.00 0.99651 0.00054	14.05 0.99820 0.00054
14.00 0.99749 0.00054	14.05 0.99806 0.00053	14.10 1.00147 0.00054
14.05 1.00093 0.00055	14.10 1.00340 0.00053	14.15 1.00480 0.00054
14.10 1.00472 0.00055	14.15 1.00424 0.00056	14.20 1.00750 0.00055
14.15 1.00812 0.00053	14.20 1.00887 0.00055	14.25 1.00995 0.00056
14.20 1.00979 0.00055	14.25 1.01129 0.00054	14.30 1.01427 0.00055

14.25 1.01439 0.00055	14.30 1.01423 0.00055	14.35 1.01606 0.00053
14.30 1.01601 0.00055	14.35 1.01859 0.00054	14.40 1.02048 0.00055
14.35 1.01957 0.00054	14.40 1.02089 0.00054	
14.40 1.02204 0.00056	14.45 1.02421 0.00054	
	14.50 1.02820 0.00055	

486	0
12.90 0.91904 0.00053	
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14.50 1.02491 0.00055	

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12	15	20
66.10 0.86723 0.00016	41.00 0.92188 0.00022	24.80 0.92580 0.00029
67.10 0.86854 0.00015	41.50 0.92362 0.00021	25.20 0.93102 0.00028
68.10 0.86958 0.00016	42.00 0.92446 0.00020	25.60 0.93641 0.00028
69.10 0.87036 0.00016	42.50 0.92700 0.00021	26.00 0.94183 0.00028
70.10 0.87156 0.00016	43.00 0.92916 0.00021	26.40 0.94610 0.00029
71.10 0.87205 0.00015	43.50 0.93071 0.00021	26.80 0.95111 0.00028
72.10 0.87349 0.00015	44.00 0.93203 0.00020	27.60 0.96045 0.00027
73.10 0.87393 0.00015	44.50 0.93419 0.00020	28.00 0.96508 0.00027
74.10 0.87399 0.00014	45.00 0.93535 0.00020	28.40 0.96884 0.00028
75.10 0.87512 0.00015	45.50 0.93705 0.00020	28.80 0.97235 0.00028
76.10 0.87632 0.00015	46.00 0.93812 0.00021	29.20 0.97650 0.00027
77.10 0.87641 0.00015	46.50 0.93997 0.00020	29.60 0.97963 0.00027
78.10 0.87755 0.00015	47.00 0.94137 0.00020	30.00 0.98402 0.00027
79.10 0.87769 0.00015	47.50 0.94347 0.00019	30.40 0.98816 0.00027
80.10 0.87827 0.00015	48.00 0.94389 0.00020	30.80 0.99136 0.00026
81.10 0.87879 0.00014	48.50 0.94611 0.00019	31.20 0.99496 0.00027
82.10 0.88010 0.00014	49.00 0.94690 0.00020	31.60 0.99825 0.00026
83.10 0.88060 0.00015	49.50 0.94817 0.00020	32.00 1.00077 0.00027
84.10 0.88039 0.00014	50.00 0.94929 0.00019	32.40 1.00441 0.00026
85.10 0.88089 0.00014	50.50 0.95078 0.00019	32.80 1.00779 0.00025
86.10 0.88201 0.00014	51.00 0.95148 0.00019	33.20 1.01085 0.00026
86.20 0.88192 0.00015	51.40 0.95295 0.00019	33.60 1.01371 0.00026
		34.00 1.01686 0.00025
		34.40 1.01950 0.00025

25	30	32
19.90 0.92440 0.00034	17.50 0.92289 0.00037	16.80 0.92175 0.00037
20.10 0.92843 0.00032	17.60 0.92600 0.00037	16.90 0.92499 0.00036
20.30 0.93258 0.00034	17.70 0.92923 0.00037	17.00 0.92890 0.00038
20.50 0.93719 0.00032	17.80 0.93207 0.00036	17.10 0.93042 0.00037
20.70 0.94178 0.00034	17.90 0.93552 0.00036	17.20 0.93474 0.00037
20.90 0.94598 0.00033	18.00 0.93758 0.00036	17.30 0.93734 0.00037
21.10 0.95014 0.00033	18.10 0.94053 0.00036	17.40 0.94134 0.00037
21.30 0.95441 0.00033	18.20 0.94398 0.00037	17.50 0.94366 0.00038
21.50 0.95874 0.00033	18.30 0.94701 0.00036	17.60 0.94648 0.00037
21.70 0.96132 0.00032	18.40 0.94931 0.00036	17.70 0.95013 0.00038
21.90 0.96619 0.00033	18.50 0.95226 0.00036	17.80 0.95308 0.00038
22.10 0.97028 0.00033	18.60 0.95463 0.00037	17.90 0.95673 0.00037
22.30 0.97368 0.00033	18.70 0.95774 0.00035	18.00 0.95894 0.00036
22.50 0.97758 0.00032	18.80 0.96025 0.00036	18.10 0.96210 0.00038
22.70 0.98130 0.00033	18.90 0.96227 0.00035	18.20 0.96501 0.00036
23.10 0.98848 0.00031	19.00 0.96517 0.00036	18.30 0.96838 0.00038
23.30 0.99102 0.00032	19.10 0.96786 0.00036	18.40 0.97054 0.00038
23.50 0.99451 0.00032	19.20 0.97089 0.00035	18.50 0.97352 0.00038
23.70 0.99794 0.00032	19.30 0.97378 0.00035	18.60 0.97622 0.00038
23.90 1.00118 0.00032	19.40 0.97628 0.00036	18.70 0.97944 0.00038

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24.10 1.00493 0.00031	19.50 0.97859 0.00037	18.80 0.98166 0.00037
24.30 1.00729 0.00031	19.60 0.98111 0.00035	18.90 0.98559 0.00037
24.50 1.01032 0.00032	19.70 0.98366 0.00036	19.00 0.98690 0.00037
24.70 1.01286 0.00033	19.80 0.98559 0.00035	19.10 0.99096 0.00036
24.80 1.01486 0.00032	19.90 0.98886 0.00036	19.20 0.99248 0.00036
	20.00 0.99111 0.00036	19.30 0.99564 0.00037
	20.10 0.99331 0.00036	19.40 0.99784 0.00037
	20.20 0.99532 0.00035	19.50 1.00048 0.00037
	20.30 0.99714 0.00036	19.60 1.00356 0.00036
	20.40 1.00026 0.00035	19.70 1.00526 0.00035
	20.50 1.00276 0.00036	19.80 1.00789 0.00037
	20.60 1.00507 0.00035	19.90 1.01062 0.00036
	20.70 1.00741 0.00035	20.00 1.01313 0.00036
	20.80 1.01012 0.00037	20.10 1.01556 0.00037
	20.90 1.01176 0.00036	
	21.00 1.01357 0.00034	

35	40	50
16.00 0.92148 0.00040	15.10 0.92376 0.00040	13.80 0.92203 0.00042
16.10 0.92488 0.00040	15.20 0.92805 0.00041	13.90 0.92721 0.00043
16.20 0.92919 0.00039	15.30 0.93265 0.00041	14.00 0.93259 0.00043
16.30 0.93189 0.00040	15.40 0.93703 0.00041	14.10 0.93635 0.00043
16.40 0.93472 0.00038	15.50 0.94069 0.00040	14.20 0.94128 0.00040
16.50 0.93904 0.00040	15.60 0.94452 0.00041	14.30 0.94600 0.00044
16.60 0.94220 0.00039	15.70 0.94877 0.00040	14.40 0.95110 0.00043
16.70 0.94585 0.00039	15.80 0.95230 0.00042	14.50 0.95505 0.00043
16.80 0.94925 0.00039	15.90 0.95593 0.00041	14.60 0.95921 0.00043
16.90 0.95279 0.00038	16.00 0.96008 0.00040	14.70 0.96500 0.00044
17.00 0.95602 0.00039	16.10 0.96397 0.00041	14.80 0.96881 0.00044
17.10 0.96020 0.00038	16.20 0.96761 0.00040	14.90 0.97368 0.00043
17.20 0.96282 0.00039	16.30 0.97133 0.00040	15.00 0.97762 0.00043
17.30 0.96611 0.00039	16.40 0.97498 0.00040	15.10 0.98245 0.00044
17.40 0.96902 0.00040	16.50 0.97822 0.00040	15.20 0.98648 0.00043
17.50 0.97232 0.00039	16.60 0.98186 0.00040	15.30 0.99071 0.00042
17.60 0.97555 0.00038	16.70 0.98557 0.00041	15.40 0.99493 0.00042
17.70 0.97826 0.00039	16.80 0.98866 0.00041	15.50 0.99881 0.00043
17.80 0.98225 0.00040	16.90 0.99221 0.00039	15.60 1.00397 0.00041
17.90 0.98502 0.00038	17.00 0.99574 0.00041	15.70 1.00707 0.00042
18.00 0.98771 0.00038	17.10 0.99964 0.00040	15.80 1.01145 0.00043
18.10 0.99079 0.00039	17.20 1.00265 0.00041	15.90 1.01527 0.00042
18.20 0.99364 0.00038	17.40 1.01035 0.00039	16.00 1.01989 0.00043
18.30 0.99685 0.00038	17.50 1.01298 0.00040	
18.40 0.99915 0.00037	17.60 1.01573 0.00041	
18.50 1.00263 0.00039		
18.60 1.00573 0.00038		
18.70 1.00815 0.00038		
18.80 1.01053 0.00038		
18.90 1.01371 0.00037		
19.00 1.01633 0.00038		

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13.10 0.92504 0.00046	12.60 0.92718 0.00046	12.20 0.92398 0.00048
13.20 0.93130 0.00047	12.70 0.93285 0.00047	12.30 0.93078 0.00049
13.30 0.93664 0.00045	12.80 0.93861 0.00047	12.40 0.93666 0.00048
13.40 0.94210 0.00045	12.90 0.94408 0.00047	12.50 0.94340 0.00049
13.50 0.94686 0.00046	13.00 0.94965 0.00048	12.60 0.94861 0.00048
13.60 0.95288 0.00046	13.10 0.95581 0.00046	12.70 0.95500 0.00047
13.70 0.95699 0.00045	13.20 0.96170 0.00046	12.80 0.96110 0.00048
13.80 0.96202 0.00046	13.30 0.96613 0.00047	12.90 0.96647 0.00048
13.90 0.96836 0.00045	13.40 0.97215 0.00046	13.00 0.97271 0.00048
14.00 0.97311 0.00046	13.50 0.97714 0.00047	13.10 0.97885 0.00048
14.10 0.97697 0.00044	13.60 0.98305 0.00048	13.20 0.98364 0.00048
14.20 0.98218 0.00046	13.70 0.98834 0.00046	13.30 0.98923 0.00046
14.30 0.98636 0.00046	13.80 0.99330 0.00047	13.40 0.99443 0.00049
14.40 0.99236 0.00045	13.90 0.99818 0.00047	13.50 1.00021 0.00047
14.50 0.99697 0.00044	14.00 1.00363 0.00047	13.60 1.00614 0.00048
14.60 1.00174 0.00045	14.10 1.00893 0.00047	13.70 1.01101 0.00048
14.70 1.00641 0.00044	14.20 1.01339 0.00047	13.80 1.01631 0.00048
14.80 1.01102 0.00044	14.30 1.01733 0.00047	13.90 1.02220 0.00048
14.90 1.01533 0.00045		
15.00 1.01955 0.00045		

90	100	118
11.80 0.91694 0.00049	11.60 0.91826 0.00050	11.30 0.91584 0.00050
11.85 0.92003 0.00050	11.65 0.92092 0.00049	11.35 0.91971 0.00051
11.90 0.92244 0.00048	11.70 0.92531 0.00049	11.40 0.92208 0.00050
11.95 0.92610 0.00050	11.75 0.92783 0.00050	11.45 0.92610 0.00051
12.00 0.92992 0.00049	11.80 0.93090 0.00050	11.50 0.92910 0.00050
12.05 0.93237 0.00048	11.85 0.93458 0.00051	11.55 0.93435 0.00051
12.10 0.93691 0.00047	11.90 0.93735 0.00050	11.60 0.93687 0.00050
12.15 0.93920 0.00049	11.95 0.94032 0.00049	11.65 0.94042 0.00051
12.20 0.94269 0.00049	12.00 0.94394 0.00051	11.70 0.94379 0.00050
12.25 0.94567 0.00049	12.05 0.94615 0.00050	11.75 0.94710 0.00050
12.30 0.94808 0.00048	12.10 0.95055 0.00049	11.80 0.95095 0.00052
12.35 0.95126 0.00050	12.15 0.95419 0.00048	11.85 0.95387 0.00049
12.40 0.95509 0.00049	12.20 0.95694 0.00048	11.90 0.95731 0.00049
12.45 0.95785 0.00050	12.25 0.95968 0.00051	11.95 0.95937 0.00050
12.50 0.96114 0.00048	12.30 0.96331 0.00050	12.00 0.96416 0.00049
12.55 0.96446 0.00047	12.35 0.96565 0.00050	12.05 0.96727 0.00052
12.60 0.96727 0.00049	12.40 0.96980 0.00050	12.10 0.96957 0.00050
12.65 0.96996 0.00048	12.45 0.97214 0.00049	12.15 0.97433 0.00050
12.70 0.97208 0.00050	12.50 0.97600 0.00051	12.20 0.97688 0.00050
12.75 0.97643 0.00049	12.55 0.97852 0.00049	12.25 0.97936 0.00051
12.80 0.97869 0.00049	12.60 0.98181 0.00049	12.30 0.98210 0.00050
12.85 0.98210 0.00048	12.65 0.98483 0.00050	12.35 0.98665 0.00050

12.90 0.98578 0.00049	12.70 0.98878 0.00049	12.40 0.98988 0.00051
13.00 0.98984 0.00049	12.75 0.99093 0.00050	12.45 0.99157 0.00051
13.05 0.99458 0.00049	12.80 0.99444 0.00048	12.50 0.99605 0.00051
13.10 0.99637 0.00050	12.85 0.99680 0.00049	12.55 0.99906 0.00051
13.15 0.99945 0.00049	12.90 1.00021 0.00052	12.60 1.00079 0.00050
13.20 1.00261 0.00049	12.95 1.00221 0.00051	12.65 1.00414 0.00052
13.25 1.00509 0.00048	13.00 1.00567 0.00048	12.70 1.00699 0.00050
13.30 1.00731 0.00047	13.05 1.00717 0.00049	12.75 1.00981 0.00050
13.35 1.01016 0.00049	13.10 1.01103 0.00049	12.80 1.01350 0.00051
13.40 1.01280 0.00049	13.15 1.01381 0.00051	12.85 1.01609 0.00050
13.45 1.01642 0.00049	13.20 1.01772 0.00050	12.90 1.01979 0.00051
13.50 1.01915 0.00048	13.25 1.01955 0.00051	
	13.30 1.02265 0.00050	

130	150	200
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11.25 0.92286 0.00052	11.05 0.91947 0.00051	10.85 0.92111 0.00052
11.30 0.92688 0.00051	11.10 0.92322 0.00050	10.90 0.92550 0.00053
11.35 0.93002 0.00050	11.15 0.92820 0.00050	10.95 0.92783 0.00055
11.40 0.93227 0.00052	11.20 0.93060 0.00052	11.00 0.93336 0.00052
11.45 0.93719 0.00052	11.25 0.93361 0.00052	11.05 0.93601 0.00051
11.50 0.93993 0.00050	11.30 0.93815 0.00051	11.10 0.93895 0.00052
11.55 0.94299 0.00051	11.35 0.94144 0.00050	11.15 0.94255 0.00053
11.60 0.94596 0.00050	11.40 0.94572 0.00051	11.20 0.94674 0.00053
11.65 0.94928 0.00051	11.45 0.94759 0.00051	11.25 0.95004 0.00052
11.70 0.95352 0.00052	11.50 0.95208 0.00052	11.30 0.95343 0.00053
11.75 0.95715 0.00050	11.55 0.95534 0.00052	11.35 0.95812 0.00053
11.80 0.96071 0.00051	11.60 0.95951 0.00053	11.40 0.96079 0.00053
11.85 0.96479 0.00051	11.65 0.96263 0.00051	11.45 0.96542 0.00051
11.90 0.96800 0.00051	11.70 0.96633 0.00051	11.50 0.96785 0.00052
11.95 0.96992 0.00051	11.75 0.96882 0.00051	11.55 0.97101 0.00052
12.00 0.97322 0.00052	11.80 0.97238 0.00052	11.60 0.97514 0.00053
12.05 0.97609 0.00050	11.85 0.97574 0.00052	11.65 0.97892 0.00053
12.10 0.98049 0.00051	11.90 0.97900 0.00052	11.70 0.98218 0.00054
12.15 0.98398 0.00050	11.95 0.98303 0.00051	11.75 0.98474 0.00053
12.20 0.98788 0.00052	12.00 0.98635 0.00052	11.80 0.98876 0.00053
12.25 0.99025 0.00051	12.05 0.98916 0.00053	11.85 0.99230 0.00053
12.30 0.99306 0.00050	12.10 0.99268 0.00051	11.90 0.99595 0.00052
12.35 0.99762 0.00053	12.15 0.99623 0.00051	11.95 0.99885 0.00053
12.40 0.99960 0.00051	12.20 0.99905 0.00051	12.00 1.00151 0.00054
12.45 1.00244 0.00050	12.25 1.00338 0.00051	12.05 1.00595 0.00054
12.50 1.00610 0.00051	12.30 1.00637 0.00053	12.10 1.00836 0.00054
12.55 1.00860 0.00051	12.35 1.00909 0.00052	12.15 1.01139 0.00052
12.60 1.01266 0.00052	12.40 1.01239 0.00051	12.20 1.01633 0.00054
12.65 1.01536 0.00051	12.45 1.01575 0.00052	12.25 1.01851 0.00054
12.70 1.01742 0.00051	12.50 1.01776 0.00052	12.30 1.02198 0.00053

235	250	353
10.80 0.92156 0.00052	10.70 0.91467 0.00053	10.80 0.91671 0.00052
10.85 0.92621 0.00051	10.75 0.91890 0.00054	10.85 0.92025 0.00053
10.90 0.92848 0.00053	10.80 0.92302 0.00054	10.90 0.92482 0.00052
10.95 0.93320 0.00052	10.85 0.92601 0.00052	10.95 0.92754 0.00054
11.00 0.93707 0.00052	10.90 0.92984 0.00054	11.00 0.93224 0.00052
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11.10 0.94417 0.00053	11.00 0.93731 0.00055	11.10 0.93831 0.00052
11.15 0.94853 0.00054	11.05 0.94176 0.00053	11.15 0.94339 0.00052
11.20 0.95220 0.00052	11.10 0.94522 0.00051	11.20 0.94552 0.00051
11.25 0.95497 0.00052	11.15 0.94710 0.00054	11.25 0.94939 0.00054
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11.35 0.96271 0.00053	11.25 0.95519 0.00053	11.35 0.95573 0.00053
11.40 0.96484 0.00052	11.30 0.95928 0.00052	11.40 0.95981 0.00053
11.45 0.97037 0.00054	11.35 0.96247 0.00052	11.45 0.96309 0.00052
11.50 0.97331 0.00052	11.40 0.96647 0.00055	11.50 0.96764 0.00053
11.55 0.97572 0.00053	11.45 0.97032 0.00052	11.55 0.97134 0.00051
11.60 0.97927 0.00053	11.50 0.97389 0.00053	11.60 0.97347 0.00052
11.65 0.98300 0.00053	11.55 0.97660 0.00052	11.65 0.97748 0.00053
11.70 0.98665 0.00052	11.60 0.98022 0.00054	11.70 0.98002 0.00054
11.75 0.98963 0.00052	11.65 0.98411 0.00053	11.75 0.98415 0.00053
11.80 0.99410 0.00053	11.70 0.98817 0.00054	11.80 0.98672 0.00054
11.85 0.99668 0.00051	11.75 0.99049 0.00052	11.85 0.99141 0.00053
11.90 1.00024 0.00053	11.80 0.99422 0.00052	11.90 0.99405 0.00053
11.95 1.00373 0.00055	11.85 0.99778 0.00053	11.95 0.99704 0.00053
12.00 1.00691 0.00053	11.90 1.00112 0.00053	12.00 1.00115 0.00054
12.05 1.00938 0.00055	11.95 1.00481 0.00053	12.05 1.00377 0.00053
12.10 1.01258 0.00054	12.00 1.00764 0.00053	12.10 1.00752 0.00054
12.15 1.01677 0.00053	12.05 1.01217 0.00055	12.15 1.01072 0.00052
12.20 1.02015 0.00053	12.10 1.01467 0.00054	12.20 1.01356 0.00054
	12.15 1.01727 0.00053	12.25 1.01726 0.00054
	12.20 1.02073 0.00053	12.30 1.02129 0.00054

470	475	480
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11.15 0.92214 0.00053	11.15 0.92082 0.00051	11.15 0.91934 0.00052
11.20 0.92609 0.00053	11.20 0.92428 0.00052	11.20 0.92309 0.00053
11.25 0.92850 0.00053	11.25 0.92740 0.00053	11.25 0.92748 0.00054
11.30 0.93247 0.00054	11.30 0.93221 0.00054	11.30 0.93053 0.00053
11.35 0.93551 0.00053	11.35 0.93430 0.00051	11.35 0.93377 0.00052
11.40 0.94028 0.00053	11.40 0.93884 0.00053	11.40 0.93692 0.00054
11.45 0.94288 0.00052	11.45 0.94262 0.00052	11.45 0.93977 0.00053
11.50 0.94601 0.00052	11.50 0.94469 0.00052	11.50 0.94450 0.00052
11.55 0.94901 0.00053	11.55 0.94901 0.00052	11.55 0.94643 0.00053
11.60 0.95243 0.00053	11.60 0.95092 0.00053	11.60 0.95040 0.00053
11.65 0.95621 0.00052	11.65 0.95446 0.00053	11.65 0.95487 0.00055
11.70 0.96019 0.00054	11.70 0.95906 0.00052	11.70 0.95704 0.00053
11.75 0.96391 0.00052	11.75 0.96203 0.00052	11.75 0.96033 0.00054
11.80 0.96670 0.00052	11.80 0.96589 0.00052	11.80 0.96476 0.00053

11.85 0.97041 0.00053	11.85 0.96868 0.00051	11.85 0.96702 0.00054
11.90 0.97308 0.00054	11.90 0.97238 0.00054	11.90 0.97208 0.00052
11.95 0.97608 0.00053	11.95 0.97507 0.00053	11.95 0.97419 0.00052
12.00 0.98060 0.00054	12.00 0.97913 0.00052	12.00 0.97750 0.00052
12.05 0.98349 0.00055	12.05 0.98156 0.00052	12.05 0.98081 0.00054
12.10 0.98615 0.00054	12.10 0.98514 0.00052	12.10 0.98411 0.00053
12.15 0.98931 0.00052	12.15 0.98867 0.00053	12.15 0.98706 0.00053
12.20 0.99278 0.00054	12.20 0.99138 0.00054	12.20 0.99119 0.00054
12.25 0.99505 0.00052	12.25 0.99456 0.00055	12.25 0.99344 0.00052
12.30 0.99867 0.00053	12.30 0.99844 0.00052	12.30 0.99693 0.00052
12.35 1.00195 0.00054	12.35 1.00218 0.00054	12.35 0.99997 0.00052
12.40 1.00618 0.00053	12.40 1.00409 0.00053	12.40 1.00338 0.00054
12.45 1.00844 0.00056	12.45 1.00707 0.00053	12.45 1.00573 0.00053
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12.65 1.02108 0.00051	12.65 1.01896 0.00052	12.65 1.01804 0.00053
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486

0

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11.25 0.92503 0.00053
11.30 0.92884 0.00053
11.35 0.93306 0.00051
11.40 0.93634 0.00054
11.45 0.93966 0.00053
11.50 0.94265 0.00052
11.55 0.94593 0.00053
11.60 0.94962 0.00053
11.65 0.95288 0.00052
11.70 0.95657 0.00053
11.75 0.95947 0.00053
11.80 0.96323 0.00053
11.85 0.96773 0.00053
11.90 0.96973 0.00054
11.95 0.97239 0.00052
12.00 0.97619 0.00053
12.05 0.97974 0.00052
12.10 0.98229 0.00053
12.15 0.98663 0.00052
12.20 0.98895 0.00053
12.25 0.99292 0.00053
12.30 0.99565 0.00052
12.35 0.99894 0.00055
12.40 1.00207 0.00052
12.45 1.00508 0.00051
12.50 1.00997 0.00053

12.55 1.01190 0.00054
 12.60 1.01486 0.00052
 12.65 1.01741 0.00054
 12.70 1.02182 0.00054

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12	15	20
65.30 0.86829 0.00015	35.00 0.89956 0.00021	23.60 0.92528 0.00028
66.30 0.86877 0.00015	35.80 0.90320 0.00021	24.00 0.93053 0.00028
67.30 0.86953 0.00015	36.60 0.90799 0.00021	24.40 0.93654 0.00028
68.30 0.87049 0.00015	37.40 0.91198 0.00021	24.80 0.94156 0.00028
69.30 0.87157 0.00015	38.20 0.91447 0.00021	25.20 0.94619 0.00027
70.30 0.87264 0.00015	39.00 0.91870 0.00020	25.60 0.95081 0.00027
71.30 0.87303 0.00015	39.80 0.92136 0.00021	26.00 0.95591 0.00026
72.30 0.87343 0.00015	40.60 0.92497 0.00020	26.40 0.96020 0.00027
73.30 0.87482 0.00015	41.40 0.92809 0.00020	26.80 0.96436 0.00025
74.30 0.87564 0.00015	42.20 0.92987 0.00020	27.60 0.97267 0.00026
75.30 0.87593 0.00014	43.00 0.93328 0.00019	28.00 0.97697 0.00026
76.30 0.87693 0.00014	43.80 0.93541 0.00020	28.40 0.98068 0.00026
77.30 0.87793 0.00014	44.60 0.93779 0.00020	28.80 0.98421 0.00026
78.30 0.87841 0.00014	45.40 0.94004 0.00020	29.20 0.98771 0.00025
79.30 0.87839 0.00014	46.20 0.94267 0.00019	29.60 0.99150 0.00026
80.30 0.87926 0.00015	47.00 0.94477 0.00019	30.00 0.99508 0.00025
81.30 0.87969 0.00014	47.80 0.94741 0.00018	30.40 0.99826 0.00025
82.30 0.88076 0.00014	48.60 0.94852 0.00018	30.80 1.00141 0.00025
83.30 0.88144 0.00014	49.40 0.95098 0.00019	31.20 1.00468 0.00025
84.30 0.88128 0.00014	50.20 0.95215 0.00019	31.60 1.00869 0.00024
85.30 0.88189 0.00014	51.00 0.95388 0.00019	32.00 1.01072 0.00025
85.70 0.88190 0.00014	51.80 0.95591 0.00018	32.40 1.01405 0.00025
	51.90 0.95608 0.00019	32.50 1.01437 0.00024

25	30	32
18.70 0.92394 0.00032	16.30 0.92383 0.00036	15.60 0.92258 0.00035
18.90 0.92901 0.00031	16.40 0.92630 0.00034	15.70 0.92561 0.00036
19.10 0.93352 0.00032	16.50 0.92929 0.00034	15.80 0.92881 0.00036
19.30 0.93738 0.00032	16.60 0.93172 0.00034	15.90 0.93198 0.00035
19.50 0.94187 0.00031	16.70 0.93541 0.00034	16.00 0.93515 0.00035
19.70 0.94568 0.00031	16.80 0.93886 0.00034	16.10 0.93846 0.00036
19.90 0.95010 0.00032	16.90 0.94121 0.00034	16.20 0.94199 0.00035
20.10 0.95416 0.00032	17.00 0.94422 0.00034	16.30 0.94460 0.00034
20.30 0.95842 0.00031	17.10 0.94689 0.00035	16.40 0.94744 0.00036
20.50 0.96267 0.00030	17.20 0.95030 0.00035	16.50 0.95108 0.00035
20.70 0.96575 0.00032	17.30 0.95296 0.00033	16.60 0.95408 0.00034
20.90 0.97014 0.00031	17.40 0.95611 0.00034	16.70 0.95703 0.00035
21.10 0.97360 0.00030	17.50 0.95826 0.00034	16.80 0.96032 0.00036
21.30 0.97774 0.00030	17.60 0.96073 0.00034	16.90 0.96209 0.00034
21.50 0.98081 0.00030	17.70 0.96346 0.00034	17.00 0.96576 0.00035

21.70 0.98480 0.00031	17.80 0.96645 0.00034	17.10 0.96875 0.00035
21.90 0.98839 0.00030	17.90 0.96958 0.00034	17.20 0.97202 0.00036
22.10 0.99179 0.00030	18.00 0.97130 0.00035	17.30 0.97484 0.00034
22.50 0.99745 0.00031	18.10 0.97355 0.00033	17.40 0.97717 0.00036
22.70 1.00201 0.00030	18.20 0.97646 0.00034	17.50 0.97995 0.00034
22.90 1.00403 0.00029	18.30 0.97950 0.00034	17.60 0.98351 0.00035
23.10 1.00798 0.00030	18.40 0.98133 0.00034	17.70 0.98567 0.00034
23.30 1.01123 0.00030	18.50 0.98400 0.00034	17.80 0.98837 0.00035
23.50 1.01390 0.00029	18.60 0.98660 0.00034	17.90 0.99089 0.00034
	18.70 0.98933 0.00033	18.00 0.99312 0.00035
	18.80 0.99151 0.00034	18.10 0.99623 0.00035
	18.90 0.99453 0.00035	18.20 0.99942 0.00035
	19.00 0.99649 0.00034	18.30 1.00193 0.00034
	19.10 0.99790 0.00034	18.40 1.00391 0.00034
	19.20 1.00160 0.00033	18.50 1.00722 0.00034
	19.30 1.00388 0.00034	18.60 1.00966 0.00035
	19.40 1.00566 0.00033	18.70 1.01099 0.00034
	19.50 1.00832 0.00033	18.80 1.01389 0.00034
	19.60 1.00954 0.00034	18.90 1.01650 0.00034
	19.70 1.01208 0.00034	
	19.80 1.01443 0.00033	
	19.90 1.01721 0.00033	

35	40	50
14.80 0.92158 0.00036	13.80 0.92111 0.00038	12.50 0.91936 0.00041
14.90 0.92603 0.00037	13.90 0.92598 0.00038	12.60 0.92479 0.00040
15.00 0.92894 0.00036	14.00 0.92983 0.00038	12.70 0.92981 0.00041
15.10 0.93355 0.00036	14.10 0.93355 0.00038	12.80 0.93466 0.00040
15.20 0.93606 0.00036	14.20 0.93788 0.00037	12.90 0.93952 0.00040
15.30 0.93988 0.00036	14.30 0.94203 0.00039	13.00 0.94471 0.00041
15.40 0.94332 0.00037	14.40 0.94627 0.00038	13.10 0.94867 0.00040
15.50 0.94692 0.00036	14.50 0.95027 0.00038	13.20 0.95393 0.00040
15.60 0.94976 0.00036	14.60 0.95385 0.00037	13.30 0.95818 0.00041
15.70 0.95362 0.00037	14.70 0.95756 0.00038	13.40 0.96238 0.00040
15.80 0.95742 0.00036	14.80 0.96158 0.00038	13.50 0.96771 0.00041
15.90 0.96122 0.00036	14.90 0.96516 0.00037	13.60 0.97146 0.00039
16.00 0.96352 0.00036	15.00 0.96888 0.00037	13.70 0.97597 0.00040
16.10 0.96655 0.00036	15.10 0.97357 0.00038	13.80 0.98119 0.00040
16.20 0.97051 0.00037	15.20 0.97652 0.00038	13.90 0.98538 0.00041
16.30 0.97406 0.00036	15.30 0.98003 0.00039	14.00 0.98935 0.00040
16.40 0.97646 0.00036	15.40 0.98330 0.00038	14.10 0.99364 0.00041
16.50 0.98039 0.00036	15.50 0.98757 0.00039	14.20 0.99889 0.00041
16.60 0.98259 0.00036	15.60 0.99126 0.00039	14.30 1.00239 0.00040
16.70 0.98554 0.00036	15.70 0.99408 0.00037	14.40 1.00699 0.00039
16.80 0.98852 0.00036	15.80 0.99721 0.00039	14.50 1.01042 0.00039
16.90 0.99299 0.00036	15.90 1.00095 0.00037	14.60 1.01466 0.00041
17.00 0.99449 0.00037	16.00 1.00411 0.00037	14.70 1.01920 0.00039
17.10 0.99830 0.00036	16.10 1.00831 0.00038	
17.20 1.00074 0.00036	16.30 1.01415 0.00038	
17.30 1.00365 0.00037	16.40 1.01707 0.00037	

17.40 1.00673 0.00036
 17.50 1.00945 0.00036
 17.60 1.01228 0.00035
 17.70 1.01467 0.00036

60	70	80
11.70 0.91808 0.00041	11.20 0.91938 0.00044	10.80 0.91900 0.00044
11.80 0.92379 0.00042	11.30 0.92601 0.00044	10.85 0.92194 0.00044
11.90 0.92914 0.00042	11.40 0.93184 0.00042	10.90 0.92507 0.00043
12.00 0.93501 0.00043	11.50 0.93882 0.00045	10.95 0.92848 0.00044
12.10 0.94027 0.00042	11.60 0.94370 0.00045	11.00 0.93149 0.00045
12.20 0.94533 0.00041	11.70 0.94874 0.00044	11.05 0.93483 0.00044
12.30 0.95195 0.00042	11.80 0.95542 0.00043	11.10 0.93770 0.00045
12.40 0.95578 0.00043	11.90 0.96114 0.00043	11.15 0.94085 0.00044
12.50 0.96176 0.00042	12.00 0.96771 0.00044	11.20 0.94386 0.00045
12.60 0.96673 0.00041	12.10 0.97138 0.00044	11.25 0.94649 0.00045
12.70 0.97143 0.00042	12.20 0.97657 0.00044	11.30 0.95067 0.00044
12.80 0.97734 0.00042	12.30 0.98191 0.00043	11.35 0.95236 0.00043
12.90 0.98111 0.00042	12.40 0.98768 0.00044	11.40 0.95562 0.00044
13.00 0.98700 0.00042	12.50 0.99396 0.00044	11.45 0.95874 0.00044
13.10 0.99151 0.00042	12.60 0.99832 0.00043	11.50 0.96098 0.00044
13.20 0.99638 0.00042	12.70 1.00408 0.00044	11.55 0.96417 0.00046
13.30 1.00118 0.00044	12.80 1.00951 0.00044	11.60 0.96819 0.00044
13.40 1.00637 0.00043	12.90 1.01401 0.00045	11.65 0.97081 0.00045
13.50 1.01087 0.00041	13.00 1.01936 0.00044	11.70 0.97359 0.00044
13.60 1.01496 0.00042		11.75 0.97560 0.00043
13.70 1.01962 0.00042		11.80 0.97803 0.00046
		11.85 0.98253 0.00045
		11.90 0.98520 0.00045
		11.95 0.98727 0.00043
		12.00 0.99085 0.00045
		12.05 0.99370 0.00044
		12.10 0.99664 0.00044
		12.15 0.99906 0.00044
		12.20 1.00212 0.00046
		12.25 1.00466 0.00045
		12.30 1.00666 0.00044
		12.35 1.01023 0.00044
		12.40 1.01219 0.00045
		12.45 1.01483 0.00043
		12.50 1.01806 0.00045

90	100	118
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10.55 0.92133 0.00044	10.35 0.92338 0.00045	10.05 0.92349 0.00046
10.60 0.92489 0.00044	10.40 0.92629 0.00045	10.10 0.92781 0.00047
10.65 0.92862 0.00044	10.45 0.92974 0.00045	10.15 0.93080 0.00046

10.70 0.93099 0.00045	10.50 0.93375 0.00045	10.20 0.93370 0.00049
10.75 0.93485 0.00046	10.55 0.93682 0.00046	10.25 0.93755 0.00046
10.80 0.93832 0.00045	10.60 0.93946 0.00045	10.30 0.94110 0.00046
10.85 0.94118 0.00044	10.65 0.94366 0.00047	10.35 0.94423 0.00046
10.90 0.94436 0.00045	10.70 0.94685 0.00045	10.40 0.94734 0.00046
10.95 0.94684 0.00045	10.75 0.95069 0.00046	10.45 0.95189 0.00046
11.00 0.95138 0.00045	10.80 0.95323 0.00046	10.50 0.95428 0.00046
11.05 0.95315 0.00043	10.85 0.95577 0.00046	10.55 0.95868 0.00046
11.10 0.95606 0.00044	10.90 0.95914 0.00046	10.60 0.96158 0.00047
11.15 0.95938 0.00045	10.95 0.96343 0.00046	10.65 0.96404 0.00046
11.20 0.96282 0.00045	11.00 0.96629 0.00046	10.70 0.96809 0.00045
11.25 0.96655 0.00046	11.05 0.97011 0.00045	10.75 0.97096 0.00046
11.30 0.96862 0.00046	11.10 0.97253 0.00048	10.80 0.97405 0.00047
11.35 0.97245 0.00045	11.15 0.97601 0.00046	10.85 0.97829 0.00046
11.40 0.97532 0.00045	11.20 0.97854 0.00047	10.90 0.98106 0.00047
11.45 0.97783 0.00045	11.25 0.98172 0.00046	10.95 0.98399 0.00046
11.50 0.98141 0.00045	11.30 0.98378 0.00046	11.00 0.98764 0.00048
11.55 0.98402 0.00045	11.35 0.98797 0.00046	11.05 0.98986 0.00047
11.60 0.98716 0.00045	11.40 0.99170 0.00046	11.10 0.99408 0.00047
11.65 0.98942 0.00046	11.45 0.99352 0.00047	11.15 0.99723 0.00047
11.70 0.99402 0.00045	11.50 0.99714 0.00046	11.20 1.00008 0.00046
11.75 0.99611 0.00045	11.55 1.00066 0.00046	11.25 1.00328 0.00046
11.80 0.99785 0.00044	11.60 1.00249 0.00046	11.30 1.00698 0.00048
11.85 1.00159 0.00045	11.65 1.00584 0.00045	11.35 1.00940 0.00047
11.90 1.00435 0.00045	11.70 1.00900 0.00046	11.40 1.01284 0.00048
11.95 1.00670 0.00045	11.75 1.01199 0.00045	11.45 1.01530 0.00046
12.00 1.01097 0.00046	11.80 1.01486 0.00046	11.50 1.01898 0.00047
12.05 1.01350 0.00046	11.85 1.01684 0.00046	
12.10 1.01560 0.00046	11.90 1.02050 0.00045	
12.15 1.01894 0.00045		
12.20 1.02092 0.00046		

130	150	200
9.80 0.91685 0.00047	9.60 0.91647 0.00047	9.40 0.92051 0.00048
9.85 0.92048 0.00047	9.65 0.92071 0.00047	9.45 0.92472 0.00047
9.90 0.92398 0.00046	9.70 0.92372 0.00046	9.50 0.92803 0.00048
9.95 0.92796 0.00046	9.75 0.92641 0.00048	9.55 0.93232 0.00048
10.00 0.93102 0.00046	9.80 0.93047 0.00047	9.60 0.93600 0.00047
10.05 0.93414 0.00045	9.85 0.93392 0.00048	9.65 0.93969 0.00047
10.10 0.93818 0.00047	9.90 0.93771 0.00048	9.70 0.94392 0.00048
10.15 0.94238 0.00046	9.95 0.94196 0.00047	9.75 0.94675 0.00048
10.20 0.94501 0.00047	10.00 0.94524 0.00047	9.80 0.95065 0.00049
10.25 0.94816 0.00047	10.05 0.94925 0.00048	9.85 0.95375 0.00049
10.30 0.95318 0.00047	10.10 0.95200 0.00047	9.90 0.95866 0.00048
10.35 0.95537 0.00047	10.15 0.95560 0.00047	9.95 0.96209 0.00047
10.40 0.95955 0.00046	10.20 0.95952 0.00047	10.00 0.96556 0.00048
10.45 0.96213 0.00047	10.25 0.96267 0.00050	10.05 0.96988 0.00047
10.50 0.96472 0.00049	10.30 0.96610 0.00047	10.10 0.97312 0.00048
10.55 0.96918 0.00048	10.35 0.96994 0.00047	10.15 0.97578 0.00048

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10.60 0.97230 0.00047	10.40 0.97328 0.00047	10.20 0.97963 0.00048
10.65 0.97649 0.00048	10.45 0.97667 0.00048	10.25 0.98318 0.00049
10.70 0.97983 0.00047	10.50 0.98005 0.00048	10.30 0.98632 0.00049
10.75 0.98211 0.00048	10.55 0.98300 0.00047	10.35 0.98919 0.00048
10.80 0.98573 0.00047	10.60 0.98617 0.00050	10.40 0.99330 0.00049
10.85 0.98938 0.00048	10.65 0.99030 0.00047	10.45 0.99684 0.00048
10.90 0.99169 0.00048	10.70 0.99390 0.00048	10.50 1.00069 0.00049
10.95 0.99612 0.00047	10.75 0.99709 0.00046	10.55 1.00381 0.00051
11.00 0.99868 0.00047	10.80 1.00056 0.00046	10.60 1.00707 0.00049
11.05 1.00202 0.00046	10.85 1.00351 0.00048	10.65 1.00955 0.00048
11.10 1.00528 0.00046	10.90 1.00786 0.00048	10.70 1.01364 0.00048
11.15 1.00835 0.00047	10.95 1.01039 0.00047	10.75 1.01648 0.00049
11.20 1.01228 0.00046	11.00 1.01370 0.00047	10.80 1.02096 0.00048
11.25 1.01520 0.00047	11.05 1.01676 0.00049	
11.30 1.01818 0.00048	11.10 1.01951 0.00049	

235	250	353
9.30 0.92000 0.00048	9.30 0.92207 0.00048	9.30 0.92242 0.00049
9.35 0.92468 0.00048	9.35 0.92612 0.00047	9.35 0.92666 0.00049
9.40 0.92785 0.00049	9.40 0.93035 0.00048	9.40 0.93127 0.00049
9.45 0.93121 0.00049	9.45 0.93355 0.00047	9.45 0.93432 0.00048
9.50 0.93545 0.00050	9.50 0.93709 0.00049	9.50 0.93818 0.00049
9.55 0.93971 0.00049	9.55 0.94111 0.00048	9.55 0.94150 0.00048
9.60 0.94257 0.00048	9.60 0.94559 0.00049	9.60 0.94640 0.00049
9.65 0.94745 0.00049	9.65 0.94892 0.00049	9.65 0.94922 0.00049
9.70 0.94969 0.00050	9.70 0.95242 0.00048	9.70 0.95231 0.00046
9.75 0.95444 0.00047	9.75 0.95546 0.00047	9.75 0.95600 0.00049
9.80 0.95780 0.00049	9.80 0.96035 0.00049	9.80 0.95988 0.00047
9.85 0.96132 0.00048	9.85 0.96420 0.00047	9.85 0.96376 0.00049
9.90 0.96506 0.00049	9.90 0.96746 0.00049	9.90 0.96775 0.00048
9.95 0.96814 0.00048	9.95 0.96990 0.00050	9.95 0.97081 0.00047
10.00 0.97300 0.00047	10.00 0.97460 0.00049	10.00 0.97471 0.00050
10.05 0.97620 0.00048	10.05 0.97712 0.00049	10.05 0.97781 0.00048
10.10 0.97899 0.00047	10.10 0.97999 0.00049	10.10 0.98206 0.00048
10.15 0.98353 0.00048	10.15 0.98521 0.00048	10.15 0.98446 0.00048
10.20 0.98678 0.00050	10.20 0.98838 0.00049	10.20 0.98797 0.00050
10.25 0.99046 0.00048	10.25 0.99164 0.00049	10.25 0.99182 0.00049
10.30 0.99337 0.00049	10.30 0.99569 0.00049	10.30 0.99497 0.00051
10.35 0.99737 0.00048	10.35 0.99871 0.00049	10.35 0.99881 0.00050
10.40 1.00056 0.00049	10.40 1.00196 0.00049	10.40 1.00303 0.00050
10.45 1.00337 0.00049	10.45 1.00480 0.00048	10.45 1.00587 0.00049
10.50 1.00631 0.00049	10.50 1.00834 0.00047	10.50 1.00725 0.00049
10.55 1.01116 0.00050	10.55 1.01294 0.00048	10.55 1.01220 0.00048
10.60 1.01395 0.00048	10.60 1.01572 0.00049	10.60 1.01493 0.00050
10.65 1.01835 0.00049	10.65 1.01894 0.00048	10.65 1.01855 0.00049
10.70 1.02075 0.00050	10.70 1.02222 0.00049	10.70 1.02179 0.00049

470	475	480
9.40 0.91825 0.00048	9.40 0.91806 0.00048	9.40 0.91602 0.00048
9.45 0.92199 0.00048	9.45 0.92181 0.00047	9.45 0.92173 0.00048
9.50 0.92638 0.00048	9.50 0.92492 0.00048	9.50 0.92386 0.00047
9.55 0.93016 0.00048	9.55 0.92823 0.00049	9.55 0.92766 0.00049
9.60 0.93389 0.00048	9.60 0.93195 0.00049	9.60 0.93189 0.00048
9.65 0.93729 0.00048	9.65 0.93723 0.00049	9.65 0.93525 0.00049
9.70 0.94006 0.00048	9.70 0.93973 0.00048	9.70 0.93905 0.00048
9.75 0.94354 0.00049	9.75 0.94248 0.00048	9.75 0.94211 0.00048
9.80 0.94807 0.00047	9.80 0.94630 0.00047	9.80 0.94519 0.00048
9.85 0.95056 0.00048	9.85 0.95018 0.00047	9.85 0.94974 0.00047
9.90 0.95513 0.00048	9.90 0.95421 0.00047	9.90 0.95228 0.00047
9.95 0.95708 0.00048	9.95 0.95761 0.00048	9.95 0.95557 0.00047
10.00 0.96143 0.00048	10.00 0.96003 0.00048	10.00 0.95951 0.00049
10.05 0.96484 0.00048	10.05 0.96365 0.00048	10.05 0.96208 0.00049
10.10 0.96789 0.00049	10.10 0.96739 0.00050	10.10 0.96589 0.00047
10.15 0.97219 0.00048	10.15 0.97031 0.00049	10.15 0.97004 0.00049
10.20 0.97632 0.00049	10.20 0.97372 0.00047	10.20 0.97362 0.00049
10.25 0.97787 0.00048	10.25 0.97727 0.00049	10.25 0.97676 0.00049
10.30 0.98129 0.00048	10.30 0.98003 0.00048	10.30 0.97908 0.00048
10.35 0.98518 0.00049	10.35 0.98424 0.00049	10.35 0.98296 0.00049
10.40 0.98843 0.00048	10.40 0.98770 0.00048	10.40 0.98690 0.00048
10.45 0.99198 0.00051	10.45 0.99056 0.00050	10.45 0.98984 0.00048
10.50 0.99442 0.00048	10.50 0.99358 0.00049	10.50 0.99260 0.00048
10.55 0.99755 0.00049	10.55 0.99614 0.00049	10.55 0.99632 0.00048
10.60 1.00169 0.00049	10.60 1.00076 0.00048	10.60 0.99916 0.00049
10.65 1.00384 0.00048	10.65 1.00404 0.00050	10.65 1.00222 0.00051
10.70 1.00781 0.00049	10.70 1.00642 0.00049	10.70 1.00544 0.00048
10.75 1.01058 0.00050	10.75 1.00940 0.00049	10.75 1.00769 0.00048
10.80 1.01389 0.00048	10.80 1.01347 0.00050	10.80 1.01238 0.00049
10.85 1.01668 0.00049	10.85 1.01491 0.00049	10.85 1.01495 0.00051
10.90 1.01925 0.00049	10.90 1.01851 0.00050	10.90 1.01854 0.00049
		10.95 1.02169 0.00049
		11.00 1.02492 0.00048

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 10.80 1.01120 0.00050
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 10.90 1.01726 0.00049
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12	15	20
69.00 0.92344 0.00015	31.60 0.91953 0.00024	22.40 0.92683 0.00032
71.30 0.92555 0.00015	32.10 0.92352 0.00023	22.70 0.93259 0.00032
73.60 0.92697 0.00014	32.60 0.92683 0.00024	23.00 0.93785 0.00031
75.90 0.92862 0.00014	33.10 0.93087 0.00024	23.30 0.94210 0.00031
78.20 0.93054 0.00014	33.60 0.93443 0.00023	23.60 0.94745 0.00030
80.50 0.93202 0.00013	34.10 0.93777 0.00023	23.90 0.95280 0.00031
82.80 0.93320 0.00014	34.60 0.94128 0.00023	24.20 0.95803 0.00030
85.10 0.93439 0.00013	35.10 0.94405 0.00023	24.50 0.96210 0.00030
87.40 0.93583 0.00014	35.60 0.94731 0.00024	24.80 0.96714 0.00030
89.70 0.93701 0.00013	36.10 0.95050 0.00023	25.10 0.97209 0.00030
92.00 0.93789 0.00013	36.60 0.95307 0.00022	25.40 0.97655 0.00030
94.30 0.93849 0.00013	37.10 0.95577 0.00022	25.70 0.98068 0.00030
96.60 0.93938 0.00013	37.60 0.95812 0.00022	26.00 0.98384 0.00030
98.90 0.94020 0.00012	38.10 0.96104 0.00022	26.30 0.98880 0.00029
101.20 0.94099 0.00012	38.60 0.96327 0.00022	26.60 0.99315 0.00029
103.50 0.94149 0.00012	39.10 0.96568 0.00022	26.90 0.99723 0.00028
105.80 0.94179 0.00012	39.60 0.96794 0.00022	27.20 1.00090 0.00029
108.10 0.94269 0.00012	40.10 0.96983 0.00022	27.50 1.00471 0.00029
110.40 0.94349 0.00012	40.60 0.97206 0.00021	27.80 1.00784 0.00029
112.70 0.94439 0.00012	41.10 0.97456 0.00021	28.10 1.01209 0.00028
115.00 0.94488 0.00012	41.40 0.97566 0.00021	28.30 1.01377 0.00028
115.70 0.94470 0.00012		

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18.80 0.92457 0.00036	16.90 0.92131 0.00039	16.40 0.92249 0.00041
18.90 0.92689 0.00036	17.00 0.92528 0.00039	16.50 0.92673 0.00040
19.00 0.92975 0.00036	17.10 0.92926 0.00039	16.60 0.93083 0.00039
19.10 0.93298 0.00034	17.20 0.93304 0.00039	16.70 0.93507 0.00039
19.20 0.93586 0.00035	17.30 0.93659 0.00039	16.80 0.93899 0.00041
19.30 0.93845 0.00035	17.40 0.93964 0.00037	16.90 0.94248 0.00038
19.40 0.94041 0.00036	17.50 0.94339 0.00039	17.00 0.94522 0.00039
19.50 0.94375 0.00035	17.60 0.94692 0.00038	17.10 0.95019 0.00040
19.60 0.94651 0.00035	17.70 0.94984 0.00038	17.20 0.95261 0.00041
19.70 0.94875 0.00035	17.80 0.95389 0.00038	17.30 0.95647 0.00039
19.80 0.95241 0.00035	17.90 0.95736 0.00038	17.40 0.96008 0.00040
19.90 0.95488 0.00034	18.00 0.95995 0.00039	17.50 0.96365 0.00039
20.00 0.95637 0.00036	18.10 0.96366 0.00039	17.60 0.96821 0.00040
20.10 0.96003 0.00035	18.20 0.96753 0.00040	17.70 0.97084 0.00039
20.20 0.96204 0.00035	18.30 0.97026 0.00038	17.80 0.97480 0.00041
20.30 0.96469 0.00035	18.40 0.97395 0.00038	17.90 0.97792 0.00039
20.40 0.96661 0.00034	18.50 0.97614 0.00039	18.00 0.98195 0.00039
20.50 0.97015 0.00034	18.60 0.98014 0.00038	18.10 0.98486 0.00038
20.60 0.97244 0.00034	18.70 0.98312 0.00039	18.20 0.98804 0.00040
20.70 0.97486 0.00035	18.80 0.98614 0.00037	18.30 0.99144 0.00038
20.80 0.97687 0.00035	18.90 0.98896 0.00038	18.40 0.99460 0.00037
20.90 0.97871 0.00035	19.00 0.99126 0.00038	18.50 0.99811 0.00038
21.00 0.98214 0.00034	19.10 0.99456 0.00039	18.60 1.00156 0.00040
21.10 0.98351 0.00034	19.20 0.99739 0.00039	18.70 1.00439 0.00040
21.20 0.98629 0.00035	19.30 1.00120 0.00038	18.80 1.00775 0.00039
21.30 0.98894 0.00035	19.40 1.00375 0.00038	18.90 1.01078 0.00038
21.40 0.99082 0.00035	19.50 1.00714 0.00038	19.00 1.01420 0.00039
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22.50 1.01430 0.00034		

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15.80 0.92515 0.00040	15.00 0.92557 0.00043	14.00 0.92753 0.00046
15.90 0.92901 0.00041	15.10 0.93047 0.00042	14.10 0.93360 0.00046
16.00 0.93313 0.00040	15.20 0.93479 0.00044	14.20 0.93791 0.00045
16.10 0.93660 0.00041	15.30 0.93913 0.00043	14.30 0.94330 0.00047
16.20 0.94078 0.00040	15.40 0.94375 0.00043	14.40 0.94940 0.00047
16.30 0.94621 0.00041	15.50 0.94807 0.00043	14.50 0.95439 0.00045
16.40 0.94944 0.00040	15.60 0.95314 0.00043	14.60 0.95967 0.00046

16.50 0.95376 0.00041	15.70 0.95800 0.00043	14.70 0.96489 0.00047
16.60 0.95824 0.00042	15.80 0.96172 0.00043	14.80 0.96962 0.00046
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16.80 0.96556 0.00042	16.00 0.97009 0.00043	15.00 0.98042 0.00046
16.90 0.96864 0.00040	16.10 0.97494 0.00043	15.10 0.98568 0.00046
17.00 0.97262 0.00041	16.20 0.98008 0.00044	15.20 0.99071 0.00045
17.10 0.97706 0.00040	16.30 0.98404 0.00044	15.30 0.99565 0.00046
17.20 0.98098 0.00040	16.40 0.98793 0.00043	15.40 1.00023 0.00045
17.30 0.98452 0.00040	16.50 0.99216 0.00043	15.50 1.00549 0.00046
17.40 0.98762 0.00039	16.60 0.99646 0.00042	15.60 1.01037 0.00046
17.50 0.99127 0.00041	16.70 0.99977 0.00043	15.70 1.01419 0.00046
17.60 0.99523 0.00040	16.80 1.00382 0.00042	15.80 1.01991 0.00045
17.70 0.99870 0.00041	16.90 1.00824 0.00042	
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17.90 1.00665 0.00040	17.10 1.01666 0.00043	
18.00 1.00990 0.00040	17.20 1.01894 0.00042	
18.10 1.01344 0.00039		
18.20 1.01644 0.00040		
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13.30 0.92531 0.00048	12.85 0.92451 0.00050	12.45 0.91950 0.00051
13.40 0.93255 0.00048	12.90 0.92711 0.00049	12.50 0.92305 0.00050
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13.60 0.94369 0.00047	13.00 0.93495 0.00049	12.60 0.92979 0.00049
13.70 0.94974 0.00047	13.05 0.93724 0.00049	12.65 0.93469 0.00051
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13.90 0.96188 0.00047	13.15 0.94479 0.00050	12.75 0.94135 0.00051
14.00 0.96751 0.00048	13.20 0.94766 0.00049	12.80 0.94480 0.00050
14.10 0.97296 0.00047	13.25 0.94955 0.00049	12.85 0.94755 0.00051
14.20 0.97958 0.00047	13.30 0.95449 0.00050	12.90 0.95063 0.00049
14.30 0.98446 0.00048	13.35 0.95672 0.00048	12.95 0.95402 0.00051
14.40 0.98929 0.00048	13.40 0.96019 0.00050	13.00 0.95831 0.00051
14.50 0.99539 0.00047	13.45 0.96383 0.00049	13.05 0.96206 0.00049
14.60 1.00052 0.00048	13.50 0.96624 0.00050	13.10 0.96338 0.00049
14.70 1.00471 0.00046	13.55 0.97021 0.00050	13.15 0.96755 0.00050
14.80 1.01118 0.00046	13.60 0.97257 0.00049	13.20 0.97069 0.00051
14.90 1.01644 0.00047	13.65 0.97664 0.00049	13.25 0.97333 0.00051
15.00 1.02156 0.00047	13.70 0.97850 0.00049	13.30 0.97700 0.00050
	13.75 0.98196 0.00048	13.35 0.98071 0.00051
	13.80 0.98419 0.00049	13.40 0.98270 0.00051
	13.85 0.98789 0.00049	13.45 0.98743 0.00051
	13.90 0.98970 0.00049	13.50 0.98974 0.00050
	13.95 0.99348 0.00049	13.55 0.99228 0.00051
	14.00 0.99758 0.00050	13.60 0.99586 0.00050
	14.05 0.99925 0.00049	13.65 0.99978 0.00050
	14.10 1.00318 0.00048	13.70 1.00167 0.00050
	14.15 1.00665 0.00048	13.75 1.00583 0.00050

14.20	1.00793	0.00050	13.80	1.00791	0.00051
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14.30	1.01312	0.00049	13.90	1.01375	0.00051
14.35	1.01663	0.00050	13.95	1.01700	0.00051
14.40	1.01946	0.00050	14.00	1.02021	0.00051
			14.05	1.02218	0.00051
			14.10	1.02571	0.00052

90	100	118
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12.25 0.92235 0.00050	12.05 0.92215 0.00051	11.85 0.92522 0.00053
12.30 0.92588 0.00051	12.10 0.92550 0.00051	11.90 0.92905 0.00053
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12.40 0.93261 0.00050	12.20 0.93346 0.00053	12.00 0.93770 0.00052
12.45 0.93690 0.00052	12.25 0.93692 0.00053	12.05 0.94079 0.00054
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12.60 0.94751 0.00052	12.40 0.94677 0.00052	12.20 0.95202 0.00051
12.65 0.95101 0.00051	12.45 0.95104 0.00051	12.25 0.95531 0.00053
12.70 0.95599 0.00052	12.50 0.95383 0.00052	12.30 0.95914 0.00054
12.75 0.95830 0.00052	12.55 0.95743 0.00053	12.35 0.96246 0.00053
12.80 0.96125 0.00050	12.60 0.96061 0.00051	12.40 0.96695 0.00051
12.85 0.96462 0.00052	12.65 0.96530 0.00052	12.45 0.97010 0.00054
12.90 0.96901 0.00053	12.70 0.96796 0.00053	12.50 0.97292 0.00054
12.95 0.97137 0.00051	12.75 0.97177 0.00052	12.55 0.97790 0.00053
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13.10 0.98146 0.00053	12.90 0.98250 0.00051	12.70 0.98858 0.00053
13.15 0.98424 0.00051	12.95 0.98579 0.00052	12.75 0.99188 0.00053
13.20 0.98779 0.00051	13.00 0.98868 0.00053	12.80 0.99513 0.00052
13.25 0.99114 0.00052	13.05 0.99190 0.00052	12.85 0.99903 0.00052
13.30 0.99381 0.00052	13.10 0.99627 0.00054	12.90 1.00088 0.00054
13.35 0.99881 0.00052	13.15 0.99917 0.00053	12.95 1.00645 0.00053
13.40 1.00059 0.00051	13.20 1.00252 0.00052	13.00 1.00918 0.00054
13.45 1.00428 0.00050	13.25 1.00534 0.00052	13.05 1.01191 0.00053
13.50 1.00768 0.00051	13.30 1.00875 0.00052	13.10 1.01651 0.00053
13.55 1.01093 0.00051	13.35 1.01325 0.00051	13.15 1.01859 0.00054
13.60 1.01349 0.00052	13.40 1.01580 0.00052	13.20 1.02321 0.00054
13.65 1.01660 0.00051	13.45 1.01847 0.00051	
13.70 1.01964 0.00051	13.50 1.02218 0.00053	

130	150	200
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11.65 0.91928 0.00053	11.55 0.92374 0.00053	11.25 0.91823 0.00053
11.70 0.92469 0.00053	11.60 0.92767 0.00054	11.30 0.92162 0.00054
11.75 0.92748 0.00054	11.65 0.93080 0.00055	11.35 0.92701 0.00055
11.80 0.93318 0.00053	11.70 0.93589 0.00053	11.40 0.93056 0.00054

11.85 0.93644 0.00054	11.75 0.94046 0.00054	11.45 0.93512 0.00054
11.90 0.94005 0.00055	11.80 0.94429 0.00053	11.50 0.93956 0.00056
11.95 0.94337 0.00052	11.85 0.94873 0.00054	11.55 0.94368 0.00055
12.00 0.94839 0.00054	11.90 0.95252 0.00054	11.60 0.94707 0.00055
12.05 0.95117 0.00054	11.95 0.95549 0.00053	11.65 0.95011 0.00054
12.10 0.95437 0.00052	12.00 0.95984 0.00054	11.70 0.95563 0.00056
12.15 0.95959 0.00052	12.05 0.96334 0.00054	11.75 0.95896 0.00056
12.20 0.96197 0.00056	12.10 0.96728 0.00054	11.80 0.96228 0.00053
12.25 0.96664 0.00055	12.15 0.97045 0.00053	11.85 0.96859 0.00057
12.30 0.96971 0.00052	12.20 0.97603 0.00055	11.90 0.97200 0.00055
12.35 0.97350 0.00053	12.25 0.97794 0.00055	11.95 0.97547 0.00053
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12.45 0.98139 0.00052	12.35 0.98572 0.00055	12.05 0.98276 0.00055
12.50 0.98485 0.00054	12.40 0.99007 0.00055	12.10 0.98615 0.00056
12.55 0.98751 0.00053	12.45 0.99308 0.00055	12.15 0.98961 0.00055
12.60 0.99157 0.00054	12.50 0.99736 0.00054	12.20 0.99357 0.00056
12.65 0.99490 0.00054	12.55 1.00147 0.00054	12.25 0.99792 0.00055
12.70 0.99879 0.00053	12.60 1.00434 0.00055	12.30 1.00079 0.00054
12.75 1.00385 0.00053	12.65 1.00778 0.00054	12.35 1.00385 0.00056
12.80 1.00703 0.00054	12.70 1.01219 0.00054	12.40 1.00868 0.00054
12.85 1.00988 0.00055		12.45 1.01298 0.00053
12.90 1.01237 0.00053		12.50 1.01661 0.00054
12.95 1.01525 0.00053		12.55 1.01969 0.00055
13.00 1.01987 0.00054		12.60 1.02357 0.00055

235	250	353
11.20 0.92005 0.00054	11.30 0.93000 0.00055	11.10 0.91588 0.00054
11.25 0.92393 0.00056	11.35 0.93492 0.00055	11.15 0.92161 0.00055
11.30 0.92860 0.00055	11.40 0.93901 0.00055	11.20 0.92537 0.00054
11.35 0.93330 0.00056	11.45 0.94340 0.00055	11.25 0.92911 0.00056
11.40 0.93648 0.00054	11.50 0.94750 0.00055	11.30 0.93313 0.00056
11.45 0.94121 0.00054	11.55 0.95134 0.00055	11.35 0.93665 0.00055
11.50 0.94514 0.00056	11.60 0.95506 0.00056	11.40 0.94071 0.00055
11.65 0.95797 0.00055	11.65 0.96013 0.00055	11.45 0.94619 0.00055
11.80 0.96965 0.00054	11.70 0.96383 0.00055	11.50 0.95023 0.00056
11.85 0.97346 0.00056	11.75 0.96679 0.00054	11.55 0.95359 0.00056
11.90 0.97789 0.00053	11.80 0.97084 0.00056	11.60 0.95663 0.00056
11.95 0.98073 0.00055	11.85 0.97442 0.00055	11.65 0.96213 0.00056
12.00 0.98548 0.00056	11.90 0.97920 0.00054	11.70 0.96522 0.00054
12.05 0.98983 0.00055	11.95 0.98280 0.00056	11.75 0.97046 0.00054
12.10 0.99310 0.00056	12.00 0.98626 0.00057	11.80 0.97394 0.00056
12.15 0.99732 0.00057	12.05 0.98989 0.00056	11.85 0.97659 0.00055
12.20 1.00097 0.00056	12.10 0.99451 0.00056	11.90 0.98010 0.00056
12.25 1.00402 0.00055	12.15 0.99839 0.00055	11.95 0.98550 0.00054
12.30 1.00763 0.00055	12.20 1.00192 0.00056	12.00 0.98863 0.00056
12.35 1.01167 0.00055	12.25 1.00590 0.00055	12.05 0.99353 0.00056
12.40 1.01544 0.00056	12.30 1.00886 0.00056	12.10 0.99712 0.00057
12.45 1.01916 0.00056	12.35 1.01338 0.00056	12.15 0.99958 0.00056
12.50 1.02292 0.00056	12.40 1.01714 0.00056	12.20 1.00379 0.00055

12.45	1.02020	0.00057	12.25	1.00742	0.00055
12.50	1.02394	0.00054	12.30	1.01134	0.00056
			12.35	1.01485	0.00054
			12.40	1.01851	0.00055
			12.45	1.02327	0.00058
			12.50	1.02706	0.00056

470	500	600
11.20 0.91707 0.00055	11.20 0.91367 0.00052	11.40 0.91905 0.00054
11.25 0.92174 0.00054	11.25 0.91856 0.00054	11.45 0.92214 0.00055
11.30 0.92665 0.00053	11.30 0.92264 0.00056	11.50 0.92735 0.00055
11.35 0.92998 0.00055	11.35 0.92625 0.00056	11.55 0.93202 0.00054
11.40 0.93605 0.00054	11.40 0.93153 0.00054	11.60 0.93388 0.00055
11.45 0.93851 0.00056	11.45 0.93418 0.00056	11.65 0.93795 0.00055
11.50 0.94277 0.00055	11.50 0.93851 0.00055	11.70 0.94176 0.00055
11.55 0.94699 0.00056	11.55 0.94269 0.00055	11.75 0.94582 0.00055
11.60 0.95084 0.00055	11.60 0.94657 0.00055	11.80 0.95062 0.00055
11.65 0.95631 0.00054	11.65 0.94977 0.00054	11.85 0.95344 0.00053
11.70 0.95901 0.00057	11.70 0.95524 0.00055	11.90 0.95834 0.00055
11.75 0.96289 0.00055	11.75 0.95844 0.00055	11.95 0.96072 0.00056
11.80 0.96669 0.00054	11.80 0.96235 0.00053	12.00 0.96464 0.00056
11.85 0.97159 0.00055	11.85 0.96598 0.00055	12.05 0.96831 0.00054
11.90 0.97456 0.00057	11.90 0.97005 0.00055	12.10 0.97230 0.00054
11.95 0.97821 0.00054	11.95 0.97256 0.00055	12.15 0.97572 0.00055
12.00 0.98101 0.00054	12.00 0.97538 0.00055	12.20 0.97933 0.00054
12.05 0.98577 0.00055	12.05 0.98060 0.00055	12.25 0.98323 0.00055
12.10 0.98882 0.00054	12.10 0.98489 0.00055	12.30 0.98681 0.00055
12.15 0.99316 0.00055	12.15 0.98766 0.00054	12.35 0.99102 0.00055
12.20 0.99614 0.00055	12.20 0.99206 0.00055	12.40 0.99502 0.00055
12.25 1.00135 0.00056	12.25 0.99513 0.00055	12.45 0.99814 0.00056
12.30 1.00338 0.00057	12.30 1.00000 0.00055	12.50 1.00106 0.00055
12.35 1.00772 0.00055	12.35 1.00242 0.00056	12.55 1.00505 0.00054
12.40 1.01124 0.00055	12.40 1.00632 0.00055	12.60 1.00834 0.00055
12.45 1.01443 0.00056	12.45 1.01012 0.00056	12.65 1.01147 0.00056
12.50 1.01828 0.00056	12.50 1.01433 0.00056	12.70 1.01551 0.00055
12.55 1.02271 0.00057	12.55 1.01613 0.00055	12.75 1.01903 0.00056
12.60 1.02510 0.00054	12.60 1.02110 0.00055	12.80 1.02209 0.00054
	12.65 1.02365 0.00054	
	12.70 1.02766 0.00056	

605	610	615
11.40 0.91821 0.00055	11.40 0.91895 0.00053	11.40 0.91604 0.00055
11.45 0.92293 0.00054	11.45 0.92123 0.00054	11.45 0.92003 0.00054
11.50 0.92669 0.00055	11.50 0.92580 0.00054	11.50 0.92419 0.00055
11.55 0.93045 0.00055	11.55 0.93063 0.00054	11.55 0.92870 0.00056
11.60 0.93500 0.00052	11.60 0.93390 0.00055	11.60 0.93217 0.00054
11.65 0.93761 0.00056	11.65 0.93814 0.00054	11.65 0.93712 0.00055

11.70 0.94115 0.00054	11.70 0.94092 0.00053	11.70 0.93959 0.00052
11.75 0.94559 0.00055	11.75 0.94623 0.00054	11.75 0.94446 0.00053
11.80 0.94898 0.00055	11.80 0.94938 0.00053	11.80 0.94795 0.00055
11.85 0.95262 0.00055	11.85 0.95313 0.00054	11.85 0.95196 0.00054
11.90 0.95782 0.00054	11.90 0.95699 0.00055	11.90 0.95451 0.00054
11.95 0.96072 0.00054	11.95 0.96021 0.00053	11.95 0.95942 0.00055
12.00 0.96442 0.00055	12.00 0.96496 0.00054	12.00 0.96331 0.00054
12.05 0.96987 0.00055	12.05 0.96842 0.00054	12.05 0.96624 0.00056
12.10 0.97202 0.00055	12.10 0.97160 0.00055	12.10 0.96989 0.00054
12.15 0.97529 0.00055	12.15 0.97564 0.00055	12.15 0.97428 0.00052
12.20 0.97970 0.00053	12.20 0.97956 0.00053	12.20 0.97817 0.00055
12.25 0.98305 0.00053	12.25 0.98216 0.00055	12.25 0.98150 0.00055
12.30 0.98751 0.00053	12.30 0.98478 0.00054	12.30 0.98529 0.00055
12.35 0.98954 0.00055	12.35 0.98984 0.00055	12.35 0.98720 0.00052
12.40 0.99432 0.00056	12.40 0.99371 0.00054	12.40 0.99278 0.00054
12.45 0.99700 0.00055	12.45 0.99632 0.00053	12.45 0.99474 0.00054
12.50 1.00121 0.00055	12.50 1.00008 0.00054	12.50 0.99897 0.00054
12.55 1.00444 0.00056	12.55 1.00395 0.00054	12.55 1.00247 0.00054
12.60 1.00737 0.00056	12.60 1.00709 0.00054	12.60 1.00608 0.00055
12.65 1.01120 0.00055	12.65 1.01072 0.00056	12.65 1.00873 0.00053
12.70 1.01597 0.00055	12.70 1.01439 0.00055	12.70 1.01455 0.00055
12.75 1.01868 0.00055	12.75 1.01961 0.00057	12.75 1.01750 0.00055
12.80 1.02148 0.00053	12.80 1.02170 0.00055	12.80 1.02021 0.00055
		12.85 1.02272 0.00055
		12.90 1.02678 0.00056

620	625	629
11.40 0.91624 0.00053	11.40 0.91628 0.00054	11.40 0.91478 0.00056
11.45 0.91972 0.00054	11.45 0.92017 0.00054	11.45 0.91865 0.00055
11.50 0.92506 0.00055	11.50 0.92354 0.00054	11.50 0.92280 0.00054
11.55 0.92766 0.00054	11.55 0.92820 0.00055	11.55 0.92648 0.00054
11.60 0.93277 0.00055	11.60 0.93163 0.00055	11.60 0.93093 0.00052
11.65 0.93570 0.00054	11.65 0.93568 0.00053	11.65 0.93411 0.00053
11.70 0.94038 0.00053	11.70 0.93935 0.00055	11.70 0.93803 0.00053
11.75 0.94374 0.00053	11.75 0.94363 0.00055	11.75 0.94254 0.00054
11.80 0.94801 0.00053	11.80 0.94694 0.00052	11.80 0.94554 0.00055
11.85 0.95039 0.00054	11.85 0.95152 0.00053	11.85 0.94957 0.00054
11.90 0.95518 0.00055	11.90 0.95435 0.00054	11.90 0.95380 0.00054
11.95 0.95738 0.00053	11.95 0.95900 0.00055	11.95 0.95725 0.00053
12.00 0.96300 0.00056	12.00 0.96205 0.00054	12.00 0.96057 0.00056
12.05 0.96677 0.00053	12.05 0.96576 0.00054	12.05 0.96458 0.00054
12.10 0.96978 0.00055	12.10 0.96899 0.00054	12.10 0.96787 0.00054
12.15 0.97358 0.00054	12.15 0.97383 0.00053	12.15 0.97194 0.00054
12.20 0.97629 0.00054	12.20 0.97685 0.00054	12.20 0.97562 0.00054
12.25 0.98064 0.00054	12.25 0.97999 0.00054	12.25 0.97985 0.00054
12.30 0.98415 0.00054	12.30 0.98297 0.00054	12.30 0.98335 0.00055
12.35 0.98892 0.00055	12.35 0.98647 0.00053	12.35 0.98723 0.00054
12.40 0.99170 0.00055	12.40 0.99060 0.00053	12.40 0.98929 0.00054
12.45 0.99451 0.00054	12.45 0.99494 0.00053	12.45 0.99393 0.00055

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12.50 0.99870 0.00056	12.50 0.99827 0.00054	12.50 0.99780 0.00054
12.55 1.00260 0.00053	12.55 1.00118 0.00053	12.55 1.00078 0.00053
12.60 1.00546 0.00057	12.60 1.00505 0.00055	12.60 1.00513 0.00054
12.65 1.01010 0.00055	12.65 1.00859 0.00053	12.65 1.00778 0.00055
12.70 1.01223 0.00056	12.70 1.01098 0.00055	12.70 1.01065 0.00054
12.75 1.01560 0.00054	12.75 1.01526 0.00056	12.75 1.01542 0.00055
12.80 1.02045 0.00054	12.80 1.01896 0.00054	12.80 1.01801 0.00055
		12.85 1.02197 0.00053
		12.90 1.02403 0.00054

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12	15	20
74.70 0.92857 0.00014	30.90 0.92602 0.00024	20.80 0.92472 0.00030
79.20 0.93213 0.00014	31.90 0.93286 0.00023	21.00 0.92892 0.00030
83.70 0.93448 0.00014	32.90 0.93990 0.00022	21.20 0.93226 0.00030
88.20 0.93655 0.00013	33.90 0.94592 0.00022	21.40 0.93613 0.00030
92.70 0.93902 0.00013	34.90 0.95236 0.00021	21.60 0.93991 0.00031
97.20 0.94021 0.00013	35.90 0.95769 0.00021	21.80 0.94339 0.00031
101.70 0.94168 0.00013	36.90 0.96220 0.00021	22.00 0.94639 0.00030
106.20 0.94299 0.00012	37.90 0.96695 0.00021	22.20 0.94941 0.00030
110.70 0.94465 0.00012	38.90 0.97145 0.00021	22.40 0.95248 0.00030
115.20 0.94508 0.00012	39.90 0.97582 0.00020	22.60 0.95686 0.00030
119.70 0.94569 0.00012	40.90 0.97953 0.00020	22.80 0.95964 0.00029
124.20 0.94702 0.00012	41.90 0.98328 0.00020	23.00 0.96302 0.00030
128.70 0.94738 0.00012	42.90 0.98602 0.00020	23.20 0.96636 0.00029
133.20 0.94809 0.00011	43.90 0.99019 0.00020	23.40 0.96956 0.00029
137.70 0.94830 0.00011	44.90 0.99378 0.00020	23.60 0.97224 0.00030
142.20 0.94940 0.00011	45.90 0.99656 0.00019	23.80 0.97494 0.00030
146.70 0.95006 0.00011	46.90 0.99885 0.00019	24.00 0.97834 0.00030
151.20 0.95044 0.00011	47.90 1.00207 0.00019	24.20 0.98077 0.00029
155.70 0.95056 0.00011	48.90 1.00369 0.00018	24.40 0.98393 0.00029
160.20 0.95107 0.00011	49.90 1.00591 0.00018	24.60 0.98609 0.00029
164.70 0.95134 0.00011	50.90 1.00870 0.00018	24.80 0.98920 0.00029
166.10 0.95167 0.00011	51.90 1.00983 0.00018	25.00 0.99167 0.00028
	52.40 1.01209 0.00018	25.20 0.99488 0.00029
		25.40 0.99693 0.00028
		25.60 0.99947 0.00028
		25.80 1.00243 0.00028
		26.00 1.00534 0.00028
		26.20 1.00712 0.00028
		26.40 1.00971 0.00027
		26.50 1.01077 0.00028

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25	30	32
17.20 0.92157 0.00035	15.40 0.92243 0.00038	14.90 0.92342 0.00038
17.40 0.92756 0.00035	15.50 0.92610 0.00038	15.00 0.92710 0.00039
17.60 0.93392 0.00035	15.60 0.92987 0.00036	15.10 0.93093 0.00038
17.80 0.93844 0.00034	15.70 0.93335 0.00037	15.20 0.93497 0.00039
18.00 0.94427 0.00035	15.80 0.93729 0.00037	15.30 0.93833 0.00039
18.20 0.94933 0.00033	15.90 0.94129 0.00037	15.40 0.94341 0.00039
18.40 0.95491 0.00034	16.00 0.94372 0.00038	15.50 0.94731 0.00037
18.60 0.96016 0.00034	16.10 0.94764 0.00037	15.60 0.95028 0.00038
18.80 0.96515 0.00035	16.20 0.95052 0.00037	15.70 0.95381 0.00038
19.00 0.97052 0.00035	16.30 0.95457 0.00038	15.80 0.95746 0.00038
19.20 0.97493 0.00035	16.40 0.95767 0.00037	15.90 0.96158 0.00039
19.40 0.98070 0.00033	16.50 0.96188 0.00037	16.00 0.96518 0.00039
19.60 0.98430 0.00034	16.60 0.96453 0.00036	16.10 0.96717 0.00037
19.80 0.98940 0.00034	16.70 0.96793 0.00037	16.20 0.97164 0.00038
20.00 0.99324 0.00033	16.80 0.97028 0.00037	16.30 0.97522 0.00037
20.20 0.99835 0.00034	16.90 0.97411 0.00037	16.40 0.97787 0.00039
20.40 1.00200 0.00034	17.00 0.97716 0.00037	16.50 0.98232 0.00039
20.60 1.00694 0.00033	17.10 0.98079 0.00037	16.60 0.98583 0.00038
20.80 1.01033 0.00033	17.20 0.98373 0.00037	16.70 0.98849 0.00037
21.00 1.01423 0.00032	17.30 0.98613 0.00037	16.80 0.99236 0.00038
	17.40 0.98967 0.00037	16.90 0.99524 0.00038
	17.50 0.99265 0.00038	17.00 0.99813 0.00037
	17.60 0.99587 0.00037	17.10 1.00147 0.00037
	17.70 0.99873 0.00036	17.20 1.00432 0.00038
	17.80 1.00192 0.00037	17.30 1.00810 0.00037
	17.90 1.00410 0.00037	17.40 1.01099 0.00037
	18.00 1.00703 0.00036	17.50 1.01454 0.00038
	18.10 1.00984 0.00038	17.60 1.01690 0.00038
	18.20 1.01232 0.00035	
	18.30 1.01584 0.00037	

35	40	50
14.20 0.92117 0.00040	13.40 0.92095 0.00041	12.40 0.92284 0.00045
14.30 0.92505 0.00041	13.50 0.92566 0.00042	12.50 0.92757 0.00044
14.40 0.92981 0.00039	13.60 0.93087 0.00041	12.60 0.93323 0.00045
14.50 0.93375 0.00041	13.70 0.93485 0.00041	12.70 0.93958 0.00043
14.60 0.93827 0.00039	13.80 0.94013 0.00042	12.80 0.94567 0.00045
14.70 0.94192 0.00039	13.90 0.94456 0.00042	12.90 0.94995 0.00044
14.80 0.94613 0.00038	14.00 0.94878 0.00042	13.00 0.95549 0.00045
14.90 0.95119 0.00039	14.10 0.95432 0.00041	13.10 0.96107 0.00043
15.00 0.95426 0.00039	14.20 0.95841 0.00041	13.20 0.96556 0.00043
15.10 0.95791 0.00038	14.30 0.96265 0.00041	13.30 0.97117 0.00044
15.20 0.96160 0.00040	14.40 0.96664 0.00042	13.40 0.97660 0.00043
15.30 0.96603 0.00039	14.50 0.97082 0.00041	13.50 0.98140 0.00044
15.40 0.96982 0.00040	14.60 0.97618 0.00041	13.60 0.98686 0.00044
15.50 0.97387 0.00039	14.70 0.98012 0.00041	13.70 0.99216 0.00043
15.60 0.97829 0.00040	14.80 0.98470 0.00040	13.80 0.99573 0.00043
15.70 0.98180 0.00039	14.90 0.98824 0.00041	13.90 1.00080 0.00043

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15.80 0.98473 0.00039	15.00 0.99273 0.00041	14.00 1.00550 0.00044
15.90 0.98916 0.00038	15.10 0.99690 0.00042	14.10 1.01090 0.00044
16.00 0.99210 0.00041	15.20 1.00093 0.00040	14.20 1.01552 0.00044
16.10 0.99527 0.00039	15.30 1.00490 0.00042	14.30 1.01941 0.00043
16.20 0.99944 0.00040	15.40 1.00873 0.00040	
16.30 1.00294 0.00038	15.50 1.01191 0.00041	
16.40 1.00679 0.00039	15.60 1.01701 0.00041	
16.50 1.01006 0.00039	15.70 1.02012 0.00040	
16.60 1.01313 0.00038		
16.70 1.01682 0.00039		

60	70	80
11.70 0.91955 0.00046	11.30 0.92214 0.00046	10.90 0.91673 0.00047
11.80 0.92583 0.00045	11.35 0.92600 0.00047	10.95 0.92147 0.00048
11.90 0.93272 0.00047	11.40 0.92858 0.00047	11.00 0.92378 0.00047
12.00 0.93770 0.00046	11.45 0.93282 0.00048	11.05 0.92737 0.00048
12.10 0.94387 0.00045	11.50 0.93635 0.00048	11.10 0.93096 0.00047
12.20 0.95026 0.00045	11.55 0.93894 0.00047	11.15 0.93550 0.00049
12.30 0.95599 0.00046	11.60 0.94178 0.00046	11.20 0.93768 0.00048
12.40 0.96237 0.00046	11.65 0.94518 0.00045	11.25 0.94217 0.00047
12.50 0.96894 0.00046	11.70 0.94778 0.00046	11.30 0.94522 0.00047
12.60 0.97427 0.00045	11.75 0.95209 0.00047	11.35 0.94850 0.00048
12.70 0.97990 0.00047	11.80 0.95470 0.00047	11.40 0.95242 0.00047
12.80 0.98482 0.00046	11.85 0.95865 0.00047	11.45 0.95450 0.00047
12.90 0.99043 0.00046	11.90 0.96106 0.00047	11.50 0.95867 0.00050
13.00 0.99633 0.00046	11.95 0.96463 0.00048	11.55 0.96188 0.00048
13.10 1.00066 0.00046	12.00 0.96787 0.00048	11.60 0.96478 0.00048
13.20 1.00667 0.00046	12.05 0.97091 0.00048	11.65 0.96810 0.00048
13.30 1.01226 0.00046	12.10 0.97373 0.00045	11.70 0.97089 0.00047
13.40 1.01779 0.00047	12.15 0.97683 0.00046	11.75 0.97567 0.00050
13.50 1.02299 0.00046	12.20 0.98040 0.00046	11.80 0.97904 0.00048
	12.25 0.98297 0.00047	11.85 0.98188 0.00049
	12.30 0.98610 0.00046	11.90 0.98423 0.00048
	12.35 0.98861 0.00046	11.95 0.98889 0.00047
	12.40 0.99266 0.00048	12.00 0.99059 0.00048
	12.45 0.99481 0.00046	12.05 0.99354 0.00050
	12.50 0.99818 0.00048	12.10 0.99700 0.00048
	12.55 1.00090 0.00047	12.15 1.00093 0.00049
	12.60 1.00387 0.00047	12.20 1.00380 0.00049
	12.65 1.00666 0.00046	12.25 1.00662 0.00048
	12.70 1.00871 0.00047	12.30 1.00959 0.00047
	12.75 1.01191 0.00047	12.35 1.01350 0.00048
	12.80 1.01516 0.00048	12.40 1.01547 0.00049
	12.85 1.01812 0.00047	12.45 1.01853 0.00047
	12.90 1.02047 0.00048	12.50 1.02209 0.00047

90	100	118
10.70 0.91998 0.00048	10.50 0.91966 0.00051	10.20 0.91608 0.00050
10.75 0.92411 0.00049	10.55 0.92391 0.00050	10.25 0.92025 0.00052
10.80 0.92651 0.00051	10.60 0.92744 0.00050	10.30 0.92363 0.00051
10.85 0.93070 0.00048	10.65 0.93080 0.00049	10.35 0.92793 0.00050
10.90 0.93466 0.00049	10.70 0.93393 0.00051	10.40 0.93102 0.00051
10.95 0.93862 0.00049	10.75 0.93845 0.00051	10.45 0.93557 0.00049
11.00 0.94120 0.00049	10.80 0.94265 0.00051	10.50 0.94005 0.00052
11.05 0.94505 0.00051	10.85 0.94474 0.00051	10.55 0.94288 0.00049
11.10 0.94935 0.00050	10.90 0.94892 0.00050	10.60 0.94574 0.00050
11.15 0.95235 0.00049	10.95 0.95211 0.00051	10.65 0.95155 0.00052
11.20 0.95660 0.00050	11.00 0.95719 0.00050	10.70 0.95408 0.00050
11.25 0.95860 0.00049	11.05 0.95999 0.00049	10.75 0.95829 0.00051
11.30 0.96238 0.00049	11.10 0.96314 0.00050	10.80 0.96108 0.00051
11.35 0.96565 0.00051	11.15 0.96646 0.00049	10.85 0.96555 0.00051
11.40 0.96930 0.00050	11.20 0.97015 0.00050	10.90 0.96888 0.00050
11.45 0.97322 0.00050	11.25 0.97311 0.00049	10.95 0.97198 0.00051
11.50 0.97676 0.00049	11.30 0.97769 0.00050	11.00 0.97620 0.00052
11.55 0.97902 0.00049	11.35 0.98122 0.00050	11.05 0.98013 0.00050
11.60 0.98295 0.00049	11.40 0.98436 0.00051	11.10 0.98345 0.00052
11.65 0.98650 0.00049	11.45 0.98743 0.00050	11.15 0.98620 0.00051
11.70 0.99057 0.00048	11.50 0.99056 0.00051	11.25 0.99440 0.00050
11.75 0.99332 0.00049	11.55 0.99321 0.00049	11.30 0.99709 0.00051
11.80 0.99599 0.00049	11.60 0.99715 0.00049	11.35 1.00058 0.00052
11.85 0.99996 0.00050	11.65 1.00122 0.00049	11.40 1.00415 0.00050
11.90 1.00203 0.00050	11.70 1.00476 0.00048	11.45 1.00749 0.00052
11.95 1.00686 0.00049	11.75 1.00760 0.00049	11.50 1.01112 0.00052
12.00 1.00975 0.00049	11.80 1.01106 0.00051	11.55 1.01503 0.00051
12.05 1.01288 0.00049	11.85 1.01484 0.00049	11.60 1.01772 0.00050
12.10 1.01588 0.00051	11.90 1.01735 0.00051	11.65 1.02169 0.00051
12.15 1.01797 0.00049	11.95 1.01988 0.00051	11.70 1.02426 0.00051
12.20 1.02212 0.00047	12.00 1.02432 0.00051	
130	150	200
10.10 0.91831 0.00051	10.00 0.92244 0.00049	9.70 0.91619 0.00055
10.15 0.92212 0.00051	10.05 0.92635 0.00052	9.75 0.92198 0.00051
10.20 0.92590 0.00052	10.10 0.92975 0.00051	9.80 0.92452 0.00054
10.25 0.93010 0.00051	10.15 0.93501 0.00051	9.85 0.92952 0.00053
10.30 0.93413 0.00053	10.20 0.93776 0.00051	9.90 0.93315 0.00053
10.35 0.93746 0.00052	10.25 0.94206 0.00051	9.95 0.93838 0.00052
10.40 0.94172 0.00051	10.30 0.94649 0.00052	10.00 0.94173 0.00053
10.45 0.94642 0.00051	10.35 0.95021 0.00052	10.05 0.94513 0.00052
10.50 0.95055 0.00052	10.40 0.95349 0.00051	10.10 0.94844 0.00052
10.55 0.95312 0.00051	10.45 0.95797 0.00051	10.15 0.95420 0.00052
10.60 0.95666 0.00050	10.50 0.96262 0.00052	10.20 0.95764 0.00052
10.65 0.96037 0.00051	10.55 0.96651 0.00054	10.25 0.96097 0.00053
10.70 0.96482 0.00052	10.60 0.96947 0.00052	10.30 0.96576 0.00053
10.75 0.96813 0.00051	10.65 0.97344 0.00052	10.35 0.96893 0.00053
10.80 0.97182 0.00052	10.70 0.97699 0.00052	10.40 0.97358 0.00053

10.85 0.97626 0.00052	10.75 0.97990 0.00053	10.45 0.97691 0.00053
10.90 0.97888 0.00052	10.80 0.98454 0.00051	10.50 0.98151 0.00052
10.95 0.98323 0.00051	10.85 0.98753 0.00051	10.55 0.98512 0.00052
11.00 0.98658 0.00053	10.90 0.99073 0.00052	10.60 0.98832 0.00054
11.05 0.99013 0.00051	10.95 0.99529 0.00052	10.65 0.99231 0.00053
11.10 0.99357 0.00052	11.00 0.99922 0.00051	10.70 0.99622 0.00054
11.15 0.99761 0.00051	11.05 1.00350 0.00053	10.75 0.99920 0.00054
11.20 1.00042 0.00052	11.10 1.00673 0.00052	10.80 1.00363 0.00053
11.25 1.00462 0.00051	11.15 1.00955 0.00051	10.85 1.00791 0.00053
11.30 1.00848 0.00052	11.20 1.01381 0.00052	10.90 1.01148 0.00053
11.35 1.01167 0.00051	11.25 1.01750 0.00052	10.95 1.01530 0.00053
11.40 1.01419 0.00052	11.30 1.02115 0.00050	11.00 1.01921 0.00053
11.45 1.02010 0.00051		
11.50 1.02152 0.00052		

235	250	353
9.70 0.92344 0.00052	9.60 0.91663 0.00052	9.60 0.92036 0.00053
9.75 0.92786 0.00053	9.65 0.92014 0.00052	9.65 0.92382 0.00052
9.80 0.93073 0.00053	9.70 0.92446 0.00052	9.70 0.92869 0.00054
9.85 0.93575 0.00052	9.75 0.92893 0.00054	9.75 0.93344 0.00052
9.90 0.94031 0.00053	9.80 0.93259 0.00054	9.80 0.93684 0.00053
9.95 0.94416 0.00053	9.85 0.93738 0.00053	9.85 0.94139 0.00053
10.00 0.94813 0.00055	9.90 0.94218 0.00052	9.90 0.94508 0.00054
10.05 0.95289 0.00053	9.95 0.94584 0.00054	9.95 0.94848 0.00053
10.10 0.95660 0.00052	10.00 0.95032 0.00053	10.00 0.95296 0.00054
10.15 0.96092 0.00051	10.05 0.95494 0.00052	10.05 0.95784 0.00053
10.20 0.96470 0.00053	10.10 0.95743 0.00053	10.10 0.96128 0.00054
10.25 0.96889 0.00053	10.15 0.96261 0.00054	10.15 0.96466 0.00053
10.30 0.97178 0.00054	10.20 0.96452 0.00054	10.20 0.96888 0.00052
10.35 0.97703 0.00054	10.25 0.97086 0.00054	10.25 0.97345 0.00054
10.40 0.98113 0.00053	10.30 0.97484 0.00053	10.30 0.97709 0.00053
10.45 0.98407 0.00053	10.35 0.97753 0.00054	10.35 0.98034 0.00054
10.50 0.98811 0.00054	10.40 0.98075 0.00053	10.40 0.98525 0.00053
10.55 0.99195 0.00053	10.45 0.98625 0.00053	10.45 0.98916 0.00053
10.60 0.99604 0.00054	10.50 0.98962 0.00054	10.50 0.99264 0.00052
10.65 0.99968 0.00054	10.55 0.99326 0.00055	10.55 0.99679 0.00055
10.70 1.00217 0.00051	10.60 0.99725 0.00054	10.60 1.00180 0.00054
10.75 1.00705 0.00054	10.65 1.00093 0.00054	10.65 1.00374 0.00054
10.80 1.01041 0.00052	10.70 1.00531 0.00053	10.70 1.00795 0.00053
10.85 1.01511 0.00053	10.75 1.00923 0.00053	10.75 1.01070 0.00053
10.90 1.01773 0.00054	10.80 1.01216 0.00053	10.80 1.01498 0.00053
10.95 1.02169 0.00052	10.85 1.01656 0.00052	10.85 1.01756 0.00052
11.00 1.02624 0.00053	10.90 1.02031 0.00055	10.90 1.02156 0.00054

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470	500	600
9.70 0.92309 0.00055	9.80 0.92752 0.00053	9.80 0.91612 0.00052
9.75 0.92686 0.00052	9.85 0.93118 0.00053	9.85 0.92001 0.00052
9.80 0.93079 0.00053	9.90 0.93509 0.00053	9.90 0.92452 0.00052
9.85 0.93553 0.00055	9.95 0.93873 0.00052	9.95 0.92698 0.00052
9.90 0.93929 0.00053	10.00 0.94290 0.00052	10.00 0.93189 0.00052
9.95 0.94259 0.00053	10.05 0.94749 0.00053	10.05 0.93556 0.00051
10.00 0.94652 0.00053	10.10 0.95154 0.00053	10.10 0.94008 0.00051
10.05 0.95122 0.00055	10.15 0.95468 0.00053	10.15 0.94323 0.00052
10.10 0.95416 0.00052	10.20 0.95737 0.00053	10.20 0.94755 0.00053
10.15 0.95816 0.00053	10.25 0.96231 0.00052	10.25 0.95061 0.00053
10.20 0.96199 0.00052	10.30 0.96560 0.00053	10.30 0.95585 0.00054
10.25 0.96676 0.00054	10.35 0.96900 0.00054	10.35 0.95837 0.00053
10.30 0.97043 0.00054	10.40 0.97363 0.00054	10.40 0.96296 0.00053
10.35 0.97370 0.00053	10.45 0.97785 0.00053	10.45 0.96628 0.00053
10.40 0.97860 0.00052	10.50 0.98152 0.00054	10.50 0.97121 0.00054
10.45 0.98145 0.00055	10.55 0.98538 0.00054	10.55 0.97333 0.00053
10.50 0.98500 0.00052	10.60 0.98869 0.00054	10.60 0.97775 0.00053
10.55 0.98937 0.00052	10.65 0.99261 0.00053	10.65 0.98106 0.00053
10.60 0.99362 0.00053	10.70 0.99674 0.00054	10.70 0.98507 0.00054
10.65 0.99682 0.00053	10.75 1.00016 0.00054	10.75 0.98864 0.00053
10.70 1.00109 0.00055	10.80 1.00362 0.00054	10.80 0.99216 0.00053
10.75 1.00369 0.00053	10.85 1.00773 0.00053	10.85 0.99605 0.00054
10.80 1.00789 0.00054	10.90 1.01013 0.00052	10.90 0.99980 0.00053
10.85 1.01119 0.00054	10.95 1.01538 0.00054	10.95 1.00229 0.00052
10.90 1.01603 0.00056	11.00 1.01752 0.00054	11.00 1.00651 0.00053
10.95 1.01930 0.00054	11.05 1.02091 0.00054	11.05 1.00958 0.00052
11.00 1.02218 0.00053	11.10 1.02458 0.00053	11.10 1.01380 0.00053
		11.15 1.01687 0.00055
		11.20 1.02013 0.00054

605	610	615
9.80 0.91670 0.00053	9.80 0.91580 0.00052	9.90 0.92203 0.00051
9.85 0.92064 0.00054	9.85 0.91919 0.00052	9.95 0.92443 0.00054
9.90 0.92352 0.00052	9.90 0.92353 0.00054	10.00 0.93007 0.00053
9.95 0.92752 0.00052	9.95 0.92674 0.00053	10.05 0.93351 0.00054
10.00 0.93153 0.00051	10.00 0.93186 0.00053	10.10 0.93670 0.00053
10.05 0.93640 0.00053	10.05 0.93510 0.00052	10.15 0.94160 0.00052
10.10 0.93902 0.00052	10.10 0.93853 0.00053	10.20 0.94564 0.00053
10.15 0.94351 0.00052	10.15 0.94283 0.00052	10.25 0.94892 0.00053
10.20 0.94740 0.00051	10.20 0.94655 0.00055	10.30 0.95249 0.00052
10.25 0.95097 0.00053	10.25 0.95041 0.00053	10.35 0.95705 0.00053
10.30 0.95429 0.00053	10.30 0.95370 0.00051	10.40 0.96126 0.00054
10.35 0.95822 0.00053	10.35 0.95794 0.00053	10.45 0.96387 0.00054
10.40 0.96198 0.00052	10.40 0.96237 0.00053	10.50 0.96821 0.00053
10.45 0.96569 0.00054	10.45 0.96561 0.00052	10.55 0.97198 0.00051
10.50 0.97030 0.00052	10.50 0.96861 0.00052	10.60 0.97441 0.00053
10.55 0.97340 0.00051	10.55 0.97299 0.00054	10.65 0.97863 0.00054
10.60 0.97728 0.00053	10.60 0.97675 0.00052	10.70 0.98270 0.00053

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10.65 0.98055 0.00053	10.65 0.98071 0.00052	10.75 0.98605 0.00053
10.70 0.98481 0.00053	10.70 0.98411 0.00053	10.80 0.98884 0.00052
10.75 0.98766 0.00053	10.75 0.98682 0.00051	10.85 0.99290 0.00054
10.80 0.99148 0.00053	10.80 0.99065 0.00052	10.90 0.99711 0.00052
10.85 0.99559 0.00053	10.85 0.99490 0.00052	10.95 1.00003 0.00053
10.90 0.99818 0.00052	10.90 0.99723 0.00055	11.00 1.00518 0.00054
10.95 1.00311 0.00052	10.95 1.00258 0.00054	11.05 1.00700 0.00053
11.00 1.00540 0.00053	11.00 1.00561 0.00053	11.10 1.01116 0.00052
11.05 1.00932 0.00053	11.05 1.00915 0.00054	11.15 1.01363 0.00052
11.10 1.01369 0.00052	11.10 1.01261 0.00054	11.20 1.01710 0.00052
11.15 1.01667 0.00054	11.15 1.01554 0.00054	11.25 1.02087 0.00054
11.20 1.01890 0.00051	11.20 1.01919 0.00052	11.30 1.02450 0.00054
	11.25 1.02338 0.00053	
	11.30 1.02549 0.00051	

620	625	629
9.90 0.92080 0.00050	9.90 0.92098 0.00053	9.90 0.92059 0.00052
9.95 0.92508 0.00054	9.95 0.92493 0.00052	9.95 0.92441 0.00053
10.00 0.92859 0.00050	10.00 0.92918 0.00053	10.00 0.92873 0.00052
10.05 0.93349 0.00054	10.05 0.93299 0.00054	10.05 0.93200 0.00053
10.10 0.93674 0.00052	10.10 0.93656 0.00053	10.10 0.93600 0.00053
10.15 0.94148 0.00052	10.15 0.94003 0.00054	10.15 0.93922 0.00052
10.20 0.94532 0.00052	10.20 0.94440 0.00053	10.20 0.94331 0.00053
10.25 0.94894 0.00051	10.25 0.94868 0.00053	10.25 0.94706 0.00053
10.30 0.95289 0.00052	10.30 0.95307 0.00052	10.30 0.95152 0.00053
10.35 0.95650 0.00054	10.35 0.95520 0.00053	10.35 0.95486 0.00054
10.40 0.96029 0.00053	10.40 0.95943 0.00051	10.40 0.95905 0.00053
10.45 0.96312 0.00054	10.45 0.96276 0.00052	10.45 0.96215 0.00054
10.50 0.96708 0.00053	10.50 0.96687 0.00051	10.50 0.96576 0.00052
10.55 0.97185 0.00054	10.55 0.97063 0.00052	10.55 0.97016 0.00052
10.60 0.97467 0.00052	10.60 0.97531 0.00053	10.60 0.97361 0.00053
10.65 0.97888 0.00053	10.65 0.97744 0.00051	10.65 0.97766 0.00054
10.70 0.98201 0.00054	10.70 0.98226 0.00052	10.70 0.98134 0.00052
10.75 0.98566 0.00052	10.75 0.98503 0.00054	10.75 0.98518 0.00052
10.80 0.98992 0.00052	10.80 0.98874 0.00052	10.80 0.98857 0.00053
10.85 0.99386 0.00053	10.85 0.99255 0.00053	10.85 0.99172 0.00053
10.90 0.99780 0.00054	10.90 0.99582 0.00053	10.90 0.99473 0.00053
10.95 1.00007 0.00055	10.95 0.99892 0.00052	10.95 0.99811 0.00054
11.00 1.00384 0.00054	11.00 1.00299 0.00053	11.00 1.00227 0.00052
11.05 1.00644 0.00054	11.05 1.00657 0.00056	11.05 1.00577 0.00054
11.10 1.01160 0.00053	11.10 1.00990 0.00052	11.10 1.00857 0.00054
11.15 1.01468 0.00053	11.15 1.01301 0.00054	11.15 1.01298 0.00052
11.20 1.01801 0.00053	11.20 1.01741 0.00052	11.20 1.01626 0.00054
11.25 1.02055 0.00053	11.25 1.01989 0.00052	11.25 1.01936 0.00053
11.30 1.02409 0.00054	11.30 1.02374 0.00053	11.30 1.02247 0.00053

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12	15	20
69.90 0.92650 0.00014	30.10 0.92854 0.00022	19.70 0.92351 0.00028
72.40 0.92824 0.00014	31.10 0.93527 0.00022	20.00 0.93043 0.00029
74.90 0.93029 0.00014	32.10 0.94127 0.00022	20.30 0.93558 0.00029
77.40 0.93127 0.00014	33.10 0.94763 0.00021	20.60 0.94109 0.00029
79.90 0.93319 0.00013	34.10 0.95352 0.00021	20.90 0.94702 0.00029
82.40 0.93417 0.00014	35.10 0.95894 0.00021	21.20 0.95140 0.00028
84.90 0.93567 0.00013	36.10 0.96345 0.00020	21.50 0.95671 0.00028
87.40 0.93665 0.00013	37.10 0.96782 0.00021	21.80 0.96146 0.00028
89.90 0.93769 0.00012	38.10 0.97297 0.00020	22.10 0.96578 0.00028
92.40 0.93890 0.00012	39.10 0.97738 0.00019	22.40 0.97057 0.00028
94.90 0.93992 0.00012	40.10 0.98059 0.00020	22.70 0.97490 0.00028
97.40 0.94088 0.00012	41.10 0.98435 0.00019	23.00 0.97998 0.00028
99.90 0.94198 0.00012	42.10 0.98792 0.00020	23.30 0.98461 0.00027
102.40 0.94215 0.00012	43.10 0.99095 0.00019	23.60 0.98777 0.00028
104.90 0.94268 0.00012	44.10 0.99448 0.00019	23.90 0.99199 0.00028
107.40 0.94374 0.00012	45.10 0.99729 0.00019	24.20 0.99523 0.00027
109.90 0.94400 0.00012	46.10 1.00070 0.00019	24.50 1.00010 0.00027
112.40 0.94498 0.00012	47.10 1.00203 0.00018	24.80 1.00329 0.00026
114.90 0.94552 0.00011	48.10 1.00497 0.00018	25.10 1.00758 0.00026
117.40 0.94592 0.00012	49.10 1.00686 0.00017	25.40 1.01130 0.00026
119.90 0.94679 0.00012	50.10 1.00860 0.00018	
	50.90 1.01113 0.00018	

25	30	32
16.20 0.92428 0.00032	14.30 0.92149 0.00036	13.80 0.92226 0.00036
16.30 0.92660 0.00032	14.40 0.92592 0.00035	13.90 0.92670 0.00036
16.40 0.92941 0.00034	14.50 0.92980 0.00036	14.00 0.93033 0.00036
16.50 0.93203 0.00033	14.60 0.93219 0.00036	14.10 0.93495 0.00036
16.60 0.93573 0.00033	14.70 0.93659 0.00035	14.20 0.93798 0.00036
16.70 0.93775 0.00034	14.80 0.93982 0.00036	14.30 0.94220 0.00036
16.80 0.94131 0.00031	14.90 0.94345 0.00035	14.40 0.94603 0.00036
16.90 0.94350 0.00032	15.00 0.94730 0.00035	14.50 0.95020 0.00036
17.00 0.94651 0.00033	15.10 0.94995 0.00034	14.60 0.95343 0.00036
17.10 0.94977 0.00033	15.20 0.95468 0.00035	14.70 0.95769 0.00036
17.20 0.95183 0.00032	15.30 0.95685 0.00035	14.80 0.96131 0.00037
17.30 0.95415 0.00033	15.40 0.95983 0.00035	14.90 0.96449 0.00036
17.40 0.95754 0.00033	15.50 0.96381 0.00035	15.00 0.96821 0.00036
17.50 0.95956 0.00032	15.60 0.96752 0.00036	15.10 0.97141 0.00036
17.60 0.96178 0.00032	15.70 0.97084 0.00035	15.20 0.97586 0.00036
17.70 0.96443 0.00032	15.80 0.97400 0.00035	15.30 0.97862 0.00035
17.80 0.96707 0.00032	15.90 0.97666 0.00035	15.40 0.98270 0.00035
17.90 0.96986 0.00032	16.00 0.98047 0.00036	15.50 0.98543 0.00037
18.00 0.97239 0.00032	16.10 0.98332 0.00035	15.60 0.98845 0.00036
18.10 0.97434 0.00031	16.20 0.98622 0.00036	15.70 0.99251 0.00036
18.20 0.97741 0.00031	16.30 0.99011 0.00034	15.80 0.99513 0.00035
18.30 0.97926 0.00032	16.40 0.99187 0.00034	15.90 0.99898 0.00035

18.40 0.98165 0.00032	16.50 0.99579 0.00035	16.00 1.00228 0.00036
18.50 0.98473 0.00031	16.60 0.99837 0.00035	16.10 1.00503 0.00036
18.60 0.98638 0.00032	16.70 1.00151 0.00034	16.20 1.00818 0.00035
18.70 0.98818 0.00032	16.80 1.00385 0.00034	16.30 1.01235 0.00034
18.80 0.99119 0.00032	16.90 1.00731 0.00034	16.40 1.01507 0.00034
18.90 0.99323 0.00032	17.00 1.01007 0.00035	16.50 1.01732 0.00035
19.00 0.99541 0.00032	17.10 1.01314 0.00034	
19.10 0.99758 0.00033	17.20 1.01612 0.00034	
19.20 1.00032 0.00032		
19.30 1.00185 0.00030		
19.40 1.00421 0.00033		
19.50 1.00648 0.00032		
19.60 1.00839 0.00031		
19.70 1.01028 0.00031		
19.80 1.01315 0.00031		
19.90 1.01487 0.00031		

35	40	50
13.10 0.92129 0.00036	12.30 0.92066 0.00038	11.30 0.92243 0.00041
13.20 0.92429 0.00037	12.40 0.92508 0.00038	11.40 0.92841 0.00040
13.30 0.92877 0.00038	12.50 0.93100 0.00039	11.50 0.93398 0.00042
13.40 0.93370 0.00037	12.60 0.93525 0.00040	11.60 0.93949 0.00041
13.50 0.93774 0.00038	12.70 0.93966 0.00038	11.70 0.94620 0.00042
13.60 0.94207 0.00037	12.80 0.94441 0.00039	11.80 0.95161 0.00042
13.70 0.94546 0.00036	12.90 0.94920 0.00038	11.90 0.95701 0.00042
13.80 0.95067 0.00037	13.00 0.95406 0.00038	12.00 0.96213 0.00041
13.90 0.95389 0.00037	13.10 0.95841 0.00040	12.10 0.96751 0.00041
14.00 0.95847 0.00039	13.20 0.96332 0.00038	12.20 0.97308 0.00040
14.10 0.96216 0.00037	13.30 0.96765 0.00039	12.30 0.97696 0.00041
14.20 0.96636 0.00038	13.40 0.97189 0.00038	12.40 0.98301 0.00041
14.30 0.96930 0.00037	13.50 0.97573 0.00039	12.50 0.98811 0.00040
14.40 0.97396 0.00037	13.60 0.98106 0.00038	12.60 0.99216 0.00041
14.50 0.97760 0.00037	13.70 0.98435 0.00039	12.70 0.99780 0.00042
14.60 0.98131 0.00037	13.80 0.98937 0.00039	12.80 1.00329 0.00041
14.70 0.98530 0.00037	13.90 0.99337 0.00040	12.90 1.00755 0.00040
14.80 0.98820 0.00038	14.00 0.99766 0.00039	13.00 1.01281 0.00041
14.90 0.99261 0.00038	14.10 1.00158 0.00038	13.10 1.01712 0.00041
15.00 0.99616 0.00038	14.20 1.00542 0.00039	
15.10 0.99939 0.00037	14.30 1.00977 0.00038	
15.20 1.00375 0.00036	14.40 1.01353 0.00038	
15.30 1.00645 0.00038	14.50 1.01806 0.00039	
15.40 1.00997 0.00036		
15.50 1.01345 0.00037		
15.60 1.01696 0.00035		

60	70	80
10.60 0.92067 0.00043	10.10 0.91807 0.00045	9.80 0.92098 0.00045
10.65 0.92366 0.00043	10.15 0.92099 0.00045	9.85 0.92312 0.00045
10.70 0.92801 0.00043	10.20 0.92444 0.00044	9.90 0.92734 0.00045
10.75 0.93116 0.00044	10.25 0.92839 0.00044	9.95 0.93132 0.00045
10.80 0.93440 0.00043	10.30 0.93159 0.00042	10.00 0.93471 0.00045
10.85 0.93821 0.00042	10.35 0.93510 0.00043	10.05 0.93826 0.00044
10.90 0.94060 0.00043	10.40 0.93817 0.00043	10.10 0.94179 0.00045
10.95 0.94287 0.00042	10.45 0.94143 0.00044	10.15 0.94644 0.00046
11.00 0.94593 0.00041	10.50 0.94455 0.00045	10.20 0.94898 0.00045
11.05 0.94909 0.00042	10.55 0.94827 0.00044	10.25 0.95283 0.00045
11.10 0.95187 0.00043	10.60 0.95182 0.00043	10.30 0.95566 0.00044
11.15 0.95544 0.00043	10.65 0.95405 0.00044	10.35 0.95921 0.00045
11.20 0.95784 0.00042	10.70 0.95812 0.00043	10.40 0.96292 0.00044
11.25 0.96118 0.00044	10.75 0.96088 0.00043	10.45 0.96530 0.00046
11.30 0.96381 0.00042	10.80 0.96504 0.00043	10.50 0.96941 0.00045
11.35 0.96790 0.00042	10.85 0.96715 0.00044	10.55 0.97245 0.00045
11.40 0.97006 0.00043	10.90 0.97103 0.00044	10.60 0.97616 0.00046
11.45 0.97287 0.00042	10.95 0.97429 0.00044	10.65 0.97901 0.00045
11.50 0.97677 0.00042	11.00 0.97639 0.00044	10.70 0.98312 0.00044
11.55 0.97870 0.00043	11.05 0.98011 0.00044	10.75 0.98628 0.00045
11.60 0.98183 0.00043	11.10 0.98454 0.00045	10.80 0.98871 0.00045
11.65 0.98434 0.00042	11.15 0.98690 0.00045	10.85 0.99207 0.00045
11.70 0.98654 0.00043	11.20 0.98988 0.00043	10.90 0.99470 0.00046
11.75 0.98976 0.00043	11.25 0.99238 0.00044	10.95 0.99918 0.00045
11.80 0.99312 0.00043	11.30 0.99534 0.00043	11.00 1.00162 0.00045
11.85 0.99617 0.00042	11.35 0.99883 0.00046	11.05 1.00470 0.00045
11.90 0.99867 0.00042	11.40 1.00119 0.00044	11.10 1.00856 0.00045
11.95 1.00102 0.00042	11.45 1.00365 0.00044	11.15 1.01113 0.00045
12.00 1.00432 0.00043	11.50 1.00725 0.00044	11.20 1.01403 0.00044
12.05 1.00673 0.00042	11.55 1.01076 0.00044	11.25 1.01736 0.00045
12.10 1.00944 0.00043	11.60 1.01331 0.00044	11.30 1.02009 0.00044
12.15 1.01160 0.00043	11.65 1.01571 0.00045	
12.20 1.01410 0.00042	11.70 1.01826 0.00045	
12.25 1.01724 0.00044		
12.30 1.01982 0.00043		

90	100	118
9.50 0.91689 0.00046	9.30 0.91716 0.00046	9.00 0.91381 0.00047
9.55 0.92101 0.00044	9.35 0.92046 0.00046	9.05 0.91806 0.00046
9.60 0.92469 0.00046	9.40 0.92441 0.00046	9.10 0.92236 0.00046
9.65 0.92862 0.00045	9.45 0.92813 0.00046	9.15 0.92630 0.00045
9.70 0.93164 0.00046	9.50 0.93331 0.00047	9.20 0.93041 0.00046
9.75 0.93622 0.00045	9.55 0.93603 0.00047	9.25 0.93443 0.00046
9.80 0.93823 0.00045	9.60 0.94049 0.00047	9.30 0.93804 0.00047
9.85 0.94367 0.00047	9.65 0.94445 0.00046	9.35 0.94180 0.00047
9.90 0.94730 0.00046	9.70 0.94726 0.00046	9.40 0.94582 0.00047
9.95 0.94981 0.00045	9.75 0.95001 0.00046	9.45 0.95022 0.00048
10.00 0.95446 0.00046	9.80 0.95415 0.00045	9.50 0.95408 0.00046

10.05 0.95682 0.00045	9.85 0.95815 0.00045	9.55 0.95720 0.00048
10.10 0.96050 0.00047	9.90 0.96178 0.00046	9.60 0.96085 0.00047
10.15 0.96491 0.00046	9.95 0.96509 0.00047	9.65 0.96582 0.00046
10.20 0.96763 0.00046	10.00 0.96973 0.00046	9.70 0.96948 0.00047
10.25 0.97076 0.00045	10.05 0.97217 0.00046	9.75 0.97259 0.00047
10.30 0.97384 0.00044	10.10 0.97658 0.00046	9.80 0.97704 0.00046
10.35 0.97892 0.00046	10.15 0.97934 0.00046	9.85 0.97938 0.00048
10.40 0.98119 0.00045	10.20 0.98309 0.00045	9.90 0.98313 0.00046
10.45 0.98528 0.00047	10.25 0.98601 0.00046	9.95 0.98756 0.00047
10.50 0.98850 0.00047	10.30 0.99073 0.00046	10.00 0.99241 0.00047
10.55 0.99254 0.00047	10.35 0.99374 0.00046	10.05 0.99371 0.00046
10.60 0.99596 0.00046	10.40 0.99710 0.00046	10.10 0.99775 0.00047
10.65 0.99797 0.00046	10.45 1.00065 0.00045	10.15 1.00141 0.00046
10.70 1.00186 0.00045	10.50 1.00440 0.00048	10.20 1.00536 0.00046
10.75 1.00513 0.00046	10.55 1.00801 0.00047	10.25 1.00886 0.00046
10.80 1.00836 0.00047	10.60 1.01016 0.00046	10.30 1.01251 0.00047
10.85 1.01144 0.00046	10.65 1.01405 0.00047	10.35 1.01586 0.00047
10.90 1.01490 0.00045	10.70 1.01809 0.00047	10.40 1.01895 0.00047
10.95 1.01779 0.00047		
11.00 1.01935 0.00046		

130	150	200
8.90 0.91744 0.00049	8.70 0.91489 0.00046	8.50 0.92049 0.00047
8.95 0.92201 0.00047	8.75 0.91843 0.00048	8.55 0.92484 0.00048
9.00 0.92607 0.00047	8.80 0.92256 0.00048	8.60 0.93054 0.00048
9.05 0.92885 0.00048	8.85 0.92843 0.00047	8.65 0.93355 0.00047
9.10 0.93350 0.00047	8.90 0.93171 0.00048	8.70 0.93835 0.00049
9.15 0.93806 0.00046	8.95 0.93595 0.00049	8.75 0.94152 0.00048
9.20 0.94256 0.00048	9.00 0.93925 0.00048	8.80 0.94604 0.00049
9.25 0.94643 0.00048	9.05 0.94424 0.00048	8.85 0.95066 0.00049
9.30 0.95018 0.00047	9.10 0.94863 0.00048	8.90 0.95475 0.00049
9.35 0.95377 0.00047	9.15 0.95251 0.00048	8.95 0.95827 0.00049
9.40 0.95748 0.00045	9.20 0.95705 0.00047	9.00 0.96275 0.00049
9.45 0.96034 0.00047	9.25 0.96066 0.00049	9.05 0.96711 0.00050
9.50 0.96587 0.00048	9.30 0.96407 0.00049	9.10 0.97027 0.00047
9.55 0.96999 0.00047	9.35 0.96852 0.00048	9.15 0.97538 0.00048
9.60 0.97306 0.00047	9.40 0.97188 0.00048	9.20 0.97897 0.00050
9.65 0.97634 0.00048	9.45 0.97590 0.00048	9.25 0.98340 0.00050
9.70 0.98066 0.00046	9.50 0.98025 0.00048	9.30 0.98724 0.00050
9.75 0.98492 0.00047	9.55 0.98292 0.00047	9.35 0.99043 0.00049
9.80 0.98794 0.00047	9.60 0.98712 0.00048	9.40 0.99480 0.00048
9.85 0.99225 0.00047	9.65 0.99103 0.00049	9.45 0.99813 0.00050
9.90 0.99590 0.00048	9.70 0.99407 0.00050	9.50 1.00222 0.00049
9.95 0.99789 0.00048	9.75 0.99917 0.00047	9.55 1.00699 0.00050
10.00 1.00250 0.00047	9.80 1.00233 0.00049	9.60 1.00987 0.00050
10.05 1.00618 0.00048	9.85 1.00533 0.00047	9.65 1.01390 0.00050
10.10 1.01018 0.00047	9.90 1.00958 0.00049	9.70 1.01751 0.00049
10.15 1.01279 0.00047	9.95 1.01380 0.00049	9.75 1.02196 0.00049
10.20 1.01707 0.00047	10.00 1.01634 0.00047	9.80 1.02483 0.00049
10.25 1.02145 0.00047	10.05 1.02205 0.00050	
10.30 1.02441 0.00047	10.10 1.02425 0.00049	

235	250	353
8.40 0.92038 0.00049	8.30 0.91552 0.00048	8.20 0.91431 0.00049
8.45 0.92646 0.00048	8.35 0.91946 0.00049	8.25 0.92028 0.00050
8.50 0.92965 0.00048	8.40 0.92374 0.00048	8.30 0.92302 0.00048
8.55 0.93428 0.00048	8.45 0.92863 0.00049	8.35 0.92830 0.00049
8.60 0.93749 0.00047	8.50 0.93246 0.00050	8.40 0.93250 0.00049
8.65 0.94231 0.00049	8.55 0.93674 0.00049	8.45 0.93657 0.00049
8.70 0.94565 0.00049	8.60 0.94087 0.00049	8.50 0.94133 0.00049
8.75 0.95104 0.00048	8.65 0.94554 0.00049	8.55 0.94614 0.00048
8.80 0.95574 0.00048	8.70 0.95000 0.00049	8.60 0.94899 0.00050
8.85 0.95995 0.00048	8.75 0.95419 0.00051	8.65 0.95344 0.00049
8.90 0.96380 0.00049	8.80 0.95884 0.00048	8.70 0.95683 0.00049
8.95 0.96785 0.00049	8.85 0.96213 0.00050	8.75 0.96150 0.00050
9.00 0.97190 0.00050	8.90 0.96548 0.00050	8.80 0.96559 0.00049
9.05 0.97565 0.00049	8.95 0.97064 0.00051	8.85 0.96946 0.00049
9.10 0.97977 0.00048	9.00 0.97368 0.00049	8.90 0.97422 0.00050
9.15 0.98396 0.00049	9.05 0.97923 0.00050	8.95 0.97871 0.00050
9.20 0.98719 0.00048	9.10 0.98216 0.00048	9.00 0.98169 0.00049
9.25 0.99237 0.00051	9.15 0.98599 0.00049	9.05 0.98678 0.00050
9.30 0.99543 0.00049	9.20 0.99069 0.00049	9.10 0.99011 0.00050
9.35 0.99980 0.00049	9.25 0.99396 0.00049	9.15 0.99404 0.00048
9.40 1.00286 0.00049	9.30 0.99779 0.00050	9.20 0.99781 0.00049
9.45 1.00816 0.00049	9.35 1.00268 0.00048	9.25 1.00168 0.00049
9.50 1.01107 0.00050	9.40 1.00670 0.00050	9.30 1.00579 0.00050
9.55 1.01447 0.00048	9.45 1.01029 0.00048	9.35 1.01065 0.00049
9.60 1.01882 0.00049	9.50 1.01345 0.00049	9.40 1.01376 0.00050
9.65 1.02203 0.00048	9.55 1.01824 0.00049	9.45 1.01809 0.00050
9.70 1.02611 0.00049	9.60 1.02146 0.00049	9.50 1.02085 0.00050

470	500	600
8.30 0.92282 0.00051	8.30 0.92021 0.00048	8.40 0.92174 0.00048
8.35 0.92626 0.00049	8.35 0.92483 0.00049	8.45 0.92633 0.00051
8.40 0.93197 0.00048	8.40 0.92846 0.00050	8.50 0.93029 0.00047
8.45 0.93554 0.00049	8.45 0.93302 0.00050	8.55 0.93509 0.00048
8.50 0.93965 0.00050	8.50 0.93709 0.00049	8.60 0.93801 0.00048
8.55 0.94473 0.00050	8.55 0.94129 0.00052	8.65 0.94160 0.00049
8.60 0.94792 0.00049	8.60 0.94627 0.00048	8.70 0.94583 0.00050
8.65 0.95201 0.00050	8.65 0.94958 0.00050	8.75 0.95025 0.00049
8.70 0.95626 0.00048	8.70 0.95427 0.00048	8.80 0.95457 0.00050
8.75 0.95894 0.00050	8.75 0.95654 0.00049	8.85 0.95857 0.00049
8.80 0.96373 0.00049	8.80 0.96178 0.00049	8.90 0.96157 0.00050
8.85 0.96738 0.00049	8.85 0.96610 0.00050	8.95 0.96590 0.00050
8.90 0.97104 0.00049	8.90 0.96941 0.00050	9.00 0.96996 0.00048
8.95 0.97691 0.00051	8.95 0.97364 0.00049	9.05 0.97319 0.00050
9.00 0.97968 0.00048	9.00 0.97779 0.00050	9.10 0.97738 0.00049
9.05 0.98378 0.00048	9.05 0.98082 0.00049	9.15 0.98076 0.00049
9.10 0.98672 0.00051	9.10 0.98504 0.00050	9.20 0.98470 0.00050
9.15 0.99124 0.00049	9.15 0.98932 0.00048	9.25 0.98899 0.00048
9.20 0.99683 0.00048	9.20 0.99299 0.00049	9.30 0.99117 0.00049

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9.25 0.99944 0.00048	9.25 0.99653 0.00047	9.35 0.99615 0.00048
9.30 1.00257 0.00048	9.30 1.00081 0.00049	9.40 0.99840 0.00050
9.35 1.00708 0.00049	9.35 1.00395 0.00049	9.45 1.00284 0.00050
9.40 1.01072 0.00050	9.40 1.00744 0.00048	9.50 1.00697 0.00049
9.45 1.01519 0.00049	9.45 1.01224 0.00049	9.55 1.01004 0.00049
9.50 1.01892 0.00049	9.50 1.01526 0.00051	9.60 1.01418 0.00050
	9.55 1.01896 0.00049	9.65 1.01758 0.00047
	9.60 1.02239 0.00049	9.70 1.02098 0.00050

605	610	615
8.40 0.92150 0.00049	8.30 0.91305 0.00048	8.40 0.92121 0.00050
8.45 0.92596 0.00049	8.35 0.91702 0.00049	8.45 0.92465 0.00047
8.50 0.93098 0.00049	8.40 0.92154 0.00048	8.50 0.92832 0.00050
8.55 0.93399 0.00049	8.45 0.92499 0.00049	8.55 0.93309 0.00047
8.60 0.93795 0.00049	8.50 0.92970 0.00048	8.60 0.93594 0.00049
8.65 0.94207 0.00047	8.55 0.93380 0.00048	8.65 0.94034 0.00049
8.70 0.94630 0.00049	8.60 0.93801 0.00049	8.70 0.94464 0.00048
8.75 0.94968 0.00049	8.65 0.94221 0.00049	8.75 0.94943 0.00049
8.80 0.95378 0.00050	8.70 0.94554 0.00049	8.80 0.95254 0.00049
8.85 0.95695 0.00050	8.75 0.94962 0.00049	8.85 0.95670 0.00049
8.90 0.96131 0.00048	8.80 0.95389 0.00049	8.90 0.95971 0.00050
8.95 0.96535 0.00050	8.85 0.95782 0.00050	8.95 0.96410 0.00050
9.00 0.96868 0.00049	8.90 0.96145 0.00048	9.00 0.96805 0.00049
9.05 0.97407 0.00049	8.95 0.96596 0.00048	9.05 0.97204 0.00049
9.10 0.97719 0.00049	9.00 0.96914 0.00049	9.10 0.97633 0.00048
9.15 0.98117 0.00049	9.05 0.97317 0.00049	9.15 0.98031 0.00049
9.20 0.98478 0.00048	9.10 0.97678 0.00050	9.20 0.98342 0.00049
9.25 0.98739 0.00049	9.15 0.97987 0.00049	9.25 0.98682 0.00050
9.30 0.99135 0.00050	9.20 0.98426 0.00050	9.30 0.99075 0.00050
9.35 0.99487 0.00049	9.25 0.98801 0.00049	9.35 0.99478 0.00048
9.40 0.99999 0.00049	9.30 0.99067 0.00051	9.40 0.99780 0.00048
9.45 1.00255 0.00049	9.35 0.99459 0.00048	9.45 1.00099 0.00049
9.50 1.00663 0.00050	9.40 0.99911 0.00049	9.50 1.00589 0.00049
9.55 1.00960 0.00050	9.45 1.00195 0.00048	9.55 1.00958 0.00048
9.60 1.01398 0.00049	9.50 1.00652 0.00048	9.60 1.01283 0.00049
9.65 1.01730 0.00050	9.55 1.01005 0.00047	9.65 1.01584 0.00049
9.70 1.02217 0.00049	9.60 1.01316 0.00049	9.70 1.02021 0.00049
	9.65 1.01704 0.00050	
	9.70 1.02052 0.00050	

620	625	629
8.40 0.92119 0.00047	8.40 0.92013 0.00048	8.40 0.91884 0.00049
8.45 0.92508 0.00048	8.45 0.92418 0.00050	8.45 0.92337 0.00048
8.50 0.92901 0.00047	8.50 0.92792 0.00049	8.50 0.92695 0.00050
8.55 0.93210 0.00048	8.55 0.93148 0.00049	8.55 0.93200 0.00048
8.60 0.93669 0.00049	8.60 0.93576 0.00048	8.60 0.93627 0.00049
8.65 0.94037 0.00049	8.65 0.94025 0.00049	8.65 0.93822 0.00049

8.70 0.94432 0.00048	8.70 0.94464 0.00048	8.80 0.95154 0.00048
8.75 0.94819 0.00048	8.75 0.94942 0.00050	8.85 0.95482 0.00047
8.80 0.95234 0.00049	8.80 0.95266 0.00050	8.90 0.95980 0.00049
8.85 0.95674 0.00049	8.85 0.95652 0.00048	8.95 0.96185 0.00048
8.90 0.96026 0.00049	8.90 0.95971 0.00048	9.00 0.96699 0.00048
8.95 0.96330 0.00050	8.95 0.96430 0.00049	9.05 0.97091 0.00049
9.00 0.96785 0.00049	9.00 0.96829 0.00049	9.10 0.97419 0.00048
9.05 0.97161 0.00050	9.05 0.97185 0.00047	9.15 0.97871 0.00050
9.10 0.97542 0.00051	9.10 0.97504 0.00049	9.20 0.98212 0.00049
9.15 0.97922 0.00049	9.15 0.97941 0.00050	9.25 0.98542 0.00048
9.20 0.98331 0.00049	9.20 0.98272 0.00049	9.30 0.98989 0.00050
9.25 0.98641 0.00047	9.25 0.98537 0.00048	9.35 0.99257 0.00049
9.30 0.99000 0.00049	9.30 0.98989 0.00050	9.40 0.99576 0.00049
9.35 0.99326 0.00049	9.35 0.99378 0.00049	9.45 1.00001 0.00049
9.40 0.99726 0.00048	9.40 0.99798 0.00051	9.50 1.00368 0.00051
9.45 1.00202 0.00048	9.45 1.00154 0.00049	9.55 1.00809 0.00049
9.50 1.00575 0.00050	9.50 1.00447 0.00048	9.60 1.01146 0.00050
9.55 1.00889 0.00049	9.55 1.00830 0.00049	9.65 1.01494 0.00051
9.60 1.01117 0.00048	9.60 1.01120 0.00049	9.70 1.01731 0.00049
9.65 1.01560 0.00050	9.65 1.01488 0.00049	
9.70 1.01914 0.00050	9.70 1.01859 0.00050	

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12	15	20
107.10 0.89500 0.00012	41.80 0.92878 0.00021	25.20 0.92607 0.00031
112.10 0.89593 0.00012	42.80 0.93309 0.00021	25.60 0.93170 0.00029
117.10 0.89760 0.00013	43.80 0.93665 0.00020	26.00 0.93702 0.00029
122.10 0.89868 0.00012	44.80 0.93979 0.00021	26.40 0.94312 0.00029
127.10 0.89948 0.00012	45.80 0.94288 0.00020	26.80 0.94756 0.00028
132.10 0.90007 0.00012	46.80 0.94529 0.00020	27.20 0.95317 0.00029
137.10 0.90095 0.00012	47.80 0.94953 0.00020	27.60 0.95804 0.00029
142.10 0.90144 0.00012	48.80 0.95202 0.00019	28.00 0.96302 0.00028
147.10 0.90187 0.00011	49.80 0.95393 0.00019	28.40 0.96724 0.00028
152.10 0.90251 0.00012	50.80 0.95639 0.00019	28.80 0.97235 0.00028
157.10 0.90295 0.00012	51.80 0.95824 0.00018	29.20 0.97652 0.00027
162.10 0.90346 0.00011	52.80 0.96110 0.00018	29.60 0.98030 0.00028
167.10 0.90338 0.00011	53.80 0.96283 0.00018	30.00 0.98407 0.00027
172.10 0.90347 0.00011	54.80 0.96516 0.00018	30.40 0.98817 0.00027
177.10 0.90410 0.00011	55.80 0.96733 0.00018	30.80 0.99177 0.00026
182.10 0.90490 0.00011	56.80 0.96931 0.00017	31.20 0.99515 0.00027
187.10 0.90440 0.00011	57.80 0.97085 0.00018	31.60 0.99990 0.00027
192.10 0.90501 0.00011	58.80 0.97226 0.00017	32.00 1.00266 0.00027
197.10 0.90537 0.00011	59.80 0.97387 0.00018	32.40 1.00611 0.00027
202.10 0.90541 0.00011	60.80 0.97460 0.00017	32.80 1.00947 0.00026
207.10 0.90577 0.00011	61.80 0.97689 0.00017	33.10 1.01113 0.00025
207.60 0.90559 0.00011	62.80 0.97827 0.00017	
	62.90 0.97809 0.00017	

25	30	32
20.50 0.92260 0.00034	18.30 0.92372 0.00038	17.60 0.92103 0.00039
20.70 0.92759 0.00034	18.40 0.92727 0.00038	17.70 0.92502 0.00040
20.90 0.93148 0.00035	18.50 0.93054 0.00038	17.80 0.92843 0.00039
21.10 0.93594 0.00034	18.60 0.93410 0.00037	17.90 0.93072 0.00038
21.30 0.94074 0.00035	18.70 0.93636 0.00038	18.00 0.93561 0.00038
21.50 0.94529 0.00034	18.80 0.93920 0.00036	18.10 0.93740 0.00039
21.70 0.94981 0.00033	19.00 0.94540 0.00038	18.20 0.94131 0.00039
21.90 0.95400 0.00034	19.20 0.95126 0.00037	18.30 0.94430 0.00039
22.10 0.95843 0.00033	19.30 0.95488 0.00037	18.40 0.94855 0.00038
22.30 0.96246 0.00034	19.40 0.95733 0.00037	18.50 0.95120 0.00038
22.50 0.96643 0.00034	19.50 0.95988 0.00037	18.60 0.95428 0.00039
22.70 0.97055 0.00033	19.60 0.96244 0.00037	18.70 0.95784 0.00039
22.90 0.97522 0.00033	19.70 0.96524 0.00036	18.80 0.96052 0.00039
23.10 0.97845 0.00034	19.80 0.96845 0.00036	18.90 0.96398 0.00039
23.30 0.98286 0.00033	19.90 0.97160 0.00037	19.00 0.96716 0.00039
23.50 0.98659 0.00033	20.10 0.97624 0.00036	19.10 0.96934 0.00038
23.70 0.98985 0.00034	20.20 0.97968 0.00037	19.20 0.97227 0.00038
23.90 0.99381 0.00033	20.30 0.98180 0.00037	19.30 0.97632 0.00039
24.10 0.99729 0.00033	20.60 0.98930 0.00037	19.40 0.97781 0.00037
24.30 1.00087 0.00032	20.70 0.99134 0.00037	19.50 0.98127 0.00038
24.50 1.00407 0.00032	20.80 0.99455 0.00037	19.70 0.98756 0.00038
24.70 1.00714 0.00033	20.90 0.99675 0.00037	19.80 0.98992 0.00038
24.90 1.01094 0.00032	21.00 0.99966 0.00037	19.90 0.99248 0.00038
25.10 1.01383 0.00032	21.10 1.00170 0.00036	20.00 0.99551 0.00037
25.20 1.01538 0.00032	21.20 1.00444 0.00037	20.10 0.99838 0.00037
	21.30 1.00712 0.00036	20.20 1.00085 0.00037
	21.40 1.00904 0.00036	20.50 1.00909 0.00038
	21.50 1.01146 0.00036	20.60 1.01154 0.00037
	21.60 1.01342 0.00035	20.70 1.01432 0.00037
	21.70 1.01623 0.00035	20.80 1.01668 0.00036
	21.80 1.01794 0.00035	

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16.90 0.92319 0.00040	15.90 0.92042 0.00042	14.80 0.92498 0.00045
17.00 0.92682 0.00039	16.00 0.92474 0.00043	14.90 0.92918 0.00045
17.10 0.93046 0.00039	16.10 0.92883 0.00042	15.00 0.93503 0.00046
17.20 0.93377 0.00041	16.20 0.93452 0.00043	15.10 0.93998 0.00045
17.30 0.93767 0.00040	16.30 0.93742 0.00042	15.20 0.94527 0.00044
17.40 0.94180 0.00041	16.40 0.94183 0.00041	15.30 0.94967 0.00044
17.50 0.94648 0.00040	16.50 0.94606 0.00042	15.40 0.95429 0.00045
17.70 0.95125 0.00040	16.60 0.94957 0.00042	15.50 0.95961 0.00045
17.80 0.95528 0.00041	16.70 0.95437 0.00042	15.70 0.96936 0.00045
17.90 0.95948 0.00041	16.80 0.95882 0.00041	15.90 0.97876 0.00044
18.00 0.96312 0.00041	16.90 0.96205 0.00041	16.00 0.98271 0.00046
18.10 0.96676 0.00039	17.00 0.96498 0.00042	16.10 0.98755 0.00044
18.20 0.96967 0.00040	17.10 0.96970 0.00042	16.20 0.99170 0.00044

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18.30 0.97348 0.00040	17.20 0.97369 0.00041	16.30 0.99696 0.00045
18.50 0.98036 0.00039	17.30 0.97766 0.00040	16.40 1.00058 0.00042
18.60 0.98239 0.00039	17.40 0.98124 0.00041	16.50 1.00497 0.00044
18.70 0.98598 0.00040	17.50 0.98584 0.00040	16.60 1.00910 0.00045
18.80 0.98920 0.00040	17.60 0.98937 0.00041	16.70 1.01404 0.00044
18.90 0.99208 0.00038	17.70 0.99219 0.00042	16.80 1.01786 0.00045
19.10 0.99848 0.00039	17.80 0.99539 0.00042	
19.30 1.00517 0.00038	17.90 1.00029 0.00041	
19.40 1.00761 0.00038	18.00 1.00343 0.00042	
19.50 1.01057 0.00039	18.10 1.00649 0.00041	
19.60 1.01311 0.00039	18.20 1.01017 0.00042	
19.70 1.01647 0.00039	18.30 1.01340 0.00041	
	18.40 1.01726 0.00042	
	18.50 1.02015 0.00041	

60	70	80
13.90 0.91533 0.00047	13.50 0.92162 0.00050	13.10 0.91843 0.00050
14.00 0.92164 0.00048	13.60 0.92755 0.00049	13.15 0.92178 0.00049
14.10 0.92806 0.00048	13.70 0.93317 0.00049	13.20 0.92375 0.00050
14.20 0.93347 0.00046	13.80 0.93941 0.00048	13.25 0.92883 0.00049
14.30 0.93840 0.00048	13.90 0.94554 0.00048	13.30 0.93188 0.00048
14.40 0.94399 0.00046	14.00 0.95180 0.00049	13.35 0.93506 0.00049
14.50 0.94893 0.00047	14.10 0.95698 0.00048	13.40 0.93829 0.00050
14.60 0.95501 0.00045	14.20 0.96197 0.00048	13.45 0.94029 0.00049
14.70 0.96001 0.00047	14.30 0.96884 0.00048	13.50 0.94406 0.00050
14.80 0.96529 0.00048	14.40 0.97350 0.00047	13.55 0.94697 0.00049
14.90 0.97079 0.00047	14.50 0.98035 0.00048	13.60 0.95057 0.00051
15.00 0.97662 0.00046	14.60 0.98632 0.00047	13.65 0.95334 0.00049
15.10 0.98042 0.00048	14.80 0.99615 0.00050	13.70 0.95748 0.00049
15.20 0.98567 0.00047	14.90 1.00171 0.00050	13.75 0.95957 0.00050
15.30 0.99128 0.00047	15.00 1.00744 0.00049	13.80 0.96204 0.00050
15.40 0.99700 0.00046	15.10 1.01285 0.00048	13.85 0.96564 0.00051
15.50 1.00194 0.00046	15.20 1.01799 0.00049	13.90 0.96856 0.00048
15.60 1.00562 0.00047	15.30 1.02220 0.00049	13.95 0.97180 0.00049
15.70 1.01114 0.00046		14.00 0.97431 0.00050
15.80 1.01624 0.00047		14.05 0.97706 0.00049
15.90 1.01969 0.00045		14.10 0.98126 0.00049
		14.15 0.98365 0.00051
		14.20 0.98682 0.00049
		14.25 0.98984 0.00050
		14.30 0.99249 0.00048
		14.35 0.99495 0.00049
		14.40 0.99818 0.00051
		14.45 1.00201 0.00050
		14.50 1.00363 0.00049
		14.55 1.00629 0.00048
		14.60 1.01026 0.00050
		14.65 1.01186 0.00050
		14.70 1.01548 0.00051
		14.75 1.01738 0.00050
		14.80 1.01994 0.00049

90	100	118
12.80 0.91602 0.00051	12.60 0.91773 0.00050	12.30 0.91423 0.00052
12.85 0.91969 0.00050	12.65 0.92042 0.00052	12.35 0.91855 0.00052
12.90 0.92359 0.00050	12.70 0.92388 0.00053	12.40 0.92146 0.00053
12.95 0.92576 0.00049	12.75 0.92878 0.00050	12.45 0.92527 0.00053
13.00 0.93045 0.00051	12.80 0.93123 0.00051	12.50 0.92924 0.00053
13.05 0.93354 0.00050	12.85 0.93453 0.00051	12.55 0.93211 0.00054
13.10 0.93696 0.00051	12.90 0.93839 0.00052	12.60 0.93528 0.00054
13.15 0.94025 0.00052	12.95 0.94035 0.00050	12.65 0.93983 0.00052
13.20 0.94334 0.00050	13.00 0.94432 0.00051	12.70 0.94261 0.00053
13.25 0.94678 0.00050	13.05 0.94871 0.00052	12.75 0.94658 0.00052
13.30 0.94934 0.00050	13.10 0.95228 0.00051	12.80 0.95116 0.00052
13.35 0.95311 0.00050	13.15 0.95500 0.00051	12.85 0.95295 0.00052
13.40 0.95652 0.00051	13.20 0.95878 0.00050	12.90 0.95704 0.00052
13.45 0.95929 0.00049	13.25 0.96241 0.00052	12.95 0.96071 0.00053
13.50 0.96292 0.00050	13.30 0.96388 0.00051	13.00 0.96392 0.00052
13.55 0.96579 0.00050	13.35 0.96831 0.00052	13.05 0.96771 0.00053
13.65 0.97209 0.00051	13.40 0.97113 0.00053	13.10 0.97030 0.00053
13.75 0.97839 0.00049	13.45 0.97453 0.00052	13.15 0.97488 0.00054
13.80 0.98247 0.00051	13.50 0.97733 0.00051	13.20 0.97745 0.00053
13.85 0.98530 0.00051	13.55 0.98021 0.00051	13.25 0.98133 0.00052
13.90 0.98708 0.00051	13.60 0.98358 0.00052	13.30 0.98423 0.00052
13.95 0.99090 0.00051	13.65 0.98788 0.00050	13.35 0.98738 0.00053
14.00 0.99497 0.00051	13.70 0.99223 0.00052	13.40 0.99104 0.00053
14.05 0.99633 0.00050	13.75 0.99309 0.00052	13.45 0.99412 0.00053
14.10 1.00077 0.00049	13.80 0.99659 0.00051	13.50 0.99831 0.00053
14.15 1.00307 0.00051	13.85 1.00060 0.00051	13.55 1.00124 0.00053
14.20 1.00620 0.00052	13.90 1.00262 0.00053	13.60 1.00359 0.00054
14.25 1.01043 0.00052	13.95 1.00585 0.00051	13.65 1.00676 0.00052
14.30 1.01149 0.00051	14.00 1.00908 0.00052	13.70 1.00924 0.00051
14.35 1.01491 0.00050	14.05 1.01098 0.00050	13.75 1.01213 0.00053
14.40 1.01742 0.00051	14.10 1.01482 0.00052	13.80 1.01547 0.00053
14.45 1.01997 0.00050	14.15 1.01825 0.00051	13.85 1.01926 0.00052
14.50 1.02407 0.00052	14.20 1.02077 0.00052	13.90 1.02213 0.00053
	14.25 1.02292 0.00052	
	14.30 1.02690 0.00052	

130	150	200
12.20 0.91587 0.00054	12.00 0.91334 0.00053	11.80 0.91474 0.00056
12.25 0.92118 0.00053	12.05 0.91765 0.00052	11.85 0.91819 0.00054
12.30 0.92357 0.00053	12.10 0.92144 0.00054	11.90 0.92277 0.00054
12.35 0.92760 0.00052	12.15 0.92450 0.00054	11.95 0.92687 0.00054
12.40 0.93010 0.00053	12.20 0.92970 0.00053	12.05 0.93424 0.00054
12.45 0.93490 0.00052	12.25 0.93286 0.00052	12.10 0.93792 0.00054
12.50 0.93857 0.00054	12.30 0.93610 0.00053	12.15 0.94284 0.00054
12.55 0.94209 0.00052	12.35 0.93990 0.00054	12.20 0.94669 0.00054

12.60 0.94592 0.00054	12.40 0.94278 0.00053	12.25 0.94993 0.00054
12.65 0.95047 0.00054	12.45 0.94635 0.00053	12.30 0.95354 0.00054
12.70 0.95303 0.00052	12.50 0.95156 0.00054	12.35 0.95718 0.00055
12.75 0.95681 0.00053	12.55 0.95451 0.00053	12.40 0.96125 0.00054
12.80 0.96041 0.00053	12.60 0.95837 0.00054	12.45 0.96490 0.00055
12.85 0.96372 0.00053	12.65 0.96151 0.00054	12.50 0.96945 0.00055
12.90 0.96654 0.00054	12.70 0.96523 0.00053	12.55 0.97212 0.00055
13.00 0.97390 0.00053	12.75 0.96927 0.00053	12.60 0.97606 0.00056
13.05 0.97681 0.00052	12.80 0.97245 0.00053	12.65 0.97916 0.00055
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13.20 0.98761 0.00053	12.90 0.98060 0.00053	12.75 0.98670 0.00053
13.25 0.99227 0.00054	12.95 0.98163 0.00053	12.80 0.99075 0.00056
13.30 0.99485 0.00054	13.00 0.98715 0.00055	12.85 0.99397 0.00053
13.35 0.99767 0.00053	13.05 0.99002 0.00054	12.90 0.99772 0.00054
13.40 1.00132 0.00054	13.10 0.99245 0.00052	12.95 1.00068 0.00055
13.45 1.00546 0.00053	13.15 0.99720 0.00054	13.00 1.00413 0.00054
13.50 1.00740 0.00053	13.20 0.99987 0.00053	13.10 1.01205 0.00056
13.55 1.01119 0.00054	13.25 1.00351 0.00054	13.15 1.01479 0.00055
13.60 1.01403 0.00054	13.30 1.00704 0.00054	13.20 1.01784 0.00055
13.65 1.01705 0.00052	13.35 1.01048 0.00053	13.25 1.02156 0.00054
13.70 1.02069 0.00053	13.40 1.01336 0.00053	13.30 1.02495 0.00055
	13.45 1.01699 0.00052	
	13.50 1.02016 0.00054	

235	250	353
11.70 0.91393 0.00055	11.70 0.91375 0.00055	11.80 0.92005 0.00055
11.75 0.91762 0.00053	11.75 0.91735 0.00054	11.85 0.92562 0.00055
11.80 0.92175 0.00054	11.80 0.92197 0.00055	11.90 0.92948 0.00054
11.85 0.92525 0.00056	11.85 0.92597 0.00055	11.95 0.93259 0.00056
11.90 0.92967 0.00055	11.90 0.92887 0.00055	12.00 0.93606 0.00054
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12.00 0.93712 0.00056	12.00 0.93748 0.00055	12.10 0.94322 0.00055
12.05 0.93993 0.00055	12.05 0.94140 0.00056	12.15 0.94659 0.00056
12.10 0.94517 0.00055	12.10 0.94498 0.00055	12.20 0.95181 0.00055
12.15 0.94941 0.00054	12.15 0.94959 0.00054	12.25 0.95636 0.00054
12.20 0.95268 0.00056	12.20 0.95280 0.00054	12.30 0.95851 0.00056
12.25 0.95607 0.00055	12.25 0.95772 0.00053	12.35 0.96250 0.00055
12.30 0.95995 0.00055	12.30 0.95952 0.00055	12.40 0.96582 0.00056
12.35 0.96288 0.00055	12.35 0.96472 0.00056	12.45 0.97020 0.00055
12.40 0.96864 0.00054	12.40 0.96776 0.00053	12.50 0.97454 0.00056
12.45 0.97149 0.00054	12.45 0.97073 0.00055	12.55 0.97729 0.00055
12.50 0.97494 0.00054	12.50 0.97541 0.00055	12.60 0.98140 0.00055
12.55 0.97722 0.00054	12.55 0.97977 0.00056	12.65 0.98456 0.00055
12.60 0.98157 0.00055	12.60 0.98375 0.00055	12.70 0.98846 0.00057
12.65 0.98680 0.00055	12.65 0.98640 0.00054	12.75 0.99184 0.00055
12.70 0.98936 0.00054	12.70 0.98943 0.00055	12.80 0.99566 0.00057
12.75 0.99340 0.00055	12.75 0.99279 0.00056	12.85 0.99937 0.00054
12.80 0.99584 0.00056	12.80 0.99688 0.00054	12.90 1.00308 0.00055
12.85 1.00075 0.00057	12.90 1.00485 0.00055	12.95 1.00694 0.00055

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12.90 1.00346 0.00055	12.95 1.00663 0.00057	13.00 1.00991 0.00056
12.95 1.00738 0.00056	13.00 1.01165 0.00055	13.05 1.01331 0.00054
13.00 1.01171 0.00056	13.05 1.01390 0.00055	13.10 1.01672 0.00057
13.05 1.01361 0.00055	13.10 1.01787 0.00054	13.15 1.01961 0.00054
13.10 1.01795 0.00056	13.15 1.02132 0.00056	13.20 1.02332 0.00055
13.15 1.02199 0.00053	13.20 1.02522 0.00053	
13.20 1.02387 0.00054		

470	500	510
11.90 0.91597 0.00055	12.00 0.91764 0.00053	12.00 0.91555 0.00055
11.95 0.92004 0.00053	12.05 0.92111 0.00053	12.05 0.91893 0.00055
12.05 0.92733 0.00053	12.10 0.92509 0.00056	12.10 0.92418 0.00055
12.10 0.93097 0.00055	12.15 0.92856 0.00055	12.15 0.92664 0.00055
12.15 0.93535 0.00054	12.20 0.93341 0.00055	12.20 0.93059 0.00055
12.20 0.93797 0.00053	12.25 0.93764 0.00055	12.25 0.93375 0.00054
12.25 0.94251 0.00054	12.30 0.94008 0.00055	12.30 0.93857 0.00055
12.30 0.94663 0.00055	12.35 0.94407 0.00055	12.35 0.94144 0.00055
12.35 0.94967 0.00054	12.40 0.94748 0.00054	12.40 0.94554 0.00052
12.40 0.95317 0.00055	12.45 0.95126 0.00054	12.45 0.94894 0.00054
12.45 0.95738 0.00054	12.50 0.95484 0.00055	12.55 0.95702 0.00054
12.50 0.96098 0.00054	12.55 0.95760 0.00055	12.60 0.96055 0.00056
12.60 0.96768 0.00054	12.60 0.96196 0.00054	12.65 0.96285 0.00053
12.65 0.97116 0.00054	12.65 0.96509 0.00053	12.70 0.96793 0.00055
12.70 0.97479 0.00054	12.70 0.96864 0.00056	12.75 0.96985 0.00055
12.75 0.97753 0.00054	12.75 0.97188 0.00055	12.80 0.97324 0.00054
12.80 0.98268 0.00055	12.80 0.97516 0.00056	12.85 0.97690 0.00056
12.85 0.98512 0.00055	12.85 0.97977 0.00056	12.90 0.98153 0.00054
12.90 0.98934 0.00055	12.90 0.98286 0.00054	13.00 0.98787 0.00055
12.95 0.99164 0.00055	12.95 0.98625 0.00056	13.05 0.99108 0.00055
13.00 0.99542 0.00056	13.00 0.98981 0.00055	13.10 0.99404 0.00054
13.05 0.99887 0.00055	13.05 0.99241 0.00055	13.15 0.99834 0.00055
13.10 1.00266 0.00054	13.10 0.99645 0.00054	13.20 1.00082 0.00054
13.15 1.00557 0.00054	13.15 1.00028 0.00056	13.25 1.00461 0.00053
13.20 1.00846 0.00054	13.20 1.00309 0.00054	13.30 1.00737 0.00053
13.25 1.01410 0.00056	13.25 1.00577 0.00053	13.35 1.01114 0.00054
13.30 1.01582 0.00054	13.30 1.00946 0.00053	13.40 1.01543 0.00055
13.35 1.01955 0.00056	13.35 1.01285 0.00054	13.45 1.01798 0.00056
13.40 1.02217 0.00054	13.40 1.01681 0.00054	13.50 1.02014 0.00054
	13.45 1.01997 0.00056	
	13.50 1.02324 0.00055	

520	530	540
12.00 0.91387 0.00053	12.10 0.91930 0.00053	12.10 0.91757 0.00053
12.10 0.92097 0.00054	12.15 0.92381 0.00053	12.15 0.92127 0.00053
12.20 0.92936 0.00055	12.25 0.93113 0.00053	12.30 0.93201 0.00054
12.25 0.93182 0.00054	12.30 0.93459 0.00054	12.35 0.93660 0.00054
12.30 0.93602 0.00055	12.35 0.93776 0.00053	12.40 0.93980 0.00054

12.35 0.94003 0.00054	12.40 0.94215 0.00053	12.45 0.94443 0.00054
12.40 0.94515 0.00054	12.45 0.94607 0.00055	12.50 0.94661 0.00056
12.45 0.94756 0.00054	12.50 0.94918 0.00055	12.55 0.95126 0.00055
12.50 0.95102 0.00055	12.55 0.95232 0.00055	12.60 0.95484 0.00055
12.55 0.95444 0.00054	12.60 0.95699 0.00054	12.65 0.95764 0.00054
12.60 0.95782 0.00053	12.65 0.95964 0.00054	12.70 0.96214 0.00054
12.65 0.96147 0.00054	12.70 0.96349 0.00054	12.75 0.96515 0.00054
12.70 0.96560 0.00054	12.75 0.96699 0.00055	12.80 0.96821 0.00054
12.75 0.96914 0.00054	12.80 0.97029 0.00053	12.85 0.97190 0.00054
12.80 0.97234 0.00055	12.85 0.97368 0.00055	12.90 0.97647 0.00056
12.85 0.97492 0.00055	12.90 0.97612 0.00055	12.95 0.97879 0.00052
12.90 0.97946 0.00054	12.95 0.98177 0.00055	13.00 0.98297 0.00054
12.95 0.98305 0.00056	13.00 0.98460 0.00054	13.05 0.98538 0.00055
13.00 0.98704 0.00056	13.05 0.98698 0.00055	13.10 0.98875 0.00055
13.05 0.98925 0.00053	13.10 0.99155 0.00054	13.15 0.99369 0.00053
13.10 0.99275 0.00055	13.15 0.99400 0.00054	13.20 0.99583 0.00054
13.15 0.99476 0.00055	13.20 0.99792 0.00055	13.25 0.99923 0.00054
13.20 0.99915 0.00053	13.25 1.00084 0.00056	13.30 1.00261 0.00054
13.25 1.00327 0.00054	13.30 1.00343 0.00056	13.35 1.00568 0.00053
13.30 1.00682 0.00054	13.35 1.00704 0.00055	13.40 1.00849 0.00055
13.35 1.00977 0.00055	13.40 1.01048 0.00055	13.45 1.01196 0.00054
13.40 1.01233 0.00056	13.45 1.01264 0.00056	13.50 1.01620 0.00053
13.45 1.01691 0.00057	13.50 1.01806 0.00056	13.55 1.01854 0.00056
13.50 1.01925 0.00056	13.55 1.02076 0.00055	13.60 1.02109 0.00055
13.55 1.02260 0.00055	13.60 1.02426 0.00054	13.65 1.02458 0.00055
13.60 1.02482 0.00056		13.70 1.02779 0.00054

550	560
12.10 0.91518 0.00054	12.20 0.92194 0.00053
12.15 0.92022 0.00053	12.25 0.92595 0.00053
12.20 0.92371 0.00054	12.30 0.92931 0.00053
12.25 0.92649 0.00054	12.35 0.93265 0.00054
12.30 0.93028 0.00055	12.40 0.93617 0.00052
12.35 0.93501 0.00055	12.45 0.94040 0.00054
12.40 0.93891 0.00053	12.50 0.94339 0.00052
12.45 0.94202 0.00053	12.55 0.94833 0.00053
12.50 0.94612 0.00055	12.60 0.95077 0.00054
12.55 0.94763 0.00056	12.65 0.95389 0.00054
12.60 0.95343 0.00053	12.70 0.95862 0.00053
12.65 0.95637 0.00053	12.75 0.96040 0.00054
12.70 0.95914 0.00053	12.80 0.96457 0.00055
12.75 0.96195 0.00056	12.85 0.96912 0.00054
12.80 0.96766 0.00053	12.90 0.97102 0.00054
12.85 0.97082 0.00054	12.95 0.97575 0.00056
12.90 0.97301 0.00053	13.00 0.97874 0.00055
12.95 0.97629 0.00054	13.05 0.98247 0.00054
13.00 0.97988 0.00054	13.10 0.98507 0.00055
13.05 0.98394 0.00056	13.15 0.98880 0.00054
13.10 0.98733 0.00055	13.20 0.99305 0.00053

13.15 0.99041 0.00054	13.25 0.99512 0.00054
13.20 0.99366 0.00055	13.30 0.99935 0.00055
13.25 0.99736 0.00055	13.35 1.00174 0.00055
13.30 1.00067 0.00054	13.40 1.00525 0.00053
13.35 1.00350 0.00055	13.45 1.00849 0.00054
13.40 1.00802 0.00055	13.50 1.01183 0.00054
13.45 1.01066 0.00054	13.55 1.01486 0.00054
13.50 1.01299 0.00056	13.60 1.01774 0.00055
13.55 1.01801 0.00054	
13.60 1.01933 0.00054	
13.65 1.02404 0.00053	
13.70 1.02568 0.00054	

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12	15	20
144.30 0.90145 0.00012	39.60 0.92675 0.00021	23.70 0.92706 0.00029
148.80 0.90189 0.00011	41.10 0.93213 0.00020	24.10 0.93255 0.00028
153.30 0.90205 0.00012	42.60 0.93771 0.00020	24.50 0.93808 0.00028
157.80 0.90300 0.00011	44.10 0.94280 0.00019	24.90 0.94309 0.00029
162.30 0.90323 0.00011	45.60 0.94693 0.00019	25.30 0.94892 0.00028
166.80 0.90325 0.00011	47.10 0.95100 0.00020	25.70 0.95359 0.00028
171.30 0.90401 0.00011	48.60 0.95445 0.00019	26.10 0.95801 0.00028
175.80 0.90406 0.00011	50.10 0.95849 0.00018	26.50 0.96329 0.00027
180.30 0.90473 0.00011	51.60 0.96137 0.00018	26.90 0.96773 0.00027
184.80 0.90527 0.00011	53.10 0.96436 0.00017	27.30 0.97175 0.00027
189.30 0.90499 0.00011	54.60 0.96751 0.00018	27.70 0.97646 0.00027
193.80 0.90509 0.00011	56.10 0.96978 0.00017	28.10 0.98081 0.00027
198.30 0.90543 0.00011	57.60 0.97265 0.00017	28.50 0.98494 0.00027
202.80 0.90500 0.00011	59.10 0.97521 0.00017	28.90 0.98816 0.00026
207.30 0.90547 0.00011	60.60 0.97665 0.00017	29.30 0.99251 0.00027
211.80 0.90591 0.00011	62.10 0.97894 0.00017	29.70 0.99618 0.00027
216.30 0.90611 0.00011	63.60 0.98069 0.00016	30.10 0.99950 0.00027
220.80 0.90605 0.00011	65.10 0.98226 0.00016	30.50 1.00312 0.00026
225.30 0.90633 0.00011	66.60 0.98416 0.00016	30.90 1.00644 0.00026
229.80 0.90644 0.00011	68.10 0.98584 0.00016	31.30 1.00955 0.00026
234.30 0.90647 0.00011	69.60 0.98764 0.00016	31.50 1.01057 0.00025
234.60 0.90650 0.00011	70.00 0.98701 0.00016	

25	30	32
19.00 0.92329 0.00033	16.70 0.92266 0.00036	16.10 0.92273 0.00038
19.20 0.92807 0.00034	16.80 0.92515 0.00037	16.20 0.92653 0.00038
19.60 0.93807 0.00033	16.90 0.92847 0.00036	16.30 0.92950 0.00038
19.80 0.94251 0.00033	17.00 0.93171 0.00037	16.40 0.93326 0.00038
20.00 0.94739 0.00033	17.10 0.93484 0.00037	16.50 0.93630 0.00038
20.20 0.95133 0.00033	17.20 0.93744 0.00037	16.60 0.94004 0.00037
20.40 0.95607 0.00032	17.30 0.94070 0.00036	16.70 0.94296 0.00037
20.60 0.95952 0.00033	17.40 0.94392 0.00036	16.80 0.94704 0.00038

20.80 0.96477 0.00032	17.60 0.95071 0.00036	16.90 0.94997 0.00038
21.00 0.96758 0.00032	17.80 0.95595 0.00036	17.00 0.95221 0.00037
21.20 0.97197 0.00033	17.90 0.95891 0.00037	17.10 0.95690 0.00037
21.40 0.97523 0.00032	18.00 0.96193 0.00036	17.20 0.95873 0.00037
21.60 0.97908 0.00033	18.10 0.96417 0.00036	17.30 0.96195 0.00037
21.80 0.98358 0.00032	18.20 0.96739 0.00036	17.40 0.96531 0.00038
22.00 0.98737 0.00032	18.30 0.96992 0.00036	17.50 0.96832 0.00038
22.20 0.99114 0.00032	18.40 0.97210 0.00035	17.60 0.97089 0.00037
22.40 0.99499 0.00032	18.60 0.97812 0.00035	17.70 0.97462 0.00037
22.60 0.99857 0.00032	18.70 0.98067 0.00036	17.80 0.97793 0.00037
22.80 1.00181 0.00032	18.80 0.98399 0.00037	17.90 0.97996 0.00037
23.00 1.00454 0.00031	19.10 0.99098 0.00037	18.00 0.98264 0.00036
23.20 1.00879 0.00031	19.20 0.99297 0.00035	18.10 0.98532 0.00037
23.40 1.01189 0.00031	19.30 0.99594 0.00036	18.20 0.98900 0.00036
23.60 1.01427 0.00031	19.40 0.99848 0.00035	18.30 0.99163 0.00037
	19.60 1.00355 0.00034	18.40 0.99412 0.00036
	19.70 1.00658 0.00035	18.50 0.99730 0.00037
	19.80 1.00830 0.00035	18.60 0.99970 0.00036
	19.90 1.01027 0.00035	18.70 1.00255 0.00036
	20.00 1.01208 0.00035	18.80 1.00509 0.00036
	20.10 1.01508 0.00035	18.90 1.00838 0.00036
	20.20 1.01753 0.00036	19.00 1.01066 0.00036
		19.10 1.01270 0.00036
		19.20 1.01523 0.00037
		19.30 1.01855 0.00035

35	40	50
15.40 0.92437 0.00037	14.40 0.92241 0.00042	13.20 0.92273 0.00043
15.50 0.92862 0.00041	14.50 0.92719 0.00041	13.30 0.92908 0.00042
15.60 0.93230 0.00039	14.60 0.93095 0.00041	13.40 0.93222 0.00043
15.70 0.93572 0.00039	14.70 0.93559 0.00042	13.50 0.93733 0.00042
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15.90 0.94266 0.00039	14.90 0.94446 0.00041	13.70 0.94714 0.00044
16.00 0.94692 0.00039	15.00 0.94811 0.00041	13.80 0.95235 0.00043
16.10 0.95105 0.00038	15.10 0.95293 0.00040	13.90 0.95693 0.00043
16.20 0.95411 0.00039	15.20 0.95638 0.00041	14.00 0.96208 0.00043
16.30 0.95841 0.00040	15.30 0.96026 0.00040	14.10 0.96658 0.00043
16.40 0.96160 0.00038	15.40 0.96452 0.00041	14.20 0.97175 0.00044
16.50 0.96452 0.00038	15.50 0.96861 0.00040	14.30 0.97544 0.00044
16.60 0.96686 0.00038	15.60 0.97241 0.00040	14.40 0.98144 0.00043
16.70 0.97099 0.00038	15.70 0.97560 0.00040	14.50 0.98476 0.00042
16.80 0.97756 0.00038	15.80 0.97945 0.00039	14.60 0.99004 0.00042
17.00 0.98101 0.00038	15.90 0.98347 0.00040	14.70 0.99367 0.00043
17.10 0.98504 0.00037	16.00 0.98730 0.00040	14.80 0.99922 0.00043
17.20 0.98847 0.00038	16.10 0.99041 0.00039	14.90 1.00320 0.00044
17.30 0.99090 0.00036	16.20 0.99469 0.00041	15.00 1.00711 0.00043
17.50 0.99695 0.00038	16.30 0.99845 0.00039	15.10 1.01179 0.00043
17.60 1.00060 0.00039	16.60 1.00921 0.00040	15.30 1.02024 0.00041
17.70 1.00376 0.00038	16.70 1.01186 0.00040	

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17.80 1.00637 0.00039	16.80 1.01514 0.00040
17.90 1.00918 0.00039	16.90 1.01847 0.00040
18.00 1.01190 0.00038	
18.10 1.01468 0.00038	
18.20 1.01772 0.00039	

60	70	80
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12.50 0.92469 0.00045	12.00 0.92513 0.00046	11.65 0.92583 0.00048
12.60 0.93132 0.00045	12.10 0.93119 0.00046	11.70 0.92914 0.00048
12.70 0.93638 0.00045	12.20 0.93777 0.00047	11.75 0.93191 0.00049
12.80 0.94232 0.00046	12.30 0.94240 0.00046	11.80 0.93502 0.00047
12.90 0.94634 0.00045	12.40 0.94877 0.00048	11.85 0.93845 0.00048
13.00 0.95298 0.00046	12.50 0.95456 0.00047	11.90 0.94192 0.00047
13.10 0.95787 0.00047	12.60 0.96094 0.00047	11.95 0.94424 0.00047
13.20 0.96258 0.00047	12.70 0.96641 0.00046	12.00 0.94753 0.00047
13.30 0.96935 0.00045	12.80 0.97190 0.00047	12.05 0.95058 0.00048
13.40 0.97398 0.00046	12.90 0.97734 0.00046	12.10 0.95399 0.00048
13.50 0.97892 0.00044	13.10 0.98897 0.00047	12.15 0.95745 0.00048
13.60 0.98455 0.00045	13.30 0.99959 0.00045	12.20 0.95902 0.00047
13.70 0.98841 0.00044	13.40 1.00499 0.00047	12.25 0.96379 0.00047
13.80 0.99381 0.00045	13.50 1.01159 0.00048	12.30 0.96689 0.00049
13.90 1.00015 0.00045	13.60 1.01479 0.00047	12.35 0.96890 0.00048
14.00 1.00438 0.00045	13.70 1.02140 0.00047	12.40 0.97212 0.00048
14.10 1.00865 0.00044		12.45 0.97510 0.00049
14.20 1.01476 0.00044		12.50 0.97903 0.00048
14.30 1.01714 0.00045		12.55 0.98154 0.00048
		12.60 0.98395 0.00047
		12.65 0.98697 0.00049
		12.70 0.98954 0.00048
		12.75 0.99235 0.00047
		12.80 0.99617 0.00048
		12.85 0.99847 0.00050
		12.90 1.00205 0.00048
		13.00 1.00694 0.00047
		13.05 1.00912 0.00046
		13.10 1.01250 0.00047
		13.15 1.01552 0.00048
		13.20 1.01829 0.00047
		13.25 1.02114 0.00048
		13.30 1.02460 0.00048

90	100	118
11.30 0.92143 0.00048	11.10 0.92036 0.00050	10.80 0.91830 0.00051
11.35 0.92342 0.00048	11.15 0.92422 0.00049	10.85 0.92231 0.00051
11.40 0.92741 0.00050	11.20 0.92822 0.00049	10.90 0.92557 0.00050
11.45 0.93070 0.00047	11.25 0.93159 0.00050	10.95 0.92975 0.00051

11.55 0.93724 0.00047	11.30 0.93527 0.00049	11.00 0.93304 0.00050
11.60 0.94074 0.00051	11.35 0.93808 0.00048	11.05 0.93653 0.00051
11.65 0.94349 0.00050	11.40 0.94261 0.00049	11.10 0.94005 0.00049
11.70 0.94768 0.00049	11.45 0.94504 0.00050	11.15 0.94360 0.00049
11.75 0.95155 0.00048	11.50 0.94961 0.00049	11.20 0.94741 0.00050
11.80 0.95342 0.00051	11.55 0.95246 0.00048	11.25 0.95159 0.00051
11.85 0.95643 0.00049	11.60 0.95532 0.00049	11.30 0.95470 0.00050
11.90 0.96004 0.00050	11.65 0.95807 0.00049	11.35 0.95908 0.00050
11.95 0.96316 0.00049	11.70 0.96277 0.00049	11.40 0.96158 0.00050
12.05 0.96972 0.00048	11.75 0.96517 0.00050	11.45 0.96478 0.00050
12.10 0.97270 0.00050	11.80 0.96840 0.00050	11.50 0.96735 0.00049
12.15 0.97574 0.00049	11.85 0.97203 0.00049	11.55 0.97211 0.00051
12.20 0.97918 0.00049	11.90 0.97578 0.00049	11.60 0.97492 0.00052
12.25 0.98268 0.00050	11.95 0.97830 0.00049	11.65 0.97821 0.00050
12.30 0.98564 0.00049	12.00 0.98188 0.00049	11.70 0.98155 0.00051
12.35 0.98870 0.00050	12.05 0.98426 0.00051	11.75 0.98575 0.00049
12.40 0.99179 0.00048	12.10 0.98805 0.00050	11.80 0.98835 0.00051
12.45 0.99344 0.00047	12.15 0.99105 0.00050	11.85 0.99178 0.00051
12.50 0.99738 0.00049	12.20 0.99436 0.00051	11.90 0.99558 0.00051
12.55 1.00104 0.00048	12.25 0.99717 0.00050	11.95 0.99888 0.00049
12.60 1.00339 0.00049	12.30 0.99983 0.00049	12.00 1.00188 0.00052
12.65 1.00628 0.00049	12.35 1.00323 0.00051	12.05 1.00476 0.00052
12.70 1.00992 0.00048	12.40 1.00621 0.00050	12.10 1.00760 0.00052
12.75 1.01306 0.00048	12.45 1.01043 0.00048	12.15 1.01102 0.00049
12.80 1.01523 0.00050	12.50 1.01266 0.00049	12.20 1.01342 0.00052
12.85 1.01810 0.00049	12.55 1.01479 0.00050	12.25 1.01795 0.00051
12.90 1.02033 0.00047	12.60 1.01884 0.00049	12.30 1.02209 0.00050
	12.65 1.02216 0.00049	
	12.70 1.02490 0.00050	

130	150	200
10.70 0.92021 0.00050	10.50 0.91882 0.00053	10.20 0.91320 0.00050
10.75 0.92551 0.00052	10.55 0.92225 0.00050	10.25 0.91771 0.00052
10.80 0.92871 0.00051	10.60 0.92615 0.00051	10.30 0.92059 0.00052
10.85 0.93287 0.00052	10.65 0.93080 0.00052	10.35 0.92450 0.00051
10.90 0.93609 0.00051	10.70 0.93425 0.00051	10.40 0.92866 0.00053
10.95 0.93977 0.00051	10.75 0.93869 0.00050	10.45 0.93337 0.00052
11.00 0.94314 0.00049	10.80 0.94167 0.00052	10.50 0.93737 0.00052
11.05 0.94738 0.00052	10.85 0.94575 0.00051	10.55 0.94084 0.00052
11.10 0.95215 0.00052	10.90 0.94900 0.00051	10.60 0.94352 0.00052
11.15 0.95375 0.00052	10.95 0.95337 0.00052	10.65 0.94865 0.00052
11.20 0.95779 0.00050	11.00 0.95617 0.00050	10.70 0.95323 0.00052
11.25 0.96125 0.00051	11.05 0.95896 0.00052	10.75 0.95535 0.00051
11.30 0.96416 0.00051	11.10 0.96349 0.00050	10.80 0.95907 0.00053
11.35 0.96800 0.00050	11.15 0.96721 0.00051	10.85 0.96385 0.00054
11.40 0.97196 0.00050	11.20 0.97098 0.00052	10.90 0.96734 0.00053
11.45 0.97452 0.00049	11.25 0.97424 0.00051	10.95 0.97175 0.00051
11.50 0.97830 0.00051	11.30 0.97755 0.00049	11.00 0.97394 0.00052
11.55 0.98281 0.00051	11.35 0.98083 0.00052	11.05 0.97850 0.00053

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11.60 0.98573 0.00051	11.40 0.98497 0.00053	11.10 0.98284 0.00053
11.65 0.98831 0.00050	11.45 0.98834 0.00050	11.15 0.98672 0.00052
11.70 0.99196 0.00052	11.50 0.99282 0.00053	11.20 0.98851 0.00053
11.75 0.99537 0.00052	11.55 0.99469 0.00052	11.25 0.99261 0.00054
11.80 0.99803 0.00053	11.60 0.99811 0.00050	11.30 0.99560 0.00054
11.85 1.00261 0.00051	11.65 1.00220 0.00053	11.35 0.99940 0.00054
11.90 1.00508 0.00050	11.70 1.00505 0.00052	11.40 1.00331 0.00053
11.95 1.00953 0.00051	11.75 1.00920 0.00052	11.45 1.00660 0.00052
12.00 1.01269 0.00049	11.80 1.01240 0.00051	11.50 1.01086 0.00054
12.05 1.01447 0.00050	11.85 1.01432 0.00050	11.55 1.01382 0.00053
12.10 1.01905 0.00052	11.90 1.01905 0.00052	11.60 1.01707 0.00055
12.15 1.02154 0.00050	11.95 1.02134 0.00052	11.65 1.02083 0.00053
12.20 1.02440 0.00052	12.00 1.02495 0.00053	11.70 1.02379 0.00052

235	250	353
10.20 0.91967 0.00052	10.20 0.92159 0.00051	10.25 0.92537 0.00054
10.25 0.92495 0.00051	10.25 0.92512 0.00054	10.30 0.92810 0.00054
10.30 0.92714 0.00054	10.30 0.92872 0.00053	10.35 0.93216 0.00053
10.35 0.93154 0.00054	10.35 0.93168 0.00051	10.40 0.93675 0.00054
10.45 0.93972 0.00056	10.40 0.93678 0.00051	10.45 0.94124 0.00053
10.50 0.94334 0.00053	10.45 0.94047 0.00054	10.55 0.94759 0.00053
10.55 0.94717 0.00052	10.50 0.94425 0.00053	10.60 0.95078 0.00053
10.60 0.95100 0.00051	10.55 0.94810 0.00052	10.65 0.95682 0.00053
10.65 0.95382 0.00053	10.60 0.95277 0.00054	10.70 0.96002 0.00054
10.70 0.95803 0.00053	10.65 0.95587 0.00053	10.75 0.96190 0.00052
10.75 0.96172 0.00053	10.70 0.95979 0.00054	10.80 0.96631 0.00054
10.80 0.96640 0.00053	10.75 0.96328 0.00051	10.85 0.97057 0.00053
10.85 0.96949 0.00053	10.80 0.96732 0.00053	10.90 0.97418 0.00053
10.90 0.97321 0.00052	10.85 0.97121 0.00053	11.00 0.98142 0.00054
10.95 0.97745 0.00054	10.90 0.97554 0.00054	11.05 0.98547 0.00054
11.00 0.98099 0.00054	10.95 0.97716 0.00054	11.10 0.98989 0.00053
11.05 0.98519 0.00052	11.00 0.98122 0.00053	11.15 0.99204 0.00053
11.10 0.98902 0.00052	11.05 0.98561 0.00054	11.20 0.99605 0.00054
11.15 0.99178 0.00052	11.10 0.98964 0.00052	11.25 0.99965 0.00053
11.20 0.99522 0.00051	11.15 0.99235 0.00052	11.30 1.00409 0.00054
11.25 0.99907 0.00053	11.20 0.99608 0.00054	11.35 1.00597 0.00053
11.30 1.00388 0.00053	11.25 0.99863 0.00053	11.40 1.00898 0.00054
11.35 1.00561 0.00055	11.30 1.00260 0.00053	11.45 1.01367 0.00053
11.40 1.01000 0.00052	11.35 1.00738 0.00052	11.50 1.01631 0.00053
11.45 1.01271 0.00051	11.40 1.01175 0.00053	11.55 1.02044 0.00054
11.50 1.01670 0.00052	11.45 1.01455 0.00054	11.60 1.02378 0.00053
11.55 1.02085 0.00051	11.50 1.01668 0.00054	
11.60 1.02395 0.00053	11.55 1.02066 0.00053	
	11.60 1.02449 0.00053	

470	500	510
10.30 0.91787 0.00053	10.40 0.92103 0.00053	10.40 0.91856 0.00053
10.35 0.92168 0.00052	10.45 0.92358 0.00052	10.45 0.92020 0.00053
10.40 0.92497 0.00052	10.50 0.92683 0.00052	10.50 0.92495 0.00052
10.45 0.92871 0.00053	10.55 0.93117 0.00052	10.55 0.93065 0.00054
10.50 0.93199 0.00052	10.60 0.93446 0.00053	10.60 0.93269 0.00053
10.55 0.93642 0.00053	10.65 0.93867 0.00053	10.65 0.93730 0.00053
10.65 0.94417 0.00055	10.70 0.94221 0.00054	10.70 0.93968 0.00053
10.70 0.94732 0.00053	10.75 0.94544 0.00055	10.75 0.94363 0.00054
10.75 0.95062 0.00052	10.80 0.94879 0.00053	10.80 0.94797 0.00052
10.80 0.95506 0.00052	10.85 0.95338 0.00052	10.85 0.95180 0.00051
10.85 0.95884 0.00053	10.90 0.95646 0.00053	10.90 0.95529 0.00053
10.90 0.96195 0.00055	10.95 0.96042 0.00052	10.95 0.95815 0.00053
10.95 0.96513 0.00052	11.00 0.96437 0.00052	11.05 0.96567 0.00053
11.00 0.96964 0.00053	11.05 0.96785 0.00054	11.15 0.97240 0.00053
11.05 0.97228 0.00055	11.10 0.97098 0.00054	11.20 0.97679 0.00054
11.10 0.97660 0.00052	11.15 0.97445 0.00053	11.30 0.98340 0.00053
11.15 0.98032 0.00053	11.25 0.98169 0.00053	11.35 0.98689 0.00054
11.20 0.98336 0.00054	11.30 0.98557 0.00054	11.40 0.98950 0.00053
11.25 0.98739 0.00053	11.35 0.98778 0.00053	11.45 0.99297 0.00053
11.30 0.99094 0.00054	11.40 0.99054 0.00052	11.50 0.99591 0.00053
11.35 0.99414 0.00054	11.45 0.99542 0.00054	11.55 0.99974 0.00053
11.40 0.99664 0.00054	11.50 0.99868 0.00052	11.60 1.00366 0.00055
11.45 0.99987 0.00054	11.55 1.00142 0.00054	11.65 1.00687 0.00053
11.50 1.00428 0.00054	11.60 1.00602 0.00054	11.70 1.01058 0.00054
11.55 1.00716 0.00053	11.65 1.00860 0.00053	11.75 1.01381 0.00052
11.60 1.00957 0.00052	11.70 1.01154 0.00052	11.80 1.01765 0.00053
11.65 1.01344 0.00052	11.75 1.01483 0.00053	11.85 1.01993 0.00053
11.70 1.01753 0.00052	11.80 1.01875 0.00053	11.90 1.02158 0.00053
11.75 1.02201 0.00052	11.85 1.02240 0.00052	
11.80 1.02368 0.00052	11.90 1.02401 0.00053	

520	530	540
10.50 0.92408 0.00053	10.50 0.92176 0.00053	10.50 0.92062 0.00052
10.55 0.92704 0.00052	10.55 0.92559 0.00051	10.55 0.92529 0.00052
10.60 0.93184 0.00053	10.60 0.92915 0.00053	10.60 0.92803 0.00052
10.65 0.93526 0.00053	10.65 0.93365 0.00053	10.65 0.93090 0.00053
10.70 0.93857 0.00052	10.70 0.93647 0.00053	10.70 0.93555 0.00052
10.75 0.94256 0.00053	10.75 0.94092 0.00052	10.75 0.93960 0.00051
10.80 0.94593 0.00052	10.80 0.94496 0.00052	10.80 0.94355 0.00051
10.85 0.94896 0.00052	10.90 0.95147 0.00054	10.85 0.94659 0.00053
10.90 0.95267 0.00054	10.95 0.95521 0.00053	10.90 0.94926 0.00052
10.95 0.95801 0.00053	11.00 0.95823 0.00053	10.95 0.95404 0.00052
11.05 0.96373 0.00053	11.05 0.96205 0.00053	11.00 0.95739 0.00053
11.10 0.96747 0.00052	11.10 0.96621 0.00052	11.05 0.96083 0.00052
11.15 0.97166 0.00052	11.15 0.96858 0.00053	11.15 0.96878 0.00052
11.20 0.97525 0.00053	11.20 0.97271 0.00051	11.20 0.97089 0.00052
11.25 0.97773 0.00053	11.25 0.97740 0.00054	11.25 0.97505 0.00053
11.30 0.98171 0.00054	11.30 0.97982 0.00054	11.30 0.97819 0.00053

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11.35 0.98653 0.00053	11.35 0.98231 0.00054	11.35 0.98219 0.00054
11.40 0.98744 0.00053	11.45 0.98894 0.00055	11.40 0.98463 0.00053
11.45 0.99173 0.00053	11.50 0.99349 0.00054	11.45 0.98744 0.00053
11.50 0.99523 0.00051	11.55 0.99655 0.00053	11.50 0.99139 0.00053
11.55 0.99820 0.00054	11.60 1.00050 0.00052	11.55 0.99545 0.00052
11.60 1.00216 0.00054	11.65 1.00282 0.00052	11.60 0.99804 0.00051
11.65 1.00584 0.00052	11.70 1.00649 0.00053	11.65 1.00140 0.00052
11.70 1.00822 0.00054	11.75 1.00990 0.00052	11.70 1.00533 0.00052
11.75 1.01203 0.00054	11.80 1.01386 0.00051	11.75 1.00909 0.00051
11.80 1.01524 0.00053	11.85 1.01715 0.00054	11.80 1.01207 0.00054
11.85 1.01942 0.00054	11.90 1.02011 0.00052	11.85 1.01410 0.00055
11.90 1.02159 0.00053		11.90 1.01804 0.00054

550	560
10.50 0.91940 0.00051	10.50 0.91721 0.00052
10.55 0.92361 0.00052	10.55 0.92272 0.00054
10.60 0.92734 0.00053	10.60 0.92471 0.00053
10.65 0.93050 0.00053	10.65 0.92788 0.00051
10.70 0.93429 0.00052	10.75 0.93637 0.00053
10.75 0.93634 0.00052	10.80 0.93901 0.00052
10.80 0.94175 0.00052	10.85 0.94467 0.00051
10.85 0.94502 0.00051	10.90 0.94753 0.00054
10.90 0.94831 0.00053	10.95 0.95067 0.00052
10.95 0.95111 0.00054	11.00 0.95414 0.00052
11.00 0.95642 0.00053	11.05 0.95695 0.00052
11.05 0.95840 0.00052	11.10 0.96156 0.00052
11.10 0.96271 0.00053	11.15 0.96448 0.00052
11.15 0.96672 0.00055	11.20 0.96829 0.00051
11.20 0.97024 0.00052	11.25 0.97066 0.00053
11.25 0.97218 0.00052	11.30 0.97469 0.00053
11.30 0.97603 0.00053	11.35 0.97907 0.00052
11.40 0.98305 0.00052	11.40 0.98165 0.00052
11.45 0.98769 0.00053	11.45 0.98402 0.00053
11.50 0.99013 0.00052	11.50 0.98860 0.00053
11.55 0.99265 0.00053	11.55 0.99115 0.00053
11.60 0.99584 0.00052	11.60 0.99520 0.00052
11.65 0.99986 0.00054	11.65 0.99810 0.00053
11.70 1.00316 0.00053	11.70 1.00057 0.00052
11.75 1.00726 0.00052	11.75 1.00510 0.00056
11.80 1.00934 0.00054	11.80 1.00770 0.00053
11.85 1.01366 0.00052	11.85 1.01104 0.00052
11.90 1.01658 0.00053	11.90 1.01467 0.00052
11.95 1.01972 0.00054	11.95 1.01850 0.00053
12.00 1.02356 0.00054	12.00 1.02103 0.00054

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12	15	20
105.50 0.89459 0.00012	39.00 0.92848 0.00020	22.50 0.92563 0.00027
112.90 0.89737 0.00012	40.70 0.93507 0.00019	22.90 0.93169 0.00028
120.30 0.89791 0.00012	42.40 0.94091 0.00019	23.30 0.93781 0.00027
127.70 0.89898 0.00012	44.10 0.94659 0.00019	23.70 0.94239 0.00027
135.10 0.90077 0.00012	45.80 0.95037 0.00019	24.10 0.94801 0.00026
142.50 0.90145 0.00011	47.50 0.95526 0.00018	24.50 0.95260 0.00026
149.90 0.90213 0.00012	49.20 0.95894 0.00018	24.90 0.95770 0.00027
157.30 0.90292 0.00012	50.90 0.96249 0.00017	25.30 0.96233 0.00027
164.70 0.90321 0.00012	52.60 0.96596 0.00018	25.70 0.96696 0.00026
172.10 0.90388 0.00011	54.30 0.96932 0.00017	26.10 0.97202 0.00026
179.50 0.90457 0.00011	56.00 0.97201 0.00017	26.50 0.97603 0.00026
186.90 0.90469 0.00011	57.70 0.97491 0.00017	26.90 0.98027 0.00026
194.30 0.90573 0.00011	59.40 0.97706 0.00016	27.30 0.98374 0.00025
201.70 0.90578 0.00011	61.10 0.97945 0.00017	27.70 0.98919 0.00026
209.10 0.90582 0.00011	62.80 0.98144 0.00016	28.10 0.99180 0.00025
216.50 0.90624 0.00010	64.50 0.98296 0.00016	28.50 0.99505 0.00025
223.90 0.90673 0.00010	66.20 0.98512 0.00016	28.90 0.99945 0.00025
231.30 0.90699 0.00011	67.90 0.98674 0.00016	29.30 1.00249 0.00025
238.70 0.90725 0.00010	69.60 0.98807 0.00016	29.70 1.00612 0.00025
246.10 0.90661 0.00011	71.30 0.98991 0.00015	30.10 1.00860 0.00025
253.50 0.90715 0.00010	73.00 0.99095 0.00015	30.40 1.01168 0.00025
254.30 0.90737 0.00011	74.10 0.99232 0.00015	

25	30	32
17.90 0.92387 0.00032	15.60 0.92399 0.00034	15.00 0.92384 0.00036
18.10 0.92888 0.00031	15.70 0.92681 0.00035	15.10 0.92762 0.00036
18.30 0.93365 0.00032	15.80 0.92970 0.00035	15.20 0.93019 0.00034
18.50 0.93844 0.00032	15.90 0.93250 0.00035	15.30 0.93414 0.00035
18.70 0.94350 0.00031	16.00 0.93653 0.00035	15.40 0.93776 0.00036
18.90 0.94809 0.00032	16.10 0.93812 0.00036	15.50 0.94133 0.00035
19.10 0.95189 0.00032	16.20 0.94265 0.00034	15.60 0.94486 0.00036
19.30 0.95604 0.00031	16.30 0.94561 0.00034	15.70 0.94829 0.00036
19.50 0.96068 0.00031	16.40 0.94776 0.00033	15.80 0.95101 0.00035
19.70 0.96509 0.00031	16.50 0.95118 0.00036	15.90 0.95474 0.00035
19.90 0.96943 0.00031	16.60 0.95368 0.00035	16.00 0.95702 0.00035
20.10 0.97274 0.00031	16.70 0.95718 0.00034	16.10 0.96171 0.00035
20.30 0.97783 0.00030	16.80 0.96022 0.00033	16.20 0.96348 0.00035
20.50 0.98085 0.00031	16.90 0.96242 0.00034	16.30 0.96668 0.00034
20.70 0.98435 0.00031	17.00 0.96522 0.00034	16.40 0.96974 0.00034
20.90 0.98830 0.00030	17.30 0.97477 0.00033	16.50 0.97278 0.00035
21.10 0.99201 0.00031	17.40 0.97730 0.00034	16.60 0.97567 0.00035
21.30 0.99572 0.00030	17.50 0.97916 0.00035	16.70 0.97847 0.00035
21.50 0.99880 0.00030	17.70 0.98389 0.00033	16.80 0.98207 0.00034
21.70 1.00207 0.00031	18.00 0.99262 0.00033	16.90 0.98450 0.00034
21.90 1.00589 0.00030	18.30 0.99990 0.00034	17.00 0.98757 0.00036
22.10 1.00909 0.00030	18.40 1.00242 0.00033	17.10 0.98996 0.00034

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22.30 1.01245 0.00029	18.50 1.00490 0.00032	17.20 0.99311 0.00034
22.40 1.01350 0.00030	18.60 1.00753 0.00034	17.30 0.99630 0.00034
	18.70 1.00896 0.00033	17.40 0.99881 0.00035
	18.90 1.01480 0.00033	17.50 1.00141 0.00034
	19.00 1.01622 0.00033	17.60 1.00422 0.00034
		17.70 1.00685 0.00033
		17.80 1.00998 0.00035
		17.90 1.01304 0.00034
		18.00 1.01442 0.00034

35	40	50
14.20 0.92305 0.00036	13.20 0.92049 0.00038	12.00 0.92012 0.00040
14.30 0.92658 0.00036	13.30 0.92482 0.00038	12.10 0.92584 0.00040
14.40 0.93099 0.00036	13.40 0.92951 0.00038	12.20 0.93155 0.00041
14.50 0.93423 0.00037	13.50 0.93351 0.00038	12.30 0.93595 0.00040
14.60 0.93805 0.00037	13.60 0.93811 0.00038	12.40 0.94158 0.00039
14.70 0.94213 0.00036	13.70 0.94152 0.00038	12.50 0.94603 0.00041
14.80 0.94521 0.00036	13.80 0.94633 0.00039	12.60 0.95137 0.00039
14.90 0.94850 0.00036	13.90 0.95051 0.00039	12.70 0.95599 0.00040
15.00 0.95260 0.00037	14.00 0.95482 0.00038	12.80 0.96134 0.00040
15.10 0.95551 0.00036	14.10 0.95869 0.00039	12.90 0.96594 0.00039
15.20 0.95961 0.00036	14.20 0.96302 0.00038	13.00 0.97032 0.00040
15.30 0.96328 0.00036	14.30 0.96682 0.00038	13.10 0.97554 0.00040
15.40 0.96712 0.00037	14.40 0.97112 0.00038	13.20 0.97976 0.00041
15.50 0.96972 0.00037	14.50 0.97425 0.00038	13.30 0.98488 0.00041
15.70 0.97670 0.00035	14.60 0.97768 0.00038	13.40 0.98893 0.00039
15.80 0.98016 0.00035	14.70 0.98180 0.00036	13.50 0.99403 0.00041
15.90 0.98325 0.00036	14.80 0.98590 0.00037	13.60 0.99741 0.00040
16.00 0.98645 0.00035	14.90 0.99002 0.00038	13.70 1.00300 0.00040
16.10 0.98997 0.00036	15.00 0.99302 0.00037	13.80 1.00627 0.00040
16.20 0.99332 0.00036	15.10 0.99717 0.00038	13.90 1.01168 0.00041
16.30 0.99649 0.00037	15.20 1.00090 0.00039	14.00 1.01642 0.00041
16.60 1.00579 0.00035	15.40 1.00739 0.00037	14.10 1.01975 0.00040
16.70 1.00853 0.00035	15.50 1.01130 0.00038	
16.80 1.01138 0.00035	15.60 1.01451 0.00038	
17.00 1.01689 0.00035	15.70 1.01855 0.00038	

60	70	80
11.30 0.92403 0.00041	10.80 0.92459 0.00043	10.40 0.92353 0.00045
11.40 0.92919 0.00042	10.85 0.92825 0.00042	10.45 0.92556 0.00046
11.50 0.93486 0.00042	10.90 0.93051 0.00043	10.50 0.92956 0.00045
11.60 0.94088 0.00042	10.95 0.93341 0.00043	10.55 0.93290 0.00045
11.70 0.94691 0.00041	11.00 0.93600 0.00042	10.60 0.93592 0.00044
11.80 0.95293 0.00042	11.05 0.93989 0.00045	10.65 0.93968 0.00045
11.90 0.95773 0.00043	11.10 0.94326 0.00043	10.70 0.94303 0.00045
12.00 0.96243 0.00041	11.15 0.94646 0.00043	10.75 0.94667 0.00044
12.20 0.97338 0.00041	11.20 0.94855 0.00044	10.80 0.94896 0.00045

12.30 0.97824 0.00042	11.25 0.95247 0.00043	10.85 0.95183 0.00044
12.40 0.98404 0.00043	11.30 0.95465 0.00044	10.90 0.95479 0.00045
12.60 0.99431 0.00042	11.35 0.95887 0.00043	10.95 0.95836 0.00045
12.70 0.99950 0.00042	11.40 0.96100 0.00044	11.00 0.96151 0.00044
12.80 1.00478 0.00042	11.45 0.96430 0.00043	11.05 0.96414 0.00044
12.90 1.00952 0.00042	11.50 0.96694 0.00043	11.10 0.96791 0.00044
13.00 1.01463 0.00043	11.55 0.97054 0.00043	11.15 0.96986 0.00044
13.10 1.01854 0.00043	11.60 0.97289 0.00044	11.20 0.97367 0.00044
	11.65 0.97542 0.00046	11.25 0.97641 0.00043
	11.70 0.97787 0.00044	11.30 0.98010 0.00044
	11.75 0.98112 0.00043	11.35 0.98327 0.00044
	11.80 0.98422 0.00044	11.40 0.98595 0.00043
	11.85 0.98740 0.00043	11.45 0.98818 0.00045
	11.90 0.98994 0.00043	11.50 0.99185 0.00044
	11.95 0.99303 0.00043	11.55 0.99395 0.00045
	12.00 0.99564 0.00043	11.60 0.99799 0.00045
	12.05 0.99814 0.00043	11.65 1.00012 0.00045
	12.10 1.00081 0.00043	11.70 1.00314 0.00044
	12.15 1.00294 0.00043	11.75 1.00619 0.00044
	12.25 1.00959 0.00043	11.80 1.00915 0.00044
	12.30 1.01178 0.00042	11.85 1.01142 0.00045
	12.35 1.01418 0.00043	11.90 1.01433 0.00044
		11.95 1.01785 0.00046
		12.00 1.02105 0.00046

90	100	118
10.00 0.91472 0.00045	9.90 0.92301 0.00045	9.50 0.91574 0.00047
10.05 0.91949 0.00045	9.95 0.92653 0.00045	9.55 0.91939 0.00046
10.10 0.92228 0.00046	10.00 0.93154 0.00045	9.60 0.92321 0.00046
10.15 0.92577 0.00045	10.05 0.93468 0.00044	9.65 0.92743 0.00047
10.20 0.92935 0.00045	10.10 0.93853 0.00047	9.70 0.93034 0.00045
10.25 0.93300 0.00045	10.15 0.94204 0.00045	9.80 0.93694 0.00045
10.30 0.93620 0.00044	10.20 0.94491 0.00046	9.85 0.94147 0.00047
10.35 0.93905 0.00045	10.25 0.94881 0.00047	9.90 0.94473 0.00046
10.45 0.94623 0.00045	10.40 0.95824 0.00046	9.95 0.94862 0.00047
10.50 0.94940 0.00045	10.45 0.96163 0.00046	10.00 0.95255 0.00048
10.55 0.95247 0.00046	10.50 0.96577 0.00045	10.05 0.95582 0.00046
10.60 0.95622 0.00047	10.55 0.96806 0.00047	10.10 0.95895 0.00046
10.65 0.95883 0.00045	10.60 0.97210 0.00047	10.15 0.96254 0.00047
10.70 0.96297 0.00044	10.65 0.97555 0.00045	10.20 0.96728 0.00047
10.75 0.96677 0.00045	10.70 0.97878 0.00045	10.25 0.97057 0.00046
10.80 0.96911 0.00045	10.75 0.98220 0.00046	10.30 0.97309 0.00046
10.85 0.97258 0.00046	10.80 0.98499 0.00046	10.35 0.97621 0.00047
10.90 0.97530 0.00045	10.85 0.98875 0.00046	10.40 0.98065 0.00047
10.95 0.97874 0.00045	10.95 0.99574 0.00047	10.45 0.98396 0.00047
11.00 0.98201 0.00045	11.00 0.99768 0.00045	10.50 0.98771 0.00048
11.05 0.98481 0.00046	11.05 1.00185 0.00047	10.55 0.99010 0.00047
11.10 0.98844 0.00045	11.15 1.00757 0.00047	10.60 0.99338 0.00047
11.15 0.99082 0.00046	11.20 1.01141 0.00047	10.65 0.99759 0.00047

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11.20 0.99438 0.00045	11.25 1.01413 0.00047	10.70 0.99999 0.00047
11.25 0.99687 0.00045	11.30 1.01728 0.00046	10.75 1.00344 0.00045
11.30 1.00068 0.00045	11.35 1.02020 0.00045	10.80 1.00741 0.00048
11.35 1.00381 0.00045	11.40 1.02334 0.00046	10.85 1.01098 0.00046
11.40 1.00626 0.00045		10.90 1.01381 0.00047
11.45 1.00966 0.00046		10.95 1.01754 0.00047
11.50 1.01204 0.00045		11.00 1.01951 0.00048
11.55 1.01498 0.00043		
11.60 1.01811 0.00046		

130	150	200
9.40 0.91938 0.00047	9.20 0.91810 0.00046	8.90 0.91644 0.00047
9.45 0.92296 0.00047	9.25 0.92179 0.00047	8.95 0.91984 0.00048
9.50 0.92676 0.00046	9.30 0.92600 0.00047	9.00 0.92435 0.00048
9.55 0.93094 0.00048	9.35 0.92980 0.00047	9.05 0.92815 0.00048
9.65 0.93903 0.00048	9.40 0.93431 0.00046	9.10 0.93183 0.00048
9.70 0.94130 0.00047	9.45 0.93784 0.00047	9.15 0.93599 0.00048
9.75 0.94642 0.00047	9.50 0.94213 0.00048	9.20 0.94053 0.00047
9.80 0.94895 0.00048	9.55 0.94485 0.00047	9.25 0.94421 0.00047
9.85 0.95275 0.00046	9.60 0.94939 0.00048	9.30 0.94813 0.00047
9.90 0.95696 0.00047	9.65 0.95233 0.00048	9.35 0.95195 0.00048
9.95 0.95960 0.00047	9.70 0.95572 0.00047	9.40 0.95526 0.00048
10.00 0.96301 0.00047	9.75 0.96065 0.00048	9.45 0.95953 0.00048
10.05 0.96825 0.00047	9.80 0.96380 0.00048	9.50 0.96336 0.00049
10.10 0.97162 0.00048	9.85 0.96812 0.00048	9.55 0.96761 0.00049
10.15 0.97467 0.00047	9.90 0.97096 0.00048	9.60 0.97040 0.00049
10.20 0.97806 0.00048	9.95 0.97364 0.00047	9.65 0.97459 0.00048
10.25 0.98171 0.00047	10.00 0.97834 0.00048	9.70 0.97816 0.00047
10.30 0.98450 0.00047	10.05 0.98156 0.00048	9.75 0.98094 0.00048
10.35 0.98843 0.00049	10.10 0.98580 0.00049	9.80 0.98530 0.00049
10.40 0.99186 0.00048	10.15 0.98892 0.00049	9.85 0.98855 0.00049
10.45 0.99545 0.00047	10.20 0.99252 0.00048	9.95 0.99712 0.00047
10.50 0.99899 0.00047	10.25 0.99681 0.00048	10.00 1.00005 0.00050
10.55 1.00243 0.00046	10.30 0.99961 0.00048	10.05 1.00466 0.00049
10.60 1.00517 0.00046	10.35 1.00283 0.00046	10.10 1.00709 0.00049
10.65 1.00983 0.00047	10.40 1.00723 0.00047	10.15 1.01104 0.00050
10.70 1.01233 0.00045	10.45 1.00944 0.00047	10.20 1.01481 0.00049
10.75 1.01480 0.00047	10.50 1.01356 0.00049	10.25 1.01792 0.00049
10.80 1.01953 0.00046	10.55 1.01669 0.00048	10.30 1.02135 0.00048
	10.60 1.01983 0.00049	

235	250	353
8.80 0.91588 0.00048	8.80 0.91808 0.00049	8.70 0.91614 0.00051
8.85 0.92096 0.00048	8.90 0.92668 0.00048	8.75 0.92107 0.00048
8.90 0.92422 0.00050	8.95 0.93117 0.00049	8.80 0.92501 0.00049
8.95 0.92912 0.00048	9.00 0.93531 0.00047	8.85 0.92827 0.00048
9.00 0.93333 0.00048	9.05 0.93972 0.00048	8.90 0.93271 0.00047

9.05 0.93693 0.00048	9.10 0.94305 0.00049	8.95 0.93600 0.00049
9.10 0.94103 0.00049	9.15 0.94715 0.00049	9.00 0.94178 0.00049
9.15 0.94428 0.00049	9.20 0.95100 0.00048	9.05 0.94514 0.00050
9.20 0.94942 0.00050	9.25 0.95475 0.00049	9.10 0.94875 0.00049
9.25 0.95270 0.00049	9.30 0.95947 0.00049	9.15 0.95215 0.00050
9.30 0.95697 0.00050	9.35 0.96308 0.00049	9.20 0.95636 0.00048
9.35 0.96092 0.00049	9.40 0.96630 0.00049	9.25 0.96030 0.00049
9.40 0.96433 0.00049	9.45 0.97018 0.00050	9.30 0.96428 0.00049
9.45 0.96867 0.00049	9.50 0.97445 0.00048	9.35 0.96756 0.00049
9.50 0.97231 0.00049	9.55 0.97795 0.00049	9.40 0.97175 0.00051
9.55 0.97611 0.00047	9.60 0.98075 0.00048	9.45 0.97512 0.00048
9.60 0.98098 0.00047	9.65 0.98432 0.00048	9.50 0.97984 0.00050
9.65 0.98346 0.00049	9.70 0.98885 0.00049	9.55 0.98359 0.00049
9.70 0.98710 0.00048	9.75 0.99300 0.00049	9.60 0.98581 0.00048
9.75 0.99099 0.00048	9.80 0.99610 0.00049	9.65 0.99054 0.00050
9.80 0.99481 0.00049	9.85 1.00032 0.00050	9.70 0.99469 0.00049
10.00 1.00858 0.00051	9.90 1.00296 0.00050	9.75 0.99783 0.00049
10.05 1.01212 0.00051	9.95 1.00692 0.00050	9.80 1.00073 0.00048
10.10 1.01571 0.00049	10.00 1.01039 0.00048	9.85 1.00426 0.00051
10.15 1.01955 0.00050	10.05 1.01427 0.00050	9.90 1.00791 0.00050
10.20 1.02368 0.00049	10.10 1.01841 0.00050	9.95 1.01187 0.00049
	10.15 1.02083 0.00050	10.00 1.01622 0.00049
	10.20 1.02447 0.00048	10.05 1.01976 0.00049
		10.10 1.02213 0.00050

470	500	510
8.80 0.91999 0.00049	8.80 0.91694 0.00049	8.80 0.91550 0.00049
8.85 0.92337 0.00048	8.85 0.91988 0.00048	8.85 0.91895 0.00048
8.90 0.92748 0.00048	8.90 0.92387 0.00050	8.90 0.92264 0.00048
8.95 0.93138 0.00049	8.95 0.92658 0.00048	8.95 0.92625 0.00048
9.00 0.93429 0.00049	9.00 0.93243 0.00050	9.05 0.93440 0.00048
9.05 0.94031 0.00049	9.05 0.93636 0.00049	9.10 0.93800 0.00049
9.10 0.94301 0.00049	9.10 0.93936 0.00049	9.15 0.94168 0.00048
9.15 0.94744 0.00048	9.15 0.94375 0.00048	9.20 0.94547 0.00048
9.20 0.95121 0.00048	9.20 0.94779 0.00050	9.25 0.94983 0.00048
9.25 0.95431 0.00048	9.25 0.95123 0.00049	9.30 0.95367 0.00049
9.30 0.95792 0.00049	9.30 0.95440 0.00050	9.35 0.95606 0.00049
9.35 0.96199 0.00049	9.35 0.95808 0.00049	9.40 0.96106 0.00049
9.40 0.96525 0.00048	9.40 0.96203 0.00048	9.45 0.96400 0.00047
9.45 0.96832 0.00049	9.45 0.96562 0.00050	9.50 0.96764 0.00050
9.50 0.97319 0.00049	9.50 0.96903 0.00050	9.55 0.97128 0.00049
9.55 0.97688 0.00049	9.55 0.97242 0.00049	9.60 0.97474 0.00049
9.60 0.98008 0.00049	9.60 0.97612 0.00048	9.65 0.97831 0.00049
9.65 0.98346 0.00049	9.65 0.97926 0.00049	9.70 0.98240 0.00048
9.70 0.98750 0.00049	9.70 0.98315 0.00049	9.75 0.98623 0.00050
9.75 0.99113 0.00049	9.75 0.98724 0.00051	9.80 0.98863 0.00048
9.80 0.99400 0.00050	9.80 0.99009 0.00049	9.85 0.99266 0.00048
9.90 1.00149 0.00049	9.85 0.99477 0.00049	9.90 0.99627 0.00048
9.95 1.00430 0.00050	9.90 0.99761 0.00049	9.95 0.99944 0.00049

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10.00 1.00802 0.00050	9.95 1.00018 0.00049	10.00 1.00285 0.00049
10.05 1.01207 0.00049	10.00 1.00313 0.00048	10.05 1.00707 0.00048
10.10 1.01513 0.00049	10.05 1.00679 0.00050	10.10 1.00952 0.00049
10.15 1.01780 0.00048	10.10 1.01052 0.00048	10.15 1.01338 0.00048
10.20 1.02121 0.00050	10.15 1.01439 0.00049	10.20 1.01684 0.00050
	10.20 1.01752 0.00049	10.25 1.01894 0.00049
	10.25 1.02091 0.00049	10.30 1.02335 0.00048
	10.30 1.02448 0.00049	

520	530	540
8.90 0.92226 0.00050	8.90 0.92084 0.00048	8.90 0.91975 0.00048
8.95 0.92495 0.00048	8.95 0.92507 0.00048	8.95 0.92445 0.00048
9.00 0.92909 0.00049	9.00 0.92844 0.00048	9.00 0.92746 0.00047
9.05 0.93276 0.00049	9.10 0.93640 0.00050	9.05 0.93000 0.00048
9.10 0.93689 0.00048	9.15 0.93944 0.00048	9.10 0.93405 0.00048
9.15 0.94116 0.00047	9.20 0.94291 0.00048	9.15 0.93921 0.00050
9.20 0.94514 0.00048	9.25 0.94714 0.00047	9.20 0.94232 0.00048
9.25 0.94795 0.00047	9.30 0.95034 0.00049	9.25 0.94598 0.00048
9.30 0.95221 0.00050	9.35 0.95472 0.00048	9.30 0.94960 0.00050
9.35 0.95693 0.00048	9.40 0.95788 0.00049	9.35 0.95365 0.00048
9.40 0.95937 0.00048	9.45 0.96189 0.00050	9.40 0.95675 0.00048
9.45 0.96291 0.00050	9.50 0.96501 0.00049	9.45 0.96077 0.00048
9.50 0.96679 0.00049	9.55 0.96805 0.00049	9.50 0.96421 0.00048
9.55 0.97016 0.00049	9.60 0.97241 0.00048	9.55 0.96811 0.00048
9.60 0.97407 0.00049	9.65 0.97641 0.00049	9.60 0.97149 0.00051
9.65 0.97755 0.00049	9.70 0.97996 0.00050	9.65 0.97512 0.00049
9.70 0.98066 0.00049	9.75 0.98261 0.00050	9.70 0.97902 0.00050
9.75 0.98407 0.00050	9.85 0.99101 0.00049	9.75 0.98192 0.00048
9.80 0.98823 0.00048	9.90 0.99403 0.00049	9.80 0.98539 0.00049
9.85 0.99136 0.00050	9.95 0.99683 0.00049	9.85 0.98897 0.00049
9.90 0.99515 0.00050	10.00 1.00020 0.00048	9.90 0.99258 0.00048
9.95 0.99854 0.00048	10.05 1.00417 0.00048	9.95 0.99601 0.00047
10.00 1.00266 0.00049	10.10 1.00747 0.00049	10.05 1.00232 0.00049
10.05 1.00524 0.00048	10.15 1.01008 0.00050	10.10 1.00683 0.00050
10.10 1.00847 0.00047	10.20 1.01431 0.00050	10.15 1.01040 0.00049
10.15 1.01259 0.00049	10.25 1.01717 0.00049	10.20 1.01345 0.00049
10.20 1.01480 0.00049	10.30 1.02103 0.00051	10.25 1.01622 0.00049
10.25 1.01905 0.00049		10.30 1.01999 0.00050
10.30 1.02252 0.00049		

550	560
8.90 0.91805 0.00047	8.90 0.91758 0.00048
8.95 0.92248 0.00047	8.95 0.92125 0.00051
9.00 0.92545 0.00049	9.00 0.92499 0.00049
9.05 0.93026 0.00049	9.05 0.92942 0.00049
9.10 0.93326 0.00049	9.10 0.93320 0.00050
9.15 0.93635 0.00049	9.15 0.93604 0.00050

9.20 0.94101 0.00049	9.20 0.94004 0.00049
9.25 0.94470 0.00049	9.25 0.94343 0.00049
9.30 0.94882 0.00049	9.30 0.94798 0.00048
9.35 0.95179 0.00049	9.35 0.95151 0.00048
9.40 0.95543 0.00049	9.40 0.95506 0.00048
9.45 0.96014 0.00048	9.45 0.95808 0.00049
9.50 0.96311 0.00049	9.50 0.96247 0.00049
9.55 0.96658 0.00048	9.55 0.96457 0.00049
9.65 0.97363 0.00049	9.60 0.96882 0.00050
9.70 0.97696 0.00049	9.65 0.97213 0.00047
9.75 0.98044 0.00048	9.70 0.97561 0.00049
9.80 0.98367 0.00048	9.75 0.98033 0.00048
9.85 0.98893 0.00049	9.80 0.98258 0.00049
9.90 0.99040 0.00049	9.85 0.98716 0.00047
9.95 0.99489 0.00048	9.90 0.98887 0.00049
10.00 0.99857 0.00049	9.95 0.99310 0.00050
10.05 1.00148 0.00049	10.00 0.99684 0.00048
10.10 1.00498 0.00048	10.05 0.99990 0.00049
10.15 1.00846 0.00050	10.10 1.00331 0.00050
10.20 1.01083 0.00050	10.15 1.00634 0.00050
10.25 1.01529 0.00049	10.20 1.01045 0.00049
10.30 1.01879 0.00050	10.25 1.01415 0.00048
10.35 1.02208 0.00049	10.30 1.01653 0.00049
10.40 1.02424 0.00048	10.35 1.01955 0.00050
	10.40 1.02376 0.00049

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12	15	20
147.80 0.86174 0.00012	58.40 0.92945 0.00018	28.80 0.92639 0.00027
161.10 0.86292 0.00012	62.10 0.93456 0.00017	29.30 0.93157 0.00028
174.40 0.86403 0.00012	65.80 0.94002 0.00017	29.80 0.93696 0.00027
187.70 0.86424 0.00012	69.50 0.94306 0.00017	30.30 0.94215 0.00028
201.00 0.86537 0.00012	73.20 0.94702 0.00016	30.80 0.94710 0.00027
214.30 0.86652 0.00011	76.90 0.94952 0.00016	31.30 0.95109 0.00026
227.60 0.86628 0.00012	80.60 0.95265 0.00015	31.80 0.95573 0.00027
240.90 0.86683 0.00011	84.30 0.95536 0.00015	32.30 0.96002 0.00027
254.20 0.86687 0.00012	88.00 0.95736 0.00015	32.80 0.96405 0.00027
267.50 0.86730 0.00011	91.70 0.95912 0.00015	33.30 0.96798 0.00026
280.80 0.86761 0.00011	95.40 0.96039 0.00015	33.80 0.97209 0.00026
294.10 0.86775 0.00011	99.10 0.96186 0.00015	34.30 0.97564 0.00026
307.40 0.86812 0.00011	102.80 0.96384 0.00014	34.80 0.97986 0.00025
320.70 0.86801 0.00011	106.50 0.96535 0.00015	35.30 0.98282 0.00026
334.00 0.86835 0.00011	110.20 0.96529 0.00014	35.80 0.98677 0.00025
347.30 0.86862 0.00011	113.90 0.96659 0.00014	36.30 0.98996 0.00025
360.60 0.86833 0.00011	117.60 0.96775 0.00014	36.80 0.99284 0.00025
373.90 0.86864 0.00011	125.00 0.96918 0.00014	37.30 0.99591 0.00025
387.20 0.86857 0.00011	132.40 0.97064 0.00013	37.80 0.99871 0.00025
400.50 0.86840 0.00011	133.40 0.97030 0.00013	38.30 1.00148 0.00024
413.80 0.86916 0.00011		38.80 1.00452 0.00025
414.60 0.86859 0.00011		39.30 1.00679 0.00025

39.80 1.00972 0.00024
 40.30 1.01248 0.00024
 40.40 1.01207 0.00024

25	30	32
22.70 0.92377 0.00034	19.90 0.92242 0.00037	19.10 0.92067 0.00038
23.00 0.92968 0.00033	20.10 0.92864 0.00036	19.20 0.92331 0.00038
23.30 0.93532 0.00033	20.30 0.93298 0.00037	19.30 0.92679 0.00037
23.60 0.94079 0.00033	20.50 0.93867 0.00036	19.40 0.93048 0.00037
23.90 0.94661 0.00032	20.70 0.94336 0.00037	19.50 0.93189 0.00039
24.20 0.95138 0.00032	20.90 0.94797 0.00036	19.60 0.93557 0.00037
24.50 0.95770 0.00033	21.10 0.95347 0.00035	19.70 0.93758 0.00038
24.80 0.96235 0.00032	21.30 0.95832 0.00036	19.80 0.94154 0.00038
25.10 0.96640 0.00031	21.50 0.96354 0.00036	19.90 0.94451 0.00037
25.40 0.97169 0.00032	21.70 0.96846 0.00034	20.00 0.94736 0.00037
25.70 0.97629 0.00031	21.90 0.97217 0.00035	20.10 0.94964 0.00038
26.00 0.98072 0.00032	22.10 0.97759 0.00036	20.20 0.95223 0.00037
26.30 0.98546 0.00031	22.30 0.98219 0.00035	20.30 0.95475 0.00037
26.60 0.98949 0.00032	22.50 0.98599 0.00035	20.40 0.95865 0.00037
26.90 0.99377 0.00031	22.70 0.98945 0.00037	20.50 0.96023 0.00038
27.20 0.99763 0.00031	22.90 0.99409 0.00035	20.60 0.96354 0.00036
27.50 1.00247 0.00031	23.10 0.99833 0.00036	20.70 0.96615 0.00036
27.80 1.00642 0.00031	23.30 1.00260 0.00035	20.80 0.96799 0.00036
28.10 1.00982 0.00030	23.50 1.00591 0.00035	20.90 0.97081 0.00038
28.40 1.01370 0.00030	23.70 1.01145 0.00035	21.00 0.97372 0.00038
28.50 1.01522 0.00030	23.90 1.01508 0.00034	21.10 0.97485 0.00036
	24.00 1.01664 0.00035	21.20 0.97806 0.00037
		21.30 0.98133 0.00037
		21.40 0.98311 0.00037
		21.50 0.98552 0.00037
		21.60 0.98834 0.00036
		21.70 0.99023 0.00037
		21.90 0.99510 0.00036
		22.00 0.99690 0.00036
		22.10 0.99929 0.00036
		22.20 1.00159 0.00037
		22.30 1.00474 0.00036
		22.40 1.00719 0.00036
		22.50 1.00889 0.00037
		22.60 1.01133 0.00035
		22.70 1.01322 0.00036
		22.80 1.01523 0.00036

35	40	50
18.30 0.92307 0.00039	17.10 0.91977 0.00041	15.70 0.91782 0.00043
18.40 0.92634 0.00038	17.20 0.92335 0.00041	15.80 0.92264 0.00044
18.50 0.92978 0.00039	17.30 0.92761 0.00041	15.90 0.92743 0.00044
18.60 0.93250 0.00040	17.40 0.93152 0.00041	16.00 0.93085 0.00044
18.70 0.93665 0.00038	17.50 0.93498 0.00042	16.10 0.93594 0.00044
18.80 0.93974 0.00039	17.60 0.93872 0.00041	16.20 0.94001 0.00044
18.90 0.94186 0.00038	17.70 0.94244 0.00040	16.30 0.94551 0.00045
19.00 0.94688 0.00038	17.80 0.94626 0.00041	16.40 0.94965 0.00045
19.10 0.94980 0.00040	17.90 0.94905 0.00040	16.50 0.95416 0.00043
19.20 0.95250 0.00040	18.00 0.95329 0.00040	16.70 0.96249 0.00044
19.30 0.95529 0.00038	18.10 0.95655 0.00042	16.80 0.96753 0.00044
19.40 0.95752 0.00039	18.20 0.95980 0.00041	16.90 0.97077 0.00045
19.50 0.96076 0.00039	18.30 0.96388 0.00042	17.00 0.97523 0.00044
19.60 0.96421 0.00038	18.40 0.96647 0.00040	17.30 0.98733 0.00043
19.70 0.96683 0.00038	18.50 0.97061 0.00041	17.40 0.99164 0.00044
19.80 0.96930 0.00039	18.60 0.97429 0.00041	17.50 0.99534 0.00044
20.00 0.97622 0.00038	18.70 0.97754 0.00039	17.60 1.00058 0.00045
20.10 0.97865 0.00038	18.80 0.98103 0.00041	17.70 1.00368 0.00043
20.20 0.98179 0.00040	18.90 0.98291 0.00040	17.80 1.00729 0.00044
20.30 0.98384 0.00039	19.00 0.98679 0.00040	17.90 1.01093 0.00044
20.40 0.98687 0.00039	19.10 0.99028 0.00041	18.00 1.01468 0.00044
20.50 0.98992 0.00039	19.20 0.99323 0.00041	18.10 1.01873 0.00042
20.60 0.99268 0.00039	19.30 0.99685 0.00041	
20.70 0.99577 0.00039	19.40 0.99970 0.00041	
20.80 0.99814 0.00038	19.50 1.00377 0.00040	
20.90 0.99998 0.00038	19.60 1.00619 0.00040	
21.00 1.00291 0.00037	19.70 1.00845 0.00040	
21.10 1.00602 0.00038	19.80 1.01199 0.00041	
21.20 1.00786 0.00038	19.90 1.01465 0.00041	
21.30 1.01153 0.00039	20.00 1.01806 0.00040	
21.40 1.01359 0.00038		
21.50 1.01508 0.00037		

60	70	80
14.90 0.91961 0.00046	14.30 0.91588 0.00047	14.20 0.93348 0.00049
15.00 0.92476 0.00045	14.40 0.92107 0.00047	14.30 0.93895 0.00050
15.10 0.92941 0.00047	14.50 0.92796 0.00048	14.40 0.94380 0.00049
15.20 0.93438 0.00046	14.60 0.93293 0.00049	14.50 0.95012 0.00048
15.30 0.93949 0.00046	14.70 0.93888 0.00047	14.60 0.95626 0.00049
15.60 0.95494 0.00047	14.80 0.94443 0.00049	14.70 0.96269 0.00050
15.70 0.95922 0.00047	14.90 0.94907 0.00048	14.90 0.97377 0.00050
15.80 0.96446 0.00046	15.00 0.95526 0.00049	15.00 0.97926 0.00050
15.90 0.96865 0.00045	15.10 0.96135 0.00048	15.20 0.98938 0.00049
16.00 0.97446 0.00046	15.20 0.96523 0.00048	15.30 0.99354 0.00049
16.10 0.97852 0.00046	15.40 0.97605 0.00046	15.40 0.99902 0.00049
16.20 0.98391 0.00047	15.50 0.98130 0.00047	15.50 1.00397 0.00049
16.30 0.98745 0.00046	15.60 0.98682 0.00048	15.70 1.01501 0.00050
16.40 0.99206 0.00046	15.70 0.99162 0.00047	15.80 1.02108 0.00050

16.50 0.99675 0.00045	15.80 0.99618 0.00048
16.60 1.00079 0.00045	15.90 1.00193 0.00048
16.70 1.00600 0.00045	16.00 1.00560 0.00048
16.80 1.01044 0.00047	16.10 1.01058 0.00048
16.90 1.01382 0.00045	16.20 1.01508 0.00048
17.00 1.01893 0.00047	16.30 1.02016 0.00048
17.10 1.02317 0.00046	

90	100	118
13.80 0.92782 0.00050	13.50 0.92343 0.00050	13.10 0.91670 0.00052
13.90 0.93280 0.00051	13.55 0.92582 0.00051	13.15 0.92021 0.00051
14.00 0.93994 0.00050	13.60 0.93019 0.00051	13.20 0.92246 0.00052
14.10 0.94626 0.00050	13.65 0.93231 0.00052	13.25 0.92594 0.00052
14.20 0.95168 0.00051	13.70 0.93563 0.00051	13.30 0.92918 0.00052
14.30 0.95861 0.00049	13.75 0.93897 0.00051	13.35 0.93243 0.00052
14.40 0.96236 0.00050	13.80 0.94265 0.00051	13.40 0.93575 0.00051
14.50 0.96916 0.00052	13.85 0.94435 0.00051	13.45 0.93886 0.00052
14.60 0.97423 0.00050	13.90 0.94831 0.00051	13.50 0.94283 0.00052
14.80 0.98652 0.00050	13.95 0.95177 0.00049	13.55 0.94621 0.00051
14.90 0.99179 0.00049	14.00 0.95477 0.00050	13.60 0.94847 0.00053
15.00 0.99733 0.00049	14.05 0.95703 0.00052	13.65 0.95347 0.00052
15.10 1.00325 0.00049	14.10 0.96077 0.00050	13.70 0.95529 0.00052
15.20 1.00776 0.00049	14.15 0.96346 0.00051	13.75 0.95769 0.00051
15.30 1.01317 0.00049	14.20 0.96666 0.00050	13.80 0.96130 0.00053
15.40 1.01944 0.00051	14.25 0.96955 0.00051	13.85 0.96445 0.00050
15.50 1.02474 0.00051	14.30 0.97281 0.00051	13.90 0.96852 0.00051
	14.35 0.97613 0.00052	13.95 0.97105 0.00054
	14.40 0.97922 0.00051	14.00 0.97472 0.00051
	14.45 0.98245 0.00051	14.05 0.97777 0.00051
	14.50 0.98443 0.00052	14.20 0.98602 0.00052
	14.55 0.98886 0.00051	14.25 0.99070 0.00051
	14.60 0.99035 0.00051	14.30 0.99293 0.00052
	14.65 0.99369 0.00051	14.35 0.99565 0.00052
	14.70 0.99623 0.00052	14.40 0.99747 0.00051
	14.75 0.99775 0.00049	14.55 1.00773 0.00052
	14.90 1.00727 0.00051	14.60 1.01178 0.00052
	14.95 1.01077 0.00051	14.65 1.01345 0.00052
	15.00 1.01336 0.00051	14.70 1.01681 0.00052
	15.05 1.01619 0.00052	14.75 1.01878 0.00053
	15.10 1.01841 0.00051	14.80 1.02268 0.00053
	15.15 1.02234 0.00051	
	15.20 1.02463 0.00052	

130	150	200
13.00 0.91927 0.00052	12.95 0.92739 0.00053	12.60 0.91697 0.00055
13.05 0.92253 0.00051	13.00 0.93161 0.00052	12.65 0.92104 0.00054
13.10 0.92637 0.00054	13.05 0.93444 0.00055	12.70 0.92508 0.00054

13.15 0.92954 0.00054	13.10 0.93747 0.00054	12.75 0.92740 0.00055
13.20 0.93221 0.00053	13.15 0.94164 0.00052	12.80 0.93188 0.00053
13.25 0.93612 0.00053	13.20 0.94480 0.00054	12.85 0.93520 0.00054
13.30 0.93947 0.00053	13.25 0.94744 0.00053	12.90 0.93819 0.00055
13.35 0.94243 0.00053	13.35 0.95481 0.00054	12.95 0.94316 0.00053
13.40 0.94692 0.00052	13.40 0.95692 0.00052	13.05 0.95035 0.00054
13.45 0.94871 0.00051	13.45 0.96078 0.00052	13.10 0.95288 0.00055
13.50 0.95239 0.00053	13.50 0.96530 0.00053	13.15 0.95752 0.00053
13.55 0.95623 0.00053	13.55 0.96898 0.00053	13.20 0.95976 0.00053
13.60 0.95879 0.00052	13.70 0.97778 0.00053	13.30 0.96702 0.00052
13.65 0.96235 0.00052	13.75 0.98147 0.00054	13.40 0.97417 0.00056
13.70 0.96531 0.00053	13.80 0.98462 0.00052	13.45 0.97719 0.00053
13.75 0.96907 0.00052	13.85 0.98793 0.00053	13.50 0.98130 0.00055
13.80 0.97099 0.00052	13.90 0.99048 0.00055	13.55 0.98402 0.00055
13.85 0.97591 0.00053	13.95 0.99502 0.00054	13.65 0.99074 0.00053
13.90 0.97894 0.00052	14.00 0.99803 0.00054	13.70 0.99358 0.00055
13.95 0.98172 0.00052	14.05 1.00003 0.00055	13.75 0.99661 0.00054
14.00 0.98515 0.00054	14.10 1.00386 0.00054	13.80 1.00112 0.00055
14.05 0.98782 0.00054	14.15 1.00732 0.00053	13.85 1.00261 0.00055
14.10 0.99066 0.00052	14.20 1.01088 0.00052	13.90 1.00629 0.00056
14.15 0.99512 0.00052	14.25 1.01278 0.00054	13.95 1.01023 0.00054
14.20 0.99843 0.00052	14.30 1.01636 0.00054	14.00 1.01387 0.00055
14.25 1.00095 0.00052	14.35 1.01848 0.00054	14.05 1.01714 0.00054
14.30 1.00339 0.00053		14.10 1.01868 0.00053
14.35 1.00685 0.00054		
14.40 1.00976 0.00052		
14.45 1.01187 0.00051		
14.50 1.01551 0.00052		
14.55 1.01924 0.00053		
14.60 1.02137 0.00053		

235	250	353
12.50 0.91418 0.00056	12.50 0.91426 0.00057	12.70 0.92136 0.00055
12.55 0.91775 0.00054	12.55 0.91774 0.00055	12.75 0.92514 0.00054
12.60 0.92100 0.00055	12.65 0.92422 0.00055	12.80 0.92824 0.00055
12.65 0.92537 0.00055	12.70 0.92926 0.00054	12.85 0.93226 0.00054
12.70 0.92989 0.00054	12.75 0.93258 0.00055	12.90 0.93503 0.00056
12.75 0.93385 0.00054	12.80 0.93667 0.00054	12.95 0.93854 0.00054
12.80 0.93679 0.00054	12.85 0.94093 0.00053	13.00 0.94191 0.00054
12.85 0.94014 0.00057	12.95 0.94642 0.00052	13.05 0.94642 0.00055
12.90 0.94310 0.00053	13.00 0.95128 0.00054	13.15 0.95326 0.00055
12.95 0.94746 0.00053	13.05 0.95398 0.00055	13.20 0.95663 0.00053
13.00 0.95093 0.00054	13.10 0.95774 0.00056	13.25 0.96020 0.00054
13.05 0.95356 0.00054	13.15 0.96188 0.00055	13.30 0.96325 0.00055
13.10 0.95813 0.00055	13.20 0.96521 0.00055	13.35 0.96714 0.00055
13.15 0.96130 0.00055	13.25 0.96827 0.00055	13.40 0.96873 0.00055
13.20 0.96515 0.00054	13.30 0.97096 0.00053	13.45 0.97288 0.00054
13.25 0.96862 0.00056	13.35 0.97432 0.00054	13.50 0.97687 0.00054
13.30 0.97122 0.00055	13.40 0.97848 0.00055	13.55 0.97957 0.00055

13.35 0.97497 0.00056	13.45 0.98187 0.00054	13.60 0.98336 0.00056
13.40 0.97796 0.00056	13.50 0.98573 0.00053	13.65 0.98620 0.00055
13.45 0.98168 0.00054	13.55 0.98873 0.00057	13.70 0.99060 0.00055
13.50 0.98533 0.00055	13.60 0.99094 0.00053	13.75 0.99353 0.00054
13.55 0.98799 0.00053	13.65 0.99453 0.00054	13.80 0.99610 0.00056
13.60 0.99085 0.00055	13.70 0.99784 0.00056	13.85 0.99957 0.00053
13.65 0.99399 0.00053	13.75 1.00192 0.00056	13.90 1.00391 0.00055
13.70 0.99840 0.00055	13.80 1.00394 0.00055	13.95 1.00566 0.00054
13.75 1.00209 0.00055	13.85 1.00850 0.00056	14.00 1.00997 0.00056
13.80 1.00592 0.00055	13.90 1.01090 0.00055	14.05 1.01270 0.00057
13.85 1.00664 0.00055	13.95 1.01457 0.00053	14.10 1.01526 0.00054
13.90 1.01139 0.00056	14.00 1.01860 0.00055	14.15 1.01987 0.00054
13.95 1.01487 0.00055	14.05 1.02178 0.00054	14.20 1.02262 0.00054
14.00 1.01689 0.00055	14.10 1.02528 0.00054	
14.05 1.01989 0.00054		
14.10 1.02450 0.00053		

470	475	480
13.00 0.91872 0.00053	13.10 0.92202 0.00054	13.15 0.92541 0.00054
13.05 0.92086 0.00053	13.15 0.92679 0.00054	13.20 0.92853 0.00054
13.15 0.92720 0.00053	13.20 0.92959 0.00054	13.30 0.93580 0.00054
13.20 0.93208 0.00054	13.25 0.93348 0.00054	13.35 0.93972 0.00053
13.25 0.93595 0.00054	13.35 0.94012 0.00054	13.40 0.94258 0.00054
13.30 0.93837 0.00053	13.40 0.94399 0.00055	13.45 0.94510 0.00054
13.35 0.94245 0.00055	13.45 0.94620 0.00053	13.55 0.95230 0.00055
13.40 0.94570 0.00053	13.50 0.95084 0.00054	13.60 0.95534 0.00055
13.50 0.95159 0.00055	13.55 0.95409 0.00053	13.65 0.95852 0.00054
13.55 0.95573 0.00054	13.60 0.95714 0.00054	13.70 0.96220 0.00054
13.65 0.96174 0.00054	13.65 0.96041 0.00053	13.75 0.96544 0.00054
13.70 0.96467 0.00055	13.70 0.96332 0.00054	13.80 0.96912 0.00056
13.75 0.96791 0.00054	13.75 0.96636 0.00056	13.85 0.97162 0.00054
13.80 0.97199 0.00054	13.80 0.97020 0.00052	13.90 0.97569 0.00055
13.90 0.97750 0.00054	13.85 0.97380 0.00054	13.95 0.97828 0.00053
13.95 0.98040 0.00052	13.95 0.97885 0.00055	14.00 0.98129 0.00053
14.00 0.98465 0.00054	14.00 0.98250 0.00054	14.05 0.98424 0.00055
14.05 0.98788 0.00056	14.05 0.98602 0.00054	14.10 0.98711 0.00054
14.10 0.99185 0.00054	14.10 0.98909 0.00054	14.15 0.99068 0.00053
14.15 0.99321 0.00054	14.15 0.99270 0.00054	14.20 0.99495 0.00054
14.20 0.99722 0.00054	14.20 0.99594 0.00054	14.25 0.99758 0.00056
14.25 1.00000 0.00056	14.25 0.99936 0.00056	14.30 1.00086 0.00054
14.30 1.00247 0.00056	14.30 1.00189 0.00052	14.35 1.00317 0.00055
14.35 1.00624 0.00053	14.35 1.00459 0.00054	14.40 1.00544 0.00054
14.45 1.01199 0.00054	14.40 1.00758 0.00054	14.45 1.00903 0.00054
14.50 1.01357 0.00055	14.45 1.00988 0.00053	14.50 1.01160 0.00055
14.55 1.01844 0.00054	14.50 1.01269 0.00056	14.55 1.01515 0.00055
14.60 1.02053 0.00055	14.55 1.01673 0.00054	14.60 1.01878 0.00054
	14.60 1.01956 0.00054	14.65 1.02155 0.00054
	14.65 1.02338 0.00055	14.70 1.02452 0.00055
	14.70 1.02475 0.00053	

486	0
13.10 0.91912 0.00054	
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13.25 0.93031 0.00054	
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13.90 0.97290 0.00054	
13.95 0.97611 0.00055	
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14.15 0.98814 0.00055	
14.20 0.99118 0.00056	
14.25 0.99453 0.00055	
14.30 0.99914 0.00054	
14.35 1.00093 0.00053	
14.40 1.00339 0.00054	
14.45 1.00702 0.00053	
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14.65 1.01813 0.00055	
14.70 1.02080 0.00054	
14.75 1.02514 0.00054	
14.80 1.02793 0.00054	

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12	15	20
189.90 0.86474 0.00012	56.50 0.92849 0.00018	27.20 0.92579 0.00027
202.30 0.86582 0.00011	58.40 0.93179 0.00018	27.70 0.93130 0.00027
214.70 0.86626 0.00012	60.30 0.93458 0.00017	28.20 0.93720 0.00027
227.10 0.86681 0.00011	62.20 0.93699 0.00018	28.70 0.94202 0.00026
239.50 0.86668 0.00011	64.10 0.93906 0.00017	29.20 0.94686 0.00027
251.90 0.86658 0.00012	67.90 0.94356 0.00016	29.70 0.95119 0.00026
264.30 0.86753 0.00011	69.80 0.94502 0.00017	30.20 0.95567 0.00026
276.70 0.86773 0.00011	71.70 0.94676 0.00016	30.70 0.96027 0.00026
289.10 0.86735 0.00011	73.60 0.94905 0.00016	31.20 0.96434 0.00026
301.50 0.86805 0.00011	75.50 0.95042 0.00016	31.70 0.96857 0.00025
313.90 0.86755 0.00011	81.20 0.95414 0.00016	32.20 0.97237 0.00026
326.30 0.86871 0.00011	83.10 0.95555 0.00015	32.70 0.97602 0.00026
338.70 0.86833 0.00011	85.00 0.95674 0.00015	33.20 0.97961 0.00025
375.90 0.86797 0.00011	86.90 0.95786 0.00015	33.70 0.98324 0.00025
388.30 0.86849 0.00011	88.80 0.95904 0.00015	34.20 0.98627 0.00025
400.70 0.86886 0.00011	90.70 0.95932 0.00015	34.70 0.98984 0.00025
413.10 0.86872 0.00011	92.60 0.96012 0.00014	35.20 0.99294 0.00024
425.50 0.86872 0.00011	94.50 0.96050 0.00014	35.70 0.99583 0.00024
437.90 0.86913 0.00011	95.00 0.96086 0.00014	36.20 0.99885 0.00024
438.90 0.86898 0.00011		36.70 1.00189 0.00024
		37.20 1.00496 0.00024
		37.70 1.00731 0.00023
		38.20 1.00952 0.00023
		38.70 1.01225 0.00024
		38.90 1.01342 0.00024

25	30	32
21.10 0.92327 0.00032	18.30 0.92250 0.00037	17.60 0.92412 0.00036
21.40 0.92945 0.00032	18.50 0.92755 0.00035	17.70 0.92661 0.00035
21.70 0.93583 0.00031	18.70 0.93347 0.00036	17.80 0.92941 0.00036
22.00 0.94048 0.00032	18.90 0.93846 0.00036	17.90 0.93280 0.00037
22.30 0.94562 0.00031	19.10 0.94350 0.00036	18.00 0.93595 0.00037
22.60 0.95233 0.00032	19.30 0.94851 0.00035	18.10 0.93825 0.00036
22.90 0.95626 0.00031	19.50 0.95277 0.00035	18.20 0.94074 0.00037
23.20 0.96249 0.00031	19.70 0.95846 0.00034	18.40 0.94696 0.00036
23.50 0.96712 0.00031	19.90 0.96353 0.00035	18.50 0.94994 0.00036
23.80 0.97151 0.00031	20.10 0.96810 0.00034	18.60 0.95290 0.00036
24.10 0.97652 0.00031	20.30 0.97229 0.00034	18.70 0.95523 0.00035
24.40 0.98015 0.00031	20.50 0.97691 0.00035	18.80 0.95712 0.00037
24.70 0.98515 0.00030	20.70 0.98089 0.00034	18.90 0.96045 0.00035
25.00 0.99074 0.00030	20.90 0.98603 0.00035	19.00 0.96397 0.00036
25.30 0.99416 0.00031	21.10 0.98942 0.00034	19.10 0.96599 0.00035
25.60 0.99802 0.00030	21.30 0.99526 0.00035	19.30 0.97047 0.00036
25.90 1.00168 0.00031	21.50 0.99885 0.00035	19.40 0.97344 0.00036
26.20 1.00623 0.00031	21.70 1.00277 0.00035	19.50 0.97577 0.00036
26.50 1.01005 0.00029	21.90 1.00630 0.00034	19.60 0.97876 0.00036

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26.80 1.01322 0.00030	22.10 1.01080 0.00034	19.70 0.98051 0.00035
26.90 1.01586 0.00030	22.30 1.01414 0.00034	19.80 0.98335 0.00036
	22.40 1.01664 0.00033	19.90 0.98517 0.00036
		20.00 0.98852 0.00036
		20.10 0.99075 0.00036
		20.20 0.99270 0.00035
		20.30 0.99496 0.00035
		20.40 0.99744 0.00036
		20.60 1.00135 0.00036
		20.70 1.00431 0.00035
		20.80 1.00616 0.00036
		20.90 1.00865 0.00035
		21.00 1.01095 0.00035
		21.10 1.01337 0.00035
		21.20 1.01527 0.00036

35	40	50
16.70 0.92323 0.00038	15.60 0.92350 0.00041	14.20 0.92234 0.00043
16.80 0.92639 0.00038	15.70 0.92751 0.00040	14.40 0.93178 0.00042
16.90 0.92992 0.00037	15.80 0.93115 0.00040	14.50 0.93752 0.00042
17.00 0.93381 0.00039	15.90 0.93428 0.00040	14.60 0.94151 0.00043
17.10 0.93592 0.00038	16.00 0.93893 0.00039	14.70 0.94597 0.00043
17.20 0.93901 0.00037	16.10 0.94276 0.00040	14.90 0.95422 0.00044
17.30 0.94264 0.00038	16.20 0.94617 0.00039	15.00 0.95851 0.00044
17.40 0.94626 0.00037	16.40 0.95321 0.00039	15.10 0.96236 0.00042
17.50 0.94911 0.00037	16.50 0.95668 0.00039	15.20 0.96645 0.00043
17.60 0.95202 0.00037	16.60 0.96078 0.00040	15.30 0.97154 0.00043
17.70 0.95579 0.00038	16.70 0.96320 0.00040	15.40 0.97494 0.00041
17.80 0.95890 0.00037	16.80 0.96660 0.00040	15.50 0.97963 0.00042
17.90 0.96106 0.00037	16.90 0.97086 0.00038	15.70 0.98722 0.00043
18.00 0.96435 0.00038	17.00 0.97399 0.00039	15.80 0.99140 0.00042
18.10 0.96740 0.00037	17.10 0.97637 0.00039	15.90 0.99499 0.00043
18.20 0.97021 0.00037	17.20 0.98051 0.00038	16.00 0.99975 0.00043
18.30 0.97297 0.00037	17.30 0.98449 0.00039	16.10 1.00338 0.00042
18.40 0.97619 0.00037	17.40 0.98740 0.00040	16.20 1.00768 0.00043
18.50 0.97815 0.00037	17.50 0.99069 0.00039	16.30 1.01100 0.00042
18.60 0.98163 0.00037	17.60 0.99374 0.00038	16.40 1.01450 0.00043
18.70 0.98347 0.00037	17.70 0.99721 0.00040	16.50 1.01905 0.00043
18.80 0.98651 0.00037	17.80 1.00056 0.00038	
18.90 0.98934 0.00037	17.90 1.00288 0.00039	
19.00 0.99314 0.00037	18.00 1.00587 0.00039	
19.10 0.99590 0.00037	18.10 1.00935 0.00040	
19.20 0.99831 0.00037	18.20 1.01257 0.00039	
19.30 1.00042 0.00036	18.30 1.01519 0.00039	
19.40 1.00266 0.00038		
19.50 1.00592 0.00036		
19.60 1.00866 0.00036		
19.70 1.01047 0.00037		
19.80 1.01339 0.00037		
19.90 1.01594 0.00036		
20.00 1.01857 0.00036		

60	70	80
13.30 0.92030 0.00045	12.70 0.91653 0.00046	12.30 0.91509 0.00049
13.40 0.92419 0.00045	12.80 0.92253 0.00047	12.40 0.92237 0.00047
13.50 0.92980 0.00046	12.90 0.92875 0.00047	12.50 0.92945 0.00046
13.60 0.93521 0.00046	13.00 0.93362 0.00045	12.70 0.93945 0.00048
13.70 0.94036 0.00045	13.10 0.93993 0.00046	12.90 0.95029 0.00048
14.00 0.95493 0.00044	13.40 0.95579 0.00047	13.00 0.95800 0.00047
14.10 0.95956 0.00045	13.60 0.96659 0.00045	13.10 0.96430 0.00048
14.20 0.96531 0.00044	13.70 0.97170 0.00046	13.20 0.96859 0.00047
14.30 0.96969 0.00045	13.80 0.97658 0.00046	13.30 0.97480 0.00048
14.40 0.97614 0.00045	13.90 0.98207 0.00046	13.40 0.97889 0.00047
14.50 0.97846 0.00045	14.00 0.98660 0.00045	13.50 0.98522 0.00048
14.60 0.98382 0.00044	14.10 0.99268 0.00045	13.60 0.99076 0.00047
14.70 0.98839 0.00046	14.20 0.99687 0.00047	13.70 0.99538 0.00047
14.80 0.99208 0.00044	14.30 1.00161 0.00046	13.80 1.00107 0.00047
14.90 0.99746 0.00043	14.40 1.00685 0.00048	13.90 1.00678 0.00048
15.00 1.00200 0.00044	14.50 1.01137 0.00046	14.00 1.01139 0.00047
15.20 1.01086 0.00046	14.60 1.01637 0.00046	14.10 1.01664 0.00047
15.30 1.01442 0.00043	14.70 1.02175 0.00047	14.20 1.02119 0.00047

90	100	118
12.10 0.92213 0.00049	11.80 0.91913 0.00050	11.70 0.93079 0.00050
12.15 0.92536 0.00048	11.85 0.92058 0.00049	11.75 0.93379 0.00049
12.20 0.92815 0.00048	11.90 0.92510 0.00048	11.85 0.94020 0.00050
12.25 0.93113 0.00049	11.95 0.92721 0.00048	11.90 0.94427 0.00049
12.30 0.93486 0.00048	12.05 0.93408 0.00049	11.95 0.94724 0.00050
12.35 0.93829 0.00047	12.10 0.93704 0.00050	12.00 0.95124 0.00049
12.40 0.94019 0.00048	12.15 0.94069 0.00050	12.05 0.95393 0.00051
12.45 0.94387 0.00048	12.20 0.94376 0.00049	12.10 0.95730 0.00050
12.50 0.94687 0.00048	12.25 0.94643 0.00050	12.15 0.96036 0.00050
12.55 0.95031 0.00048	12.30 0.94951 0.00049	12.20 0.96448 0.00049
12.60 0.95299 0.00049	12.35 0.95353 0.00048	12.25 0.96741 0.00051
12.65 0.95557 0.00049	12.40 0.95510 0.00047	12.30 0.96979 0.00048
12.70 0.95955 0.00049	12.45 0.95832 0.00050	12.35 0.97274 0.00049
12.75 0.96236 0.00049	12.50 0.96151 0.00050	12.40 0.97720 0.00050
12.80 0.96372 0.00048	12.55 0.96482 0.00050	12.45 0.97957 0.00049
12.85 0.96689 0.00049	12.60 0.96873 0.00049	12.50 0.98287 0.00051
12.90 0.96973 0.00047	12.65 0.97029 0.00049	12.55 0.98526 0.00051
12.95 0.97318 0.00047	12.70 0.97414 0.00048	12.60 0.98821 0.00050
13.00 0.97657 0.00048	12.80 0.98047 0.00048	12.65 0.99022 0.00050
13.05 0.97844 0.00049	12.85 0.98316 0.00049	12.70 0.99441 0.00050
13.10 0.98223 0.00048	12.90 0.98593 0.00049	12.75 0.99778 0.00050
13.15 0.98576 0.00048	12.95 0.98892 0.00050	12.80 0.99978 0.00050
13.35 0.99591 0.00048	13.00 0.99243 0.00049	12.85 1.00468 0.00050
13.40 0.99797 0.00048	13.05 0.99539 0.00051	12.90 1.00697 0.00050
13.45 1.00101 0.00049	13.10 0.99791 0.00050	12.95 1.01062 0.00051

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13.50 1.00464 0.00047	13.15 1.00055 0.00048	13.00 1.01223 0.00050
13.55 1.00675 0.00047	13.20 1.00335 0.00050	13.05 1.01600 0.00049
13.60 1.01000 0.00049	13.25 1.00536 0.00049	13.10 1.01817 0.00050
13.65 1.01236 0.00049	13.30 1.00840 0.00050	
13.70 1.01513 0.00048	13.35 1.01118 0.00049	
13.75 1.01753 0.00048	13.40 1.01543 0.00049	
13.80 1.02042 0.00050	13.45 1.01700 0.00049	
	13.50 1.01973 0.00049	

130	150	200
11.40 0.92042 0.00050	11.20 0.91897 0.00051	11.00 0.92171 0.00052
11.45 0.92475 0.00050	11.25 0.92277 0.00050	11.05 0.92346 0.00052
11.50 0.92822 0.00051	11.30 0.92539 0.00051	11.10 0.92885 0.00053
11.55 0.93122 0.00051	11.35 0.93083 0.00051	11.15 0.93242 0.00052
11.60 0.93465 0.00051	11.40 0.93390 0.00051	11.20 0.93487 0.00054
11.65 0.93875 0.00051	11.45 0.93704 0.00051	11.25 0.94029 0.00054
11.70 0.94233 0.00051	11.50 0.94077 0.00052	11.30 0.94283 0.00053
11.75 0.94512 0.00049	11.55 0.94312 0.00052	11.35 0.94544 0.00052
11.80 0.94659 0.00051	11.60 0.94706 0.00051	11.40 0.95067 0.00053
11.85 0.95170 0.00050	11.65 0.95039 0.00052	11.45 0.95282 0.00052
11.90 0.95383 0.00051	11.70 0.95432 0.00052	11.50 0.95692 0.00052
11.95 0.95824 0.00050	11.75 0.95700 0.00053	11.55 0.96107 0.00052
12.00 0.96119 0.00052	11.80 0.96141 0.00053	11.60 0.96337 0.00053
12.10 0.96723 0.00049	11.85 0.96388 0.00049	11.65 0.96665 0.00051
12.25 0.97669 0.00051	11.90 0.96856 0.00052	11.70 0.97184 0.00052
12.35 0.98258 0.00049	11.95 0.97041 0.00052	11.75 0.97420 0.00052
12.40 0.98673 0.00050	12.00 0.97399 0.00050	11.80 0.97740 0.00052
12.45 0.98895 0.00051	12.05 0.97739 0.00050	11.85 0.98040 0.00052
12.50 0.99251 0.00051	12.15 0.98363 0.00054	11.90 0.98374 0.00052
12.55 0.99694 0.00051	12.20 0.98795 0.00051	11.95 0.98831 0.00052
12.60 0.99960 0.00051	12.25 0.99067 0.00052	12.00 0.99045 0.00052
12.65 1.00235 0.00051	12.30 0.99216 0.00051	12.05 0.99428 0.00053
12.70 1.00573 0.00051	12.35 0.99597 0.00052	12.10 0.99662 0.00052
12.75 1.00840 0.00050	12.40 0.99986 0.00052	12.20 1.00414 0.00053
12.80 1.01237 0.00051	12.45 1.00256 0.00052	12.30 1.01065 0.00052
12.85 1.01429 0.00051	12.50 1.00732 0.00051	12.35 1.01392 0.00052
12.90 1.01653 0.00052	12.55 1.00934 0.00053	12.40 1.01735 0.00053
12.95 1.02012 0.00051	12.60 1.01231 0.00051	12.45 1.01971 0.00052
13.00 1.02295 0.00052	12.65 1.01511 0.00052	12.50 1.02229 0.00053
	12.70 1.01830 0.00052	
	12.75 1.02185 0.00052	
	12.80 1.02479 0.00051	

235	250	353
10.90 0.91809 0.00053	10.90 0.91983 0.00050	11.00 0.92004 0.00055
10.95 0.92191 0.00052	10.95 0.92304 0.00054	11.05 0.92485 0.00053
11.00 0.92562 0.00053	11.05 0.93037 0.00053	11.10 0.92769 0.00051

11.05 0.92958 0.00053	11.15 0.93640 0.00052	11.15 0.93169 0.00053
11.10 0.93246 0.00053	11.20 0.94113 0.00052	11.20 0.93477 0.00053
11.15 0.93633 0.00052	11.25 0.94317 0.00053	11.25 0.93781 0.00053
11.20 0.93991 0.00052	11.30 0.94900 0.00053	11.30 0.94257 0.00052
11.30 0.94697 0.00052	11.35 0.95137 0.00053	11.40 0.94859 0.00054
11.35 0.95029 0.00052	11.45 0.95939 0.00052	11.45 0.95225 0.00053
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11.45 0.95729 0.00052	11.55 0.96593 0.00053	11.70 0.96928 0.00053
11.50 0.96134 0.00052	11.60 0.96963 0.00052	11.75 0.97233 0.00054
11.55 0.96447 0.00052	11.65 0.97200 0.00054	11.80 0.97540 0.00053
11.60 0.96814 0.00053	11.70 0.97685 0.00052	11.85 0.98009 0.00055
11.65 0.97250 0.00053	11.75 0.97879 0.00051	11.95 0.98579 0.00054
11.75 0.97880 0.00052	11.80 0.98255 0.00051	12.00 0.98975 0.00052
11.85 0.98510 0.00052	11.85 0.98603 0.00052	12.05 0.99342 0.00052
11.90 0.98830 0.00053	11.90 0.98960 0.00053	12.10 0.99532 0.00053
11.95 0.99147 0.00054	11.95 0.99295 0.00053	12.15 0.99881 0.00054
12.00 0.99546 0.00052	12.00 0.99610 0.00053	12.20 1.00333 0.00053
12.05 0.99806 0.00052	12.05 1.00087 0.00054	12.25 1.00529 0.00051
12.10 1.00135 0.00051	12.10 1.00182 0.00053	12.30 1.00900 0.00052
12.15 1.00524 0.00050	12.15 1.00561 0.00052	12.35 1.01168 0.00053
12.25 1.01133 0.00053	12.20 1.00852 0.00055	12.40 1.01530 0.00053
12.30 1.01517 0.00052	12.25 1.01299 0.00052	12.50 1.02113 0.00052
12.35 1.01915 0.00053	12.30 1.01558 0.00052	
12.40 1.02148 0.00053	12.35 1.01895 0.00055	
	12.40 1.02153 0.00054	

470	475	480
11.30 0.92145 0.00053	11.30 0.92023 0.00053	11.30 0.91768 0.00052
11.35 0.92306 0.00053	11.35 0.92183 0.00053	11.35 0.92098 0.00052
11.40 0.92863 0.00052	11.40 0.92576 0.00053	11.40 0.92608 0.00052
11.45 0.92963 0.00053	11.45 0.92993 0.00051	11.50 0.93121 0.00051
11.50 0.93419 0.00052	11.50 0.93359 0.00053	11.55 0.93463 0.00052
11.55 0.93743 0.00053	11.55 0.93628 0.00052	11.60 0.93761 0.00052
11.60 0.94018 0.00052	11.60 0.94007 0.00052	11.65 0.94201 0.00053
11.65 0.94430 0.00052	11.65 0.94297 0.00052	11.70 0.94508 0.00051
11.70 0.94707 0.00054	11.70 0.94685 0.00053	11.75 0.94735 0.00052
11.75 0.95121 0.00053	11.75 0.94961 0.00054	11.80 0.95048 0.00053
11.80 0.95417 0.00053	11.80 0.95323 0.00053	11.85 0.95482 0.00055
11.85 0.95756 0.00053	11.85 0.95580 0.00052	11.90 0.95818 0.00053
11.90 0.96074 0.00052	11.90 0.96015 0.00055	11.95 0.96147 0.00052
11.95 0.96447 0.00054	11.95 0.96159 0.00053	12.00 0.96607 0.00053
12.00 0.96742 0.00053	12.00 0.96547 0.00052	12.05 0.96779 0.00053
12.05 0.97096 0.00052	12.10 0.97314 0.00052	12.10 0.97154 0.00054
12.10 0.97373 0.00052	12.15 0.97509 0.00054	12.15 0.97388 0.00053
12.15 0.97656 0.00052	12.20 0.97867 0.00054	12.20 0.97791 0.00052
12.20 0.98089 0.00053	12.25 0.98062 0.00053	12.25 0.97915 0.00052
12.25 0.98231 0.00054	12.30 0.98564 0.00053	12.30 0.98400 0.00054
12.30 0.98505 0.00053	12.35 0.98746 0.00052	12.35 0.98695 0.00052
12.35 0.98866 0.00053	12.40 0.99134 0.00052	12.40 0.98854 0.00055

12.40 0.99317 0.00053	12.45 0.99470 0.00051	12.45 0.99364 0.00052
12.45 0.99603 0.00053	12.50 0.99811 0.00053	12.50 0.99648 0.00053
12.50 0.99921 0.00051	12.55 1.00067 0.00052	12.55 0.99929 0.00053
12.55 1.00170 0.00053	12.60 1.00343 0.00052	12.60 1.00206 0.00052
12.60 1.00504 0.00051	12.65 1.00588 0.00053	12.65 1.00564 0.00054
12.65 1.00707 0.00052	12.70 1.00817 0.00052	12.70 1.00849 0.00054
12.70 1.01106 0.00054	12.75 1.01175 0.00053	12.75 1.01157 0.00053
12.75 1.01456 0.00052	12.80 1.01609 0.00053	12.80 1.01351 0.00054
12.80 1.01651 0.00054	12.85 1.01917 0.00052	12.85 1.01763 0.00053
12.85 1.02054 0.00054	12.90 1.02195 0.00052	12.90 1.01995 0.00053
12.90 1.02291 0.00053		

486

0

11.40 0.92297 0.00051
11.50 0.92909 0.00052
11.55 0.93297 0.00052
11.60 0.93675 0.00053
11.65 0.93996 0.00052
11.70 0.94233 0.00051
11.75 0.94479 0.00053
11.80 0.94974 0.00053
11.85 0.95326 0.00052
11.90 0.95586 0.00053
11.95 0.95841 0.00053
12.00 0.96233 0.00053
12.05 0.96661 0.00053
12.10 0.96903 0.00053
12.15 0.97306 0.00052
12.20 0.97580 0.00053
12.25 0.97850 0.00052
12.35 0.98503 0.00053
12.40 0.98835 0.00052
12.45 0.99124 0.00053
12.50 0.99404 0.00053
12.55 0.99735 0.00053
12.60 1.00088 0.00052
12.65 1.00360 0.00053
12.70 1.00536 0.00052
12.75 1.00918 0.00053
12.80 1.01283 0.00053
12.85 1.01556 0.00053
12.90 1.01864 0.00053
12.95 1.02043 0.00053
13.00 1.02530 0.00053

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12	15	20
134.30 0.86005 0.00013	55.50 0.92921 0.00017	25.70 0.92282 0.00026
149.10 0.86195 0.00012	56.90 0.93119 0.00017	26.30 0.92900 0.00026
163.90 0.86363 0.00012	58.30 0.93349 0.00017	26.90 0.93628 0.00026
178.70 0.86439 0.00012	59.70 0.93496 0.00017	27.50 0.94120 0.00026
193.50 0.86495 0.00012	61.10 0.93729 0.00017	28.10 0.94809 0.00025
208.30 0.86555 0.00012	62.50 0.93917 0.00017	28.70 0.95289 0.00025
223.10 0.86584 0.00012	63.90 0.94079 0.00017	29.30 0.95761 0.00025
237.90 0.86648 0.00011	65.30 0.94216 0.00016	29.90 0.96331 0.00025
252.70 0.86717 0.00011	66.70 0.94381 0.00017	30.50 0.96814 0.00024
297.10 0.86783 0.00011	70.90 0.94762 0.00016	31.10 0.97304 0.00024
311.90 0.86802 0.00011	72.30 0.94916 0.00016	31.70 0.97708 0.00025
341.50 0.86778 0.00011	73.70 0.94991 0.00015	32.30 0.98229 0.00024
356.30 0.86857 0.00011	75.10 0.95035 0.00016	32.90 0.98657 0.00024
371.10 0.86862 0.00011	76.50 0.95239 0.00015	33.50 0.98956 0.00023
385.90 0.86826 0.00011	77.90 0.95357 0.00015	34.10 0.99371 0.00023
400.70 0.86847 0.00011	79.30 0.95347 0.00016	34.70 0.99699 0.00023
415.50 0.86843 0.00011	80.70 0.95484 0.00015	35.30 1.00010 0.00023
430.30 0.86905 0.00011	82.10 0.95560 0.00015	35.90 1.00458 0.00022
430.90 0.86912 0.00011	83.50 0.95651 0.00015	36.50 1.00735 0.00023
	83.80 0.95616 0.00015	37.10 1.01088 0.00023
		37.70 1.01284 0.00022

25	30	32
20.00 0.92569 0.00030	17.10 0.92303 0.00034	16.40 0.92446 0.00035
20.20 0.92987 0.00029	17.30 0.92797 0.00034	16.60 0.92985 0.00035
20.40 0.93341 0.00030	17.50 0.93317 0.00034	16.70 0.93374 0.00035
20.60 0.93710 0.00030	17.70 0.93883 0.00034	16.80 0.93672 0.00034
20.80 0.94077 0.00031	17.90 0.94390 0.00034	16.90 0.93893 0.00035
21.00 0.94446 0.00030	18.10 0.94858 0.00033	17.00 0.94211 0.00034
21.20 0.94782 0.00031	18.30 0.95376 0.00034	17.10 0.94506 0.00034
21.40 0.95219 0.00030	18.50 0.95909 0.00033	17.20 0.94790 0.00033
21.60 0.95557 0.00030	18.70 0.96414 0.00033	17.30 0.95002 0.00033
21.80 0.95895 0.00030	18.90 0.96864 0.00032	17.40 0.95326 0.00033
22.00 0.96194 0.00029	19.10 0.97346 0.00033	17.50 0.95615 0.00034
22.20 0.96502 0.00030	19.30 0.97795 0.00033	17.60 0.95867 0.00034
22.40 0.96871 0.00030	19.50 0.98194 0.00033	17.70 0.96124 0.00033
22.60 0.97195 0.00029	19.70 0.98700 0.00033	17.80 0.96449 0.00034
22.80 0.97554 0.00029	19.90 0.99140 0.00034	17.90 0.96679 0.00034
23.00 0.97827 0.00030	20.10 0.99540 0.00033	18.00 0.96873 0.00034
23.20 0.98175 0.00029	20.30 0.99830 0.00033	18.30 0.97702 0.00032
23.40 0.98407 0.00030	20.50 1.00325 0.00032	18.40 0.97944 0.00034
23.60 0.98759 0.00029	20.70 1.00724 0.00032	18.50 0.98114 0.00034
23.80 0.99076 0.00030	20.90 1.01126 0.00032	18.60 0.98420 0.00033
24.00 0.99300 0.00028	21.10 1.01508 0.00032	18.70 0.98687 0.00033
24.20 0.99606 0.00029	21.20 1.01665 0.00033	18.80 0.98953 0.00033
24.40 0.99793 0.00029		18.90 0.99133 0.00034

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24.60	1.00186	0.00029	19.00	0.99365	0.00034
24.80	1.00447	0.00029	19.10	0.99647	0.00034
25.00	1.00678	0.00029	19.20	0.99808	0.00034
25.20	1.00974	0.00028	19.30	1.00057	0.00034
25.40	1.01139	0.00029	19.40	1.00284	0.00034
25.60	1.01440	0.00029	19.50	1.00577	0.00033
			19.60	1.00829	0.00033
			19.70	1.01098	0.00033
			19.80	1.01208	0.00032
			19.90	1.01447	0.00034
			20.00	1.01599	0.00033

35	40	50						
15.50	0.92422	0.00036	14.40	0.92480	0.00038	12.90	0.92056	0.00040
15.60	0.92729	0.00035	14.50	0.92852	0.00038	13.00	0.92542	0.00040
15.70	0.93083	0.00036	14.60	0.93284	0.00037	13.10	0.93013	0.00040
15.80	0.93455	0.00036	14.70	0.93678	0.00037	13.20	0.93532	0.00040
15.90	0.93769	0.00036	14.80	0.93990	0.00037	13.30	0.94023	0.00040
16.00	0.94071	0.00037	14.90	0.94395	0.00037	13.40	0.94304	0.00040
16.10	0.94376	0.00036	15.00	0.94746	0.00036	13.50	0.94838	0.00039
16.20	0.94732	0.00035	15.10	0.95067	0.00038	13.60	0.95241	0.00040
16.30	0.95082	0.00035	15.20	0.95484	0.00037	13.70	0.95707	0.00040
16.40	0.95322	0.00035	15.30	0.95801	0.00037	13.80	0.96125	0.00039
16.50	0.95623	0.00034	15.40	0.96126	0.00038	13.90	0.96538	0.00039
16.60	0.95940	0.00035	15.50	0.96478	0.00036	14.00	0.97044	0.00040
16.70	0.96251	0.00034	15.60	0.96847	0.00037	14.10	0.97392	0.00039
16.80	0.96633	0.00036	15.70	0.97153	0.00037	14.20	0.97784	0.00039
16.90	0.96879	0.00036	15.80	0.97586	0.00038	14.30	0.98261	0.00040
17.00	0.97113	0.00036	15.90	0.97887	0.00037	14.40	0.98604	0.00039
17.10	0.97415	0.00036	16.00	0.98172	0.00036	14.50	0.99197	0.00039
17.20	0.97753	0.00035	16.10	0.98534	0.00037	14.60	0.99459	0.00038
17.30	0.98009	0.00034	16.20	0.98884	0.00037	14.70	0.99859	0.00040
17.40	0.98270	0.00035	16.30	0.99135	0.00037	14.80	1.00286	0.00040
17.50	0.98558	0.00035	16.40	0.99569	0.00037	14.90	1.00602	0.00039
17.60	0.98887	0.00036	16.50	0.99910	0.00037	15.00	1.00968	0.00040
17.70	0.99128	0.00035	16.60	1.00161	0.00036	15.10	1.01418	0.00039
17.80	0.99412	0.00034	16.70	1.00465	0.00036	15.20	1.01857	0.00039
17.90	0.99612	0.00035	16.80	1.00857	0.00036			
18.00	0.99992	0.00035	16.90	1.01049	0.00037			
18.10	1.00159	0.00035	17.00	1.01351	0.00037			
18.20	1.00455	0.00034	17.10	1.01598	0.00038			
18.30	1.00659	0.00034						
18.40	1.01023	0.00035						
18.50	1.01242	0.00034						
18.60	1.01488	0.00035						
18.70	1.01697	0.00035						

60	70	80
12.10 0.92314 0.00043	11.60 0.92788 0.00042	11.20 0.92826 0.00045
12.20 0.92848 0.00041	11.70 0.93254 0.00042	11.30 0.93359 0.00044
12.30 0.93291 0.00041	11.80 0.93889 0.00043	11.40 0.94028 0.00044
12.40 0.93952 0.00043	11.90 0.94497 0.00043	11.50 0.94634 0.00045
12.50 0.94461 0.00041	12.00 0.95066 0.00042	11.60 0.95183 0.00045
12.60 0.94877 0.00043	12.10 0.95596 0.00044	11.70 0.95802 0.00044
12.70 0.95404 0.00041	12.20 0.96116 0.00042	11.80 0.96387 0.00043
12.80 0.95969 0.00042	12.40 0.97145 0.00042	11.90 0.96985 0.00043
12.90 0.96404 0.00043	12.50 0.97724 0.00042	12.00 0.97462 0.00043
13.00 0.96906 0.00041	12.60 0.98148 0.00043	12.10 0.98068 0.00044
13.10 0.97358 0.00043	12.70 0.98706 0.00043	12.20 0.98613 0.00044
13.30 0.98360 0.00042	13.00 1.00235 0.00043	12.30 0.99110 0.00044
13.40 0.98760 0.00041	13.10 1.00729 0.00042	12.40 0.99734 0.00045
13.50 0.99223 0.00042	13.20 1.01158 0.00042	12.60 1.00802 0.00043
13.60 0.99679 0.00043	13.30 1.01704 0.00042	12.70 1.01118 0.00044
13.70 1.00159 0.00042		12.80 1.01858 0.00044
13.80 1.00568 0.00042		12.90 1.02225 0.00043
13.90 1.01062 0.00042		
14.10 1.01875 0.00041		

90	100	118
10.70 0.91738 0.00044	10.50 0.92028 0.00046	10.20 0.92091 0.00047
10.80 0.92347 0.00046	10.55 0.92316 0.00044	10.25 0.92503 0.00045
10.90 0.92943 0.00045	10.65 0.93011 0.00045	10.30 0.92946 0.00046
11.00 0.93636 0.00045	10.70 0.93228 0.00045	10.35 0.93177 0.00046
11.10 0.94163 0.00044	10.75 0.93582 0.00044	10.40 0.93484 0.00047
11.20 0.94880 0.00046	10.80 0.93966 0.00046	10.45 0.93812 0.00047
11.30 0.95481 0.00045	10.85 0.94246 0.00046	10.50 0.94189 0.00047
11.40 0.96084 0.00044	10.90 0.94529 0.00044	10.55 0.94549 0.00047
11.50 0.96623 0.00043	10.95 0.94843 0.00045	10.60 0.94837 0.00046
11.60 0.97230 0.00045	11.00 0.95195 0.00046	10.65 0.95183 0.00046
11.70 0.97805 0.00046	11.05 0.95545 0.00045	10.70 0.95517 0.00047
11.80 0.98351 0.00044	11.15 0.96221 0.00046	10.75 0.95817 0.00047
11.90 0.98944 0.00044	11.20 0.96494 0.00046	10.80 0.96186 0.00046
12.00 0.99576 0.00045	11.25 0.96837 0.00044	10.85 0.96480 0.00045
12.20 1.00569 0.00046	11.30 0.97064 0.00046	10.90 0.96672 0.00045
12.30 1.01175 0.00045	11.35 0.97305 0.00046	10.95 0.97080 0.00045
12.40 1.01780 0.00045	11.40 0.97637 0.00045	11.05 0.97726 0.00046
12.50 1.02240 0.00043	11.45 0.97988 0.00045	11.10 0.98014 0.00047
	11.50 0.98377 0.00046	11.15 0.98367 0.00045
	11.55 0.98598 0.00046	11.20 0.98799 0.00047
	11.60 0.98876 0.00045	11.25 0.99112 0.00047
	11.65 0.99093 0.00045	11.30 0.99283 0.00046
	11.70 0.99439 0.00046	11.35 0.99673 0.00046
	11.75 0.99782 0.00045	11.40 0.99885 0.00046
	11.80 1.00069 0.00046	11.45 1.00221 0.00047
	11.85 1.00359 0.00046	11.50 1.00624 0.00048
	11.90 1.00637 0.00045	11.55 1.00854 0.00047

11.95	1.00905	0.00045	11.60	1.01166	0.00047
12.00	1.01237	0.00045	11.65	1.01338	0.00047
12.05	1.01520	0.00045	11.70	1.01758	0.00046
12.10	1.01694	0.00046	11.75	1.02084	0.00045
			11.80	1.02261	0.00046

130	150	200
10.00 0.91860 0.00046	9.80 0.91911 0.00047	9.50 0.91763 0.00048
10.05 0.92262 0.00046	9.85 0.92227 0.00047	9.55 0.92177 0.00048
10.10 0.92667 0.00046	9.90 0.92583 0.00046	9.60 0.92500 0.00047
10.15 0.92857 0.00046	10.00 0.93268 0.00047	9.65 0.92896 0.00048
10.20 0.93225 0.00047	10.05 0.93733 0.00046	9.70 0.93232 0.00048
10.25 0.93644 0.00045	10.10 0.94062 0.00046	9.80 0.94063 0.00048
10.30 0.93968 0.00047	10.15 0.94353 0.00046	9.85 0.94299 0.00047
10.35 0.94251 0.00047	10.20 0.94724 0.00047	9.90 0.94705 0.00048
10.40 0.94605 0.00046	10.25 0.95091 0.00047	9.95 0.94974 0.00047
10.45 0.95011 0.00047	10.30 0.95446 0.00047	10.00 0.95364 0.00047
10.50 0.95307 0.00045	10.35 0.95689 0.00048	10.05 0.95744 0.00048
10.55 0.95729 0.00047	10.40 0.96062 0.00048	10.10 0.96032 0.00047
10.60 0.96046 0.00045	10.45 0.96466 0.00047	10.20 0.96697 0.00049
10.65 0.96374 0.00046	10.50 0.96746 0.00046	10.25 0.97117 0.00047
10.70 0.96678 0.00045	10.55 0.97095 0.00048	10.30 0.97469 0.00047
10.75 0.97012 0.00048	10.60 0.97533 0.00047	10.35 0.97903 0.00049
10.80 0.97317 0.00048	10.65 0.97732 0.00047	10.40 0.98125 0.00048
10.85 0.97656 0.00047	10.70 0.98122 0.00048	10.45 0.98587 0.00048
10.95 0.98332 0.00046	10.75 0.98450 0.00048	10.50 0.98934 0.00049
11.00 0.98612 0.00047	10.80 0.98726 0.00047	10.55 0.99229 0.00048
11.05 0.98937 0.00048	10.85 0.99180 0.00049	10.60 0.99572 0.00048
11.10 0.99272 0.00046	10.90 0.99390 0.00047	10.65 0.99757 0.00047
11.15 0.99468 0.00047	10.95 0.99788 0.00047	10.70 1.00180 0.00047
11.20 0.99792 0.00047	11.00 1.00083 0.00047	10.75 1.00627 0.00048
11.25 1.00184 0.00048	11.05 1.00404 0.00047	10.80 1.00801 0.00049
11.30 1.00500 0.00048	11.10 1.00770 0.00048	10.85 1.01239 0.00050
11.35 1.00794 0.00047	11.15 1.01018 0.00048	10.90 1.01580 0.00048
11.40 1.01156 0.00047	11.20 1.01324 0.00048	10.95 1.01758 0.00048
11.45 1.01375 0.00048	11.25 1.01644 0.00046	11.00 1.02139 0.00049
11.50 1.01750 0.00047	11.30 1.01932 0.00048	
11.55 1.01966 0.00047		
11.60 1.02292 0.00046		

235	250	353
9.40 0.91693 0.00049	9.40 0.91901 0.00049	9.40 0.91985 0.00049
9.45 0.92052 0.00048	9.45 0.92279 0.00048	9.45 0.92403 0.00049
9.50 0.92491 0.00048	9.50 0.92512 0.00048	9.50 0.92795 0.00048
9.55 0.92823 0.00048	9.55 0.93021 0.00048	9.55 0.93169 0.00048
9.75 0.94269 0.00049	9.60 0.93297 0.00049	9.60 0.93455 0.00047
9.80 0.94732 0.00048	9.70 0.94079 0.00049	9.65 0.93865 0.00049

9.85 0.95076 0.00049	9.75 0.94440 0.00049	9.70 0.94290 0.00048
9.90 0.95404 0.00050	9.80 0.94754 0.00048	9.75 0.94625 0.00049
9.95 0.95820 0.00049	9.85 0.95179 0.00048	9.80 0.95015 0.00049
10.00 0.96143 0.00048	9.90 0.95557 0.00048	9.85 0.95355 0.00049
10.05 0.96528 0.00047	9.95 0.95945 0.00049	9.90 0.95637 0.00049
10.10 0.96728 0.00048	10.05 0.96720 0.00049	9.95 0.96037 0.00049
10.15 0.97198 0.00049	10.10 0.97015 0.00049	10.00 0.96396 0.00049
10.20 0.97440 0.00049	10.15 0.97302 0.00049	10.05 0.96695 0.00050
10.25 0.97863 0.00049	10.25 0.98052 0.00048	10.10 0.97108 0.00049
10.30 0.98301 0.00048	10.30 0.98314 0.00048	10.15 0.97335 0.00049
10.35 0.98512 0.00049	10.35 0.98684 0.00048	10.25 0.98092 0.00048
10.40 0.98932 0.00050	10.40 0.98945 0.00049	10.30 0.98459 0.00049
10.45 0.99147 0.00048	10.45 0.99400 0.00049	10.40 0.99020 0.00049
10.50 0.99537 0.00049	10.50 0.99749 0.00049	10.45 0.99425 0.00049
10.60 1.00158 0.00047	10.55 1.00003 0.00048	10.50 0.99641 0.00050
10.65 1.00550 0.00049	10.60 1.00379 0.00049	10.60 1.00379 0.00049
10.70 1.00804 0.00048	10.70 1.01143 0.00049	10.65 1.00712 0.00048
10.75 1.01253 0.00049	10.75 1.01418 0.00049	10.70 1.01118 0.00049
10.80 1.01555 0.00048	10.80 1.01762 0.00047	10.75 1.01448 0.00050
10.85 1.01806 0.00049	10.85 1.02054 0.00050	10.90 1.02377 0.00050
10.90 1.02221 0.00050	10.90 1.02351 0.00049	

470	475	480
9.60 0.92210 0.00048	9.65 0.92432 0.00047	9.60 0.92028 0.00047
9.75 0.93316 0.00048	9.70 0.92829 0.00048	9.65 0.92334 0.00047
9.80 0.93590 0.00048	9.75 0.93152 0.00049	9.70 0.92738 0.00048
9.95 0.94599 0.00049	9.80 0.93531 0.00050	9.75 0.93012 0.00049
10.00 0.95026 0.00047	9.85 0.93829 0.00049	9.80 0.93459 0.00048
10.05 0.95251 0.00049	9.90 0.94109 0.00047	9.85 0.93760 0.00047
10.20 0.96272 0.00048	9.95 0.94552 0.00049	9.90 0.94055 0.00050
10.25 0.96535 0.00049	10.00 0.94927 0.00048	9.95 0.94456 0.00048
10.30 0.96973 0.00049	10.05 0.95194 0.00049	10.00 0.94807 0.00049
10.35 0.97372 0.00048	10.10 0.95506 0.00048	10.05 0.95125 0.00048
10.40 0.97596 0.00048	10.15 0.95933 0.00048	10.10 0.95460 0.00048
10.45 0.97962 0.00049	10.20 0.96158 0.00050	10.15 0.95726 0.00048
10.50 0.98276 0.00049	10.25 0.96520 0.00049	10.20 0.96171 0.00049
10.55 0.98525 0.00048	10.30 0.96859 0.00048	10.25 0.96431 0.00049
10.60 0.98857 0.00050	10.35 0.97207 0.00047	10.30 0.96770 0.00048
10.65 0.99287 0.00050	10.40 0.97486 0.00049	10.35 0.97099 0.00049
10.70 0.99576 0.00048	10.45 0.97855 0.00048	10.40 0.97377 0.00048
10.75 0.99856 0.00048	10.50 0.98286 0.00049	10.45 0.97735 0.00048
10.80 1.00177 0.00049	10.55 0.98403 0.00050	10.50 0.98010 0.00049
10.85 1.00529 0.00049	10.60 0.98806 0.00049	10.55 0.98386 0.00049
10.90 1.00802 0.00048	10.65 0.99219 0.00047	10.60 0.98648 0.00049
10.95 1.01053 0.00049	10.70 0.99438 0.00049	10.65 0.99017 0.00047
11.00 1.01467 0.00050	10.75 0.99793 0.00049	10.70 0.99281 0.00048
11.05 1.01597 0.00048	10.80 1.00113 0.00049	10.75 0.99732 0.00050
11.10 1.02041 0.00049	10.85 1.00440 0.00049	10.80 0.99985 0.00050
	10.90 1.00665 0.00048	10.85 1.00176 0.00049

10.95	1.00954	0.00049	10.90	1.00518	0.00048
11.00	1.01252	0.00048	10.95	1.00828	0.00049
11.05	1.01550	0.00049	11.00	1.01228	0.00049
11.10	1.01918	0.00048	11.05	1.01518	0.00050
			11.10	1.01784	0.00050

486 0

9.60	0.91935	0.00047
9.65	0.92161	0.00048
9.70	0.92673	0.00049
9.75	0.93019	0.00048
9.80	0.93312	0.00047
9.85	0.93615	0.00049
9.90	0.93988	0.00047
9.95	0.94365	0.00048
10.00	0.94685	0.00048
10.05	0.94984	0.00048
10.10	0.95241	0.00050
10.15	0.95731	0.00049
10.20	0.95972	0.00049
10.25	0.96294	0.00049
10.30	0.96566	0.00048
10.35	0.96997	0.00048
10.40	0.97290	0.00048
10.45	0.97604	0.00049
10.50	0.97949	0.00048
10.55	0.98207	0.00049
10.65	0.98920	0.00048
10.70	0.99138	0.00048
10.75	0.99440	0.00049
10.80	0.99910	0.00049
10.85	1.00126	0.00049
10.90	1.00515	0.00050
10.95	1.00759	0.00050
11.00	1.00987	0.00049
11.05	1.01359	0.00049
11.10	1.01654	0.00050
11.15	1.01974	0.00049
11.20	1.02181	0.00050

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12	15	20
35.50 0.92177 0.00018	21.80 0.92734 0.00025	15.70 0.92582 0.00032
36.00 0.92342 0.00018	22.20 0.93345 0.00024	15.90 0.93178 0.00031
36.50 0.92471 0.00017	22.60 0.93785 0.00025	16.10 0.93724 0.00032
37.00 0.92669 0.00018	23.00 0.94248 0.00024	16.30 0.94249 0.00032
37.50 0.92794 0.00018	23.40 0.94680 0.00024	16.50 0.94795 0.00031
38.00 0.92977 0.00017	23.80 0.95152 0.00023	16.70 0.95362 0.00031
39.00 0.93298 0.00017	24.20 0.95589 0.00024	16.90 0.95823 0.00030
39.50 0.93354 0.00017	24.60 0.95960 0.00024	17.30 0.96856 0.00031
40.00 0.93535 0.00017	25.00 0.96425 0.00023	17.50 0.97283 0.00030
41.00 0.93791 0.00016	25.40 0.96703 0.00023	17.70 0.97758 0.00031
41.50 0.93980 0.00017	25.80 0.97114 0.00024	17.90 0.98239 0.00031
42.50 0.94173 0.00016	26.20 0.97405 0.00023	18.10 0.98618 0.00030
43.00 0.94288 0.00016	26.60 0.97755 0.00023	18.30 0.99120 0.00030
43.50 0.94368 0.00016	27.00 0.98087 0.00023	18.50 0.99568 0.00030
44.00 0.94412 0.00016	27.40 0.98390 0.00022	18.70 0.99915 0.00030
44.50 0.94553 0.00016	27.80 0.98670 0.00022	18.90 1.00219 0.00029
45.00 0.94632 0.00016	28.20 0.98938 0.00021	19.10 1.00739 0.00029
45.50 0.94752 0.00016	28.60 0.99256 0.00022	19.30 1.01114 0.00029
46.00 0.94837 0.00016	29.00 0.99501 0.00022	19.50 1.01471 0.00028
46.50 0.94958 0.00016	29.80 0.99988 0.00021	
	31.00 1.00734 0.00021	
	31.30 1.00828 0.00021	

25	30	32
13.30 0.92170 0.00036	12.10 0.92249 0.00039	11.70 0.91938 0.00040
13.40 0.92549 0.00035	12.20 0.92694 0.00039	11.80 0.92550 0.00039
13.50 0.93016 0.00037	12.30 0.93250 0.00038	11.90 0.93067 0.00041
13.60 0.93331 0.00035	12.40 0.93757 0.00039	12.00 0.93593 0.00040
13.70 0.93829 0.00036	12.50 0.94335 0.00037	12.10 0.94198 0.00039
13.80 0.94199 0.00036	12.60 0.94848 0.00038	12.20 0.94632 0.00040
13.90 0.94533 0.00035	12.70 0.95244 0.00038	12.30 0.95279 0.00039
14.00 0.94912 0.00035	12.80 0.95711 0.00040	12.40 0.95769 0.00039
14.10 0.95352 0.00036	12.90 0.96209 0.00039	12.50 0.96224 0.00039
14.20 0.95783 0.00035	13.00 0.96646 0.00038	12.60 0.96787 0.00038
14.30 0.96105 0.00036	13.10 0.97187 0.00038	12.70 0.97193 0.00038
14.40 0.96494 0.00035	13.20 0.97590 0.00038	12.80 0.97768 0.00038
14.50 0.96806 0.00035	13.30 0.98021 0.00037	12.90 0.98252 0.00038
14.60 0.97206 0.00036	13.40 0.98534 0.00037	13.00 0.98782 0.00038
14.70 0.97543 0.00035	13.50 0.98971 0.00038	13.10 0.99150 0.00039
14.80 0.97942 0.00035	13.60 0.99406 0.00038	13.20 0.99609 0.00038
14.90 0.98280 0.00034	13.70 0.99812 0.00039	13.30 1.00180 0.00038
15.00 0.98650 0.00035	13.80 1.00287 0.00038	13.40 1.00529 0.00038
15.10 0.98912 0.00035	13.90 1.00677 0.00039	13.50 1.00993 0.00038
15.20 0.99287 0.00034	14.00 1.01060 0.00037	13.60 1.01517 0.00039
15.30 0.99663 0.00034	14.10 1.01478 0.00038	13.70 1.01950 0.00041
15.40 0.99989 0.00034	14.20 1.01906 0.00038	

15.50 1.00259 0.00034
 15.60 1.00580 0.00034
 15.70 1.00902 0.00033
 15.80 1.01235 0.00035
 15.90 1.01465 0.00034
 16.00 1.01830 0.00034

35	40	50
11.30 0.92125 0.00041	10.70 0.91891 0.00044	10.00 0.91871 0.00044
11.40 0.92747 0.00041	10.75 0.92217 0.00041	10.05 0.92349 0.00046
11.50 0.93388 0.00040	10.80 0.92537 0.00043	10.10 0.92732 0.00045
11.60 0.93980 0.00040	10.85 0.92893 0.00044	10.15 0.93092 0.00045
11.70 0.94575 0.00042	10.90 0.93188 0.00043	10.20 0.93560 0.00045
11.80 0.95096 0.00040	10.95 0.93495 0.00042	10.25 0.93907 0.00045
11.90 0.95647 0.00040	11.00 0.93869 0.00042	10.30 0.94248 0.00044
12.00 0.96261 0.00040	11.05 0.94141 0.00043	10.35 0.94676 0.00045
12.10 0.96763 0.00040	11.10 0.94524 0.00043	10.40 0.95050 0.00044
12.20 0.97350 0.00041	11.15 0.94895 0.00042	10.45 0.95438 0.00045
12.30 0.97830 0.00040	11.20 0.95210 0.00043	10.50 0.95726 0.00045
12.40 0.98455 0.00040	11.25 0.95512 0.00043	10.60 0.96509 0.00045
12.50 0.98933 0.00039	11.30 0.95767 0.00043	10.65 0.96797 0.00046
12.60 0.99507 0.00040	11.35 0.96094 0.00042	10.70 0.97266 0.00045
12.70 0.99877 0.00040	11.40 0.96356 0.00042	10.75 0.97541 0.00045
12.80 1.00405 0.00040	11.45 0.96674 0.00042	10.80 0.97915 0.00045
12.90 1.00995 0.00039	11.50 0.97103 0.00042	10.85 0.98239 0.00044
13.00 1.01462 0.00041	11.55 0.97360 0.00042	10.90 0.98532 0.00046
13.10 1.01910 0.00040	11.60 0.97638 0.00044	10.95 0.99036 0.00045
	11.65 0.97882 0.00041	11.00 0.99290 0.00044
	11.70 0.98287 0.00043	11.05 0.99645 0.00046
	11.75 0.98527 0.00042	11.10 0.99927 0.00045
	11.80 0.98900 0.00042	11.15 1.00323 0.00045
	11.85 0.99134 0.00043	11.20 1.00718 0.00046
	11.90 0.99471 0.00042	11.25 1.00972 0.00046
	11.95 0.99723 0.00042	11.30 1.01292 0.00044
	12.00 0.99901 0.00041	11.35 1.01652 0.00043
	12.05 1.00273 0.00042	11.40 1.01941 0.00046
	12.10 1.00619 0.00042	
	12.15 1.00889 0.00043	
	12.20 1.01143 0.00043	
	12.25 1.01458 0.00040	
	12.30 1.01681 0.00042	
	12.35 1.01886 0.00042	
	12.40 1.02172 0.00043	

60	70	80
9.50 0.91509 0.00047	9.20 0.91690 0.00048	9.00 0.92063 0.00048
9.55 0.92016 0.00047	9.25 0.92107 0.00048	9.05 0.92529 0.00050
9.60 0.92448 0.00047	9.30 0.92517 0.00047	9.10 0.92803 0.00049
9.65 0.92893 0.00046	9.35 0.92979 0.00049	9.15 0.93332 0.00049
9.70 0.93299 0.00047	9.40 0.93453 0.00047	9.20 0.93921 0.00048
9.75 0.93687 0.00047	9.45 0.93867 0.00048	9.25 0.94259 0.00048
9.80 0.94125 0.00048	9.50 0.94320 0.00048	9.30 0.94771 0.00048
9.85 0.94500 0.00048	9.55 0.94791 0.00048	9.35 0.95283 0.00049
9.90 0.94936 0.00046	9.60 0.95176 0.00048	9.40 0.95666 0.00048
9.95 0.95430 0.00046	9.65 0.95665 0.00048	9.45 0.96085 0.00049
10.00 0.95802 0.00046	9.70 0.96076 0.00048	9.50 0.96531 0.00049
10.05 0.96133 0.00048	9.75 0.96533 0.00048	9.55 0.97078 0.00049
10.10 0.96629 0.00047	9.80 0.96949 0.00049	9.60 0.97549 0.00050
10.15 0.96990 0.00047	9.85 0.97328 0.00048	9.65 0.97988 0.00050
10.20 0.97414 0.00047	9.90 0.97805 0.00048	9.70 0.98331 0.00050
10.25 0.97830 0.00046	9.95 0.98181 0.00048	9.75 0.98806 0.00049
10.30 0.98193 0.00047	10.00 0.98527 0.00047	9.80 0.99103 0.00049
10.35 0.98555 0.00047	10.05 0.99060 0.00048	9.85 0.99663 0.00050
10.40 0.98951 0.00046	10.10 0.99400 0.00047	9.90 1.00115 0.00049
10.45 0.99292 0.00047	10.15 0.99839 0.00049	9.95 1.00447 0.00048
10.50 0.99700 0.00046	10.20 1.00282 0.00048	10.00 1.00851 0.00049
10.60 1.00485 0.00046	10.25 1.00679 0.00049	10.05 1.01344 0.00048
10.65 1.00832 0.00047	10.30 1.01002 0.00048	10.10 1.01782 0.00048
10.70 1.01238 0.00047	10.35 1.01400 0.00047	10.15 1.02232 0.00049
10.75 1.01539 0.00047	10.40 1.01755 0.00049	10.20 1.02507 0.00049
10.80 1.01849 0.00047	10.45 1.02184 0.00049	
10.85 1.02233 0.00046	10.50 1.02511 0.00048	
10.90 1.02605 0.00047		

90	100	118
8.80 0.91729 0.00049	8.70 0.91928 0.00051	8.50 0.91814 0.00052
8.85 0.92137 0.00051	8.75 0.92478 0.00050	8.55 0.92274 0.00051
8.90 0.92732 0.00051	8.80 0.92937 0.00050	8.60 0.92816 0.00051
8.95 0.93080 0.00050	8.85 0.93568 0.00050	8.65 0.93283 0.00052
9.00 0.93656 0.00050	8.90 0.93987 0.00049	8.70 0.93767 0.00052
9.05 0.94139 0.00050	8.95 0.94522 0.00051	8.75 0.94425 0.00051
9.10 0.94620 0.00049	9.00 0.94961 0.00050	8.80 0.94941 0.00052
9.15 0.95057 0.00050	9.05 0.95432 0.00051	8.85 0.95318 0.00052
9.20 0.95600 0.00049	9.10 0.95992 0.00052	8.90 0.95902 0.00053
9.25 0.95971 0.00049	9.15 0.96443 0.00050	8.95 0.96290 0.00051
9.30 0.96514 0.00051	9.20 0.96943 0.00053	9.00 0.96814 0.00052
9.35 0.96917 0.00051	9.25 0.97385 0.00051	9.05 0.97214 0.00053
9.40 0.97383 0.00050	9.30 0.97817 0.00051	9.10 0.97889 0.00051
9.45 0.97724 0.00050	9.35 0.98405 0.00051	9.15 0.98351 0.00049
9.50 0.98385 0.00051	9.40 0.98707 0.00052	9.20 0.98895 0.00054
9.55 0.98724 0.00049	9.45 0.99126 0.00050	9.25 0.99230 0.00051
9.60 0.99264 0.00050	9.50 0.99696 0.00051	9.30 0.99834 0.00051
9.65 0.99621 0.00049	9.55 1.00126 0.00050	9.35 1.00319 0.00052

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9.70 1.00022 0.00050	9.60 1.00627 0.00050	9.40 1.00687 0.00051
9.75 1.00474 0.00050	9.65 1.01095 0.00051	9.45 1.01226 0.00052
9.80 1.00990 0.00049	9.70 1.01387 0.00052	9.50 1.01672 0.00052
9.85 1.01398 0.00050	9.75 1.01956 0.00049	9.55 1.02053 0.00051
9.90 1.01705 0.00050	9.80 1.02415 0.00050	9.60 1.02526 0.00051
9.95 1.02142 0.00050		
10.00 1.02720 0.00050		

130	150	200
8.40 0.91668 0.00052	8.30 0.91882 0.00051	8.10 0.91369 0.00052
8.45 0.92262 0.00051	8.35 0.92407 0.00053	8.15 0.92011 0.00051
8.50 0.92752 0.00052	8.40 0.92979 0.00054	8.20 0.92563 0.00053
8.55 0.93375 0.00053	8.45 0.93426 0.00052	8.25 0.93136 0.00051
8.60 0.93818 0.00052	8.50 0.93991 0.00053	8.30 0.93731 0.00054
8.65 0.94320 0.00053	8.55 0.94518 0.00053	8.35 0.94195 0.00053
8.75 0.95412 0.00053	8.60 0.95131 0.00053	8.40 0.94835 0.00053
8.80 0.95931 0.00050	8.65 0.95772 0.00052	8.45 0.95227 0.00053
8.85 0.96429 0.00051	8.70 0.96152 0.00054	8.50 0.95936 0.00052
8.90 0.96921 0.00052	8.75 0.96653 0.00052	8.55 0.96453 0.00053
8.95 0.97356 0.00051	8.80 0.97028 0.00052	8.60 0.96916 0.00053
9.00 0.97938 0.00052	8.85 0.97757 0.00052	8.65 0.97436 0.00052
9.05 0.98398 0.00052	8.90 0.98186 0.00053	8.70 0.97974 0.00053
9.10 0.98936 0.00054	8.95 0.98724 0.00053	8.75 0.98564 0.00053
9.15 0.99364 0.00052	9.00 0.99265 0.00052	8.80 0.99013 0.00053
9.20 0.99831 0.00053	9.05 0.99755 0.00052	8.85 0.99528 0.00053
9.30 1.00814 0.00051	9.10 1.00174 0.00052	8.90 1.00028 0.00054
9.35 1.01276 0.00051	9.15 1.00724 0.00051	8.95 1.00664 0.00053
9.40 1.01854 0.00052	9.20 1.01220 0.00053	9.00 1.01117 0.00052
9.45 1.02329 0.00053	9.25 1.01679 0.00054	9.05 1.01511 0.00051
9.50 1.02742 0.00054	9.30 1.02123 0.00055	9.10 1.02069 0.00053

235	250	353
8.10 0.92123 0.00053	8.05 0.91734 0.00055	8.00 0.91455 0.00054
8.15 0.92557 0.00053	8.10 0.92286 0.00054	8.05 0.92154 0.00053
8.20 0.93322 0.00056	8.15 0.92830 0.00054	8.10 0.92623 0.00053
8.25 0.93759 0.00054	8.20 0.93385 0.00052	8.15 0.93213 0.00053
8.35 0.94882 0.00055	8.25 0.94021 0.00054	8.20 0.93728 0.00054
8.40 0.95401 0.00054	8.30 0.94604 0.00054	8.25 0.94304 0.00053
8.45 0.95945 0.00053	8.35 0.95166 0.00054	8.30 0.94939 0.00054
8.50 0.96524 0.00055	8.45 0.96169 0.00053	8.35 0.95378 0.00053
8.55 0.97080 0.00055	8.50 0.96685 0.00053	8.40 0.95982 0.00053
8.60 0.97661 0.00056	8.55 0.97215 0.00053	8.45 0.96536 0.00053
8.65 0.98097 0.00054	8.65 0.98301 0.00054	8.50 0.96986 0.00054
8.70 0.98709 0.00054	8.80 0.99917 0.00054	8.55 0.97655 0.00054
8.75 0.99253 0.00055	8.85 1.00506 0.00053	8.60 0.98165 0.00056
8.80 0.99779 0.00053	8.90 1.00912 0.00054	8.65 0.98728 0.00055
8.85 1.00284 0.00054	8.95 1.01522 0.00055	8.70 0.99143 0.00053

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8.90 1.00681 0.00054	9.00 1.01929 0.00055	8.75 0.99719 0.00055
8.95 1.01339 0.00053	9.05 1.02417 0.00054	8.80 1.00173 0.00054
9.00 1.01780 0.00054	9.10 1.03017 0.00053	8.85 1.00562 0.00054
9.05 1.02235 0.00053		8.95 1.01697 0.00053
9.10 1.02790 0.00053		9.00 1.02157 0.00053

470	500	600
8.10 0.92110 0.00053	8.10 0.91965 0.00054	8.20 0.91987 0.00053
8.15 0.92798 0.00053	8.15 0.92453 0.00054	8.25 0.92431 0.00053
8.20 0.93337 0.00052	8.20 0.93102 0.00053	8.30 0.93036 0.00054
8.30 0.94379 0.00054	8.25 0.93547 0.00054	8.35 0.93576 0.00054
8.35 0.94938 0.00055	8.30 0.94137 0.00053	8.40 0.94163 0.00053
8.40 0.95373 0.00055	8.35 0.94820 0.00051	8.45 0.94566 0.00053
8.45 0.95858 0.00052	8.40 0.95138 0.00052	8.50 0.95187 0.00051
8.50 0.96576 0.00055	8.45 0.95723 0.00055	8.55 0.95649 0.00054
8.55 0.97060 0.00052	8.50 0.96246 0.00053	8.60 0.96163 0.00053
8.60 0.97530 0.00053	8.55 0.96793 0.00053	8.65 0.96661 0.00053
8.65 0.98156 0.00053	8.60 0.97242 0.00051	8.70 0.97216 0.00052
8.70 0.98548 0.00053	8.65 0.97879 0.00055	8.75 0.97704 0.00053
8.75 0.99132 0.00053	8.70 0.98395 0.00053	8.80 0.98279 0.00053
8.80 0.99524 0.00054	8.75 0.98910 0.00055	8.85 0.98624 0.00053
8.85 1.00033 0.00055	8.80 0.99429 0.00053	8.90 0.99256 0.00053
8.90 1.00555 0.00055	8.85 0.99889 0.00055	8.95 0.99606 0.00054
8.95 1.01027 0.00054	8.90 1.00468 0.00054	9.00 1.00152 0.00055
9.00 1.01531 0.00052	8.95 1.00821 0.00055	9.05 1.00701 0.00054
9.05 1.01963 0.00055	9.00 1.01353 0.00054	9.10 1.01158 0.00053
9.10 1.02574 0.00053	9.05 1.01765 0.00053	9.15 1.01597 0.00053
	9.10 1.02427 0.00053	9.20 1.01972 0.00052

605	610	615
8.20 0.91843 0.00053	8.20 0.91875 0.00052	8.20 0.91830 0.00053
8.25 0.92375 0.00054	8.25 0.92489 0.00051	8.25 0.92296 0.00051
8.30 0.93026 0.00052	8.30 0.92938 0.00054	8.30 0.92883 0.00053
8.35 0.93442 0.00053	8.35 0.93447 0.00052	8.35 0.93420 0.00052
8.40 0.94063 0.00053	8.40 0.93973 0.00052	8.40 0.94011 0.00052
8.45 0.94567 0.00053	8.45 0.94479 0.00052	8.45 0.94487 0.00053
8.50 0.95093 0.00052	8.50 0.95078 0.00054	8.50 0.94968 0.00053
8.55 0.95577 0.00054	8.55 0.95645 0.00053	8.55 0.95524 0.00053
8.60 0.96120 0.00054	8.60 0.96148 0.00051	8.60 0.96017 0.00052
8.65 0.96644 0.00053	8.65 0.96600 0.00052	8.65 0.96500 0.00053
8.70 0.97179 0.00052	8.70 0.97108 0.00052	8.70 0.97071 0.00052
8.75 0.97572 0.00052	8.75 0.97711 0.00054	8.75 0.97496 0.00053
8.80 0.98177 0.00054	8.80 0.98088 0.00053	8.80 0.98089 0.00052
8.85 0.98716 0.00053	8.85 0.98565 0.00054	8.85 0.98586 0.00052
8.90 0.99118 0.00053	8.90 0.99232 0.00052	8.90 0.99031 0.00052
8.95 0.99615 0.00054	8.95 0.99603 0.00052	8.95 0.99527 0.00053
9.00 1.00058 0.00054	9.00 1.00098 0.00053	9.00 1.00054 0.00052

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9.05 1.00531 0.00053	9.05 1.00557 0.00052	9.05 1.00498 0.00051
9.10 1.00989 0.00053	9.10 1.00991 0.00054	9.10 1.01108 0.00052
9.15 1.01549 0.00052	9.15 1.01477 0.00053	9.15 1.01444 0.00053
9.20 1.01999 0.00052	9.20 1.01965 0.00054	9.20 1.02027 0.00054
9.25 1.02519 0.00052	9.25 1.02481 0.00054	
9.30 1.02972 0.00053	9.30 1.02876 0.00052	

620	625	629
8.20 0.91704 0.00050	8.20 0.91681 0.00054	8.25 0.92149 0.00053
8.25 0.92201 0.00052	8.25 0.92318 0.00051	8.30 0.92627 0.00052
8.30 0.92817 0.00053	8.30 0.92685 0.00053	8.35 0.93255 0.00050
8.35 0.93260 0.00053	8.35 0.93344 0.00052	8.40 0.93768 0.00050
8.40 0.93878 0.00053	8.40 0.93887 0.00053	8.50 0.94799 0.00053
8.50 0.94848 0.00053	8.45 0.94363 0.00053	8.55 0.95278 0.00051
8.55 0.95499 0.00051	8.50 0.94922 0.00052	8.60 0.95706 0.00053
8.60 0.95938 0.00051	8.55 0.95362 0.00052	8.65 0.96331 0.00052
8.80 0.97868 0.00052	8.60 0.95856 0.00051	8.70 0.96901 0.00053
8.85 0.98518 0.00053	8.65 0.96477 0.00053	8.75 0.97338 0.00053
8.90 0.98957 0.00053	8.70 0.96849 0.00053	8.80 0.97816 0.00053
8.95 0.99326 0.00054	8.75 0.97456 0.00051	8.85 0.98297 0.00053
9.00 0.99850 0.00053	8.80 0.97809 0.00053	8.90 0.98862 0.00054
9.05 1.00297 0.00053	8.85 0.98424 0.00053	8.95 0.99312 0.00054
9.10 1.00794 0.00053	8.90 0.98989 0.00051	9.00 0.99791 0.00054
9.15 1.01267 0.00052	8.95 0.99399 0.00053	9.05 1.00192 0.00052
9.20 1.01893 0.00053	9.00 0.99865 0.00051	9.10 1.00757 0.00052
9.25 1.02247 0.00054	9.05 1.00348 0.00052	9.15 1.01226 0.00053
9.30 1.02716 0.00052	9.10 1.00844 0.00052	9.20 1.01733 0.00053
	9.15 1.01254 0.00054	9.25 1.02147 0.00053
	9.20 1.01791 0.00055	9.30 1.02622 0.00052

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12	15	20
35.30 0.92635 0.00017	20.30 0.92833 0.00025	14.30 0.92917 0.00031
35.90 0.92833 0.00017	20.80 0.93451 0.00024	14.90 0.94486 0.00030
36.50 0.92962 0.00018	21.30 0.94019 0.00024	15.10 0.95083 0.00030
37.10 0.93202 0.00017	21.80 0.94601 0.00024	15.30 0.95639 0.00030
37.70 0.93315 0.00017	22.30 0.95182 0.00024	15.50 0.96181 0.00030
38.90 0.93611 0.00016	22.80 0.95661 0.00023	15.70 0.96619 0.00029
39.50 0.93826 0.00016	23.30 0.96173 0.00024	15.90 0.97063 0.00030
40.10 0.93920 0.00016	23.80 0.96660 0.00022	16.10 0.97531 0.00030
41.30 0.94249 0.00016	24.30 0.97087 0.00022	16.30 0.98027 0.00030
41.90 0.94380 0.00016	24.80 0.97515 0.00022	16.50 0.98504 0.00029
43.10 0.94613 0.00015	25.30 0.97923 0.00022	16.90 0.99318 0.00029
43.70 0.94680 0.00015	26.30 0.98722 0.00021	17.10 0.99840 0.00029
44.30 0.94796 0.00015	26.80 0.99055 0.00022	17.30 1.00169 0.00029
44.90 0.94918 0.00016	27.30 0.99417 0.00022	17.50 1.00517 0.00029
45.50 0.95069 0.00015	27.80 0.99710 0.00021	17.70 1.00966 0.00029
46.10 0.95134 0.00015	28.30 0.99987 0.00021	17.90 1.01365 0.00029

46.70 0.95205 0.00015	28.80 1.00351 0.00020
47.30 0.95338 0.00015	29.30 1.00619 0.00021
47.60 0.95361 0.00015	29.80 1.00859 0.00021
	30.30 1.01223 0.00020

25	30	32
11.80 0.92217 0.00034	10.60 0.92328 0.00037	10.20 0.92089 0.00038
11.90 0.92645 0.00035	10.70 0.92871 0.00038	10.30 0.92590 0.00037
12.00 0.93026 0.00034	10.80 0.93367 0.00037	10.40 0.93164 0.00037
12.10 0.93481 0.00035	10.90 0.93854 0.00037	10.50 0.93720 0.00037
12.20 0.93790 0.00035	11.00 0.94363 0.00037	10.60 0.94249 0.00038
12.30 0.94279 0.00035	11.10 0.94838 0.00037	10.70 0.94807 0.00039
12.40 0.94709 0.00035	11.20 0.95395 0.00037	10.80 0.95354 0.00038
12.50 0.95044 0.00034	11.30 0.95818 0.00037	10.90 0.95926 0.00038
12.60 0.95411 0.00034	11.40 0.96298 0.00038	11.00 0.96358 0.00037
12.70 0.95776 0.00034	11.50 0.96779 0.00037	11.10 0.96951 0.00038
12.80 0.96222 0.00034	11.60 0.97279 0.00038	11.20 0.97328 0.00038
12.90 0.96548 0.00034	11.70 0.97800 0.00036	11.30 0.97875 0.00037
13.00 0.96948 0.00034	11.80 0.98153 0.00037	11.40 0.98298 0.00038
13.10 0.97310 0.00034	11.90 0.98635 0.00036	11.50 0.98826 0.00038
13.20 0.97636 0.00034	12.00 0.99014 0.00037	11.60 0.99275 0.00036
13.30 0.98003 0.00033	12.10 0.99469 0.00037	11.70 0.99629 0.00038
13.40 0.98322 0.00034	12.20 0.99953 0.00036	11.80 1.00236 0.00037
13.50 0.98753 0.00034	12.30 1.00300 0.00036	11.90 1.00683 0.00037
13.60 0.99093 0.00034	12.40 1.00806 0.00038	12.00 1.01138 0.00037
13.70 0.99394 0.00034	12.50 1.01171 0.00037	12.10 1.01551 0.00037
13.80 0.99690 0.00033	12.60 1.01594 0.00037	
13.90 1.00078 0.00033		
14.00 1.00354 0.00034		
14.10 1.00653 0.00034		
14.20 1.00986 0.00034		
14.30 1.01346 0.00033		
14.40 1.01522 0.00033		

35	40	50
9.80 0.92269 0.00039	9.20 0.91968 0.00040	8.50 0.92085 0.00043
9.90 0.92936 0.00039	9.25 0.92319 0.00040	8.55 0.92490 0.00043
10.00 0.93509 0.00040	9.30 0.92704 0.00040	8.60 0.92851 0.00044
10.10 0.94024 0.00039	9.35 0.92950 0.00040	8.65 0.93298 0.00045
10.20 0.94650 0.00040	9.40 0.93388 0.00041	8.70 0.93694 0.00043
10.30 0.95220 0.00039	9.45 0.93699 0.00040	8.75 0.93998 0.00042
10.40 0.95817 0.00039	9.50 0.94060 0.00040	8.80 0.94424 0.00043
10.50 0.96336 0.00039	9.55 0.94349 0.00040	8.85 0.94861 0.00044
10.60 0.96911 0.00040	9.60 0.94593 0.00040	8.90 0.95218 0.00043
10.70 0.97524 0.00039	9.65 0.94990 0.00040	8.95 0.95584 0.00043
10.80 0.98056 0.00039	9.70 0.95268 0.00041	9.00 0.95888 0.00042
10.90 0.98583 0.00039	9.75 0.95667 0.00040	9.05 0.96322 0.00044

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11.00 0.99040 0.00040	9.80 0.95908 0.00041	9.10 0.96628 0.00044
11.10 0.99557 0.00039	9.85 0.96248 0.00041	9.15 0.97047 0.00044
11.20 1.00083 0.00038	9.90 0.96514 0.00040	9.20 0.97452 0.00043
11.30 1.00559 0.00038	9.95 0.96803 0.00041	9.25 0.97748 0.00043
11.40 1.01016 0.00038	10.00 0.97137 0.00040	9.30 0.98071 0.00045
11.50 1.01624 0.00037	10.05 0.97502 0.00040	9.35 0.98505 0.00043
11.60 1.02083 0.00038	10.10 0.97791 0.00041	9.40 0.98734 0.00042
	10.15 0.98041 0.00041	9.45 0.99140 0.00043
	10.20 0.98395 0.00040	9.50 0.99472 0.00044
	10.25 0.98714 0.00041	9.55 0.99841 0.00045
	10.30 0.99039 0.00041	9.60 1.00158 0.00043
	10.35 0.99225 0.00041	9.65 1.00506 0.00043
	10.40 0.99580 0.00040	9.75 1.01184 0.00044
	10.45 0.99743 0.00040	9.80 1.01478 0.00043
	10.50 1.00097 0.00040	9.85 1.01767 0.00042
	10.55 1.00396 0.00041	9.90 1.02126 0.00043
	10.60 1.00706 0.00039	
	10.65 1.00891 0.00041	
	10.70 1.01257 0.00040	
	10.75 1.01515 0.00040	
	10.80 1.01760 0.00041	

60	70	80
8.00 0.91755 0.00044	7.70 0.91888 0.00046	7.50 0.92184 0.00047
8.05 0.92176 0.00045	7.75 0.92415 0.00046	7.55 0.92698 0.00047
8.10 0.92676 0.00045	7.80 0.92838 0.00047	7.60 0.93130 0.00046
8.15 0.92987 0.00044	7.85 0.93278 0.00045	7.65 0.93602 0.00048
8.20 0.93469 0.00044	7.90 0.93690 0.00045	7.70 0.94098 0.00046
8.25 0.93874 0.00046	7.95 0.94164 0.00045	7.75 0.94487 0.00047
8.30 0.94317 0.00045	8.00 0.94620 0.00046	7.80 0.94945 0.00048
8.35 0.94765 0.00046	8.05 0.94982 0.00046	7.85 0.95472 0.00047
8.40 0.95225 0.00044	8.10 0.95448 0.00046	7.90 0.95996 0.00047
8.45 0.95560 0.00047	8.15 0.95894 0.00045	7.95 0.96329 0.00046
8.50 0.96074 0.00044	8.20 0.96315 0.00045	8.00 0.96830 0.00047
8.55 0.96393 0.00043	8.25 0.96841 0.00047	8.05 0.97198 0.00049
8.60 0.96857 0.00046	8.30 0.97188 0.00045	8.10 0.97692 0.00048
8.65 0.97144 0.00045	8.35 0.97660 0.00046	8.15 0.98173 0.00046
8.70 0.97532 0.00044	8.40 0.98038 0.00046	8.20 0.98617 0.00048
8.75 0.97948 0.00046	8.45 0.98431 0.00047	8.25 0.99091 0.00048
8.80 0.98346 0.00045	8.50 0.98793 0.00046	8.30 0.99543 0.00047
8.85 0.98788 0.00045	8.55 0.99357 0.00046	8.35 0.99973 0.00047
8.90 0.99099 0.00045	8.60 0.99634 0.00046	8.40 1.00361 0.00047
8.95 0.99485 0.00044	8.65 1.00152 0.00046	8.45 1.00789 0.00048
9.00 0.99856 0.00045	8.70 1.00505 0.00046	8.50 1.01099 0.00047
9.05 1.00276 0.00045	8.75 1.00866 0.00046	8.55 1.01601 0.00048
9.10 1.00597 0.00045	8.80 1.01354 0.00045	8.60 1.02064 0.00047
9.15 1.01055 0.00045	8.85 1.01703 0.00046	
9.20 1.01399 0.00045	8.90 1.02016 0.00047	
9.25 1.01647 0.00044		
9.30 1.02074 0.00044		

90	100	118
7.30 0.91924 0.00048	7.20 0.92278 0.00048	7.00 0.92177 0.00049
7.35 0.92422 0.00048	7.25 0.92750 0.00048	7.05 0.92573 0.00048
7.40 0.92985 0.00049	7.30 0.93289 0.00048	7.10 0.93165 0.00048
7.45 0.93388 0.00047	7.35 0.93838 0.00048	7.15 0.93733 0.00048
7.50 0.93910 0.00048	7.40 0.94241 0.00048	7.20 0.94156 0.00050
7.55 0.94419 0.00047	7.45 0.94755 0.00048	7.25 0.94646 0.00050
7.60 0.94866 0.00048	7.50 0.95310 0.00049	7.30 0.95215 0.00050
7.65 0.95330 0.00047	7.55 0.95727 0.00049	7.35 0.95769 0.00051
7.70 0.95860 0.00048	7.60 0.96269 0.00050	7.40 0.96150 0.00049
7.75 0.96288 0.00049	7.65 0.96693 0.00049	7.45 0.96759 0.00049
7.80 0.96819 0.00048	7.70 0.97233 0.00048	7.50 0.97222 0.00049
7.85 0.97186 0.00048	7.75 0.97777 0.00048	7.55 0.97782 0.00050
7.90 0.97706 0.00048	7.80 0.98157 0.00048	7.60 0.98249 0.00048
7.95 0.98187 0.00048	7.85 0.98663 0.00049	7.65 0.98713 0.00050
8.00 0.98604 0.00047	7.90 0.99105 0.00049	7.70 0.99320 0.00049
8.05 0.99185 0.00048	7.95 0.99641 0.00048	7.75 0.99682 0.00049
8.10 0.99524 0.00047	8.00 0.99961 0.00049	7.80 1.00135 0.00049
8.15 1.00045 0.00048	8.05 1.00490 0.00049	7.85 1.00726 0.00050
8.20 1.00389 0.00049	8.10 1.00969 0.00049	7.90 1.01066 0.00050
8.25 1.00852 0.00047	8.15 1.01314 0.00049	7.95 1.01597 0.00051
8.30 1.01271 0.00048	8.20 1.01740 0.00048	8.00 1.01942 0.00049
8.35 1.01751 0.00049	8.25 1.02235 0.00051	
8.40 1.02073 0.00048	8.30 1.02715 0.00047	
130	150	200
6.90 0.92110 0.00051	6.80 0.92169 0.00052	6.60 0.91861 0.00051
6.95 0.92634 0.00049	6.85 0.92794 0.00049	6.65 0.92418 0.00051
7.00 0.93181 0.00049	6.90 0.93380 0.00050	6.70 0.93001 0.00050
7.05 0.93627 0.00050	6.95 0.93868 0.00051	6.75 0.93705 0.00051
7.10 0.94173 0.00051	7.00 0.94356 0.00051	6.80 0.94157 0.00051
7.15 0.94668 0.00050	7.05 0.94925 0.00050	6.85 0.94684 0.00053
7.20 0.95253 0.00051	7.10 0.95478 0.00050	6.90 0.95305 0.00052
7.25 0.95812 0.00051	7.15 0.96053 0.00050	6.95 0.95844 0.00050
7.30 0.96269 0.00051	7.20 0.96539 0.00051	7.00 0.96384 0.00051
7.35 0.96882 0.00051	7.25 0.96997 0.00050	7.05 0.96931 0.00051
7.40 0.97410 0.00050	7.30 0.97517 0.00050	7.10 0.97486 0.00052
7.45 0.97819 0.00049	7.35 0.98153 0.00051	7.15 0.97932 0.00051
7.50 0.98245 0.00050	7.40 0.98628 0.00051	7.20 0.98511 0.00051
7.55 0.98778 0.00050	7.45 0.99138 0.00050	7.25 0.98975 0.00051
7.60 0.99285 0.00050	7.50 0.99670 0.00049	7.30 0.99488 0.00052
7.65 0.99842 0.00052	7.55 1.00081 0.00051	7.35 0.99978 0.00052
7.70 1.00201 0.00048	7.60 1.00571 0.00053	7.40 1.00553 0.00051
7.75 1.00798 0.00049	7.70 1.01640 0.00050	7.45 1.01041 0.00052
7.80 1.01276 0.00050	7.75 1.02081 0.00050	7.50 1.01497 0.00052
7.85 1.01720 0.00050	7.80 1.02626 0.00051	7.55 1.02096 0.00051
7.90 1.02197 0.00051		7.60 1.02579 0.00051

235	250	353
6.50 0.91521 0.00052	6.50 0.91699 0.00052	6.50 0.92140 0.00050
6.55 0.92041 0.00049	6.55 0.92238 0.00051	6.55 0.92657 0.00052
6.60 0.92715 0.00050	6.60 0.92747 0.00051	6.60 0.93302 0.00051
6.65 0.93196 0.00051	6.65 0.93458 0.00051	6.65 0.93896 0.00051
6.70 0.93765 0.00052	6.70 0.93924 0.00052	6.70 0.94470 0.00051
6.75 0.94388 0.00051	6.75 0.94515 0.00050	6.75 0.94938 0.00052
6.80 0.94956 0.00051	6.80 0.95052 0.00050	6.85 0.96051 0.00054
6.85 0.95480 0.00052	6.85 0.95648 0.00053	6.90 0.96611 0.00051
6.90 0.96071 0.00052	6.90 0.96097 0.00051	6.95 0.97164 0.00053
6.95 0.96548 0.00050	7.00 0.97249 0.00052	7.00 0.97742 0.00053
7.00 0.97155 0.00053	7.05 0.97772 0.00052	7.05 0.98166 0.00053
7.05 0.97613 0.00051	7.10 0.98412 0.00052	7.10 0.98753 0.00051
7.10 0.98127 0.00052	7.15 0.98881 0.00053	7.15 0.99245 0.00051
7.15 0.98683 0.00052	7.20 0.99407 0.00051	7.25 1.00280 0.00053
7.20 0.99174 0.00052	7.25 0.99953 0.00051	7.30 1.00760 0.00052
7.25 0.99642 0.00052	7.30 1.00419 0.00051	7.35 1.01281 0.00052
7.30 1.00287 0.00051	7.35 1.00981 0.00052	7.45 1.02284 0.00053
7.35 1.00790 0.00051	7.40 1.01407 0.00051	
7.40 1.01260 0.00052	7.45 1.01962 0.00053	
7.45 1.01797 0.00051	7.50 1.02476 0.00051	
7.50 1.02338 0.00051		
470	500	600
6.50 0.91787 0.00052	6.50 0.91569 0.00051	6.60 0.91712 0.00051
6.55 0.92301 0.00052	6.55 0.92037 0.00051	6.65 0.92290 0.00049
6.60 0.92865 0.00052	6.60 0.92672 0.00052	6.70 0.92717 0.00050
6.65 0.93369 0.00050	6.65 0.93274 0.00050	6.75 0.93278 0.00050
6.70 0.93978 0.00052	6.70 0.93728 0.00053	6.80 0.93839 0.00052
6.75 0.94571 0.00051	6.75 0.94310 0.00053	6.85 0.94462 0.00051
6.80 0.95091 0.00051	6.80 0.94888 0.00051	6.90 0.94937 0.00051
6.85 0.95627 0.00051	6.85 0.95420 0.00050	6.95 0.95411 0.00051
6.90 0.96145 0.00052	6.90 0.95989 0.00052	7.00 0.96015 0.00052
6.95 0.96632 0.00052	6.95 0.96433 0.00053	7.05 0.96491 0.00052
7.00 0.97130 0.00052	7.00 0.96986 0.00051	7.10 0.97010 0.00051
7.05 0.97649 0.00052	7.05 0.97603 0.00050	7.15 0.97573 0.00051
7.10 0.98242 0.00051	7.10 0.98076 0.00052	7.20 0.97929 0.00050
7.15 0.98806 0.00052	7.15 0.98550 0.00053	7.25 0.98496 0.00052
7.20 0.99306 0.00052	7.20 0.99084 0.00051	7.30 0.99013 0.00052
7.25 0.99782 0.00053	7.25 0.99541 0.00052	7.35 0.99507 0.00050
7.30 1.00291 0.00054	7.30 1.00010 0.00052	7.40 1.00000 0.00050
7.35 1.00788 0.00052	7.35 1.00537 0.00053	7.45 1.00381 0.00053
7.40 1.01269 0.00051	7.40 1.01039 0.00053	7.50 1.01026 0.00051
7.45 1.01686 0.00050	7.45 1.01445 0.00052	7.55 1.01393 0.00052
7.50 1.02269 0.00051	7.50 1.01975 0.00052	7.60 1.01921 0.00051
		7.65 1.02383 0.00052
		7.70 1.02724 0.00051

605	610	615
6.60 0.91571 0.00051	6.60 0.91652 0.00051	6.60 0.91610 0.00051
6.65 0.92193 0.00050	6.65 0.92298 0.00052	6.65 0.92084 0.00051
6.70 0.92829 0.00051	6.70 0.92647 0.00051	6.70 0.92600 0.00053
6.75 0.93352 0.00051	6.75 0.93239 0.00052	6.75 0.93255 0.00050
6.80 0.93814 0.00051	6.80 0.93803 0.00052	6.80 0.93743 0.00051
6.85 0.94298 0.00050	6.85 0.94407 0.00051	6.85 0.94310 0.00051
6.90 0.94872 0.00050	6.90 0.94912 0.00051	6.90 0.94917 0.00052
6.95 0.95493 0.00052	6.95 0.95360 0.00051	6.95 0.95304 0.00051
7.00 0.95906 0.00052	7.00 0.95793 0.00051	7.00 0.95730 0.00050
7.05 0.96418 0.00052	7.05 0.96314 0.00053	7.05 0.96422 0.00052
7.10 0.97009 0.00052	7.10 0.96862 0.00050	7.10 0.96839 0.00052
7.15 0.97510 0.00053	7.15 0.97377 0.00052	7.15 0.97376 0.00052
7.20 0.97939 0.00052	7.20 0.97884 0.00052	7.20 0.97956 0.00051
7.25 0.98421 0.00050	7.25 0.98414 0.00051	7.25 0.98361 0.00052
7.30 0.98949 0.00051	7.30 0.98932 0.00053	7.30 0.98887 0.00053
7.35 0.99394 0.00051	7.35 0.99403 0.00054	7.35 0.99370 0.00052
7.40 0.99888 0.00052	7.40 0.99983 0.00050	7.40 0.99803 0.00052
7.45 1.00438 0.00051	7.45 1.00457 0.00051	7.45 1.00324 0.00052
7.50 1.00845 0.00050	7.50 1.00866 0.00051	7.50 1.00808 0.00052
7.55 1.01393 0.00050	7.55 1.01320 0.00051	7.55 1.01310 0.00051
7.60 1.01876 0.00051	7.60 1.01855 0.00053	7.60 1.01711 0.00052
7.65 1.02328 0.00053		7.65 1.02290 0.00051
7.70 1.02738 0.00051		7.70 1.02733 0.00051

620	625	629
6.60 0.91541 0.00052	6.60 0.91516 0.00050	6.60 0.91544 0.00052
6.65 0.91986 0.00049	6.65 0.91961 0.00052	6.65 0.91906 0.00051
6.70 0.92546 0.00051	6.70 0.92549 0.00052	6.70 0.92405 0.00051
6.75 0.93134 0.00051	6.75 0.93055 0.00050	6.75 0.92921 0.00053
6.80 0.93663 0.00050	6.80 0.93628 0.00051	6.80 0.93504 0.00050
6.85 0.94131 0.00052	6.85 0.94127 0.00051	6.85 0.94075 0.00049
6.90 0.94652 0.00050	6.90 0.94634 0.00051	6.90 0.94596 0.00051
6.95 0.95217 0.00050	6.95 0.95121 0.00051	6.95 0.95032 0.00051
7.00 0.95747 0.00051	7.00 0.95691 0.00050	7.00 0.95625 0.00051
7.05 0.96215 0.00050	7.20 0.97682 0.00052	7.05 0.96114 0.00051
7.10 0.96728 0.00051	7.25 0.98200 0.00050	7.10 0.96634 0.00052
7.15 0.97272 0.00052	7.30 0.98727 0.00052	7.15 0.97082 0.00053
7.20 0.97810 0.00052	7.35 0.99153 0.00051	7.20 0.97650 0.00051
7.25 0.98288 0.00052	7.40 0.99670 0.00051	7.25 0.98126 0.00051
7.30 0.98785 0.00051	7.45 1.00179 0.00052	7.30 0.98528 0.00053
7.35 0.99205 0.00051	7.50 1.00667 0.00052	7.35 0.99136 0.00052
7.40 0.99636 0.00052	7.55 1.01255 0.00052	7.40 0.99583 0.00052
7.45 1.00134 0.00050	7.60 1.01621 0.00050	7.45 1.00103 0.00052
7.50 1.00701 0.00051	7.65 1.02109 0.00051	7.50 1.00656 0.00050
7.55 1.01218 0.00051	7.70 1.02514 0.00052	7.55 1.01038 0.00051
7.60 1.01639 0.00051		7.60 1.01554 0.00052
7.65 1.02060 0.00051		7.65 1.02003 0.00050
7.70 1.02608 0.00051		7.70 1.02500 0.00051

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12	15	20
32.10 0.91877 0.00017	19.10 0.92657 0.00023	13.10 0.92611 0.00029
32.60 0.92082 0.00017	19.60 0.93341 0.00023	13.20 0.92939 0.00028
33.10 0.92241 0.00017	20.10 0.93924 0.00022	13.40 0.93475 0.00029
34.10 0.92586 0.00017	20.60 0.94427 0.00023	13.70 0.94276 0.00028
34.60 0.92735 0.00017	21.10 0.95034 0.00023	13.80 0.94536 0.00028
35.10 0.92906 0.00016	21.60 0.95566 0.00023	13.90 0.94850 0.00029
36.10 0.93236 0.00016	22.10 0.96095 0.00022	14.00 0.95089 0.00028
36.60 0.93360 0.00016	22.60 0.96511 0.00022	14.10 0.95360 0.00028
37.10 0.93476 0.00016	23.60 0.97395 0.00021	14.20 0.95601 0.00028
37.60 0.93569 0.00016	24.10 0.97859 0.00022	14.30 0.95806 0.00030
38.10 0.93707 0.00016	24.60 0.98198 0.00022	14.40 0.96120 0.00028
38.60 0.93857 0.00016	25.10 0.98627 0.00021	14.50 0.96339 0.00028
39.10 0.93943 0.00016	25.60 0.99006 0.00021	14.70 0.96887 0.00028
40.10 0.94175 0.00016	26.10 0.99337 0.00021	14.90 0.97358 0.00028
40.60 0.94302 0.00015	26.60 0.99720 0.00021	15.00 0.97546 0.00029
41.10 0.94382 0.00016	27.10 1.00047 0.00021	15.10 0.97838 0.00029
41.60 0.94505 0.00016	27.60 1.00271 0.00020	15.20 0.97984 0.00028
42.10 0.94572 0.00015	28.10 1.00558 0.00020	15.30 0.98247 0.00028
42.60 0.94718 0.00015	28.60 1.00769 0.00020	15.40 0.98472 0.00028
	29.10 1.01127 0.00020	15.50 0.98689 0.00028
		15.60 0.98942 0.00028
		15.70 0.99219 0.00027
		15.80 0.99366 0.00028
		15.90 0.99538 0.00027
		16.00 0.99771 0.00028
		16.10 0.99980 0.00027
		16.20 1.00141 0.00027
		16.30 1.00350 0.00027
		16.40 1.00540 0.00026
		16.50 1.00782 0.00028
		16.60 1.00984 0.00028
		16.70 1.01139 0.00028
		16.80 1.01382 0.00027

25	30	32
10.80 0.92575 0.00032	9.50 0.92239 0.00035	9.10 0.92145 0.00036
10.90 0.92933 0.00033	9.60 0.92854 0.00034	9.20 0.92625 0.00037
11.00 0.93428 0.00033	9.70 0.93312 0.00035	9.30 0.93234 0.00036
11.10 0.93803 0.00031	9.80 0.93885 0.00035	9.40 0.93787 0.00035
11.20 0.94281 0.00033	9.90 0.94403 0.00034	9.50 0.94307 0.00036
11.30 0.94625 0.00033	10.00 0.94894 0.00034	9.60 0.94834 0.00036
11.40 0.95096 0.00032	10.10 0.95394 0.00035	9.70 0.95457 0.00035
11.50 0.95473 0.00031	10.20 0.95876 0.00035	9.80 0.95922 0.00035
11.60 0.95833 0.00031	10.30 0.96394 0.00034	9.90 0.96453 0.00035
11.70 0.96167 0.00033	10.40 0.96898 0.00035	10.00 0.96891 0.00035

11.80 0.96634 0.00032	10.50 0.97380 0.00034	10.10 0.97499 0.00036
11.90 0.96955 0.00032	10.60 0.97829 0.00034	10.20 0.97935 0.00035
12.00 0.97283 0.00032	10.70 0.98259 0.00035	10.30 0.98467 0.00034
12.10 0.97641 0.00032	10.80 0.98726 0.00035	10.40 0.98901 0.00034
12.20 0.98051 0.00032	10.90 0.99267 0.00034	10.50 0.99451 0.00035
12.30 0.98354 0.00032	11.00 0.99551 0.00035	10.60 0.99936 0.00036
12.40 0.98709 0.00031	11.10 1.00106 0.00034	10.70 1.00286 0.00035
12.50 0.99107 0.00031	11.20 1.00452 0.00034	10.80 1.00871 0.00035
12.60 0.99444 0.00031	11.30 1.00828 0.00034	10.90 1.01217 0.00035
12.70 0.99746 0.00032	11.40 1.01245 0.00034	11.00 1.01692 0.00035
12.80 1.00014 0.00032	11.50 1.01694 0.00033	
12.90 1.00380 0.00033		
13.00 1.00699 0.00032		
13.10 1.01019 0.00032		
13.20 1.01315 0.00032		
13.30 1.01690 0.00030		

35	40	50
8.70 0.92297 0.00037	8.10 0.92070 0.00038	7.40 0.92430 0.00039
8.75 0.92644 0.00037	8.15 0.92468 0.00039	7.45 0.92741 0.00040
8.80 0.92954 0.00037	8.20 0.92725 0.00039	7.50 0.93154 0.00040
8.85 0.93234 0.00036	8.25 0.93101 0.00039	7.55 0.93560 0.00040
8.90 0.93560 0.00038	8.30 0.93469 0.00039	7.60 0.93907 0.00041
8.95 0.93845 0.00037	8.35 0.93786 0.00038	7.65 0.94291 0.00039
9.00 0.94118 0.00036	8.40 0.94183 0.00038	7.70 0.94774 0.00040
9.05 0.94438 0.00037	8.45 0.94465 0.00039	7.75 0.95122 0.00040
9.10 0.94708 0.00036	8.50 0.94730 0.00039	7.80 0.95525 0.00040
9.15 0.95089 0.00037	8.55 0.95064 0.00038	7.85 0.95818 0.00040
9.20 0.95303 0.00036	8.60 0.95424 0.00038	7.90 0.96260 0.00038
9.25 0.95634 0.00036	8.65 0.95798 0.00038	8.00 0.96978 0.00040
9.30 0.95831 0.00037	8.70 0.96112 0.00038	8.05 0.97358 0.00040
9.35 0.96179 0.00037	8.75 0.96394 0.00037	8.10 0.97740 0.00039
9.40 0.96428 0.00036	8.80 0.96715 0.00038	8.15 0.98073 0.00040
9.45 0.96749 0.00037	8.85 0.97043 0.00037	8.20 0.98478 0.00041
9.50 0.97055 0.00036	8.90 0.97373 0.00037	8.25 0.98728 0.00040
9.55 0.97338 0.00037	8.95 0.97595 0.00037	8.30 0.99125 0.00040
9.60 0.97549 0.00036	9.00 0.97958 0.00038	8.35 0.99472 0.00040
9.65 0.97936 0.00037	9.05 0.98242 0.00039	8.40 0.99820 0.00041
9.70 0.98168 0.00036	9.10 0.98592 0.00038	8.45 1.00142 0.00040
9.75 0.98344 0.00037	9.15 0.98883 0.00039	8.50 1.00485 0.00040
9.80 0.98675 0.00037	9.20 0.99197 0.00038	8.55 1.00810 0.00040
9.85 0.98942 0.00037	9.25 0.99404 0.00038	8.60 1.01158 0.00040
9.90 0.99145 0.00036	9.30 0.99794 0.00038	8.65 1.01557 0.00040
9.95 0.99423 0.00036	9.35 1.00077 0.00038	8.70 1.01864 0.00040
10.00 0.99816 0.00035	9.40 1.00322 0.00037	
10.05 0.99996 0.00036	9.45 1.00652 0.00038	
10.10 1.00206 0.00036	9.50 1.00945 0.00038	
10.15 1.00528 0.00036	9.55 1.01165 0.00038	
10.20 1.00729 0.00036	9.60 1.01526 0.00037	
10.25 1.00940 0.00036	9.65 1.01715 0.00038	
10.30 1.01229 0.00036	9.70 1.02065 0.00039	

10.35 1.01442 0.00036
 10.40 1.01664 0.00037

60	70	80
6.90 0.92143 0.00042	6.60 0.92452 0.00043	6.30 0.91940 0.00044
6.95 0.92621 0.00042	6.65 0.92840 0.00043	6.35 0.92354 0.00043
7.00 0.93079 0.00042	6.75 0.93848 0.00043	6.40 0.92901 0.00043
7.05 0.93462 0.00041	6.80 0.94271 0.00043	6.45 0.93404 0.00043
7.10 0.93867 0.00041	6.85 0.94766 0.00042	6.50 0.93880 0.00042
7.15 0.94347 0.00042	6.90 0.95177 0.00042	6.55 0.94359 0.00044
7.20 0.94814 0.00041	6.95 0.95665 0.00042	6.60 0.94755 0.00043
7.25 0.95177 0.00043	7.00 0.96071 0.00042	6.65 0.95340 0.00044
7.30 0.95688 0.00041	7.05 0.96584 0.00043	6.70 0.95760 0.00043
7.35 0.96045 0.00041	7.10 0.96954 0.00042	6.75 0.96308 0.00044
7.40 0.96531 0.00041	7.15 0.97439 0.00043	6.80 0.96680 0.00044
7.45 0.96826 0.00042	7.20 0.97827 0.00042	6.85 0.97113 0.00044
7.50 0.97233 0.00041	7.25 0.98239 0.00042	6.90 0.97607 0.00042
7.55 0.97656 0.00043	7.30 0.98701 0.00044	6.95 0.98014 0.00043
7.65 0.98467 0.00042	7.35 0.99131 0.00043	7.00 0.98564 0.00044
7.70 0.98872 0.00042	7.40 0.99468 0.00043	7.05 0.98912 0.00044
7.75 0.99241 0.00042	7.45 0.99905 0.00043	7.10 0.99429 0.00046
7.80 0.99596 0.00041	7.50 1.00264 0.00042	7.15 0.99862 0.00043
7.85 0.99989 0.00042	7.55 1.00785 0.00042	7.20 1.00322 0.00043
7.90 1.00406 0.00042	7.60 1.01100 0.00044	7.25 1.00732 0.00043
7.95 1.00756 0.00042	7.65 1.01591 0.00042	7.30 1.01129 0.00044
8.00 1.01137 0.00042	7.70 1.01966 0.00043	7.35 1.01561 0.00044
8.05 1.01499 0.00042		7.40 1.02110 0.00044
8.10 1.01916 0.00041		

90	100	118
6.10 0.91744 0.00043	6.00 0.92327 0.00045	5.80 0.92236 0.00044
6.15 0.92211 0.00045	6.05 0.92698 0.00045	5.85 0.92804 0.00047
6.20 0.92776 0.00044	6.10 0.93247 0.00043	5.90 0.93420 0.00045
6.25 0.93269 0.00043	6.15 0.93866 0.00045	5.95 0.93946 0.00046
6.30 0.93823 0.00042	6.20 0.94298 0.00044	6.00 0.94453 0.00044
6.35 0.94310 0.00045	6.25 0.94821 0.00045	6.05 0.95049 0.00046
6.40 0.94787 0.00044	6.30 0.95310 0.00044	6.10 0.95540 0.00045
6.45 0.95327 0.00044	6.35 0.95806 0.00044	6.15 0.96036 0.00046
6.50 0.95750 0.00045	6.40 0.96410 0.00044	6.20 0.96590 0.00046
6.55 0.96160 0.00044	6.45 0.96848 0.00045	6.25 0.97037 0.00045
6.60 0.96804 0.00044	6.50 0.97289 0.00045	6.30 0.97522 0.00044
6.65 0.97242 0.00045	6.55 0.97821 0.00045	6.35 0.98041 0.00046
6.70 0.97727 0.00044	6.60 0.98331 0.00045	6.40 0.98568 0.00047
6.75 0.98166 0.00044	6.65 0.98830 0.00044	6.45 0.99107 0.00045
6.80 0.98598 0.00044	6.70 0.99248 0.00046	6.50 0.99567 0.00046
6.85 0.99208 0.00044	6.75 0.99776 0.00044	6.55 1.00016 0.00046
6.90 0.99550 0.00045	6.80 1.00257 0.00044	6.60 1.00549 0.00045

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6.95 0.99976 0.00045	6.85 1.00704 0.00045	6.65 1.01004 0.00047
7.00 1.00468 0.00044	6.90 1.01097 0.00045	6.70 1.01500 0.00044
7.05 1.00904 0.00045	6.95 1.01559 0.00044	6.75 1.01963 0.00044
7.10 1.01331 0.00045	7.00 1.02137 0.00045	6.80 1.02430 0.00046
7.15 1.01843 0.00044		
7.20 1.02336 0.00043		

130	150	200
5.70 0.92350 0.00045	5.50 0.91547 0.00046	5.30 0.91643 0.00046
5.75 0.92898 0.00045	5.55 0.92112 0.00047	5.35 0.92216 0.00048
5.80 0.93411 0.00045	5.60 0.92761 0.00045	5.40 0.92848 0.00046
5.85 0.93967 0.00046	5.65 0.93275 0.00047	5.45 0.93463 0.00047
5.90 0.94497 0.00047	5.70 0.93897 0.00045	5.50 0.94015 0.00047
5.95 0.95059 0.00047	5.75 0.94484 0.00048	5.55 0.94583 0.00048
6.00 0.95697 0.00044	5.80 0.95061 0.00046	5.60 0.95162 0.00047
6.10 0.96721 0.00046	5.85 0.95557 0.00046	5.65 0.95772 0.00046
6.15 0.97202 0.00046	5.90 0.96111 0.00046	5.70 0.96314 0.00046
6.20 0.97692 0.00044	5.95 0.96544 0.00046	5.75 0.96826 0.00046
6.25 0.98269 0.00046	6.00 0.97204 0.00046	5.80 0.97533 0.00047
6.30 0.98772 0.00047	6.05 0.97698 0.00046	5.85 0.97953 0.00047
6.35 0.99252 0.00046	6.10 0.98264 0.00046	5.90 0.98544 0.00047
6.40 0.99841 0.00045	6.15 0.98825 0.00046	5.95 0.98984 0.00046
6.45 1.00172 0.00046	6.20 0.99282 0.00047	6.00 0.99570 0.00048
6.50 1.00662 0.00047	6.25 0.99790 0.00044	6.05 1.00083 0.00047
6.55 1.01273 0.00045	6.30 1.00263 0.00046	6.10 1.00618 0.00048
6.60 1.01684 0.00047	6.35 1.00720 0.00046	6.15 1.01088 0.00047
	6.40 1.01316 0.00046	6.20 1.01576 0.00047
	6.45 1.01819 0.00047	6.25 1.02228 0.00046
	6.50 1.02327 0.00045	6.30 1.02700 0.00046

235	250	353
5.20 0.91512 0.00047	5.20 0.91853 0.00046	5.10 0.91822 0.00048
5.25 0.92096 0.00047	5.25 0.92413 0.00048	5.15 0.92397 0.00048
5.30 0.92752 0.00048	5.30 0.92931 0.00047	5.20 0.93085 0.00047
5.35 0.93287 0.00047	5.35 0.93556 0.00047	5.25 0.93611 0.00048
5.40 0.93850 0.00047	5.40 0.94223 0.00047	5.30 0.94166 0.00048
5.45 0.94449 0.00047	5.45 0.94888 0.00048	5.35 0.94729 0.00047
5.50 0.95053 0.00047	5.50 0.95338 0.00049	5.40 0.95322 0.00048
5.55 0.95608 0.00047	5.55 0.95888 0.00047	5.45 0.95907 0.00047
5.60 0.96183 0.00046	5.60 0.96504 0.00047	5.50 0.96447 0.00047
5.65 0.96746 0.00047	5.65 0.97079 0.00048	5.55 0.96985 0.00048
5.70 0.97244 0.00047	5.70 0.97658 0.00048	5.60 0.97551 0.00047
5.75 0.97828 0.00048	5.75 0.98120 0.00047	5.65 0.98121 0.00048
5.80 0.98425 0.00048	5.80 0.98742 0.00048	5.70 0.98648 0.00049
5.85 0.99008 0.00047	5.85 0.99237 0.00047	5.75 0.99311 0.00047
5.90 0.99566 0.00047	5.90 0.99809 0.00046	5.80 0.99870 0.00047
5.95 0.99989 0.00047	5.95 1.00313 0.00047	5.85 1.00316 0.00048

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6.00 1.00641 0.00048	6.00 1.00881 0.00047	5.90 1.00800 0.00048
6.05 1.01019 0.00047	6.05 1.01361 0.00048	5.95 1.01426 0.00047
6.10 1.01675 0.00049	6.10 1.01799 0.00047	6.00 1.01897 0.00048
6.15 1.01988 0.00050		
6.20 1.02702 0.00046		

470	500	600
5.10 0.92196 0.00046	5.10 0.92146 0.00047	5.15 0.92220 0.00047
5.15 0.92758 0.00045	5.15 0.92673 0.00047	5.20 0.92829 0.00048
5.20 0.93247 0.00048	5.20 0.93201 0.00048	5.25 0.93353 0.00048
5.25 0.93848 0.00047	5.25 0.93786 0.00047	5.30 0.93863 0.00045
5.30 0.94448 0.00047	5.30 0.94386 0.00049	5.40 0.94978 0.00047
5.35 0.94968 0.00049	5.35 0.94921 0.00047	5.50 0.96064 0.00047
5.40 0.95558 0.00047	5.40 0.95479 0.00046	5.55 0.96528 0.00046
5.45 0.96065 0.00048	5.45 0.95983 0.00047	5.60 0.97094 0.00047
5.50 0.96670 0.00047	5.60 0.97642 0.00049	5.65 0.97650 0.00047
5.60 0.97809 0.00048	5.65 0.98252 0.00047	5.70 0.98210 0.00048
5.65 0.98246 0.00049	5.70 0.98729 0.00048	5.75 0.98762 0.00048
5.70 0.98738 0.00048	5.75 0.99272 0.00048	5.80 0.99291 0.00046
5.75 0.99339 0.00047	5.80 0.99842 0.00048	5.85 0.99779 0.00048
5.80 0.99856 0.00048	5.85 1.00310 0.00047	5.90 1.00235 0.00047
5.85 1.00396 0.00048	5.90 1.00799 0.00048	5.95 1.00737 0.00047
5.90 1.00852 0.00046	5.95 1.01330 0.00049	6.00 1.01220 0.00048
5.95 1.01464 0.00047	6.00 1.01841 0.00049	6.05 1.01631 0.00047
6.00 1.01933 0.00048		6.10 1.02196 0.00048

605	610	615
5.10 0.91654 0.00047	5.10 0.91550 0.00046	5.10 0.91643 0.00047
5.15 0.92176 0.00047	5.20 0.92696 0.00048	5.15 0.92143 0.00047
5.20 0.92777 0.00047	5.25 0.93342 0.00046	5.20 0.92664 0.00046
5.25 0.93391 0.00047	5.30 0.93863 0.00048	5.25 0.93268 0.00047
5.30 0.93878 0.00047	5.35 0.94416 0.00047	5.30 0.93873 0.00047
5.35 0.94464 0.00047	5.40 0.94912 0.00048	5.35 0.94442 0.00049
5.40 0.94921 0.00048	5.45 0.95455 0.00048	5.40 0.94923 0.00046
5.45 0.95438 0.00046	5.50 0.95974 0.00047	5.45 0.95448 0.00047
5.50 0.95989 0.00047	5.55 0.96549 0.00048	5.50 0.95903 0.00048
5.55 0.96605 0.00048	5.60 0.97079 0.00047	5.55 0.96533 0.00048
5.60 0.97134 0.00046	5.65 0.97558 0.00046	5.60 0.97150 0.00047
5.65 0.97614 0.00048	5.70 0.98079 0.00048	5.65 0.97596 0.00048
5.70 0.98143 0.00047	5.75 0.98652 0.00048	5.70 0.98111 0.00047
5.75 0.98665 0.00047	5.80 0.99203 0.00048	5.75 0.98660 0.00046
5.80 0.99288 0.00048	5.85 0.99726 0.00046	5.80 0.99190 0.00047
5.85 0.99786 0.00047	5.90 1.00191 0.00047	5.85 0.99740 0.00047
5.90 1.00182 0.00047	5.95 1.00747 0.00046	5.90 1.00174 0.00048
5.95 1.00681 0.00048	6.00 1.01122 0.00047	5.95 1.00657 0.00048
6.00 1.01164 0.00048	6.05 1.01741 0.00047	6.00 1.01106 0.00049
6.05 1.01715 0.00048	6.10 1.02086 0.00047	6.05 1.01634 0.00046
6.10 1.02174 0.00047		6.10 1.02125 0.00048

620	625	629
5.10 0.91513 0.00046	5.10 0.91549 0.00048	5.10 0.91489 0.00048
5.15 0.92107 0.00047	5.15 0.92038 0.00047	5.15 0.92110 0.00048
5.20 0.92633 0.00047	5.20 0.92623 0.00046	5.20 0.92597 0.00046
5.25 0.93152 0.00047	5.25 0.93249 0.00048	5.25 0.93122 0.00047
5.30 0.93757 0.00049	5.30 0.93798 0.00047	5.30 0.93759 0.00046
5.35 0.94330 0.00045	5.35 0.94278 0.00047	5.35 0.94327 0.00048
5.40 0.94899 0.00047	5.40 0.94888 0.00048	5.40 0.94816 0.00046
5.45 0.95463 0.00046	5.45 0.95411 0.00047	5.45 0.95374 0.00047
5.50 0.95863 0.00048	5.50 0.96076 0.00047	5.50 0.95852 0.00047
5.55 0.96512 0.00048	5.55 0.96527 0.00048	5.55 0.96458 0.00047
5.60 0.97005 0.00046	5.60 0.96903 0.00047	5.60 0.96876 0.00048
5.65 0.97590 0.00047	5.65 0.97454 0.00049	5.65 0.97473 0.00048
5.70 0.98053 0.00048	5.70 0.98112 0.00049	5.70 0.97971 0.00047
5.75 0.98520 0.00047	5.75 0.98550 0.00047	5.75 0.98417 0.00047
5.80 0.99117 0.00048	5.80 0.98982 0.00047	5.80 0.99072 0.00047
5.85 0.99492 0.00048	5.85 0.99567 0.00047	5.85 0.99539 0.00048
5.90 1.00056 0.00048	5.90 1.00071 0.00048	5.90 1.00021 0.00047
5.95 1.00578 0.00047	5.95 1.00623 0.00048	5.95 1.00509 0.00049
6.00 1.01099 0.00046	6.00 1.01088 0.00048	6.00 1.01014 0.00048
6.05 1.01553 0.00048	6.05 1.01543 0.00046	6.05 1.01489 0.00047
6.10 1.02055 0.00046	6.10 1.02054 0.00048	6.10 1.01941 0.00048

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12	15	20
41.10 0.89018 0.00017	26.30 0.92689 0.00023	17.50 0.92538 0.00032
41.90 0.89254 0.00016	27.30 0.93521 0.00022	17.70 0.92978 0.00030
42.70 0.89376 0.00016	28.30 0.94225 0.00022	17.90 0.93473 0.00030
43.50 0.89561 0.00016	29.30 0.94905 0.00022	18.10 0.93883 0.00031
44.30 0.89681 0.00017	30.30 0.95530 0.00021	18.30 0.94319 0.00030
45.10 0.89891 0.00015	31.30 0.96051 0.00021	18.50 0.94740 0.00030
45.90 0.89986 0.00016	32.30 0.96581 0.00020	18.70 0.95176 0.00030
46.70 0.90163 0.00016	33.30 0.96999 0.00020	18.90 0.95501 0.00029
47.50 0.90328 0.00015	34.30 0.97454 0.00020	19.10 0.95989 0.00030
48.30 0.90428 0.00015	35.30 0.97910 0.00020	19.30 0.96358 0.00029
49.10 0.90544 0.00015	36.30 0.98262 0.00020	19.50 0.96715 0.00029
49.90 0.90635 0.00015	37.30 0.98649 0.00019	19.70 0.97101 0.00030
50.70 0.90751 0.00016	38.30 0.98970 0.00019	19.90 0.97416 0.00028
51.50 0.90895 0.00015	39.30 0.99263 0.00019	20.10 0.97812 0.00028
52.30 0.90972 0.00015	40.30 0.99588 0.00018	20.30 0.98106 0.00028
53.10 0.91066 0.00015	41.30 0.99855 0.00018	20.50 0.98463 0.00029
53.90 0.91131 0.00015	42.30 1.00105 0.00018	20.70 0.98762 0.00028
54.70 0.91289 0.00015	43.30 1.00350 0.00018	20.90 0.99195 0.00028
55.50 0.91354 0.00015	44.30 1.00563 0.00018	21.10 0.99398 0.00030
56.30 0.91407 0.00015	45.30 1.00796 0.00018	21.30 0.99700 0.00028
57.10 0.91509 0.00015	46.30 1.00925 0.00018	21.50 1.00016 0.00027

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57.90 0.91623 0.00015	47.30 1.01116 0.00017	21.70 1.00341 0.00028
58.60 0.91685 0.00014	47.70 1.01236 0.00017	21.90 1.00584 0.00027
		22.10 1.00874 0.00028
		22.30 1.01145 0.00027
		22.40 1.01310 0.00027

25	30	32
14.60 0.92491 0.00034	13.00 0.92102 0.00037	12.60 0.92142 0.00039
14.70 0.92866 0.00034	13.10 0.92533 0.00038	12.70 0.92557 0.00037
14.80 0.93252 0.00034	13.20 0.92974 0.00038	12.80 0.93133 0.00039
14.90 0.93561 0.00035	13.40 0.93836 0.00037	12.90 0.93555 0.00038
15.00 0.93888 0.00034	13.50 0.94304 0.00036	13.00 0.94072 0.00037
15.10 0.94225 0.00034	13.70 0.95181 0.00037	13.10 0.94605 0.00038
15.20 0.94623 0.00034	13.80 0.95583 0.00037	13.20 0.94991 0.00038
15.30 0.94933 0.00034	14.00 0.96449 0.00036	13.30 0.95460 0.00038
15.40 0.95190 0.00033	14.10 0.96788 0.00038	13.40 0.95955 0.00039
15.60 0.95869 0.00034	14.20 0.97232 0.00037	13.50 0.96369 0.00038
15.70 0.96213 0.00035	14.30 0.97588 0.00037	13.60 0.96734 0.00039
15.80 0.96550 0.00034	14.40 0.97955 0.00036	13.70 0.97167 0.00037
15.90 0.96809 0.00033	14.50 0.98370 0.00037	13.80 0.97708 0.00038
16.00 0.97080 0.00033	14.60 0.98767 0.00038	13.90 0.98078 0.00038
16.10 0.97340 0.00033	14.70 0.99084 0.00038	14.00 0.98530 0.00038
16.20 0.97706 0.00033	14.80 0.99549 0.00037	14.20 0.99306 0.00037
16.30 0.97954 0.00033	14.90 0.99883 0.00037	14.30 0.99727 0.00038
16.40 0.98306 0.00033	15.00 1.00272 0.00036	14.40 1.00111 0.00038
16.50 0.98612 0.00034	15.10 1.00635 0.00036	14.60 1.00894 0.00037
16.60 0.98830 0.00032	15.20 1.01031 0.00036	14.70 1.01288 0.00038
16.70 0.99110 0.00033	15.30 1.01277 0.00036	14.80 1.01580 0.00037
16.80 0.99376 0.00033	15.40 1.01605 0.00036	
16.90 0.99652 0.00033		
17.00 0.99933 0.00034		
17.10 1.00220 0.00032		
17.20 1.00451 0.00034		
17.30 1.00739 0.00032		
17.40 1.00944 0.00033		
17.50 1.01203 0.00032		
17.60 1.01444 0.00032		

35	40	50
12.10 0.92154 0.00039	11.40 0.91885 0.00041	10.60 0.91992 0.00043
12.20 0.92705 0.00040	11.50 0.92504 0.00042	10.65 0.92328 0.00044
12.30 0.93296 0.00039	11.60 0.93058 0.00041	10.70 0.92728 0.00043
12.40 0.93736 0.00040	11.70 0.93626 0.00041	10.75 0.93051 0.00044
12.50 0.94301 0.00040	11.80 0.94198 0.00042	10.80 0.93432 0.00044
12.60 0.94762 0.00041	11.90 0.94867 0.00042	10.85 0.93714 0.00044
12.70 0.95266 0.00041	12.00 0.95480 0.00042	10.90 0.94139 0.00043
12.80 0.95774 0.00040	12.10 0.95969 0.00040	10.95 0.94374 0.00045

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12.90 0.96250 0.00039	12.20 0.96557 0.00041	11.00 0.94775 0.00045
13.00 0.96741 0.00040	12.30 0.97068 0.00041	11.05 0.95113 0.00044
13.10 0.97347 0.00038	12.40 0.97639 0.00042	11.10 0.95439 0.00045
13.20 0.97703 0.00040	12.50 0.98209 0.00041	11.15 0.95812 0.00045
13.30 0.98185 0.00039	12.60 0.98682 0.00041	11.20 0.96097 0.00044
13.40 0.98674 0.00039	12.70 0.99119 0.00041	11.25 0.96442 0.00044
13.50 0.99099 0.00039	12.80 0.99724 0.00040	11.30 0.96769 0.00044
13.60 0.99547 0.00039	12.90 1.00208 0.00041	11.35 0.97092 0.00043
13.70 1.00046 0.00038	13.00 1.00707 0.00040	11.40 0.97355 0.00044
13.80 1.00545 0.00039	13.10 1.01237 0.00040	11.45 0.97763 0.00043
13.90 1.00789 0.00039	13.20 1.01696 0.00041	11.50 0.98032 0.00043
14.00 1.01459 0.00038	13.30 1.02277 0.00040	11.55 0.98387 0.00045
14.10 1.01711 0.00039		11.60 0.98760 0.00045
		11.65 0.98998 0.00044
		11.70 0.99302 0.00044
		11.75 0.99629 0.00043
		11.80 0.99962 0.00044
		11.85 1.00210 0.00044
		11.90 1.00441 0.00045
		11.95 1.00889 0.00045
		12.00 1.01143 0.00043
		12.05 1.01443 0.00044
		12.10 1.01768 0.00043

60	70	80
10.10 0.91996 0.00046	9.70 0.91531 0.00047	9.50 0.92029 0.00048
10.15 0.92353 0.00046	9.75 0.92058 0.00047	9.55 0.92501 0.00048
10.20 0.92870 0.00047	9.80 0.92406 0.00048	9.60 0.92939 0.00049
10.25 0.93224 0.00046	9.85 0.92934 0.00048	9.65 0.93280 0.00049
10.30 0.93627 0.00047	9.90 0.93271 0.00048	9.70 0.93793 0.00048
10.35 0.94018 0.00046	10.00 0.94054 0.00048	9.75 0.94195 0.00049
10.40 0.94394 0.00046	10.05 0.94544 0.00048	9.80 0.94618 0.00049
10.45 0.94725 0.00046	10.10 0.94930 0.00047	9.85 0.95045 0.00049
10.50 0.95177 0.00046	10.15 0.95346 0.00048	9.90 0.95476 0.00048
10.55 0.95488 0.00046	10.20 0.95737 0.00047	9.95 0.95876 0.00050
10.60 0.95868 0.00046	10.25 0.96148 0.00048	10.00 0.96286 0.00049
10.65 0.96228 0.00045	10.30 0.96512 0.00048	10.05 0.96750 0.00047
10.70 0.96554 0.00047	10.35 0.96951 0.00047	10.10 0.97237 0.00049
10.75 0.96923 0.00046	10.40 0.97292 0.00048	10.15 0.97595 0.00049
10.80 0.97455 0.00045	10.45 0.97752 0.00047	10.20 0.98026 0.00050
10.85 0.97633 0.00046	10.50 0.98120 0.00047	10.25 0.98392 0.00048
10.90 0.98083 0.00046	10.55 0.98518 0.00047	10.30 0.98727 0.00051
10.95 0.98407 0.00046	10.60 0.98837 0.00048	10.40 0.99636 0.00048
11.00 0.98773 0.00044	10.65 0.99161 0.00047	10.45 1.00005 0.00048
11.05 0.99180 0.00045	10.70 0.99639 0.00048	10.50 1.00372 0.00047
11.10 0.99426 0.00046	10.75 0.99875 0.00048	10.55 1.00747 0.00048
11.20 1.00173 0.00045	10.80 1.00298 0.00049	10.60 1.01088 0.00049
11.25 1.00401 0.00046	10.85 1.00693 0.00047	10.65 1.01555 0.00048
11.30 1.00731 0.00047	10.90 1.01041 0.00047	10.70 1.01872 0.00049

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11.35 1.01154 0.00046	10.95 1.01359 0.00048	10.75 1.02286 0.00049
11.40 1.01500 0.00046	11.00 1.01770 0.00046	10.80 1.02669 0.00048
11.45 1.01878 0.00046	11.05 1.02145 0.00046	
11.50 1.02127 0.00046	11.10 1.02548 0.00047	

90	100	118
9.30 0.91955 0.00049	9.10 0.91419 0.00050	8.90 0.91326 0.00051
9.35 0.92454 0.00050	9.15 0.91927 0.00050	8.95 0.91914 0.00051
9.40 0.92963 0.00050	9.20 0.92435 0.00048	9.00 0.92270 0.00050
9.45 0.93330 0.00050	9.25 0.92934 0.00049	9.05 0.92836 0.00051
9.50 0.93862 0.00051	9.30 0.93415 0.00050	9.10 0.93291 0.00050
9.55 0.94291 0.00050	9.35 0.93838 0.00050	9.15 0.93847 0.00051
9.60 0.94812 0.00048	9.40 0.94294 0.00050	9.20 0.94335 0.00051
9.65 0.95246 0.00050	9.45 0.94866 0.00052	9.25 0.94788 0.00051
9.70 0.95660 0.00049	9.50 0.95215 0.00051	9.30 0.95190 0.00052
9.75 0.95977 0.00051	9.55 0.95708 0.00049	9.35 0.95783 0.00052
9.80 0.96498 0.00050	9.60 0.96092 0.00051	9.40 0.96207 0.00051
9.85 0.96944 0.00050	9.65 0.96572 0.00050	9.45 0.96716 0.00049
9.90 0.97354 0.00050	9.70 0.96965 0.00050	9.50 0.97125 0.00052
9.95 0.97779 0.00049	9.75 0.97456 0.00050	9.55 0.97554 0.00051
10.00 0.98220 0.00049	9.80 0.97878 0.00051	9.60 0.98063 0.00054
10.10 0.99058 0.00049	9.85 0.98348 0.00049	9.65 0.98504 0.00051
10.15 0.99416 0.00050	9.90 0.98829 0.00051	9.70 0.98885 0.00050
10.20 0.99945 0.00048	9.95 0.99296 0.00051	9.75 0.99434 0.00050
10.25 1.00256 0.00048	10.00 0.99629 0.00050	9.80 0.99909 0.00052
10.30 1.00661 0.00052	10.05 1.00043 0.00050	9.85 1.00251 0.00052
10.35 1.01140 0.00048	10.10 1.00380 0.00050	9.90 1.00684 0.00051
10.40 1.01527 0.00047	10.15 1.00930 0.00050	9.95 1.01193 0.00053
10.45 1.01940 0.00049	10.20 1.01333 0.00050	10.00 1.01586 0.00049
10.50 1.02291 0.00049	10.25 1.01671 0.00049	10.05 1.02009 0.00051
	10.30 1.02166 0.00049	10.10 1.02517 0.00053

130	150	200
8.80 0.91398 0.00051	8.70 0.91438 0.00053	8.60 0.92227 0.00054
8.85 0.91795 0.00051	8.75 0.92069 0.00051	8.65 0.92732 0.00054
8.90 0.92290 0.00051	8.80 0.92490 0.00052	8.70 0.93205 0.00053
8.95 0.92835 0.00051	8.85 0.92989 0.00051	8.75 0.93771 0.00052
9.00 0.93299 0.00053	8.90 0.93523 0.00052	8.80 0.94345 0.00052
9.05 0.93800 0.00053	8.95 0.94047 0.00052	8.90 0.95288 0.00053
9.10 0.94262 0.00051	9.00 0.94598 0.00052	8.95 0.95805 0.00051
9.15 0.94855 0.00050	9.05 0.95034 0.00053	9.00 0.96293 0.00052
9.20 0.95221 0.00052	9.10 0.95532 0.00052	9.05 0.96822 0.00051
9.25 0.95728 0.00051	9.15 0.96080 0.00052	9.10 0.97410 0.00055
9.30 0.96250 0.00053	9.20 0.96537 0.00051	9.15 0.97817 0.00052
9.35 0.96709 0.00053	9.25 0.96853 0.00053	9.20 0.98296 0.00053
9.40 0.97252 0.00051	9.35 0.98015 0.00052	9.25 0.98755 0.00052
9.45 0.97666 0.00051	9.40 0.98475 0.00053	9.35 0.99779 0.00053

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9.50 0.98117 0.00052	9.45 0.99010 0.00053	9.40 1.00232 0.00051
9.55 0.98594 0.00051	9.50 0.99318 0.00052	9.45 1.00684 0.00054
9.60 0.99033 0.00051	9.55 0.99871 0.00052	9.50 1.01232 0.00053
9.65 0.99486 0.00052	9.60 1.00288 0.00052	9.55 1.01687 0.00053
9.70 1.00021 0.00050	9.65 1.00813 0.00051	9.60 1.02205 0.00054
9.75 1.00435 0.00052	9.70 1.01236 0.00051	
9.80 1.00906 0.00051	9.75 1.01636 0.00053	
9.85 1.01317 0.00050	9.80 1.02214 0.00052	
9.90 1.01786 0.00052		
9.95 1.02188 0.00050		

235	250	353
8.50 0.91624 0.00053	8.55 0.92360 0.00051	8.50 0.91708 0.00053
8.55 0.92253 0.00052	8.60 0.92918 0.00053	8.60 0.92804 0.00053
8.60 0.92802 0.00055	8.70 0.93902 0.00053	8.65 0.93400 0.00052
8.65 0.93316 0.00052	8.75 0.94540 0.00053	8.70 0.93858 0.00053
8.70 0.93771 0.00054	8.80 0.94956 0.00053	8.75 0.94419 0.00052
8.75 0.94328 0.00053	8.85 0.95522 0.00053	8.80 0.94898 0.00053
8.80 0.94754 0.00053	8.90 0.95998 0.00053	8.85 0.95377 0.00052
8.85 0.95338 0.00055	8.95 0.96549 0.00053	8.90 0.96006 0.00053
8.90 0.95950 0.00052	9.00 0.97062 0.00053	8.95 0.96465 0.00054
8.95 0.96425 0.00053	9.10 0.98153 0.00053	9.00 0.96875 0.00055
9.00 0.96975 0.00053	9.15 0.98589 0.00054	9.05 0.97455 0.00054
9.05 0.97353 0.00052	9.20 0.99147 0.00053	9.10 0.97995 0.00054
9.10 0.97873 0.00055	9.25 0.99599 0.00053	9.15 0.98437 0.00053
9.15 0.98419 0.00053	9.30 1.00024 0.00053	9.20 0.98952 0.00054
9.20 0.98830 0.00054	9.35 1.00499 0.00053	9.25 0.99522 0.00054
9.25 0.99330 0.00054	9.40 1.01083 0.00053	9.30 0.99963 0.00052
9.30 0.99799 0.00052	9.45 1.01445 0.00054	9.35 1.00413 0.00053
9.40 1.00790 0.00055	9.50 1.01929 0.00054	9.40 1.00849 0.00054
9.45 1.01238 0.00054	9.55 1.02390 0.00055	9.55 1.02231 0.00052
9.50 1.01751 0.00053	9.60 1.02786 0.00054	9.60 1.02812 0.00055
9.55 1.02192 0.00054		
9.60 1.02701 0.00052		

470	500	510
8.60 0.91790 0.00052	8.60 0.91323 0.00053	8.60 0.91124 0.00054
8.65 0.92224 0.00053	8.65 0.91794 0.00053	8.65 0.91594 0.00052
8.70 0.92725 0.00054	8.70 0.92296 0.00053	8.70 0.92268 0.00054
8.75 0.93281 0.00052	8.75 0.92745 0.00052	8.75 0.92818 0.00052
8.80 0.93786 0.00053	8.80 0.93333 0.00054	8.80 0.93243 0.00052
8.85 0.94346 0.00054	8.85 0.93782 0.00053	8.85 0.93740 0.00054
8.90 0.94879 0.00053	8.90 0.94323 0.00054	8.90 0.94102 0.00053
8.95 0.95209 0.00053	8.95 0.94739 0.00054	8.95 0.94691 0.00053
9.00 0.95788 0.00051	9.00 0.95401 0.00053	9.00 0.95208 0.00054
9.05 0.96264 0.00052	9.05 0.95885 0.00052	9.05 0.95659 0.00053
9.10 0.96804 0.00054	9.10 0.96396 0.00052	9.10 0.96233 0.00054

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9.15 0.97359 0.00053	9.20 0.97213 0.00051	9.15 0.96605 0.00052
9.20 0.97795 0.00051	9.25 0.97775 0.00053	9.20 0.97149 0.00051
9.25 0.98200 0.00053	9.30 0.98201 0.00052	9.25 0.97630 0.00053
9.30 0.98780 0.00053	9.35 0.98748 0.00053	9.30 0.98121 0.00052
9.35 0.99253 0.00053	9.40 0.99112 0.00053	9.35 0.98559 0.00053
9.40 0.99618 0.00053	9.45 0.99686 0.00053	9.40 0.99009 0.00054
9.45 1.00196 0.00054	9.50 1.00078 0.00054	9.45 0.99499 0.00053
9.55 1.01061 0.00054	9.55 1.00607 0.00051	9.50 0.99913 0.00054
9.60 1.01582 0.00054	9.60 1.01067 0.00053	9.55 1.00351 0.00053
9.65 1.01903 0.00054	9.65 1.01520 0.00054	9.60 1.00864 0.00053
9.70 1.02307 0.00054	9.70 1.01889 0.00053	9.65 1.01283 0.00053
	9.75 1.02340 0.00052	9.70 1.01792 0.00054
	9.80 1.02809 0.00053	9.75 1.02175 0.00055
		9.80 1.02767 0.00055

520	530	540
8.70 0.91994 0.00051	8.70 0.91884 0.00053	8.70 0.91573 0.00053
8.75 0.92473 0.00052	8.75 0.92319 0.00051	8.75 0.92142 0.00053
8.85 0.93483 0.00052	8.80 0.92921 0.00051	8.80 0.92692 0.00051
8.90 0.93978 0.00054	8.85 0.93295 0.00051	8.85 0.93215 0.00052
8.95 0.94469 0.00055	8.90 0.93745 0.00054	8.90 0.93691 0.00051
9.00 0.95019 0.00051	8.95 0.94378 0.00053	8.95 0.94294 0.00052
9.05 0.95465 0.00053	9.00 0.94896 0.00052	9.00 0.94788 0.00052
9.10 0.95968 0.00053	9.05 0.95423 0.00051	9.05 0.95257 0.00052
9.15 0.96572 0.00054	9.10 0.95980 0.00053	9.10 0.95652 0.00053
9.20 0.97001 0.00053	9.15 0.96332 0.00052	9.15 0.96188 0.00053
9.25 0.97508 0.00053	9.20 0.96794 0.00054	9.20 0.96639 0.00054
9.30 0.97848 0.00052	9.25 0.97252 0.00051	9.25 0.97070 0.00052
9.35 0.98400 0.00054	9.30 0.97775 0.00052	9.30 0.97614 0.00053
9.40 0.98849 0.00053	9.35 0.98163 0.00052	9.35 0.98110 0.00052
9.45 0.99329 0.00053	9.40 0.98681 0.00052	9.40 0.98452 0.00052
9.50 0.99851 0.00053	9.45 0.99234 0.00051	9.45 0.98905 0.00052
9.55 1.00254 0.00052	9.50 0.99546 0.00053	9.50 0.99418 0.00052
9.60 1.00664 0.00053	9.55 1.00071 0.00052	9.55 0.99941 0.00051
9.65 1.01234 0.00052	9.60 1.00528 0.00052	9.60 1.00552 0.00052
9.70 1.01534 0.00054	9.65 1.00924 0.00053	9.65 1.00896 0.00053
9.75 1.02018 0.00053	9.70 1.01359 0.00053	9.75 1.01732 0.00054
9.80 1.02398 0.00052	9.75 1.01882 0.00054	
	9.80 1.02276 0.00055	

550	560
8.70 0.91455 0.00052	8.70 0.91462 0.00051
8.75 0.92095 0.00052	8.75 0.91908 0.00052
8.80 0.92604 0.00051	8.80 0.92398 0.00053
8.85 0.93143 0.00051	8.85 0.92921 0.00051
8.95 0.93957 0.00053	8.90 0.93410 0.00053
9.00 0.94556 0.00054	8.95 0.93914 0.00051

9.10 0.95524 0.00053	9.00 0.94299 0.00053
9.15 0.95971 0.00052	9.05 0.94905 0.00053
9.20 0.96408 0.00052	9.10 0.95441 0.00053
9.30 0.97452 0.00053	9.15 0.95871 0.00053
9.35 0.97873 0.00052	9.20 0.96323 0.00053
9.40 0.98323 0.00053	9.25 0.96750 0.00052
9.45 0.98823 0.00052	9.30 0.97248 0.00053
9.55 0.99719 0.00053	9.35 0.97746 0.00052
9.60 1.00164 0.00052	9.40 0.98262 0.00053
9.65 1.00631 0.00052	9.45 0.98654 0.00053
9.70 1.01052 0.00052	9.50 0.99097 0.00053
9.75 1.01534 0.00053	9.55 0.99536 0.00054
9.80 1.01938 0.00054	9.60 1.00087 0.00052
9.85 1.02355 0.00053	9.65 1.00503 0.00055
9.90 1.02864 0.00052	9.70 1.00792 0.00052
	9.75 1.01323 0.00052
	9.80 1.01866 0.00053
	9.85 1.02304 0.00052
	9.90 1.02678 0.00053

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12	15	20
36.60 0.88259 0.00018	24.90 0.92802 0.00023	16.00 0.92653 0.00030
37.80 0.88648 0.00017	25.90 0.93598 0.00022	16.20 0.93110 0.00030
39.00 0.88881 0.00017	26.90 0.94333 0.00022	16.40 0.93554 0.00029
40.20 0.89180 0.00016	27.90 0.94962 0.00022	16.60 0.94025 0.00030
41.40 0.89469 0.00016	28.90 0.95608 0.00021	16.80 0.94470 0.00029
42.60 0.89712 0.00016	29.90 0.96109 0.00020	17.00 0.94873 0.00029
43.80 0.89946 0.00016	30.90 0.96650 0.00020	17.20 0.95272 0.00029
45.00 0.90128 0.00016	31.90 0.97110 0.00019	17.40 0.95687 0.00029
46.20 0.90371 0.00015	32.90 0.97578 0.00020	17.60 0.96048 0.00028
47.40 0.90535 0.00015	33.90 0.97954 0.00020	17.80 0.96409 0.00028
48.60 0.90655 0.00015	34.90 0.98304 0.00019	18.00 0.96797 0.00029
49.80 0.90870 0.00015	35.90 0.98754 0.00019	18.20 0.97123 0.00028
51.00 0.90968 0.00015	36.90 0.99019 0.00018	18.40 0.97531 0.00028
52.20 0.91150 0.00015	37.90 0.99350 0.00019	18.60 0.97838 0.00028
53.40 0.91302 0.00015	38.90 0.99606 0.00018	18.80 0.98231 0.00027
54.60 0.91428 0.00015	39.90 0.99858 0.00018	19.00 0.98531 0.00028
55.80 0.91527 0.00015	40.90 1.00092 0.00018	19.20 0.98845 0.00027
57.00 0.91644 0.00014	41.90 1.00389 0.00018	19.40 0.99159 0.00027
58.20 0.91739 0.00015	42.90 1.00585 0.00017	19.60 0.99449 0.00027
59.40 0.91847 0.00014	43.90 1.00853 0.00017	19.80 0.99850 0.00028
60.60 0.91960 0.00014	44.90 1.00985 0.00017	20.00 1.00101 0.00027
60.90 0.91985 0.00014	45.90 1.01173 0.00017	20.20 1.00475 0.00027
	46.10 1.01195 0.00017	20.40 1.00726 0.00027
		20.60 1.00954 0.00027
		20.80 1.01150 0.00027
		20.90 1.01391 0.00026

25	30	32
13.00 0.92239 0.00034	11.50 0.92197 0.00037	11.10 0.92362 0.00037
13.10 0.92644 0.00033	11.60 0.92786 0.00035	11.20 0.92889 0.00038
13.30 0.93413 0.00033	11.70 0.93203 0.00036	11.30 0.93364 0.00037
13.40 0.93744 0.00034	11.80 0.93664 0.00036	11.40 0.93863 0.00038
13.50 0.94108 0.00034	11.90 0.94114 0.00035	11.50 0.94274 0.00037
13.60 0.94400 0.00033	12.10 0.95057 0.00037	11.60 0.94781 0.00037
13.70 0.94761 0.00034	12.20 0.95390 0.00036	11.70 0.95251 0.00037
13.90 0.95405 0.00033	12.30 0.95772 0.00035	11.80 0.95674 0.00037
14.00 0.95743 0.00032	12.40 0.96271 0.00035	11.90 0.96206 0.00036
14.10 0.96049 0.00033	12.50 0.96647 0.00036	12.00 0.96662 0.00037
14.20 0.96334 0.00032	12.60 0.97073 0.00035	12.10 0.97033 0.00036
14.30 0.96654 0.00032	12.70 0.97350 0.00036	12.20 0.97491 0.00036
14.40 0.96946 0.00033	12.80 0.97863 0.00035	12.30 0.97867 0.00037
14.50 0.97292 0.00032	12.90 0.98259 0.00035	12.40 0.98264 0.00037
14.60 0.97552 0.00032	13.00 0.98555 0.00036	12.50 0.98743 0.00037
14.70 0.97854 0.00033	13.10 0.99015 0.00036	12.60 0.99179 0.00036
14.80 0.98123 0.00032	13.20 0.99325 0.00035	12.70 0.99460 0.00036
14.90 0.98459 0.00032	13.30 0.99746 0.00034	12.80 0.99966 0.00036
15.00 0.98717 0.00032	13.40 1.00127 0.00034	12.90 1.00344 0.00035
15.10 0.99030 0.00033	13.50 1.00479 0.00036	13.00 1.00747 0.00037
15.20 0.99252 0.00033	13.60 1.00799 0.00035	13.10 1.01056 0.00037
15.30 0.99547 0.00033	13.70 1.01137 0.00035	13.20 1.01450 0.00035
15.40 0.99865 0.00032	13.80 1.01560 0.00034	13.30 1.01809 0.00037
15.50 1.00021 0.00032	13.90 1.01824 0.00035	
15.60 1.00275 0.00032		
15.70 1.00553 0.00032		
15.80 1.00879 0.00032		
15.90 1.01136 0.00032		
16.00 1.01382 0.00032		
16.10 1.01604 0.00031		

35	40	50
10.50 0.91911 0.00039	9.90 0.92205 0.00041	9.00 0.91615 0.00044
10.60 0.92508 0.00039	10.00 0.92740 0.00041	9.05 0.92041 0.00042
10.70 0.93050 0.00038	10.10 0.93361 0.00041	9.10 0.92369 0.00042
10.80 0.93587 0.00038	10.20 0.93965 0.00039	9.15 0.92695 0.00042
10.90 0.94010 0.00039	10.30 0.94558 0.00040	9.20 0.93134 0.00042
11.00 0.94592 0.00038	10.40 0.95141 0.00041	9.25 0.93356 0.00044
11.10 0.95140 0.00039	10.50 0.95698 0.00040	9.30 0.93746 0.00042
11.20 0.95577 0.00038	10.60 0.96275 0.00040	9.35 0.94147 0.00042
11.30 0.96105 0.00038	10.70 0.96838 0.00040	9.40 0.94483 0.00043
11.40 0.96608 0.00038	10.80 0.97398 0.00040	9.45 0.94832 0.00044
11.50 0.97073 0.00039	10.90 0.97855 0.00040	9.50 0.95151 0.00041
11.60 0.97655 0.00037	11.00 0.98483 0.00040	9.55 0.95446 0.00043
11.70 0.98009 0.00037	11.10 0.98973 0.00040	9.60 0.95763 0.00042
11.80 0.98528 0.00038	11.20 0.99488 0.00039	9.65 0.96114 0.00044

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11.90 0.98961 0.00038	11.30 1.00020 0.00040	9.70 0.96500 0.00043
12.00 0.99466 0.00037	11.40 1.00473 0.00039	9.75 0.96802 0.00044
12.10 0.99810 0.00038	11.50 1.01019 0.00040	9.80 0.97162 0.00041
12.20 1.00329 0.00038	11.60 1.01519 0.00040	9.85 0.97536 0.00042
12.30 1.00719 0.00038	11.70 1.01949 0.00040	9.90 0.97782 0.00043
12.40 1.01133 0.00037		9.95 0.98147 0.00041
12.50 1.01592 0.00038		10.00 0.98403 0.00042
12.60 1.01976 0.00037		10.05 0.98706 0.00042
		10.10 0.99094 0.00041
		10.15 0.99332 0.00043
		10.20 0.99656 0.00043
		10.25 0.99967 0.00043
		10.30 1.00278 0.00043
		10.35 1.00626 0.00041
		10.40 1.00911 0.00042
		10.45 1.01195 0.00042
		10.50 1.01505 0.00042
		10.55 1.01748 0.00041
		10.60 1.02031 0.00043

60	70	80
8.50 0.91727 0.00044	8.20 0.92192 0.00045	7.90 0.91699 0.00047
8.55 0.92123 0.00045	8.25 0.92591 0.00046	7.95 0.92116 0.00046
8.60 0.92449 0.00044	8.30 0.92995 0.00046	8.00 0.92626 0.00047
8.65 0.92888 0.00044	8.35 0.93343 0.00044	8.05 0.93112 0.00046
8.70 0.93260 0.00045	8.40 0.93822 0.00044	8.10 0.93507 0.00045
8.75 0.93632 0.00043	8.45 0.94201 0.00046	8.15 0.93941 0.00046
8.80 0.94129 0.00044	8.50 0.94659 0.00045	8.20 0.94345 0.00049
8.85 0.94487 0.00044	8.55 0.95081 0.00046	8.25 0.94732 0.00045
8.90 0.94835 0.00044	8.60 0.95467 0.00046	8.30 0.95213 0.00047
8.95 0.95214 0.00045	8.65 0.95867 0.00045	8.35 0.95666 0.00046
9.00 0.95624 0.00043	8.70 0.96192 0.00046	8.40 0.96037 0.00046
9.05 0.95956 0.00045	8.80 0.97019 0.00046	8.50 0.96870 0.00047
9.10 0.96278 0.00046	8.85 0.97451 0.00045	8.55 0.97479 0.00047
9.15 0.96721 0.00044	8.95 0.98120 0.00046	8.60 0.97704 0.00046
9.20 0.97102 0.00044	9.00 0.98622 0.00047	8.65 0.98123 0.00048
9.25 0.97434 0.00045	9.05 0.98985 0.00045	8.75 0.98977 0.00046
9.30 0.97778 0.00045	9.10 0.99332 0.00045	8.80 0.99356 0.00048
9.35 0.98088 0.00044	9.15 0.99764 0.00046	8.85 0.99821 0.00046
9.40 0.98545 0.00045	9.20 1.00043 0.00046	8.90 1.00121 0.00046
9.45 0.98903 0.00043	9.25 1.00437 0.00046	8.95 1.00611 0.00046
9.50 0.99179 0.00045	9.30 1.00846 0.00045	9.00 1.00891 0.00046
9.55 0.99552 0.00044	9.35 1.01150 0.00046	9.05 1.01345 0.00046
9.60 0.99878 0.00045	9.40 1.01611 0.00045	9.10 1.01745 0.00047
9.65 1.00137 0.00042	9.45 1.01923 0.00045	9.15 1.02073 0.00047
9.70 1.00589 0.00044	9.50 1.02353 0.00046	9.20 1.02425 0.00047
9.75 1.00886 0.00044		
9.85 1.01595 0.00044		
9.90 1.01880 0.00046		

90	100	118
7.70 0.91678 0.00047	7.60 0.92134 0.00050	7.40 0.91940 0.00050
7.75 0.92130 0.00048	7.65 0.92662 0.00049	7.45 0.92609 0.00049
7.80 0.92660 0.00047	7.70 0.93100 0.00048	7.50 0.93040 0.00049
7.85 0.93050 0.00047	7.75 0.93600 0.00048	7.55 0.93585 0.00049
7.90 0.93556 0.00048	7.80 0.94044 0.00048	7.60 0.94071 0.00049
7.95 0.94005 0.00048	7.85 0.94550 0.00048	7.65 0.94548 0.00048
8.00 0.94530 0.00047	7.90 0.94948 0.00047	7.70 0.94970 0.00049
8.05 0.94915 0.00049	7.95 0.95497 0.00049	7.75 0.95567 0.00048
8.15 0.95878 0.00048	8.00 0.95933 0.00047	7.80 0.95942 0.00048
8.20 0.96309 0.00047	8.05 0.96312 0.00049	7.85 0.96373 0.00048
8.25 0.96707 0.00048	8.10 0.96799 0.00048	7.90 0.96929 0.00047
8.30 0.97081 0.00047	8.15 0.97183 0.00048	7.95 0.97366 0.00050
8.35 0.97503 0.00048	8.20 0.97641 0.00049	8.00 0.97767 0.00050
8.40 0.97912 0.00049	8.25 0.98034 0.00048	8.05 0.98358 0.00048
8.45 0.98405 0.00048	8.30 0.98544 0.00049	8.10 0.98827 0.00047
8.50 0.98713 0.00048	8.35 0.99049 0.00047	8.15 0.99256 0.00050
8.55 0.99162 0.00048	8.40 0.99479 0.00048	8.20 0.99642 0.00049
8.60 0.99558 0.00047	8.45 0.99966 0.00049	8.25 1.00074 0.00049
8.65 0.99993 0.00049	8.50 1.00202 0.00049	8.30 1.00624 0.00049
8.70 1.00468 0.00048	8.55 1.00637 0.00048	8.35 1.00988 0.00048
8.75 1.00767 0.00047	8.60 1.01079 0.00049	8.40 1.01371 0.00049
8.80 1.01272 0.00049	8.65 1.01517 0.00047	8.45 1.01852 0.00050
8.85 1.01600 0.00046	8.70 1.01874 0.00047	8.50 1.02226 0.00050
8.90 1.02049 0.00047		

130	150	200
7.30 0.92096 0.00048	7.10 0.91230 0.00048	7.00 0.92035 0.00050
7.35 0.92681 0.00050	7.15 0.91839 0.00049	7.05 0.92684 0.00051
7.40 0.93059 0.00050	7.20 0.92321 0.00048	7.10 0.93150 0.00050
7.45 0.93689 0.00049	7.25 0.92811 0.00051	7.15 0.93640 0.00049
7.50 0.93965 0.00050	7.30 0.93389 0.00050	7.20 0.94133 0.00051
7.55 0.94627 0.00049	7.35 0.93863 0.00050	7.35 0.95686 0.00050
7.60 0.95100 0.00049	7.40 0.94357 0.00049	7.40 0.96193 0.00051
7.65 0.95518 0.00050	7.45 0.94874 0.00050	7.45 0.96760 0.00050
7.70 0.96088 0.00050	7.50 0.95322 0.00050	7.50 0.97219 0.00049
7.75 0.96545 0.00049	7.55 0.95747 0.00049	7.55 0.97845 0.00052
7.80 0.97134 0.00050	7.60 0.96338 0.00049	7.60 0.98226 0.00051
7.85 0.97477 0.00049	7.65 0.96809 0.00051	7.65 0.98705 0.00051
7.90 0.98046 0.00048	7.70 0.97300 0.00049	7.70 0.99291 0.00050
7.95 0.98481 0.00049	7.80 0.98320 0.00050	7.75 0.99694 0.00050
8.00 0.98887 0.00049	7.90 0.99239 0.00050	7.80 1.00162 0.00051
8.05 0.99396 0.00049	7.95 0.99749 0.00050	7.85 1.00628 0.00051
8.10 0.99889 0.00050	8.00 1.00108 0.00050	7.90 1.01058 0.00053
8.15 1.00276 0.00050	8.05 1.00626 0.00049	7.95 1.01594 0.00050
8.20 1.00666 0.00049	8.10 1.01010 0.00052	8.00 1.02063 0.00051

8.25 1.00968 0.00049	8.15 1.01582 0.00052
8.30 1.01651 0.00050	8.20 1.01944 0.00051
8.40 1.02422 0.00050	

235	250	353
6.90 0.91653 0.00051	6.90 0.91860 0.00051	6.90 0.91974 0.00051
6.95 0.92162 0.00051	7.00 0.92835 0.00052	6.95 0.92513 0.00053
7.00 0.92683 0.00052	7.10 0.93891 0.00050	7.00 0.92998 0.00051
7.05 0.93193 0.00051	7.15 0.94457 0.00053	7.05 0.93490 0.00051
7.10 0.93829 0.00050	7.25 0.95483 0.00051	7.15 0.94612 0.00052
7.15 0.94323 0.00051	7.30 0.96085 0.00051	7.20 0.95022 0.00050
7.20 0.94797 0.00050	7.35 0.96545 0.00051	7.25 0.95665 0.00051
7.25 0.95272 0.00051	7.40 0.97031 0.00052	7.30 0.96163 0.00051
7.30 0.95815 0.00051	7.45 0.97575 0.00051	7.35 0.96643 0.00051
7.35 0.96366 0.00051	7.50 0.98048 0.00051	7.40 0.97121 0.00053
7.40 0.96918 0.00051	7.55 0.98485 0.00052	7.45 0.97580 0.00053
7.45 0.97438 0.00050	7.60 0.99057 0.00050	7.50 0.98089 0.00052
7.50 0.97871 0.00051	7.65 0.99556 0.00052	7.55 0.98499 0.00050
7.55 0.98296 0.00051	7.70 1.00038 0.00051	7.60 0.99081 0.00052
7.60 0.98922 0.00052	7.75 1.00479 0.00050	7.65 0.99523 0.00053
7.65 0.99361 0.00053	7.80 1.00916 0.00052	7.70 1.00104 0.00052
7.70 0.99842 0.00051	7.85 1.01503 0.00052	7.75 1.00554 0.00053
7.75 1.00379 0.00052	7.90 1.01954 0.00052	7.80 1.01068 0.00051
7.80 1.00735 0.00052	7.95 1.02405 0.00052	7.85 1.01486 0.00052
7.85 1.01276 0.00053	8.00 1.02857 0.00051	7.90 1.01939 0.00053
7.90 1.01760 0.00052		
7.95 1.02298 0.00050		
8.00 1.02525 0.00051		

470	500	510
7.00 0.92095 0.00049	7.00 0.91755 0.00051	7.00 0.91544 0.00051
7.05 0.92669 0.00051	7.05 0.92263 0.00051	7.05 0.92060 0.00051
7.15 0.93567 0.00051	7.15 0.93266 0.00049	7.10 0.92571 0.00051
7.20 0.94217 0.00051	7.20 0.93798 0.00052	7.15 0.93150 0.00051
7.25 0.94655 0.00051	7.25 0.94363 0.00050	7.20 0.93709 0.00051
7.30 0.95091 0.00051	7.30 0.94767 0.00051	7.25 0.94144 0.00051
7.35 0.95549 0.00052	7.35 0.95275 0.00051	7.30 0.94612 0.00051
7.40 0.96161 0.00053	7.40 0.95715 0.00052	7.35 0.95127 0.00051
7.45 0.96650 0.00052	7.45 0.96195 0.00052	7.40 0.95628 0.00052
7.50 0.97107 0.00053	7.50 0.96779 0.00050	7.45 0.95988 0.00051
7.55 0.97547 0.00052	7.55 0.97265 0.00050	7.50 0.96581 0.00051
7.60 0.98070 0.00051	7.60 0.97674 0.00050	7.55 0.97034 0.00050
7.65 0.98570 0.00053	7.65 0.98158 0.00052	7.60 0.97553 0.00051
7.70 0.99067 0.00052	7.70 0.98681 0.00050	7.65 0.98048 0.00051
7.75 0.99506 0.00052	7.75 0.99111 0.00052	7.70 0.98460 0.00050
7.80 1.00040 0.00052	7.80 0.99643 0.00052	7.75 0.98955 0.00051
7.85 1.00498 0.00053	7.85 1.00029 0.00051	7.80 0.99416 0.00052

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7.90 1.00870 0.00050	7.90 1.00439 0.00051	7.90 1.00331 0.00052
7.95 1.01356 0.00052	8.00 1.01451 0.00051	7.95 1.00781 0.00051
8.00 1.01824 0.00052	8.05 1.01865 0.00052	8.00 1.01246 0.00052
8.05 1.02331 0.00052	8.10 1.02238 0.00052	8.05 1.01694 0.00051
8.10 1.02684 0.00052		8.10 1.02224 0.00052

520	530	540
7.00 0.91417 0.00051	7.00 0.91189 0.00051	7.10 0.92239 0.00052
7.05 0.91981 0.00049	7.05 0.91797 0.00051	7.15 0.92711 0.00050
7.10 0.92508 0.00049	7.10 0.92385 0.00052	7.20 0.93251 0.00051
7.15 0.92865 0.00051	7.15 0.92818 0.00052	7.25 0.93751 0.00051
7.20 0.93499 0.00052	7.20 0.93298 0.00051	7.30 0.94288 0.00051
7.25 0.94004 0.00052	7.30 0.94304 0.00051	7.35 0.94694 0.00050
7.30 0.94476 0.00051	7.35 0.94807 0.00051	7.40 0.95158 0.00051
7.35 0.94982 0.00050	7.40 0.95349 0.00052	7.45 0.95686 0.00051
7.40 0.95453 0.00051	7.45 0.95844 0.00051	7.50 0.96142 0.00053
7.45 0.96088 0.00051	7.50 0.96282 0.00051	7.55 0.96687 0.00051
7.50 0.96486 0.00051	7.55 0.96714 0.00052	7.60 0.97098 0.00051
7.55 0.96862 0.00051	7.60 0.97194 0.00052	7.65 0.97511 0.00052
7.60 0.97441 0.00052	7.65 0.97726 0.00053	7.70 0.98068 0.00052
7.65 0.97876 0.00052	7.70 0.98199 0.00052	7.75 0.98542 0.00050
7.70 0.98370 0.00052	7.75 0.98648 0.00051	7.80 0.98999 0.00053
7.75 0.98710 0.00051	7.80 0.99228 0.00050	7.85 0.99353 0.00052
7.85 0.99718 0.00051	7.85 0.99610 0.00052	7.90 0.99925 0.00052
7.90 1.00180 0.00050	7.90 1.00083 0.00052	7.95 1.00291 0.00051
7.95 1.00612 0.00052	7.95 1.00426 0.00052	8.00 1.00831 0.00052
8.00 1.01198 0.00051	8.00 1.00970 0.00051	8.05 1.01301 0.00051
8.05 1.01523 0.00051	8.05 1.01413 0.00052	8.10 1.01702 0.00053
8.10 1.02050 0.00051	8.10 1.01941 0.00051	8.15 1.02142 0.00052
		8.20 1.02624 0.00052

550	560
7.10 0.92001 0.00050	7.10 0.91968 0.00050
7.15 0.92517 0.00051	7.15 0.92447 0.00051
7.20 0.93165 0.00051	7.20 0.92840 0.00051
7.25 0.93446 0.00051	7.30 0.93998 0.00051
7.30 0.94057 0.00051	7.35 0.94343 0.00051
7.35 0.94509 0.00051	7.40 0.94916 0.00051
7.40 0.94972 0.00051	7.45 0.95464 0.00051
7.45 0.95507 0.00051	7.55 0.96377 0.00051
7.50 0.96080 0.00051	7.60 0.96816 0.00050
7.55 0.96484 0.00050	7.65 0.97302 0.00050
7.60 0.96975 0.00051	7.70 0.97863 0.00052
7.70 0.97906 0.00051	7.75 0.98217 0.00050
7.80 0.98864 0.00051	7.80 0.98735 0.00051
7.85 0.99242 0.00051	7.85 0.99096 0.00051
7.90 0.99738 0.00051	7.90 0.99623 0.00052

7.95	1.00183	0.00051	7.95	0.99976	0.00051
8.05	1.01084	0.00052	8.00	1.00399	0.00053
8.20	1.02264	0.00051	8.05	1.00906	0.00052
			8.10	1.01288	0.00051
			8.15	1.01848	0.00051
			8.20	1.02229	0.00051

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12	15	20
3.21 0.19759 0.00016	23.70 0.92759 0.00022	14.80 0.92528 0.00028
6.41 0.42525 0.00021	24.50 0.93405 0.00021	15.00 0.92970 0.00027
9.61 0.57750 0.00023	25.30 0.94000 0.00021	15.20 0.93362 0.00028
12.81 0.67480 0.00023	26.10 0.94571 0.00020	15.40 0.93907 0.00028
16.01 0.73979 0.00022	26.90 0.95057 0.00020	15.60 0.94358 0.00028
19.21 0.78469 0.00021	27.70 0.95546 0.00020	15.80 0.94745 0.00028
22.41 0.81630 0.00020	28.50 0.96001 0.00021	16.00 0.95191 0.00027
25.61 0.83958 0.00018	29.30 0.96445 0.00019	16.20 0.95538 0.00027
28.81 0.85710 0.00018	30.10 0.96794 0.00019	16.40 0.95947 0.00027
32.01 0.87116 0.00017	30.90 0.97167 0.00020	16.60 0.96333 0.00028
35.21 0.88185 0.00017	31.70 0.97559 0.00019	16.80 0.96723 0.00027
38.41 0.89064 0.00016	32.50 0.97855 0.00019	17.00 0.97069 0.00026
41.61 0.89732 0.00016	33.30 0.98171 0.00019	17.20 0.97376 0.00027
44.81 0.90275 0.00015	34.10 0.98453 0.00018	17.40 0.97781 0.00026
48.01 0.90757 0.00015	34.90 0.98784 0.00018	17.60 0.98105 0.00026
51.21 0.91171 0.00014	35.70 0.99032 0.00018	17.80 0.98425 0.00027
54.41 0.91461 0.00014	36.50 0.99247 0.00018	18.00 0.98796 0.00027
57.61 0.91773 0.00014	37.30 0.99461 0.00018	18.20 0.99134 0.00026
60.81 0.92008 0.00014	38.10 0.99651 0.00018	18.40 0.99396 0.00026
64.01 0.92287 0.00013	38.90 0.99934 0.00018	18.60 0.99718 0.00026
65.40 0.92347 0.00013	39.70 1.00100 0.00017	18.80 1.00031 0.00025
	40.50 1.00303 0.00017	19.00 1.00323 0.00026
	41.00 1.00363 0.00017	19.20 1.00582 0.00026
		19.40 1.00899 0.00026
		19.60 1.01208 0.00025
		19.70 1.01323 0.00026

25	30	32
11.90 0.92524 0.00031	10.40 0.92527 0.00033	9.90 0.92183 0.00034
12.00 0.92828 0.00032	10.50 0.93005 0.00033	10.00 0.92642 0.00034
12.10 0.93190 0.00031	10.60 0.93490 0.00034	10.10 0.93148 0.00035
12.20 0.93586 0.00031	10.70 0.93886 0.00034	10.20 0.93685 0.00036
12.30 0.93878 0.00030	10.80 0.94380 0.00033	10.30 0.94116 0.00035
12.40 0.94229 0.00031	10.90 0.94859 0.00034	10.40 0.94659 0.00034
12.50 0.94574 0.00031	11.00 0.95179 0.00034	10.50 0.95110 0.00034
12.60 0.94908 0.00031	11.10 0.95647 0.00034	10.60 0.95575 0.00034
12.70 0.95262 0.00031	11.20 0.96064 0.00033	10.70 0.96023 0.00035
12.80 0.95508 0.00032	11.30 0.96489 0.00033	10.80 0.96532 0.00035

13.00 0.96244 0.00031	11.40 0.96924 0.00034	10.90 0.96923 0.00035
13.10 0.96555 0.00031	11.60 0.97719 0.00032	11.00 0.97381 0.00034
13.20 0.96870 0.00031	11.70 0.98091 0.00033	11.10 0.97802 0.00033
13.30 0.97083 0.00031	11.90 0.98801 0.00033	11.30 0.98620 0.00034
13.40 0.97381 0.00031	12.00 0.99274 0.00034	11.40 0.99011 0.00035
13.50 0.97755 0.00031	12.10 0.99673 0.00034	11.50 0.99493 0.00035
13.60 0.97981 0.00031	12.20 1.00000 0.00032	11.60 0.99879 0.00034
13.70 0.98327 0.00031	12.30 1.00328 0.00034	11.70 1.00272 0.00035
13.80 0.98549 0.00030	12.40 1.00749 0.00033	11.80 1.00635 0.00033
13.90 0.98873 0.00030	12.50 1.01108 0.00034	11.90 1.01044 0.00035
14.00 0.99157 0.00031	12.60 1.01396 0.00032	12.00 1.01450 0.00033
14.10 0.99433 0.00030		12.10 1.01810 0.00035
14.20 0.99711 0.00030		
14.30 1.00075 0.00031		
14.40 1.00265 0.00031		
14.50 1.00541 0.00030		
14.60 1.00768 0.00030		
14.70 1.01005 0.00030		
14.80 1.01288 0.00030		
14.90 1.01565 0.00030		

35	40	50
9.40 0.92296 0.00036	8.70 0.91954 0.00037	7.90 0.92279 0.00039
9.50 0.92881 0.00036	8.75 0.92290 0.00037	7.95 0.92686 0.00040
9.60 0.93359 0.00036	8.80 0.92635 0.00037	8.00 0.93019 0.00039
9.70 0.93858 0.00035	8.85 0.92901 0.00037	8.05 0.93430 0.00039
9.80 0.94440 0.00035	8.90 0.93239 0.00038	8.10 0.93684 0.00039
9.90 0.94921 0.00035	8.95 0.93582 0.00037	8.15 0.94048 0.00039
10.00 0.95498 0.00036	9.00 0.93780 0.00037	8.20 0.94365 0.00040
10.10 0.95981 0.00036	9.05 0.94151 0.00036	8.25 0.94774 0.00039
10.20 0.96519 0.00035	9.10 0.94419 0.00037	8.30 0.95086 0.00039
10.30 0.97035 0.00035	9.15 0.94709 0.00037	8.35 0.95530 0.00039
10.40 0.97504 0.00034	9.20 0.95042 0.00037	8.40 0.95817 0.00040
10.50 0.97905 0.00036	9.25 0.95391 0.00037	8.45 0.96128 0.00039
10.60 0.98373 0.00036	9.30 0.95644 0.00037	8.50 0.96546 0.00039
10.70 0.98925 0.00035	9.35 0.95863 0.00037	8.55 0.96952 0.00040
10.80 0.99370 0.00035	9.40 0.96126 0.00036	8.60 0.97154 0.00039
10.90 0.99762 0.00035	9.45 0.96406 0.00037	8.65 0.97510 0.00040
11.00 1.00250 0.00036	9.50 0.96760 0.00036	8.70 0.97790 0.00041
11.10 1.00677 0.00035	9.55 0.97027 0.00037	8.75 0.98221 0.00040
11.20 1.01149 0.00035	9.60 0.97321 0.00037	8.80 0.98495 0.00040
11.30 1.01514 0.00035	9.65 0.97593 0.00038	8.85 0.98766 0.00039
11.40 1.01984 0.00035	9.70 0.97850 0.00037	8.90 0.99091 0.00040
	9.75 0.98043 0.00037	8.95 0.99402 0.00040
	9.80 0.98396 0.00037	9.00 0.99752 0.00040
	9.85 0.98710 0.00037	9.05 1.00028 0.00040
	9.90 0.98923 0.00036	9.10 1.00392 0.00039
	9.95 0.99232 0.00037	9.15 1.00651 0.00039
	10.00 0.99459 0.00037	9.20 1.01003 0.00039

10.10 1.00046 0.00037	9.25 1.01237 0.00039
10.15 1.00234 0.00037	9.30 1.01595 0.00040
10.20 1.00529 0.00037	9.35 1.01816 0.00038
10.25 1.00782 0.00037	9.40 1.02235 0.00038
10.30 1.01031 0.00037	
10.35 1.01322 0.00037	
10.40 1.01489 0.00037	

60	70	80
7.30 0.91789 0.00041	7.00 0.92289 0.00043	6.70 0.91987 0.00044
7.40 0.92528 0.00041	7.05 0.92804 0.00043	6.80 0.92988 0.00044
7.45 0.92970 0.00041	7.10 0.93171 0.00042	6.85 0.93382 0.00042
7.50 0.93356 0.00040	7.15 0.93693 0.00043	6.90 0.93846 0.00042
7.55 0.93773 0.00040	7.20 0.94104 0.00042	6.95 0.94349 0.00043
7.60 0.94093 0.00042	7.25 0.94434 0.00042	7.00 0.94708 0.00042
7.65 0.94577 0.00041	7.30 0.94872 0.00041	7.05 0.95148 0.00044
7.70 0.94884 0.00042	7.35 0.95344 0.00041	7.10 0.95706 0.00043
7.75 0.95337 0.00041	7.40 0.95740 0.00043	7.15 0.96078 0.00043
7.80 0.95748 0.00041	7.45 0.96132 0.00042	7.20 0.96466 0.00043
7.85 0.96193 0.00041	7.50 0.96581 0.00042	7.30 0.97379 0.00043
7.90 0.96437 0.00040	7.55 0.96892 0.00042	7.35 0.97694 0.00042
7.95 0.96902 0.00041	7.60 0.97318 0.00042	7.40 0.98230 0.00041
8.00 0.97152 0.00041	7.65 0.97710 0.00043	7.45 0.98572 0.00042
8.05 0.97570 0.00040	7.70 0.98202 0.00041	7.50 0.98981 0.00043
8.10 0.97999 0.00041	7.75 0.98528 0.00041	7.55 0.99378 0.00044
8.15 0.98241 0.00041	7.80 0.98915 0.00042	7.60 0.99809 0.00043
8.20 0.98753 0.00042	7.85 0.99285 0.00042	7.65 1.00209 0.00042
8.25 0.99022 0.00041	7.90 0.99650 0.00042	7.70 1.00509 0.00043
8.30 0.99373 0.00041	8.00 1.00395 0.00042	7.75 1.01010 0.00044
8.35 0.99771 0.00041	8.05 1.00790 0.00043	7.80 1.01425 0.00043
8.40 1.00195 0.00041	8.10 1.01211 0.00041	7.85 1.01820 0.00044
8.45 1.00466 0.00041	8.15 1.01487 0.00042	7.90 1.02182 0.00042
8.50 1.00744 0.00042	8.20 1.01919 0.00042	
8.55 1.01171 0.00040		
8.60 1.01464 0.00041		
8.65 1.01768 0.00041		
8.70 1.02136 0.00041		

90	100	118
6.50 0.92153 0.00044	6.30 0.91761 0.00044	6.15 0.92479 0.00045
6.55 0.92585 0.00043	6.40 0.92648 0.00044	6.20 0.93008 0.00044
6.60 0.93034 0.00044	6.45 0.93207 0.00045	6.25 0.93423 0.00045
6.65 0.93572 0.00043	6.50 0.93739 0.00044	6.30 0.93919 0.00044
6.70 0.93984 0.00043	6.55 0.94186 0.00045	6.35 0.94450 0.00045
6.75 0.94476 0.00045	6.60 0.94639 0.00045	6.40 0.94949 0.00044
6.80 0.94972 0.00045	6.65 0.95194 0.00044	6.45 0.95507 0.00044
6.85 0.95459 0.00044	6.70 0.95592 0.00045	6.50 0.95920 0.00046

6.90 0.95910 0.00044	6.75 0.96146 0.00044	6.55 0.96397 0.00044
6.95 0.96270 0.00044	6.80 0.96566 0.00044	6.60 0.96888 0.00045
7.00 0.96735 0.00044	6.85 0.96953 0.00043	6.65 0.97428 0.00043
7.05 0.97159 0.00042	6.90 0.97454 0.00045	6.70 0.97879 0.00045
7.10 0.97583 0.00044	6.95 0.97900 0.00045	6.75 0.98293 0.00045
7.15 0.98104 0.00043	7.00 0.98325 0.00045	6.80 0.98785 0.00047
7.20 0.98525 0.00044	7.05 0.98876 0.00044	6.85 0.99221 0.00044
7.25 0.98912 0.00043	7.10 0.99321 0.00042	6.90 0.99785 0.00044
7.30 0.99361 0.00044	7.15 0.99692 0.00044	6.95 1.00179 0.00045
7.35 0.99798 0.00045	7.20 1.00122 0.00045	7.00 1.00595 0.00045
7.40 1.00192 0.00044	7.25 1.00612 0.00044	7.05 1.01103 0.00045
7.45 1.00601 0.00044	7.30 1.01036 0.00044	7.10 1.01517 0.00046
7.50 1.01122 0.00043	7.35 1.01464 0.00045	7.15 1.01928 0.00046
7.55 1.01468 0.00044	7.40 1.01758 0.00045	7.20 1.02363 0.00045
7.60 1.01863 0.00044		

130	150	200
6.00 0.92048 0.00045	5.80 0.91384 0.00044	5.60 0.91597 0.00047
6.05 0.92642 0.00045	5.85 0.92009 0.00044	5.65 0.92105 0.00046
6.10 0.93102 0.00044	5.90 0.92446 0.00044	5.70 0.92667 0.00047
6.15 0.93568 0.00046	5.95 0.93027 0.00045	5.75 0.93245 0.00047
6.20 0.94126 0.00045	6.00 0.93555 0.00046	5.80 0.93730 0.00047
6.25 0.94622 0.00044	6.05 0.94115 0.00045	5.85 0.94439 0.00047
6.30 0.95110 0.00044	6.10 0.94581 0.00046	5.90 0.94809 0.00047
6.35 0.95602 0.00045	6.15 0.95054 0.00045	5.95 0.95337 0.00046
6.40 0.96206 0.00043	6.20 0.95672 0.00048	6.00 0.96028 0.00046
6.45 0.96549 0.00046	6.25 0.96140 0.00045	6.05 0.96570 0.00046
6.50 0.97117 0.00046	6.30 0.96638 0.00046	6.10 0.97000 0.00046
6.55 0.97597 0.00044	6.35 0.97103 0.00046	6.15 0.97602 0.00048
6.60 0.98080 0.00045	6.40 0.97662 0.00046	6.20 0.98045 0.00047
6.65 0.98605 0.00045	6.45 0.98074 0.00046	6.25 0.98481 0.00047
6.70 0.99056 0.00045	6.50 0.98654 0.00047	6.30 0.99030 0.00047
6.75 0.99523 0.00045	6.55 0.99110 0.00045	6.35 0.99561 0.00046
6.80 0.99938 0.00045	6.60 0.99596 0.00047	6.40 1.00025 0.00047
6.85 1.00454 0.00046	6.65 1.00060 0.00045	6.45 1.00552 0.00048
6.90 1.00882 0.00045	6.70 1.00512 0.00044	6.50 1.01044 0.00046
6.95 1.01336 0.00046	6.75 1.01029 0.00046	6.55 1.01533 0.00047
7.00 1.01812 0.00045	6.80 1.01505 0.00046	6.60 1.01922 0.00045
	6.85 1.01866 0.00045	
	6.90 1.02345 0.00046	

235	250	353
5.50 0.91372 0.00046	5.55 0.92348 0.00048	5.40 0.91557 0.00047
5.55 0.92079 0.00046	5.60 0.92889 0.00046	5.50 0.92722 0.00046
5.60 0.92558 0.00047	5.65 0.93459 0.00048	5.55 0.93297 0.00047
5.65 0.93231 0.00046	5.70 0.93985 0.00047	5.60 0.93834 0.00047
5.75 0.94210 0.00047	5.75 0.94611 0.00047	5.65 0.94407 0.00047

5.85 0.95359 0.00048	5.80 0.94976 0.00048	5.70 0.94995 0.00046
5.90 0.95870 0.00046	5.85 0.95651 0.00049	5.80 0.95998 0.00046
5.95 0.96394 0.00047	5.90 0.96178 0.00046	5.85 0.96497 0.00049
6.00 0.96908 0.00048	5.95 0.96622 0.00047	5.90 0.97037 0.00048
6.05 0.97412 0.00048	6.00 0.97234 0.00046	5.95 0.97553 0.00049
6.10 0.97899 0.00046	6.05 0.97685 0.00047	6.00 0.98028 0.00047
6.15 0.98377 0.00046	6.10 0.98152 0.00047	6.05 0.98551 0.00047
6.20 0.98907 0.00046	6.15 0.98775 0.00047	6.10 0.99033 0.00048
6.25 0.99427 0.00046	6.20 0.99282 0.00047	6.15 0.99635 0.00047
6.30 0.99970 0.00047	6.25 0.99738 0.00048	6.20 1.00003 0.00048
6.35 1.00446 0.00047	6.30 1.00215 0.00048	6.25 1.00571 0.00047
6.40 1.01005 0.00046	6.35 1.00728 0.00047	6.30 1.01065 0.00048
6.45 1.01397 0.00048	6.40 1.01193 0.00047	6.35 1.01574 0.00048
6.50 1.01897 0.00047	6.45 1.01696 0.00047	6.40 1.01990 0.00047

470	500	510
5.40 0.91556 0.00047	5.45 0.91911 0.00047	5.40 0.91280 0.00047
5.45 0.92112 0.00046	5.50 0.92441 0.00047	5.45 0.91816 0.00046
5.50 0.92678 0.00047	5.60 0.93428 0.00046	5.50 0.92381 0.00048
5.55 0.93220 0.00046	5.65 0.94086 0.00048	5.60 0.93461 0.00047
5.60 0.93668 0.00045	5.70 0.94552 0.00049	5.65 0.93970 0.00047
5.65 0.94218 0.00046	5.75 0.95046 0.00046	5.70 0.94533 0.00047
5.70 0.94803 0.00047	5.80 0.95622 0.00048	5.75 0.95110 0.00047
5.75 0.95253 0.00048	5.85 0.96062 0.00048	5.80 0.95491 0.00046
5.80 0.95862 0.00047	5.90 0.96627 0.00047	5.85 0.95988 0.00046
5.85 0.96283 0.00046	5.95 0.97114 0.00049	5.90 0.96463 0.00047
5.90 0.96826 0.00047	6.00 0.97510 0.00048	5.95 0.96994 0.00048
5.95 0.97275 0.00047	6.05 0.98072 0.00048	6.00 0.97426 0.00048
6.00 0.97763 0.00048	6.10 0.98605 0.00047	6.05 0.97943 0.00047
6.05 0.98292 0.00046	6.15 0.99039 0.00047	6.10 0.98499 0.00047
6.10 0.98774 0.00047	6.20 0.99624 0.00047	6.15 0.98954 0.00047
6.15 0.99275 0.00047	6.25 1.00067 0.00049	6.20 0.99402 0.00048
6.20 0.99684 0.00047	6.30 1.00551 0.00047	6.25 0.99970 0.00048
6.25 1.00234 0.00048	6.35 1.00929 0.00047	6.30 1.00441 0.00047
6.30 1.00774 0.00048	6.40 1.01426 0.00047	6.35 1.00835 0.00048
6.35 1.01128 0.00047	6.45 1.01861 0.00047	6.40 1.01358 0.00047
6.40 1.01803 0.00048	6.50 1.02269 0.00048	6.45 1.01737 0.00047
6.45 1.02124 0.00046		6.50 1.02228 0.00047
6.50 1.02578 0.00047		

520	530	540
5.50 0.92263 0.00048	5.50 0.92225 0.00046	5.50 0.92193 0.00046
5.55 0.92829 0.00045	5.55 0.92727 0.00048	5.55 0.92687 0.00046
5.60 0.93395 0.00047	5.60 0.93275 0.00046	5.60 0.93246 0.00046
5.70 0.94416 0.00047	5.65 0.93781 0.00047	5.65 0.93691 0.00047
5.75 0.94937 0.00046	5.70 0.94364 0.00047	5.70 0.94260 0.00047
5.80 0.95441 0.00047	5.75 0.94830 0.00048	5.75 0.94765 0.00047

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5.85 0.95931 0.00048	5.80 0.95434 0.00046	5.80 0.95225 0.00047
5.90 0.96455 0.00048	5.85 0.95865 0.00048	5.85 0.95815 0.00046
5.95 0.96923 0.00047	5.95 0.96831 0.00047	5.90 0.96200 0.00047
6.00 0.97449 0.00046	6.00 0.97333 0.00047	5.95 0.96733 0.00047
6.05 0.97964 0.00047	6.05 0.97784 0.00046	6.00 0.97222 0.00047
6.10 0.98437 0.00046	6.10 0.98317 0.00045	6.05 0.97743 0.00047
6.15 0.98915 0.00048	6.15 0.98858 0.00046	6.10 0.98218 0.00045
6.20 0.99464 0.00049	6.20 0.99238 0.00048	6.15 0.98725 0.00047
6.25 0.99881 0.00047	6.25 0.99780 0.00048	6.20 0.99198 0.00049
6.30 1.00336 0.00048	6.30 1.00202 0.00046	6.25 0.99654 0.00049
6.35 1.00697 0.00048	6.35 1.00594 0.00048	6.30 1.00117 0.00048
6.40 1.01249 0.00046	6.40 1.01104 0.00047	6.35 1.00642 0.00048
6.45 1.01659 0.00048	6.45 1.01565 0.00047	6.40 1.01072 0.00046
6.50 1.02214 0.00047	6.50 1.02102 0.00046	6.45 1.01574 0.00048
		6.50 1.02045 0.00047

550

5.50 0.92122 0.00047
 5.55 0.92704 0.00048
 5.60 0.93094 0.00047
 5.65 0.93649 0.00047
 5.70 0.94223 0.00046
 5.75 0.94661 0.00046
 5.80 0.95243 0.00048
 5.85 0.95691 0.00047
 5.95 0.96704 0.00048
 6.00 0.97184 0.00046
 6.05 0.97710 0.00047
 6.10 0.98047 0.00047
 6.15 0.98701 0.00047
 6.20 0.99099 0.00048
 6.25 0.99549 0.00048
 6.30 1.00011 0.00046
 6.35 1.00444 0.00047
 6.40 1.00931 0.00049
 6.45 1.01525 0.00047
 6.50 1.01877 0.00048

560

5.50 0.91968 0.00047
 5.55 0.92560 0.00047
 5.60 0.93002 0.00046
 5.65 0.93609 0.00046
 5.70 0.94020 0.00047
 5.75 0.94586 0.00048
 5.80 0.95033 0.00047
 5.85 0.95631 0.00048
 5.90 0.96099 0.00047
 5.95 0.96578 0.00046
 6.00 0.97149 0.00047
 6.05 0.97604 0.00048
 6.10 0.97962 0.00048
 6.15 0.98555 0.00047
 6.20 0.99045 0.00048
 6.25 0.99487 0.00048
 6.30 0.99984 0.00046
 6.35 1.00493 0.00046
 6.40 1.00889 0.00047
 6.45 1.01359 0.00046
 6.50 1.01813 0.00047

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12	15	20
54.70 0.87211 0.00015	32.10 0.92140 0.00021	19.70 0.92418 0.00029
55.60 0.87267 0.00015	32.60 0.92355 0.00020	20.00 0.93012 0.00028
56.50 0.87341 0.00015	33.10 0.92649 0.00021	20.30 0.93477 0.00028
57.40 0.87467 0.00015	33.60 0.92870 0.00020	20.60 0.94004 0.00028
58.30 0.87569 0.00015	34.10 0.93082 0.00020	20.90 0.94472 0.00028
59.20 0.87629 0.00015	34.60 0.93307 0.00020	21.20 0.94951 0.00027
60.10 0.87700 0.00015	35.10 0.93528 0.00020	21.50 0.95479 0.00027
61.00 0.87761 0.00015	35.60 0.93728 0.00020	21.80 0.95913 0.00027
61.90 0.87866 0.00015	36.10 0.93937 0.00019	22.10 0.96332 0.00027
62.80 0.87919 0.00014	36.60 0.94068 0.00020	22.40 0.96691 0.00026
63.70 0.87961 0.00014	37.10 0.94265 0.00019	22.70 0.97154 0.00028
64.60 0.88065 0.00014	37.60 0.94454 0.00019	23.00 0.97488 0.00027
65.50 0.88081 0.00014	38.10 0.94636 0.00019	23.30 0.97916 0.00027
66.40 0.88201 0.00014	38.60 0.94832 0.00019	23.60 0.98271 0.00028
67.30 0.88203 0.00014	39.10 0.94896 0.00019	23.90 0.98673 0.00027
68.20 0.88245 0.00014	39.60 0.95069 0.00018	24.20 0.99054 0.00026
69.10 0.88340 0.00014	40.10 0.95235 0.00019	24.50 0.99316 0.00026
70.00 0.88413 0.00014	40.60 0.95367 0.00019	24.80 0.99668 0.00027
70.90 0.88452 0.00014	41.10 0.95520 0.00018	25.10 0.99978 0.00026
71.80 0.88488 0.00014	41.60 0.95652 0.00019	25.40 1.00283 0.00026
72.70 0.88548 0.00014	42.10 0.95856 0.00018	25.70 1.00630 0.00026
	42.50 0.95926 0.00018	26.00 1.00908 0.00026
		26.30 1.01153 0.00025
		26.50 1.01416 0.00025

25	30	32
16.00 0.92344 0.00033	14.20 0.92274 0.00037	13.70 0.92375 0.00036
16.10 0.92545 0.00033	14.30 0.92767 0.00037	13.80 0.92723 0.00037
16.20 0.92928 0.00034	14.40 0.93109 0.00037	13.90 0.93190 0.00038
16.30 0.93269 0.00032	14.50 0.93517 0.00036	14.00 0.93573 0.00037
16.40 0.93478 0.00033	14.60 0.93846 0.00037	14.10 0.93987 0.00037
16.50 0.93833 0.00033	14.70 0.94310 0.00036	14.20 0.94398 0.00037
16.60 0.94056 0.00034	14.80 0.94641 0.00036	14.30 0.94774 0.00037
16.70 0.94353 0.00033	14.90 0.94956 0.00035	14.40 0.95184 0.00037
16.80 0.94694 0.00032	15.00 0.95370 0.00036	14.50 0.95634 0.00038
16.90 0.94885 0.00033	15.10 0.95666 0.00035	14.60 0.96068 0.00038
17.00 0.95212 0.00033	15.20 0.96083 0.00036	14.70 0.96374 0.00037
17.10 0.95437 0.00033	15.30 0.96380 0.00036	14.80 0.96804 0.00037
17.20 0.95703 0.00033	15.40 0.96803 0.00036	14.90 0.97164 0.00037
17.30 0.96011 0.00033	15.50 0.97111 0.00036	15.00 0.97538 0.00036
17.40 0.96230 0.00033	15.60 0.97475 0.00037	15.10 0.97938 0.00038
17.50 0.96486 0.00032	15.70 0.97752 0.00036	15.20 0.98263 0.00038
17.60 0.96759 0.00033	15.80 0.98136 0.00036	15.30 0.98566 0.00037
17.70 0.96962 0.00032	15.90 0.98467 0.00035	15.40 0.98909 0.00037
17.80 0.97212 0.00032	16.00 0.98789 0.00035	15.50 0.99325 0.00036
17.90 0.97459 0.00032	16.10 0.99112 0.00034	15.60 0.99616 0.00036

18.00 0.97749 0.00033	16.20 0.99314 0.00035	15.70 1.00047 0.00036
18.10 0.97883 0.00033	16.30 0.99754 0.00036	15.80 1.00359 0.00037
18.20 0.98175 0.00032	16.40 0.99994 0.00035	15.90 1.00630 0.00037
18.30 0.98462 0.00031	16.50 1.00330 0.00036	16.00 1.01025 0.00036
18.40 0.98641 0.00033	16.60 1.00587 0.00035	16.10 1.01287 0.00036
18.50 0.98832 0.00032	16.70 1.00860 0.00035	16.20 1.01658 0.00035
18.60 0.99051 0.00032	16.80 1.01192 0.00035	
18.70 0.99308 0.00032	16.90 1.01465 0.00035	
18.80 0.99468 0.00031	17.00 1.01818 0.00035	
18.90 0.99731 0.00032		
19.00 0.99969 0.00030		
19.10 1.00158 0.00032		
19.20 1.00448 0.00032		
19.30 1.00598 0.00031		
19.40 1.00792 0.00032		
19.50 1.01032 0.00031		
19.60 1.01217 0.00030		
19.70 1.01465 0.00031		

35	40	50
13.00 0.91788 0.00038	12.30 0.92078 0.00042	11.40 0.92360 0.00043
13.10 0.92315 0.00039	12.40 0.92563 0.00040	11.45 0.92701 0.00044
13.20 0.92829 0.00039	12.50 0.93103 0.00040	11.50 0.92959 0.00044
13.30 0.93277 0.00039	12.60 0.93599 0.00041	11.55 0.93253 0.00044
13.40 0.93716 0.00039	12.70 0.94168 0.00040	11.60 0.93626 0.00044
13.50 0.94207 0.00039	12.80 0.94682 0.00040	11.65 0.93822 0.00043
13.60 0.94660 0.00039	12.90 0.95226 0.00040	11.70 0.94238 0.00044
13.70 0.95072 0.00039	13.00 0.95729 0.00042	11.75 0.94512 0.00044
13.80 0.95489 0.00037	13.10 0.96207 0.00040	11.80 0.94829 0.00043
13.90 0.95948 0.00038	13.20 0.96738 0.00041	11.85 0.95127 0.00043
14.00 0.96387 0.00039	13.30 0.97139 0.00041	11.90 0.95392 0.00045
14.10 0.96842 0.00038	13.40 0.97612 0.00040	11.95 0.95687 0.00043
14.20 0.97240 0.00038	13.50 0.98139 0.00040	12.00 0.96074 0.00043
14.30 0.97620 0.00039	13.60 0.98627 0.00041	12.05 0.96389 0.00042
14.40 0.98033 0.00039	13.70 0.99085 0.00041	12.10 0.96645 0.00044
14.50 0.98536 0.00039	13.80 0.99498 0.00040	12.15 0.96918 0.00042
14.60 0.98946 0.00039	13.90 1.00046 0.00039	12.20 0.97245 0.00043
14.70 0.99265 0.00038	14.00 1.00462 0.00040	12.25 0.97501 0.00044
14.80 0.99655 0.00037	14.10 1.00883 0.00040	12.30 0.97808 0.00043
14.90 1.00049 0.00037	14.20 1.01262 0.00039	12.35 0.98091 0.00044
15.00 1.00444 0.00038	14.30 1.01721 0.00039	12.40 0.98466 0.00044
15.10 1.00800 0.00039		12.45 0.98663 0.00043
15.20 1.01133 0.00038		12.50 0.98927 0.00043
15.30 1.01489 0.00037		12.55 0.99152 0.00043
15.40 1.01940 0.00038		12.60 0.99578 0.00043
		12.65 0.99828 0.00043
		12.70 1.00019 0.00044
		12.75 1.00293 0.00043
		12.80 1.00566 0.00043

12.85 1.00820 0.00043
 12.90 1.01098 0.00043
 12.95 1.01407 0.00043
 13.00 1.01660 0.00043
 13.05 1.01811 0.00043
 13.10 1.02180 0.00044

60	70	80
10.80 0.92155 0.00045	10.40 0.92142 0.00048	10.10 0.91836 0.00049
10.85 0.92471 0.00045	10.45 0.92466 0.00047	10.15 0.92348 0.00049
10.90 0.92828 0.00046	10.50 0.92901 0.00047	10.20 0.92678 0.00048
10.95 0.93271 0.00045	10.55 0.93236 0.00047	10.25 0.93086 0.00047
11.00 0.93649 0.00046	10.60 0.93587 0.00048	10.30 0.93448 0.00048
11.05 0.93863 0.00045	10.65 0.93924 0.00048	10.35 0.93946 0.00049
11.10 0.94276 0.00045	10.70 0.94424 0.00046	10.40 0.94205 0.00048
11.15 0.94638 0.00047	10.75 0.94848 0.00047	10.45 0.94687 0.00048
11.20 0.95003 0.00044	10.80 0.95127 0.00046	10.50 0.95120 0.00049
11.25 0.95328 0.00044	10.85 0.95484 0.00046	10.55 0.95367 0.00048
11.30 0.95702 0.00046	10.90 0.95961 0.00048	10.60 0.95787 0.00049
11.35 0.95995 0.00045	10.95 0.96254 0.00048	10.65 0.96245 0.00048
11.40 0.96316 0.00045	11.00 0.96582 0.00046	10.70 0.96660 0.00048
11.45 0.96689 0.00045	11.05 0.96894 0.00048	10.75 0.97094 0.00049
11.50 0.96924 0.00047	11.10 0.97335 0.00048	10.80 0.97419 0.00045
11.55 0.97363 0.00045	11.15 0.97748 0.00047	10.85 0.97766 0.00049
11.60 0.97742 0.00046	11.20 0.98092 0.00048	10.90 0.98139 0.00047
11.65 0.98109 0.00046	11.25 0.98342 0.00047	10.95 0.98511 0.00047
11.70 0.98323 0.00046	11.30 0.98673 0.00047	11.00 0.98946 0.00050
11.75 0.98628 0.00045	11.35 0.99130 0.00046	11.05 0.99232 0.00047
11.80 0.98986 0.00045	11.40 0.99455 0.00047	11.10 0.99504 0.00049
11.85 0.99253 0.00045	11.45 0.99755 0.00048	11.15 0.99990 0.00046
11.90 0.99619 0.00045	11.50 1.00090 0.00047	11.20 1.00341 0.00049
11.95 0.99912 0.00047	11.55 1.00428 0.00047	11.25 1.00666 0.00048
12.00 1.00287 0.00046	11.60 1.00772 0.00047	11.30 1.01142 0.00048
12.05 1.00514 0.00045	11.65 1.01095 0.00046	11.35 1.01438 0.00048
12.10 1.00822 0.00045	11.70 1.01428 0.00047	11.40 1.01757 0.00049
12.15 1.01164 0.00045	11.75 1.01739 0.00047	11.45 1.02033 0.00049
12.20 1.01411 0.00046	11.80 1.02076 0.00046	11.50 1.02475 0.00048
12.25 1.01730 0.00046		
12.30 1.02047 0.00045		

90	100	118
9.90 0.91937 0.00048	9.70 0.91544 0.00048	9.50 0.91601 0.00051
9.95 0.92398 0.00047	9.75 0.92014 0.00051	9.55 0.92149 0.00049
10.00 0.92779 0.00050	9.80 0.92539 0.00050	9.60 0.92668 0.00051
10.05 0.93333 0.00049	9.85 0.92917 0.00051	9.65 0.93004 0.00051
10.10 0.93607 0.00048	9.90 0.93309 0.00050	9.70 0.93462 0.00051
10.15 0.94122 0.00049	9.95 0.93810 0.00050	9.75 0.94015 0.00051

10.20 0.94497 0.00049	10.00 0.94186 0.00050	9.80 0.94326 0.00051
10.25 0.94814 0.00047	10.05 0.94656 0.00049	9.85 0.94872 0.00052
10.30 0.95200 0.00049	10.10 0.95111 0.00050	9.90 0.95247 0.00051
10.35 0.95725 0.00048	10.15 0.95371 0.00051	9.95 0.95825 0.00049
10.40 0.96117 0.00050	10.20 0.95869 0.00049	10.00 0.96141 0.00050
10.45 0.96475 0.00049	10.25 0.96308 0.00049	10.05 0.96546 0.00050
10.50 0.96888 0.00049	10.30 0.96706 0.00050	10.10 0.96991 0.00053
10.55 0.97307 0.00050	10.35 0.97123 0.00050	10.15 0.97452 0.00048
10.60 0.97672 0.00049	10.40 0.97645 0.00050	10.20 0.97839 0.00052
10.65 0.98055 0.00048	10.45 0.97951 0.00049	10.25 0.98226 0.00051
10.70 0.98457 0.00047	10.50 0.98319 0.00050	10.30 0.98657 0.00051
10.75 0.98973 0.00049	10.55 0.98824 0.00049	10.35 0.99165 0.00050
10.80 0.99260 0.00048	10.60 0.99198 0.00051	10.40 0.99574 0.00050
10.85 0.99563 0.00047	10.65 0.99539 0.00049	10.45 0.99904 0.00050
10.90 0.99904 0.00048	10.70 0.99896 0.00051	10.50 1.00437 0.00051
10.95 1.00366 0.00050	10.75 1.00339 0.00050	10.55 1.00758 0.00051
11.00 1.00707 0.00050	10.80 1.00701 0.00049	10.60 1.01168 0.00052
11.05 1.01080 0.00049	10.85 1.01096 0.00049	10.65 1.01555 0.00050
11.10 1.01521 0.00049	10.90 1.01522 0.00048	10.70 1.01925 0.00050
11.15 1.01831 0.00050	10.95 1.01968 0.00051	10.75 1.02318 0.00051
11.20 1.02223 0.00048	11.00 1.02164 0.00050	10.80 1.02734 0.00051

130	150	200
9.40 0.91686 0.00050	9.30 0.91992 0.00051	9.10 0.91545 0.00052
9.45 0.92204 0.00051	9.35 0.92443 0.00051	9.15 0.92033 0.00052
9.50 0.92664 0.00051	9.40 0.92956 0.00051	9.20 0.92535 0.00053
9.55 0.93084 0.00051	9.45 0.93360 0.00051	9.25 0.92994 0.00052
9.60 0.93597 0.00052	9.50 0.93850 0.00052	9.30 0.93507 0.00052
9.65 0.94059 0.00050	9.55 0.94356 0.00052	9.35 0.93931 0.00054
9.70 0.94519 0.00051	9.60 0.94781 0.00051	9.40 0.94501 0.00054
9.75 0.94942 0.00051	9.65 0.95267 0.00052	9.45 0.94902 0.00053
9.80 0.95424 0.00051	9.70 0.95674 0.00053	9.50 0.95359 0.00053
9.85 0.95803 0.00052	9.75 0.96124 0.00052	9.55 0.95838 0.00053
9.90 0.96291 0.00051	9.80 0.96645 0.00052	9.60 0.96342 0.00054
9.95 0.96772 0.00051	9.85 0.97159 0.00052	9.65 0.96876 0.00052
10.00 0.97246 0.00053	9.90 0.97556 0.00052	9.70 0.97347 0.00054
10.05 0.97471 0.00051	9.95 0.97975 0.00052	9.75 0.97707 0.00055
10.10 0.98013 0.00052	10.00 0.98475 0.00050	9.80 0.98185 0.00054
10.15 0.98315 0.00051	10.05 0.98821 0.00054	9.85 0.98723 0.00053
10.20 0.98882 0.00052	10.10 0.99376 0.00052	9.90 0.99080 0.00054
10.25 0.99253 0.00053	10.15 0.99776 0.00051	9.95 0.99504 0.00052
10.30 0.99691 0.00051	10.20 1.00082 0.00051	10.00 1.00117 0.00053
10.35 1.00162 0.00051	10.25 1.00522 0.00051	10.05 1.00437 0.00052
10.40 1.00605 0.00051	10.30 1.01056 0.00052	10.10 1.00888 0.00052
10.45 1.00973 0.00050	10.35 1.01472 0.00053	10.15 1.01324 0.00052
10.50 1.01395 0.00051	10.40 1.01848 0.00053	10.20 1.01725 0.00055
10.55 1.01886 0.00052	10.45 1.02224 0.00052	10.25 1.02279 0.00053
10.60 1.02061 0.00051	10.50 1.02632 0.00051	10.30 1.02615 0.00054

235	250	353
9.10 0.91970 0.00053	9.10 0.92003 0.00053	9.10 0.91243 0.00052
9.15 0.92376 0.00052	9.15 0.92480 0.00053	9.15 0.91623 0.00054
9.20 0.92988 0.00052	9.20 0.93009 0.00052	9.20 0.92272 0.00053
9.25 0.93453 0.00051	9.25 0.93451 0.00053	9.25 0.92693 0.00052
9.30 0.93959 0.00051	9.30 0.93995 0.00053	9.30 0.93222 0.00052
9.35 0.94429 0.00054	9.35 0.94458 0.00052	9.35 0.93730 0.00051
9.40 0.94934 0.00053	9.40 0.94883 0.00052	9.40 0.94088 0.00054
9.45 0.95413 0.00052	9.45 0.95409 0.00055	9.45 0.94614 0.00053
9.50 0.95961 0.00052	9.50 0.95862 0.00052	9.50 0.95160 0.00053
9.55 0.96314 0.00051	9.55 0.96362 0.00054	9.55 0.95634 0.00052
9.60 0.96782 0.00052	9.60 0.96820 0.00053	9.60 0.96052 0.00054
9.65 0.97270 0.00054	9.65 0.97331 0.00055	9.65 0.96515 0.00053
9.70 0.97647 0.00054	9.70 0.97795 0.00052	9.70 0.96896 0.00055
9.75 0.98169 0.00052	9.75 0.98173 0.00054	9.75 0.97467 0.00052
9.80 0.98677 0.00054	9.80 0.98646 0.00054	9.80 0.97946 0.00054
9.85 0.99135 0.00054	9.85 0.99153 0.00055	9.85 0.98346 0.00054
9.90 0.99635 0.00053	9.90 0.99635 0.00054	9.90 0.98830 0.00053
9.95 1.00030 0.00052	9.95 1.00112 0.00054	9.95 0.99235 0.00053
10.00 1.00466 0.00052	10.00 1.00521 0.00054	10.00 0.99696 0.00053
10.05 1.00932 0.00052	10.05 1.00947 0.00053	10.05 1.00256 0.00054
10.10 1.01271 0.00053	10.10 1.01396 0.00054	10.10 1.00598 0.00054
10.15 1.01778 0.00053	10.15 1.01794 0.00054	10.15 1.01047 0.00051
10.20 1.02221 0.00054	10.20 1.02223 0.00052	10.20 1.01423 0.00054
		10.25 1.01896 0.00053
		10.30 1.02386 0.00055

470	475	480
9.40 0.92014 0.00052	9.40 0.91745 0.00052	9.40 0.91665 0.00051
9.45 0.92384 0.00053	9.45 0.92315 0.00052	9.45 0.92099 0.00053
9.50 0.92831 0.00052	9.50 0.92829 0.00053	9.50 0.92569 0.00052
9.55 0.93330 0.00052	9.55 0.93128 0.00053	9.55 0.93093 0.00051
9.60 0.93778 0.00052	9.60 0.93694 0.00052	9.60 0.93515 0.00052
9.65 0.94197 0.00052	9.65 0.94097 0.00054	9.65 0.93999 0.00052
9.70 0.94733 0.00052	9.70 0.94592 0.00052	9.70 0.94498 0.00051
9.75 0.95177 0.00053	9.75 0.94970 0.00052	9.75 0.94947 0.00052
9.80 0.95651 0.00052	9.80 0.95508 0.00051	9.80 0.95417 0.00053
9.85 0.96115 0.00052	9.85 0.95935 0.00054	9.85 0.95836 0.00052
9.90 0.96573 0.00052	9.90 0.96460 0.00052	9.90 0.96210 0.00052
9.95 0.97057 0.00053	9.95 0.96737 0.00052	9.95 0.96666 0.00053
10.00 0.97413 0.00054	10.00 0.97280 0.00052	10.00 0.97126 0.00053
10.05 0.97872 0.00054	10.05 0.97715 0.00053	10.05 0.97645 0.00052
10.10 0.98244 0.00053	10.10 0.98115 0.00054	10.10 0.98035 0.00053
10.15 0.98708 0.00054	10.15 0.98602 0.00053	10.15 0.98290 0.00052
10.20 0.99116 0.00053	10.20 0.99021 0.00053	10.20 0.98897 0.00052
10.25 0.99743 0.00052	10.25 0.99382 0.00053	10.25 0.99289 0.00054
10.30 0.99975 0.00054	10.30 0.99866 0.00052	10.30 0.99753 0.00052

10.35 1.00367 0.00053	10.35 1.00265 0.00052	10.35 1.00114 0.00053
10.40 1.00798 0.00053	10.40 1.00748 0.00053	10.40 1.00606 0.00051
10.45 1.01221 0.00053	10.45 1.01094 0.00052	10.45 1.00999 0.00053
10.50 1.01674 0.00054	10.50 1.01508 0.00054	10.50 1.01383 0.00054
10.55 1.02059 0.00052	10.55 1.01865 0.00052	10.55 1.01847 0.00053
10.60 1.02549 0.00053	10.60 1.02353 0.00051	10.60 1.02213 0.00053

486 0

9.40 0.91559 0.00053
9.45 0.92133 0.00050
9.50 0.92628 0.00052
9.55 0.93040 0.00054
9.60 0.93415 0.00051
9.65 0.93921 0.00052
9.70 0.94345 0.00053
9.75 0.94839 0.00052
9.80 0.95207 0.00052
9.85 0.95687 0.00052
9.90 0.96128 0.00055
9.95 0.96562 0.00054
10.00 0.97178 0.00053
10.05 0.97458 0.00052
10.10 0.97883 0.00053
10.15 0.98337 0.00053
10.20 0.98811 0.00053
10.25 0.99194 0.00054
10.30 0.99584 0.00052
10.35 1.00069 0.00052
10.40 1.00417 0.00053
10.45 1.00877 0.00053
10.50 1.01273 0.00052
10.55 1.01695 0.00053
10.60 1.02133 0.00051

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12	15	20
55.80 0.87421 0.00014	38.90 0.95361 0.00019	18.20 0.92615 0.00028
56.80 0.87542 0.00014	41.80 0.96107 0.00018	18.50 0.93190 0.00027
57.80 0.87678 0.00014	44.70 0.96700 0.00018	18.80 0.93647 0.00028
58.80 0.87727 0.00015	47.60 0.97237 0.00017	19.10 0.94153 0.00027
59.80 0.87846 0.00014	50.50 0.97712 0.00016	19.40 0.94644 0.00027
60.80 0.87874 0.00014	53.40 0.98104 0.00017	19.70 0.95136 0.00028
61.80 0.87978 0.00014	56.30 0.98431 0.00015	20.00 0.95610 0.00027
62.80 0.88050 0.00014	59.20 0.98727 0.00016	20.30 0.95991 0.00027
63.80 0.88119 0.00014	62.10 0.99001 0.00015	20.60 0.96448 0.00027
64.80 0.88189 0.00014	65.00 0.99157 0.00015	20.90 0.96906 0.00026
65.80 0.88228 0.00014	67.90 0.99380 0.00015	21.20 0.97317 0.00027
66.80 0.88332 0.00014	70.80 0.99511 0.00015	21.50 0.97661 0.00027
67.80 0.88379 0.00014	73.70 0.99724 0.00014	21.80 0.98042 0.00026
68.80 0.88427 0.00014	76.60 0.99838 0.00014	22.10 0.98413 0.00026
69.80 0.88492 0.00014	79.50 0.99979 0.00015	22.40 0.98785 0.00027
70.80 0.88554 0.00014	82.40 1.00137 0.00014	22.70 0.99103 0.00026
71.80 0.88575 0.00014	85.30 1.00178 0.00014	23.00 0.99489 0.00026
72.80 0.88616 0.00014	88.20 1.00277 0.00014	23.30 0.99775 0.00025
73.80 0.88661 0.00014	91.10 1.00321 0.00013	23.60 1.00082 0.00026
74.80 0.88685 0.00014	94.00 1.00446 0.00013	23.90 1.00377 0.00025
75.80 0.88760 0.00013	96.90 1.00516 0.00013	24.20 1.00733 0.00025
	97.50 1.00516 0.00014	24.50 1.00990 0.00026
		24.80 1.01273 0.00025
		24.90 1.01374 0.00026

25	30	32
14.40 0.92363 0.00033	12.60 0.92304 0.00034	12.10 0.92284 0.00036
14.60 0.92983 0.00032	12.70 0.92749 0.00035	12.20 0.92835 0.00036
14.80 0.93505 0.00031	12.80 0.93098 0.00035	12.30 0.93210 0.00037
15.00 0.94073 0.00032	12.90 0.93467 0.00035	12.40 0.93618 0.00036
15.20 0.94672 0.00031	13.00 0.93878 0.00036	12.50 0.94062 0.00036
15.40 0.95202 0.00032	13.10 0.94294 0.00035	12.60 0.94434 0.00036
15.60 0.95696 0.00031	13.20 0.94690 0.00035	12.70 0.94841 0.00036
15.80 0.96273 0.00031	13.30 0.94996 0.00035	12.80 0.95200 0.00036
16.00 0.96789 0.00031	13.40 0.95403 0.00035	12.90 0.95642 0.00035
16.20 0.97255 0.00030	13.50 0.95737 0.00035	13.00 0.96002 0.00036
16.40 0.97687 0.00032	13.60 0.96127 0.00035	13.10 0.96431 0.00036
16.60 0.98251 0.00031	13.70 0.96489 0.00035	13.20 0.96769 0.00036
16.80 0.98740 0.00031	13.80 0.96777 0.00035	13.30 0.97198 0.00036
17.00 0.99075 0.00031	13.90 0.97085 0.00034	13.40 0.97560 0.00035
17.20 0.99596 0.00031	14.00 0.97454 0.00034	13.50 0.97881 0.00036
17.40 0.99975 0.00031	14.10 0.97847 0.00034	13.60 0.98181 0.00036
17.60 1.00421 0.00031	14.20 0.98093 0.00035	13.70 0.98596 0.00035
17.80 1.00835 0.00031	14.30 0.98465 0.00034	13.80 0.98996 0.00036
18.00 1.01182 0.00031	14.40 0.98775 0.00035	13.90 0.99357 0.00035
18.20 1.01665 0.00030	14.50 0.99086 0.00035	14.00 0.99660 0.00036

14.60	0.99457	0.00034	14.10	1.00079	0.00035
14.70	0.99793	0.00034	14.20	1.00294	0.00035
14.80	1.00025	0.00034	14.30	1.00621	0.00035
14.90	1.00367	0.00034	14.40	1.01018	0.00036
15.00	1.00668	0.00034	14.50	1.01347	0.00035
15.10	1.00943	0.00034	14.60	1.01628	0.00035
15.20	1.01226	0.00034			
15.30	1.01502	0.00034			

35	40	50						
11.50	0.92397	0.00037	10.70	0.92044	0.00038	9.70	0.91692	0.00042
11.60	0.92806	0.00038	10.80	0.92660	0.00038	9.80	0.92295	0.00042
11.70	0.93240	0.00037	10.90	0.93093	0.00039	9.90	0.93017	0.00042
11.80	0.93804	0.00037	11.00	0.93659	0.00038	10.00	0.93627	0.00043
11.90	0.94240	0.00039	11.10	0.94259	0.00040	10.10	0.94284	0.00042
12.00	0.94710	0.00037	11.20	0.94748	0.00039	10.20	0.94865	0.00041
12.10	0.95040	0.00038	11.30	0.95258	0.00039	10.30	0.95522	0.00041
12.20	0.95530	0.00038	11.40	0.95728	0.00038	10.40	0.96117	0.00042
12.30	0.96001	0.00038	11.50	0.96321	0.00039	10.50	0.96703	0.00042
12.40	0.96405	0.00038	11.60	0.96743	0.00039	10.60	0.97351	0.00041
12.50	0.96973	0.00037	11.70	0.97227	0.00039	10.70	0.97867	0.00041
12.60	0.97295	0.00036	11.80	0.97752	0.00039	10.80	0.98456	0.00041
12.70	0.97729	0.00037	11.90	0.98269	0.00039	10.90	0.99042	0.00042
12.80	0.98115	0.00037	12.00	0.98658	0.00039	11.00	0.99503	0.00041
12.90	0.98453	0.00037	12.10	0.99048	0.00038	11.10	1.00112	0.00041
13.00	0.98857	0.00037	12.20	0.99546	0.00039	11.20	1.00719	0.00041
13.10	0.99329	0.00037	12.30	0.99998	0.00038	11.30	1.01144	0.00042
13.20	0.99663	0.00037	12.40	1.00505	0.00040	11.40	1.01723	0.00042
13.30	1.00091	0.00038	12.50	1.00887	0.00039	11.50	1.02310	0.00043
13.40	1.00438	0.00035	12.60	1.01365	0.00039			
13.50	1.00810	0.00037	12.70	1.01749	0.00039			
13.60	1.01119	0.00037						
13.70	1.01519	0.00037						

60	70	80						
9.20	0.92312	0.00045	8.80	0.92143	0.00045	8.50	0.92035	0.00047
9.25	0.92520	0.00044	8.85	0.92614	0.00045	8.55	0.92428	0.00047
9.30	0.92967	0.00044	8.90	0.93020	0.00046	8.60	0.92892	0.00046
9.35	0.93338	0.00042	8.95	0.93439	0.00044	8.65	0.93224	0.00046
9.40	0.93722	0.00044	9.00	0.93827	0.00045	8.70	0.93596	0.00045
9.45	0.94009	0.00043	9.05	0.94118	0.00045	8.75	0.94081	0.00046
9.50	0.94429	0.00044	9.10	0.94515	0.00045	8.80	0.94500	0.00046
9.55	0.94754	0.00043	9.15	0.94967	0.00045	8.85	0.94897	0.00047
9.60	0.95058	0.00043	9.20	0.95318	0.00045	8.90	0.95252	0.00046
9.65	0.95426	0.00044	9.25	0.95604	0.00045	8.95	0.95605	0.00045
9.70	0.95761	0.00043	9.30	0.96041	0.00045	9.00	0.96065	0.00046
9.75	0.96144	0.00044	9.35	0.96459	0.00045	9.05	0.96406	0.00046

9.80 0.96540 0.00044	9.40 0.96711 0.00045	9.10 0.96761 0.00047
9.85 0.96797 0.00044	9.45 0.97057 0.00045	9.15 0.97224 0.00046
9.90 0.97135 0.00043	9.50 0.97464 0.00046	9.20 0.97562 0.00045
9.95 0.97405 0.00043	9.55 0.97808 0.00046	9.25 0.97996 0.00047
10.00 0.97745 0.00044	9.60 0.98151 0.00044	9.30 0.98335 0.00045
10.05 0.98164 0.00043	9.65 0.98515 0.00045	9.35 0.98776 0.00046
10.10 0.98455 0.00044	9.70 0.98831 0.00046	9.40 0.99136 0.00048
10.15 0.98738 0.00043	9.75 0.99178 0.00046	9.45 0.99435 0.00046
10.20 0.99090 0.00043	9.80 0.99587 0.00045	9.50 0.99842 0.00047
10.25 0.99418 0.00044	9.85 0.99853 0.00046	9.55 1.00137 0.00046
10.30 0.99653 0.00043	9.90 1.00262 0.00046	9.60 1.00470 0.00046
10.35 1.00074 0.00043	9.95 1.00547 0.00046	9.65 1.00886 0.00046
10.40 1.00299 0.00045	10.00 1.00986 0.00043	9.70 1.01210 0.00047
10.45 1.00692 0.00043	10.05 1.01239 0.00045	9.75 1.01602 0.00046
10.50 1.00879 0.00043	10.10 1.01525 0.00044	9.80 1.01986 0.00046
10.55 1.01202 0.00043	10.15 1.01907 0.00046	
10.60 1.01580 0.00042	10.20 1.02158 0.00046	
10.65 1.01792 0.00043		
10.70 1.02095 0.00044		

90	100	118
8.30 0.92167 0.00047	8.10 0.91851 0.00049	7.90 0.91904 0.00049
8.35 0.92660 0.00047	8.15 0.92362 0.00048	7.95 0.92487 0.00048
8.40 0.93066 0.00047	8.20 0.92780 0.00047	8.00 0.92913 0.00049
8.45 0.93477 0.00047	8.25 0.93220 0.00048	8.05 0.93358 0.00049
8.50 0.93866 0.00048	8.30 0.93582 0.00048	8.10 0.93749 0.00048
8.55 0.94226 0.00047	8.35 0.94064 0.00047	8.15 0.94253 0.00048
8.60 0.94709 0.00048	8.40 0.94429 0.00049	8.20 0.94710 0.00050
8.65 0.95091 0.00045	8.45 0.94923 0.00047	8.25 0.95226 0.00050
8.70 0.95581 0.00048	8.50 0.95257 0.00048	8.30 0.95546 0.00048
8.75 0.95940 0.00045	8.55 0.95724 0.00048	8.35 0.96002 0.00048
8.80 0.96329 0.00048	8.60 0.96147 0.00048	8.40 0.96466 0.00049
8.85 0.96728 0.00047	8.65 0.96538 0.00048	8.45 0.96877 0.00048
8.90 0.97077 0.00047	8.70 0.96967 0.00048	8.50 0.97308 0.00050
8.95 0.97473 0.00048	8.75 0.97396 0.00049	8.55 0.97757 0.00048
9.00 0.98010 0.00047	8.80 0.97808 0.00049	8.60 0.98224 0.00048
9.05 0.98381 0.00046	8.85 0.98264 0.00047	8.65 0.98640 0.00050
9.10 0.98668 0.00047	8.90 0.98641 0.00049	8.70 0.98978 0.00048
9.15 0.99123 0.00049	8.95 0.98927 0.00049	8.75 0.99446 0.00050
9.20 0.99409 0.00046	9.00 0.99342 0.00047	8.80 0.99849 0.00049
9.25 0.99786 0.00048	9.05 0.99824 0.00047	8.85 1.00229 0.00049
9.30 1.00237 0.00048	9.10 1.00190 0.00048	8.90 1.00628 0.00049
9.35 1.00619 0.00048	9.15 1.00690 0.00048	8.95 1.01113 0.00050
9.40 1.00941 0.00048	9.20 1.00945 0.00048	9.00 1.01444 0.00048
9.45 1.01319 0.00045	9.25 1.01368 0.00048	9.05 1.01803 0.00051
9.50 1.01744 0.00047	9.30 1.01702 0.00048	9.10 1.02290 0.00048
9.55 1.02019 0.00047	9.35 1.02164 0.00049	
9.60 1.02474 0.00047	9.40 1.02506 0.00047	

130	150	200
7.80 0.92080 0.00048	7.60 0.91353 0.00049	7.50 0.92094 0.00051
7.85 0.92485 0.00048	7.65 0.91850 0.00050	7.55 0.92609 0.00049
7.90 0.92957 0.00048	7.70 0.92330 0.00050	7.60 0.93088 0.00049
7.95 0.93414 0.00049	7.75 0.92878 0.00049	7.65 0.93604 0.00050
8.00 0.93901 0.00050	7.80 0.93343 0.00051	7.70 0.94030 0.00050
8.05 0.94294 0.00051	7.85 0.93674 0.00049	7.75 0.94422 0.00052
8.10 0.94852 0.00049	7.90 0.94275 0.00049	7.80 0.94955 0.00050
8.15 0.95226 0.00050	7.95 0.94620 0.00049	7.85 0.95568 0.00049
8.20 0.95775 0.00049	8.00 0.95151 0.00050	7.90 0.95995 0.00050
8.25 0.96181 0.00050	8.05 0.95630 0.00049	7.95 0.96427 0.00051
8.30 0.96695 0.00050	8.10 0.96136 0.00049	8.00 0.96987 0.00051
8.35 0.97041 0.00048	8.15 0.96481 0.00051	8.05 0.97384 0.00052
8.40 0.97602 0.00050	8.20 0.97047 0.00051	8.10 0.97883 0.00050
8.45 0.97920 0.00048	8.25 0.97467 0.00049	8.15 0.98276 0.00052
8.50 0.98431 0.00049	8.30 0.97943 0.00049	8.20 0.98721 0.00050
8.55 0.98852 0.00048	8.35 0.98375 0.00049	8.25 0.99194 0.00050
8.60 0.99200 0.00049	8.40 0.98840 0.00051	8.30 0.99613 0.00050
8.65 0.99526 0.00049	8.45 0.99234 0.00050	8.35 1.00039 0.00052
8.70 1.00000 0.00048	8.50 0.99712 0.00051	8.40 1.00520 0.00053
8.75 1.00380 0.00050	8.55 1.00102 0.00049	8.45 1.00925 0.00051
8.80 1.00935 0.00050	8.60 1.00482 0.00051	8.50 1.01369 0.00050
8.85 1.01291 0.00048	8.65 1.00784 0.00051	8.55 1.01762 0.00051
8.90 1.01738 0.00049	8.70 1.01310 0.00051	8.60 1.02294 0.00050
8.95 1.02190 0.00050	8.75 1.01776 0.00051	
9.00 1.02564 0.00051	8.80 1.02150 0.00050	
235	250	353
7.40 0.91557 0.00051	7.40 0.91813 0.00051	7.40 0.91277 0.00052
7.45 0.92129 0.00050	7.45 0.92244 0.00051	7.45 0.91699 0.00051
7.50 0.92730 0.00052	7.50 0.92676 0.00052	7.50 0.92277 0.00050
7.55 0.93047 0.00050	7.55 0.93238 0.00050	7.55 0.92751 0.00052
7.60 0.93514 0.00051	7.60 0.93693 0.00051	7.60 0.93224 0.00051
7.65 0.94190 0.00051	7.65 0.94225 0.00051	7.65 0.93718 0.00050
7.70 0.94546 0.00050	7.70 0.94637 0.00051	7.70 0.94147 0.00051
7.75 0.95027 0.00049	7.75 0.95182 0.00051	7.75 0.94693 0.00052
7.80 0.95525 0.00051	7.80 0.95545 0.00051	7.80 0.95136 0.00052
7.85 0.95988 0.00050	7.85 0.96095 0.00051	7.85 0.95558 0.00051
7.90 0.96465 0.00051	7.90 0.96576 0.00050	7.90 0.96144 0.00051
7.95 0.96911 0.00050	7.95 0.96994 0.00051	7.95 0.96611 0.00051
8.00 0.97340 0.00052	8.00 0.97516 0.00050	8.00 0.97095 0.00051
8.05 0.97969 0.00052	8.05 0.97921 0.00050	8.05 0.97429 0.00051
8.10 0.98354 0.00051	8.10 0.98450 0.00052	8.10 0.97918 0.00052
8.15 0.98755 0.00052	8.15 0.98870 0.00052	8.15 0.98414 0.00050
8.20 0.99141 0.00051	8.20 0.99381 0.00051	8.20 0.98778 0.00052
8.25 0.99681 0.00051	8.25 0.99740 0.00050	8.25 0.99321 0.00052
8.30 1.00170 0.00051	8.30 1.00262 0.00050	8.30 0.99779 0.00053

8.35 1.00616 0.00051	8.35 1.00699 0.00051	8.35 1.00126 0.00052
8.40 1.00967 0.00051	8.40 1.01164 0.00052	8.40 1.00630 0.00051
8.45 1.01499 0.00052	8.45 1.01528 0.00051	8.45 1.00977 0.00052
8.50 1.01856 0.00052	8.50 1.02022 0.00051	8.50 1.01430 0.00052
		8.55 1.01788 0.00050
		8.60 1.02240 0.00052

470	475	480
7.70 0.92342 0.00051	7.70 0.92220 0.00050	7.70 0.92109 0.00050
7.75 0.92732 0.00051	7.75 0.92615 0.00051	7.75 0.92623 0.00051
7.80 0.93236 0.00051	7.80 0.93145 0.00050	7.80 0.92998 0.00050
7.85 0.93683 0.00052	7.85 0.93613 0.00050	7.85 0.93489 0.00050
7.90 0.94152 0.00051	7.90 0.94047 0.00052	7.90 0.93923 0.00051
7.95 0.94676 0.00050	7.95 0.94490 0.00050	7.95 0.94344 0.00051
8.00 0.95108 0.00051	8.00 0.95029 0.00049	8.00 0.94892 0.00050
8.05 0.95504 0.00051	8.05 0.95507 0.00051	8.05 0.95357 0.00050
8.10 0.95996 0.00052	8.10 0.95854 0.00052	8.10 0.95718 0.00051
8.15 0.96404 0.00052	8.15 0.96311 0.00052	8.15 0.96166 0.00052
8.20 0.96752 0.00053	8.20 0.96695 0.00051	8.20 0.96597 0.00051
8.25 0.97328 0.00051	8.25 0.97202 0.00051	8.25 0.97154 0.00051
8.30 0.97781 0.00050	8.30 0.97638 0.00052	8.30 0.97519 0.00051
8.35 0.98199 0.00053	8.35 0.98090 0.00053	8.35 0.97938 0.00051
8.40 0.98660 0.00051	8.40 0.98540 0.00051	8.40 0.98388 0.00050
8.45 0.99088 0.00051	8.45 0.98901 0.00052	8.45 0.98793 0.00052
8.50 0.99454 0.00051	8.50 0.99317 0.00050	8.50 0.99256 0.00051
8.55 0.99932 0.00051	8.55 0.99728 0.00052	8.55 0.99748 0.00053
8.60 1.00300 0.00051	8.60 1.00226 0.00052	8.60 1.00036 0.00054
8.65 1.00726 0.00052	8.65 1.00563 0.00052	8.65 1.00448 0.00052
8.70 1.01129 0.00052	8.70 1.01040 0.00049	8.70 1.00784 0.00052
8.75 1.01473 0.00050	8.75 1.01382 0.00052	8.75 1.01280 0.00050
8.80 1.01902 0.00052	8.80 1.01772 0.00051	8.80 1.01645 0.00051
		8.85 1.02042 0.00051
		8.90 1.02484 0.00050

486	0
7.70 0.92079 0.00050	
7.75 0.92474 0.00052	
7.80 0.92918 0.00049	
7.85 0.93377 0.00051	
7.90 0.93830 0.00052	
7.95 0.94476 0.00051	
8.00 0.94780 0.00052	
8.05 0.95187 0.00052	
8.10 0.95717 0.00051	
8.15 0.96082 0.00052	
8.20 0.96558 0.00052	
8.25 0.96991 0.00051	

8.30 0.97336 0.00051
 8.35 0.97844 0.00053
 8.40 0.98339 0.00050
 8.45 0.98770 0.00051
 8.50 0.99227 0.00052
 8.55 0.99555 0.00051
 8.60 1.00007 0.00052
 8.65 1.00428 0.00052
 8.70 1.00780 0.00052
 8.75 1.01208 0.00051
 8.80 1.01586 0.00050
 8.85 1.02016 0.00051
 8.90 1.02491 0.00050

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12	15	20
52.30 0.87231 0.00014	29.00 0.91956 0.00019	17.00 0.92676 0.00026
53.80 0.87444 0.00015	29.20 0.92098 0.00020	17.30 0.93147 0.00027
55.30 0.87537 0.00014	29.40 0.92224 0.00020	17.60 0.93686 0.00026
56.80 0.87648 0.00014	29.60 0.92302 0.00019	17.90 0.94195 0.00026
58.30 0.87809 0.00014	29.80 0.92416 0.00020	18.20 0.94681 0.00026
59.80 0.87899 0.00014	30.00 0.92483 0.00019	18.50 0.95146 0.00026
61.30 0.88013 0.00014	30.20 0.92589 0.00020	18.80 0.95567 0.00026
62.80 0.88122 0.00014	30.40 0.92653 0.00019	19.10 0.96003 0.00026
64.30 0.88238 0.00014	30.60 0.92761 0.00020	19.40 0.96473 0.00026
65.80 0.88313 0.00014	30.80 0.92891 0.00020	19.70 0.96935 0.00026
67.30 0.88420 0.00014	31.00 0.92935 0.00020	20.00 0.97300 0.00026
68.80 0.88503 0.00013	31.20 0.93017 0.00019	20.30 0.97713 0.00025
70.30 0.88535 0.00014	31.40 0.93135 0.00020	20.60 0.98075 0.00025
71.80 0.88648 0.00013	31.60 0.93216 0.00019	20.90 0.98391 0.00025
73.30 0.88711 0.00013	31.80 0.93303 0.00019	21.20 0.98792 0.00025
74.80 0.88763 0.00013	32.00 0.93411 0.00019	21.50 0.99164 0.00024
76.30 0.88824 0.00013	32.20 0.93485 0.00019	21.80 0.99475 0.00025
77.80 0.88932 0.00013	32.40 0.93554 0.00018	22.10 0.99786 0.00025
79.30 0.88924 0.00013	32.60 0.93640 0.00019	22.40 1.00099 0.00024
80.80 0.88976 0.00013	32.80 0.93684 0.00019	22.70 1.00488 0.00024
82.30 0.89020 0.00013	33.00 0.93773 0.00019	23.00 1.00702 0.00025
83.40 0.89053 0.00013	33.20 0.93859 0.00019	23.30 1.01015 0.00024
	33.40 0.93951 0.00019	23.60 1.01284 0.00024
	33.60 0.94032 0.00018	
	33.80 0.94068 0.00019	
	34.00 0.94197 0.00019	
	34.20 0.94274 0.00018	
	34.30 0.94258 0.00019	

25	30	32
13.20 0.92356 0.00030	11.40 0.92398 0.00034	10.90 0.92490 0.00034
13.30 0.92681 0.00032	11.50 0.92880 0.00034	11.00 0.92913 0.00034
13.40 0.92985 0.00030	11.60 0.93276 0.00032	11.10 0.93334 0.00034
13.50 0.93261 0.00030	11.70 0.93710 0.00033	11.20 0.93782 0.00034
13.60 0.93592 0.00030	11.80 0.93984 0.00033	11.30 0.94180 0.00033
13.70 0.93876 0.00030	11.90 0.94410 0.00033	11.40 0.94591 0.00033
13.80 0.94117 0.00031	12.00 0.94857 0.00034	11.50 0.94994 0.00033
13.90 0.94404 0.00030	12.10 0.95110 0.00033	11.60 0.95422 0.00033
14.00 0.94726 0.00030	12.20 0.95534 0.00033	11.70 0.95836 0.00033
14.10 0.94950 0.00031	12.30 0.95895 0.00033	11.80 0.96143 0.00033
14.20 0.95255 0.00031	12.40 0.96241 0.00033	11.90 0.96552 0.00034
14.30 0.95472 0.00030	12.50 0.96572 0.00032	12.00 0.96986 0.00034
14.40 0.95788 0.00030	12.60 0.96916 0.00034	12.10 0.97339 0.00033
14.50 0.96054 0.00029	12.70 0.97234 0.00033	12.20 0.97701 0.00034
14.60 0.96357 0.00030	12.80 0.97596 0.00032	12.30 0.97998 0.00034
14.70 0.96565 0.00030	12.90 0.97936 0.00033	12.40 0.98460 0.00033
14.80 0.96785 0.00029	13.00 0.98319 0.00032	12.50 0.98770 0.00034
14.90 0.97082 0.00030	13.10 0.98601 0.00032	12.60 0.99080 0.00033
15.00 0.97248 0.00030	13.20 0.98889 0.00033	12.70 0.99507 0.00033
15.10 0.97570 0.00030	13.30 0.99260 0.00032	12.80 0.99905 0.00032
15.20 0.97752 0.00031	13.40 0.99544 0.00033	12.90 1.00198 0.00033
15.30 0.98020 0.00029	13.50 0.99877 0.00032	13.00 1.00481 0.00033
15.40 0.98257 0.00030	13.60 1.00116 0.00032	13.10 1.00845 0.00033
15.50 0.98455 0.00030	13.70 1.00512 0.00032	13.20 1.01172 0.00033
15.60 0.98718 0.00030	13.80 1.00759 0.00033	13.30 1.01501 0.00033
15.70 0.98981 0.00029	13.90 1.01051 0.00032	
15.80 0.99164 0.00029	14.00 1.01332 0.00033	
15.90 0.99417 0.00029	14.10 1.01644 0.00032	
16.00 0.99594 0.00029		
16.10 0.99845 0.00029		
16.20 1.00044 0.00029		
16.30 1.00274 0.00030		
16.40 1.00430 0.00029		
16.50 1.00646 0.00030		
16.60 1.00857 0.00029		
16.70 1.01071 0.00030		
16.80 1.01289 0.00029		
16.90 1.01494 0.00028		

35	40	50
10.30 0.92522 0.00035	9.50 0.92286 0.00036	8.50 0.92206 0.00038
10.40 0.93008 0.00035	9.60 0.92871 0.00037	8.55 0.92498 0.00038
10.50 0.93449 0.00036	9.70 0.93451 0.00037	8.60 0.92898 0.00038
10.60 0.93919 0.00034	9.80 0.93944 0.00037	8.65 0.93190 0.00039
10.70 0.94382 0.00036	9.90 0.94506 0.00036	8.70 0.93482 0.00039
10.80 0.94831 0.00035	10.00 0.95018 0.00037	8.75 0.93748 0.00039
10.90 0.95280 0.00034	10.10 0.95555 0.00036	8.80 0.94085 0.00039
11.00 0.95725 0.00036	10.20 0.96045 0.00036	8.85 0.94484 0.00039

11.10 0.96199 0.00034	10.30 0.96568 0.00036	8.90 0.94757 0.00039
11.20 0.96705 0.00034	10.40 0.97038 0.00037	8.95 0.95034 0.00038
11.30 0.97089 0.00035	10.50 0.97491 0.00036	9.00 0.95390 0.00038
11.40 0.97531 0.00035	10.60 0.97957 0.00037	9.05 0.95668 0.00038
11.50 0.97899 0.00035	10.70 0.98545 0.00036	9.10 0.96044 0.00039
11.60 0.98276 0.00034	10.80 0.98924 0.00036	9.15 0.96283 0.00038
11.70 0.98696 0.00035	10.90 0.99347 0.00036	9.20 0.96599 0.00039
11.80 0.99131 0.00035	11.00 0.99887 0.00035	9.25 0.96866 0.00038
11.90 0.99452 0.00034	11.10 1.00314 0.00036	9.30 0.97222 0.00039
12.00 0.99894 0.00035	11.20 1.00682 0.00036	9.35 0.97466 0.00039
12.10 1.00317 0.00035	11.30 1.01243 0.00036	9.40 0.97759 0.00038
12.20 1.00648 0.00034	11.40 1.01636 0.00036	9.45 0.98089 0.00039
12.30 1.01098 0.00034		9.50 0.98318 0.00038
12.40 1.01418 0.00035		9.55 0.98601 0.00038
12.50 1.01732 0.00035		9.60 0.98966 0.00039
		9.65 0.99231 0.00038
		9.70 0.99494 0.00038
		9.75 0.99774 0.00040
		9.80 1.00052 0.00038
		9.85 1.00279 0.00039
		9.90 1.00589 0.00037
		9.95 1.00939 0.00038
		10.00 1.01217 0.00038
		10.05 1.01366 0.00037
		10.10 1.01638 0.00038

60	70	80
7.90 0.92238 0.00041	7.50 0.92289 0.00041	7.20 0.92325 0.00043
7.95 0.92574 0.00040	7.55 0.92658 0.00040	7.25 0.92656 0.00042
8.00 0.92962 0.00040	7.60 0.93034 0.00042	7.30 0.93146 0.00042
8.05 0.93234 0.00042	7.65 0.93458 0.00041	7.35 0.93585 0.00042
8.10 0.93676 0.00040	7.70 0.93858 0.00041	7.40 0.93910 0.00042
8.15 0.93926 0.00040	7.75 0.94208 0.00042	7.45 0.94355 0.00042
8.20 0.94334 0.00040	7.80 0.94654 0.00042	7.50 0.94760 0.00043
8.25 0.94743 0.00040	7.85 0.95076 0.00041	7.55 0.95181 0.00042
8.30 0.95055 0.00041	7.90 0.95435 0.00043	7.60 0.95520 0.00042
8.35 0.95394 0.00039	7.95 0.95763 0.00042	7.65 0.95920 0.00043
8.40 0.95770 0.00040	8.00 0.96157 0.00041	7.70 0.96347 0.00043
8.45 0.96160 0.00040	8.05 0.96554 0.00041	7.75 0.96679 0.00043
8.50 0.96541 0.00040	8.10 0.96845 0.00041	7.80 0.97084 0.00044
8.55 0.96784 0.00040	8.15 0.97204 0.00042	7.85 0.97476 0.00042
8.60 0.97148 0.00040	8.20 0.97510 0.00040	7.90 0.97901 0.00043
8.65 0.97405 0.00041	8.25 0.97985 0.00042	7.95 0.98216 0.00041
8.70 0.97736 0.00040	8.30 0.98272 0.00041	8.00 0.98661 0.00042
8.75 0.98085 0.00041	8.35 0.98644 0.00042	8.05 0.98957 0.00043
8.80 0.98437 0.00040	8.40 0.99020 0.00042	8.10 0.99422 0.00042
8.85 0.98767 0.00039	8.45 0.99343 0.00040	8.15 0.99761 0.00043
8.90 0.99118 0.00041	8.50 0.99672 0.00042	8.20 1.00107 0.00042
8.95 0.99371 0.00040	8.55 1.00062 0.00041	8.25 1.00427 0.00044

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9.00 0.99684 0.00040	8.60 1.00436 0.00041	8.30 1.00779 0.00042
9.05 1.00034 0.00040	8.65 1.00740 0.00041	8.35 1.01198 0.00044
9.10 1.00385 0.00039	8.70 1.01011 0.00040	8.40 1.01506 0.00042
9.15 1.00704 0.00040	8.75 1.01403 0.00042	8.45 1.01938 0.00043
9.20 1.01046 0.00041	8.80 1.01762 0.00041	8.50 1.02175 0.00042
9.25 1.01284 0.00039		
9.30 1.01625 0.00040		
9.35 1.01879 0.00041		
9.40 1.02171 0.00039		

90	100	118
6.90 0.91629 0.00042	6.80 0.92324 0.00043	6.50 0.91742 0.00045
6.95 0.92007 0.00043	6.85 0.92693 0.00045	6.55 0.92264 0.00044
7.00 0.92510 0.00044	6.90 0.93216 0.00043	6.60 0.92667 0.00046
7.05 0.93036 0.00043	6.95 0.93645 0.00044	6.65 0.93108 0.00043
7.10 0.93289 0.00043	7.00 0.94108 0.00044	6.70 0.93638 0.00044
7.15 0.93817 0.00043	7.05 0.94557 0.00043	6.75 0.94081 0.00046
7.20 0.94270 0.00044	7.10 0.95003 0.00044	6.80 0.94487 0.00045
7.25 0.94713 0.00043	7.15 0.95332 0.00044	6.85 0.95051 0.00044
7.30 0.95029 0.00043	7.20 0.95868 0.00046	6.90 0.95458 0.00044
7.35 0.95397 0.00045	7.25 0.96295 0.00045	6.95 0.95824 0.00046
7.40 0.95918 0.00044	7.30 0.96595 0.00043	7.00 0.96363 0.00044
7.45 0.96326 0.00042	7.35 0.97150 0.00043	7.05 0.96729 0.00044
7.50 0.96759 0.00044	7.40 0.97504 0.00042	7.10 0.97283 0.00045
7.55 0.97095 0.00044	7.45 0.97975 0.00044	7.15 0.97624 0.00046
7.60 0.97546 0.00044	7.50 0.98296 0.00044	7.20 0.98116 0.00045
7.65 0.97937 0.00042	7.55 0.98835 0.00043	7.25 0.98586 0.00045
7.70 0.98310 0.00043	7.60 0.99190 0.00042	7.30 0.98960 0.00045
7.75 0.98729 0.00043	7.65 0.99570 0.00043	7.35 0.99469 0.00045
7.80 0.99108 0.00044	7.70 0.99910 0.00044	7.40 0.99755 0.00045
7.85 0.99539 0.00043	7.75 1.00328 0.00045	7.45 1.00258 0.00045
7.90 0.99919 0.00043	7.80 1.00703 0.00044	7.50 1.00562 0.00044
7.95 1.00312 0.00044	7.85 1.01129 0.00043	7.55 1.01061 0.00045
8.00 1.00604 0.00043	7.90 1.01501 0.00045	7.60 1.01421 0.00044
8.05 1.01060 0.00043	7.95 1.02005 0.00043	7.65 1.01923 0.00045
8.10 1.01421 0.00044	8.00 1.02429 0.00044	7.70 1.02230 0.00044
8.15 1.01794 0.00044		
8.20 1.02152 0.00044		

130	150	200
6.40 0.92063 0.00046	6.20 0.91455 0.00047	6.00 0.91768 0.00046
6.45 0.92537 0.00045	6.25 0.91969 0.00045	6.05 0.92283 0.00044
6.50 0.92890 0.00044	6.30 0.92489 0.00046	6.10 0.92844 0.00045
6.55 0.93367 0.00044	6.35 0.92978 0.00046	6.15 0.93215 0.00046
6.60 0.93902 0.00045	6.40 0.93498 0.00045	6.20 0.93801 0.00045
6.65 0.94408 0.00044	6.45 0.94007 0.00045	6.25 0.94281 0.00045
6.70 0.94883 0.00045	6.50 0.94411 0.00045	6.30 0.94716 0.00047

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6.75 0.95327 0.00044	6.55 0.94924 0.00046	6.35 0.95246 0.00047
6.80 0.95720 0.00046	6.60 0.95367 0.00045	6.40 0.95744 0.00046
6.85 0.96193 0.00045	6.65 0.95845 0.00045	6.45 0.96302 0.00047
6.90 0.96595 0.00044	6.70 0.96306 0.00045	6.50 0.96692 0.00045
6.95 0.97092 0.00045	6.75 0.96753 0.00046	6.55 0.97173 0.00046
7.00 0.97509 0.00044	6.80 0.97273 0.00046	6.60 0.97585 0.00047
7.05 0.97978 0.00045	6.85 0.97629 0.00047	6.65 0.98216 0.00047
7.10 0.98452 0.00045	6.90 0.98205 0.00046	6.70 0.98552 0.00048
7.15 0.98846 0.00044	6.95 0.98652 0.00046	6.75 0.99009 0.00047
7.20 0.99278 0.00045	7.00 0.99042 0.00046	6.80 0.99488 0.00047
7.25 0.99762 0.00045	7.05 0.99495 0.00046	6.85 0.99968 0.00046
7.30 1.00138 0.00046	7.10 0.99924 0.00045	6.90 1.00390 0.00048
7.35 1.00565 0.00044	7.15 1.00375 0.00045	6.95 1.00946 0.00047
7.40 1.01067 0.00044	7.20 1.00786 0.00045	7.00 1.01424 0.00046
7.45 1.01424 0.00044	7.25 1.01253 0.00046	7.05 1.01755 0.00047
7.50 1.01791 0.00046	7.30 1.01706 0.00047	7.10 1.02148 0.00047
	7.35 1.02056 0.00046	
	7.40 1.02601 0.00046	

235	250	353
5.90 0.91607 0.00046	5.90 0.91797 0.00048	5.90 0.92406 0.00047
5.95 0.92096 0.00047	5.95 0.92424 0.00047	5.95 0.92854 0.00046
6.00 0.92629 0.00046	6.00 0.92887 0.00046	6.00 0.93430 0.00047
6.05 0.93161 0.00046	6.05 0.93387 0.00046	6.05 0.93873 0.00047
6.10 0.93656 0.00046	6.10 0.93917 0.00047	6.10 0.94374 0.00046
6.15 0.94220 0.00047	6.15 0.94404 0.00047	6.15 0.94877 0.00047
6.20 0.94585 0.00046	6.20 0.94877 0.00047	6.20 0.95436 0.00047
6.25 0.95163 0.00046	6.25 0.95349 0.00047	6.25 0.95870 0.00048
6.30 0.95738 0.00047	6.30 0.95804 0.00047	6.30 0.96319 0.00046
6.35 0.96179 0.00047	6.35 0.96354 0.00047	6.35 0.96784 0.00048
6.40 0.96626 0.00047	6.40 0.96804 0.00047	6.40 0.97171 0.00047
6.45 0.97058 0.00046	6.45 0.97316 0.00046	6.45 0.97752 0.00047
6.50 0.97533 0.00046	6.50 0.97792 0.00047	6.50 0.98247 0.00046
6.55 0.98041 0.00046	6.55 0.98284 0.00047	6.55 0.98605 0.00048
6.60 0.98531 0.00046	6.60 0.98744 0.00049	6.60 0.99063 0.00048
6.65 0.98972 0.00047	6.65 0.99200 0.00045	6.65 0.99497 0.00048
6.70 0.99384 0.00045	6.70 0.99686 0.00048	6.70 0.99975 0.00048
6.75 0.99877 0.00047	6.75 1.00117 0.00047	6.75 1.00409 0.00048
6.80 1.00399 0.00046	6.80 1.00546 0.00047	6.80 1.00935 0.00047
6.85 1.00766 0.00047	6.85 1.00977 0.00048	6.85 1.01362 0.00046
6.90 1.01309 0.00047	6.90 1.01472 0.00048	6.90 1.01841 0.00046
6.95 1.01613 0.00047	6.95 1.01826 0.00048	6.95 1.02223 0.00047
7.00 1.02155 0.00045	7.00 1.02348 0.00046	7.00 1.02659 0.00048

470	475	480
5.90 0.91558 0.00046	5.90 0.91643 0.00048	6.00 0.92435 0.00046
5.95 0.92066 0.00046	5.95 0.92064 0.00044	6.05 0.92846 0.00047
6.00 0.92586 0.00045	6.00 0.92527 0.00046	6.10 0.93500 0.00047
6.05 0.93040 0.00046	6.05 0.92941 0.00046	6.15 0.93869 0.00048
6.10 0.93566 0.00047	6.10 0.93527 0.00048	6.20 0.94387 0.00046
6.15 0.93982 0.00046	6.15 0.93952 0.00048	6.25 0.94831 0.00047
6.20 0.94424 0.00046	6.20 0.94382 0.00047	6.30 0.95255 0.00047
6.25 0.95014 0.00047	6.25 0.94870 0.00048	6.35 0.95803 0.00047
6.30 0.95377 0.00046	6.30 0.95292 0.00046	6.40 0.96160 0.00046
6.35 0.95938 0.00046	6.35 0.95926 0.00046	6.45 0.96653 0.00047
6.40 0.96286 0.00048	6.40 0.96330 0.00047	6.50 0.97155 0.00047
6.45 0.96854 0.00047	6.45 0.96733 0.00047	6.55 0.97558 0.00047
6.50 0.97259 0.00048	6.50 0.97208 0.00047	6.60 0.98048 0.00048
6.55 0.97669 0.00047	6.55 0.97659 0.00046	6.65 0.98466 0.00047
6.60 0.98117 0.00048	6.60 0.98075 0.00046	6.70 0.98876 0.00046
6.65 0.98618 0.00048	6.65 0.98532 0.00047	6.75 0.99273 0.00047
6.70 0.98964 0.00047	6.70 0.98992 0.00046	6.80 0.99747 0.00047
6.75 0.99373 0.00047	6.75 0.99420 0.00048	6.85 1.00150 0.00048
6.80 0.99872 0.00047	6.80 0.99854 0.00047	6.90 1.00568 0.00047
6.85 1.00389 0.00047	6.85 1.00234 0.00047	6.95 1.00967 0.00048
6.90 1.00745 0.00048	6.90 1.00699 0.00046	7.00 1.01443 0.00047
6.95 1.01223 0.00048	6.95 1.01121 0.00048	7.05 1.01861 0.00047
7.00 1.01653 0.00047	7.00 1.01499 0.00046	7.10 1.02247 0.00047
7.05 1.01980 0.00047	7.05 1.01925 0.00047	
7.10 1.02390 0.00047	7.10 1.02242 0.00047	

486	0
6.00 0.92467 0.00045	
6.05 0.92907 0.00046	
6.10 0.93431 0.00045	
6.15 0.93857 0.00047	
6.20 0.94240 0.00046	
6.25 0.94811 0.00046	
6.30 0.95326 0.00046	
6.35 0.95695 0.00047	
6.40 0.96214 0.00047	
6.45 0.96669 0.00047	
6.50 0.97045 0.00048	
6.55 0.97539 0.00047	
6.60 0.97930 0.00047	
6.65 0.98388 0.00048	
6.70 0.98828 0.00049	
6.75 0.99277 0.00047	
6.80 0.99767 0.00048	
6.85 1.00098 0.00047	
6.90 1.00537 0.00047	
6.95 1.00957 0.00046	
7.00 1.01434 0.00047	
7.05 1.01846 0.00048	
7.10 1.02162 0.00047	

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12	15	20
23.50 0.81754 0.00021	24.50 0.92747 0.00023	16.60 0.92318 0.00031
25.10 0.83209 0.00021	25.70 0.93821 0.00023	16.80 0.92766 0.00030
26.70 0.84377 0.00020	26.90 0.94821 0.00022	17.00 0.93287 0.00030
28.30 0.85465 0.00019	28.10 0.95618 0.00022	17.20 0.93768 0.00029
29.90 0.86460 0.00019	29.30 0.96465 0.00021	17.40 0.94284 0.00030
31.50 0.87195 0.00019	30.50 0.97156 0.00020	17.60 0.94676 0.00030
33.10 0.87911 0.00018	31.70 0.97776 0.00021	17.80 0.95227 0.00029
34.70 0.88529 0.00017	32.90 0.98383 0.00020	18.00 0.95647 0.00030
36.30 0.89124 0.00017	34.10 0.98986 0.00019	18.20 0.96041 0.00029
37.90 0.89602 0.00017	35.30 0.99402 0.00019	18.40 0.96500 0.00029
39.50 0.90039 0.00017	36.50 0.99856 0.00019	18.60 0.96871 0.00029
41.10 0.90396 0.00016	37.70 1.00254 0.00019	18.80 0.97223 0.00029
42.70 0.90778 0.00016	38.90 1.00639 0.00018	19.00 0.97604 0.00029
44.30 0.91146 0.00016	40.10 1.00980 0.00018	19.20 0.98024 0.00029
45.90 0.91405 0.00015	41.30 1.01305 0.00017	19.40 0.98327 0.00030
47.50 0.91664 0.00015	42.50 1.01615 0.00017	19.60 0.98733 0.00028
49.10 0.91930 0.00014	43.70 1.01897 0.00017	19.80 0.99087 0.00028
50.70 0.92117 0.00015	44.90 1.02183 0.00017	20.00 0.99456 0.00029
52.30 0.92340 0.00014	46.10 1.02404 0.00017	20.20 0.99691 0.00028
53.90 0.92527 0.00014	47.30 1.02555 0.00017	20.40 1.00156 0.00028
55.50 0.92672 0.00014	48.40 1.02755 0.00016	20.60 1.00387 0.00028
55.70 0.92742 0.00014		20.80 1.00713 0.00028
		21.00 1.01068 0.00028
		21.20 1.01342 0.00027

25	30	32
13.90 0.92166 0.00035	12.60 0.92539 0.00085	12.10 0.91959 0.00084
14.00 0.92491 0.00034	12.70 0.93066 0.00083	12.20 0.92374 0.00081
14.10 0.92916 0.00034	12.80 0.93452 0.00082	12.30 0.93158 0.00081
14.20 0.93157 0.00034	12.90 0.93881 0.00089	12.40 0.93657 0.00087
14.30 0.93667 0.00035	13.00 0.94214 0.00079	12.50 0.94038 0.00085
14.40 0.93975 0.00034	13.10 0.94881 0.00081	12.60 0.94600 0.00082
14.50 0.94406 0.00034	13.20 0.95284 0.00080	12.70 0.95254 0.00084
14.60 0.94654 0.00034	13.30 0.95751 0.00080	12.80 0.95650 0.00089
14.70 0.95025 0.00033	13.40 0.96207 0.00082	12.90 0.95899 0.00080
14.80 0.95397 0.00035	13.50 0.96571 0.00077	13.00 0.96391 0.00083
14.90 0.95785 0.00033	13.60 0.97005 0.00076	13.10 0.96854 0.00088
15.00 0.96093 0.00035	13.70 0.97497 0.00082	13.20 0.97317 0.00085
15.10 0.96403 0.00034	13.80 0.97926 0.00077	13.30 0.97766 0.00086
15.20 0.96785 0.00035	13.90 0.98466 0.00081	13.40 0.98329 0.00084
15.30 0.97018 0.00034	14.00 0.98688 0.00082	13.50 0.98758 0.00083
15.40 0.97432 0.00034	14.10 0.99098 0.00082	13.60 0.99174 0.00076
15.50 0.97774 0.00035	14.20 0.99398 0.00078	13.70 0.99508 0.00082
15.60 0.98011 0.00034	14.30 1.00018 0.00084	13.80 0.99824 0.00082
15.70 0.98343 0.00034	14.40 1.00226 0.00080	13.90 1.00364 0.00082
15.80 0.98629 0.00034	14.50 1.00538 0.00079	14.00 1.00915 0.00079

15.90 0.98924 0.00033	14.60 1.00943 0.00078	14.10 1.01208 0.00084
16.00 0.99299 0.00033	14.70 1.01287 0.00079	14.20 1.01801 0.00086
16.10 0.99507 0.00033	14.80 1.01910 0.00074	14.30 1.02143 0.00081
16.20 0.99824 0.00033		
16.30 1.00069 0.00033		
16.40 1.00442 0.00033		
16.50 1.00611 0.00033		
16.60 1.00891 0.00033		
16.70 1.01162 0.00034		
16.80 1.01527 0.00033		

35	40	50
11.60 0.92071 0.00090	11.00 0.92041 0.00089	10.20 0.91763 0.00099
11.70 0.92568 0.00088	11.10 0.92548 0.00089	10.25 0.92001 0.00100
11.80 0.93120 0.00088	11.20 0.93146 0.00089	10.30 0.92554 0.00097
11.90 0.93569 0.00094	11.30 0.93687 0.00089	10.35 0.92978 0.00094
12.00 0.94181 0.00085	11.40 0.94493 0.00084	10.40 0.93208 0.00089
12.10 0.94543 0.00091	11.50 0.95018 0.00088	10.45 0.93460 0.00097
12.20 0.95115 0.00084	11.60 0.95790 0.00089	10.50 0.93901 0.00099
12.30 0.95789 0.00088	11.70 0.96154 0.00090	10.55 0.94255 0.00094
12.40 0.96201 0.00085	11.80 0.96870 0.00090	10.60 0.94636 0.00092
12.50 0.96742 0.00085	11.90 0.97362 0.00086	10.65 0.95075 0.00094
12.60 0.97367 0.00084	12.00 0.97959 0.00093	10.70 0.95501 0.00098
12.70 0.97763 0.00086	12.10 0.98435 0.00094	10.75 0.95763 0.00094
12.80 0.98344 0.00087	12.20 0.98942 0.00093	10.80 0.95981 0.00099
12.90 0.98757 0.00088	12.30 0.99546 0.00086	10.85 0.96344 0.00093
13.00 0.99404 0.00090	12.40 1.00083 0.00085	10.90 0.96846 0.00099
13.10 0.99705 0.00084	12.50 1.00673 0.00091	10.95 0.97150 0.00104
13.20 1.00087 0.00083	12.60 1.01322 0.00095	11.00 0.97643 0.00094
13.30 1.00739 0.00086	12.70 1.01502 0.00094	11.05 0.98022 0.00094
13.40 1.00977 0.00086	12.80 1.02068 0.00094	11.10 0.98151 0.00096
13.50 1.01513 0.00087		11.15 0.98456 0.00099
13.60 1.02012 0.00085		11.20 0.99051 0.00093
		11.25 0.99191 0.00094
		11.30 0.99569 0.00090
		11.35 0.99780 0.00103
		11.40 0.99989 0.00095
		11.45 1.00460 0.00090
		11.50 1.00815 0.00096
		11.55 1.01165 0.00094
		11.60 1.01297 0.00096
		11.65 1.01579 0.00091
		11.70 1.02042 0.00095

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60	70	80
9.70 0.91624 0.00104	9.40 0.91966 0.00107	9.10 0.91489 0.00106
9.75 0.92242 0.00102	9.45 0.92464 0.00105	9.15 0.91896 0.00103
9.80 0.92599 0.00107	9.50 0.93050 0.00109	9.20 0.92413 0.00104
9.85 0.92672 0.00102	9.55 0.93293 0.00106	9.25 0.92928 0.00105
9.90 0.93367 0.00100	9.60 0.93808 0.00101	9.30 0.93327 0.00105
9.95 0.93785 0.00100	9.65 0.94173 0.00102	9.35 0.93807 0.00102
10.00 0.94297 0.00100	9.70 0.94710 0.00099	9.40 0.94245 0.00116
10.05 0.94629 0.00096	9.75 0.95156 0.00102	9.45 0.94784 0.00103
10.10 0.94918 0.00097	9.80 0.95407 0.00108	9.50 0.95130 0.00101
10.15 0.95361 0.00107	9.85 0.95857 0.00102	9.55 0.95699 0.00101
10.20 0.95797 0.00100	9.90 0.96468 0.00103	9.60 0.96028 0.00107
10.25 0.96190 0.00108	9.95 0.96573 0.00101	9.65 0.96371 0.00104
10.30 0.96637 0.00104	10.00 0.96955 0.00096	9.70 0.97091 0.00100
10.35 0.97005 0.00103	10.05 0.97400 0.00101	9.75 0.97437 0.00107
10.40 0.97223 0.00107	10.10 0.97919 0.00107	9.80 0.97945 0.00111
10.45 0.97653 0.00095	10.15 0.98491 0.00104	9.85 0.98284 0.00104
10.50 0.97979 0.00096	10.20 0.98476 0.00101	9.90 0.98583 0.00102
10.55 0.98334 0.00094	10.25 0.99051 0.00107	9.95 0.99183 0.00107
10.60 0.98721 0.00100	10.30 0.99484 0.00103	10.00 0.99305 0.00106
10.65 0.99276 0.00098	10.35 0.99818 0.00107	10.05 0.99906 0.00101
10.70 0.99522 0.00098	10.40 1.00375 0.00108	10.10 1.00025 0.00114
10.75 0.99619 0.00104	10.45 1.00582 0.00106	10.15 1.00464 0.00110
10.80 1.00195 0.00100	10.50 1.01164 0.00101	10.20 1.01030 0.00109
10.85 1.00398 0.00098	10.55 1.01525 0.00102	10.25 1.01459 0.00106
10.90 1.00962 0.00098	10.60 1.01582 0.00105	10.30 1.01842 0.00109
10.95 1.01286 0.00105	10.65 1.02016 0.00098	10.35 1.02236 0.00108
11.00 1.01575 0.00103	10.70 1.02399 0.00097	10.40 1.02661 0.00111
11.05 1.01793 0.00103		
11.10 1.02375 0.00099		

90	100	118
8.90 0.91370 0.00104	8.80 0.91627 0.00105	8.60 0.91558 0.00105
8.95 0.91775 0.00107	8.85 0.92162 0.00108	8.65 0.92095 0.00112
9.00 0.92386 0.00107	8.90 0.92658 0.00107	8.70 0.92803 0.00109
9.05 0.92844 0.00106	8.95 0.93118 0.00112	8.75 0.93230 0.00109
9.10 0.93319 0.00099	9.00 0.93766 0.00110	8.80 0.93560 0.00112
9.15 0.93623 0.00103	9.05 0.94261 0.00114	8.85 0.94404 0.00108
9.20 0.94205 0.00099	9.10 0.94778 0.00116	8.90 0.94780 0.00116
9.25 0.94641 0.00111	9.15 0.95180 0.00100	8.95 0.95173 0.00115
9.30 0.95277 0.00111	9.20 0.95581 0.00113	9.00 0.95659 0.00107
9.35 0.95511 0.00108	9.25 0.96034 0.00101	9.05 0.96186 0.00109
9.40 0.95993 0.00112	9.30 0.96494 0.00113	9.10 0.96586 0.00112
9.45 0.96449 0.00105	9.35 0.96960 0.00107	9.15 0.97048 0.00112
9.50 0.96839 0.00101	9.40 0.97400 0.00109	9.20 0.97888 0.00110
9.55 0.97296 0.00109	9.45 0.97836 0.00115	9.25 0.98095 0.00109
9.60 0.97652 0.00108	9.50 0.98447 0.00105	9.30 0.98523 0.00110
9.65 0.98393 0.00109	9.55 0.98852 0.00102	9.35 0.99088 0.00101
9.70 0.98848 0.00111	9.60 0.99341 0.00105	9.40 0.99512 0.00113

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9.75 0.99230 0.00105	9.65 0.99637 0.00100	9.45 1.00087 0.00115
9.80 0.99565 0.00108	9.70 1.00063 0.00115	9.50 1.00549 0.00118
9.85 1.00100 0.00104	9.75 1.00594 0.00108	9.55 1.00861 0.00116
9.90 1.00432 0.00111	9.80 1.00992 0.00117	9.60 1.01269 0.00110
9.95 1.00810 0.00110	9.85 1.01193 0.00111	9.65 1.01808 0.00114
10.00 1.01306 0.00108	9.90 1.01910 0.00104	9.70 1.02181 0.00111
10.05 1.01535 0.00103	9.95 1.02482 0.00107	
10.10 1.02208 0.00109	10.00 1.02839 0.00114	

130	150	200
8.50 0.91815 0.00106	8.40 0.92053 0.00116	8.20 0.91565 0.00114
8.55 0.92049 0.00117	8.45 0.92299 0.00121	8.25 0.91786 0.00112
8.60 0.92658 0.00110	8.50 0.92914 0.00113	8.30 0.92741 0.00119
8.65 0.93128 0.00114	8.55 0.93632 0.00116	8.35 0.93300 0.00118
8.70 0.93855 0.00106	8.60 0.94118 0.00114	8.40 0.93694 0.00122
8.75 0.94246 0.00113	8.70 0.94924 0.00111	8.45 0.94213 0.00114
8.80 0.94592 0.00113	8.75 0.95481 0.00112	8.50 0.94693 0.00116
8.85 0.95309 0.00111	8.80 0.96008 0.00120	8.55 0.95442 0.00115
8.90 0.95626 0.00112	8.85 0.96512 0.00110	8.60 0.95759 0.00114
8.95 0.96352 0.00107	8.90 0.97078 0.00115	8.65 0.96415 0.00114
9.00 0.96696 0.00111	8.95 0.97492 0.00113	8.70 0.96985 0.00112
9.05 0.97125 0.00110	9.00 0.97974 0.00110	8.75 0.97413 0.00117
9.10 0.97679 0.00110	9.05 0.98606 0.00108	8.80 0.98033 0.00103
9.15 0.98282 0.00111	9.10 0.99005 0.00120	8.85 0.98378 0.00111
9.20 0.98595 0.00116	9.15 0.99435 0.00110	8.90 0.99003 0.00116
9.25 0.99135 0.00112	9.20 0.99936 0.00124	8.95 0.99342 0.00108
9.30 0.99635 0.00117	9.25 1.00308 0.00110	9.00 1.00003 0.00115
9.35 1.00158 0.00118	9.30 1.00744 0.00115	9.05 1.00441 0.00120
9.40 1.00268 0.00113	9.35 1.01449 0.00117	9.10 1.01182 0.00114
9.45 1.01102 0.00119	9.40 1.02000 0.00111	9.15 1.01476 0.00119
9.50 1.01468 0.00116	9.45 1.02287 0.00113	9.20 1.01745 0.00116
9.55 1.02135 0.00112	9.50 1.02886 0.00108	9.25 1.02538 0.00114
9.60 1.02376 0.00112		9.30 1.02913 0.00122

235	250	353
8.20 0.92109 0.00108	8.10 0.91377 0.00116	8.10 0.91384 0.00122
8.25 0.92752 0.00118	8.15 0.91939 0.00115	8.15 0.92365 0.00119
8.30 0.93246 0.00117	8.20 0.92321 0.00114	8.20 0.92523 0.00115
8.35 0.94093 0.00117	8.25 0.92969 0.00111	8.25 0.93260 0.00116
8.40 0.94417 0.00118	8.30 0.93385 0.00120	8.30 0.93787 0.00110
8.45 0.94776 0.00119	8.35 0.93972 0.00120	8.35 0.94426 0.00114
8.50 0.95678 0.00115	8.40 0.94567 0.00115	8.40 0.94612 0.00109
8.55 0.96121 0.00106	8.45 0.95026 0.00120	8.45 0.95379 0.00115
8.60 0.96614 0.00112	8.50 0.95658 0.00120	8.50 0.96100 0.00115
8.65 0.96903 0.00110	8.55 0.96167 0.00119	8.55 0.96298 0.00111
8.70 0.97473 0.00117	8.60 0.96809 0.00121	8.60 0.96928 0.00118
8.75 0.98096 0.00118	8.65 0.97022 0.00120	8.65 0.97422 0.00112

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8.80 0.98624 0.00116	8.70 0.97725 0.00120	8.70 0.98053 0.00114
8.85 0.99064 0.00118	8.75 0.98181 0.00127	8.75 0.98540 0.00120
8.90 0.99698 0.00118	8.80 0.98663 0.00121	8.80 0.98965 0.00112
8.95 1.00047 0.00116	8.85 0.99248 0.00115	8.85 0.99508 0.00122
9.00 1.00547 0.00117	8.90 0.99855 0.00121	8.90 1.00090 0.00113
9.05 1.01173 0.00116	8.95 1.00249 0.00116	8.95 1.00625 0.00116
9.10 1.01543 0.00115	9.00 1.00698 0.00119	9.00 1.01260 0.00120
9.15 1.02156 0.00114	9.05 1.01404 0.00113	9.05 1.01660 0.00110
9.20 1.02471 0.00119	9.10 1.01865 0.00118	9.10 1.01930 0.00109
	9.15 1.02329 0.00115	
	9.20 1.02683 0.00115	

470	500	600
8.20 0.92250 0.00116	8.20 0.91719 0.00107	8.50 0.93764 0.00117
8.25 0.92469 0.00113	8.25 0.92210 0.00118	8.55 0.94217 0.00120
8.30 0.93137 0.00120	8.30 0.92777 0.00118	8.60 0.94633 0.00112
8.35 0.93527 0.00113	8.35 0.93257 0.00112	8.65 0.95126 0.00113
8.40 0.94171 0.00113	8.40 0.93711 0.00122	8.70 0.95870 0.00114
8.45 0.94737 0.00115	8.45 0.94376 0.00123	8.75 0.96225 0.00111
8.50 0.95203 0.00117	8.50 0.94721 0.00115	8.80 0.96804 0.00116
8.55 0.95825 0.00117	8.55 0.95427 0.00114	8.85 0.97205 0.00120
8.60 0.96297 0.00118	8.60 0.96003 0.00108	8.90 0.97815 0.00112
8.65 0.96647 0.00119	8.65 0.96489 0.00113	8.95 0.98215 0.00114
8.70 0.97543 0.00122	8.70 0.96951 0.00115	9.00 0.98800 0.00114
8.75 0.97949 0.00121	8.75 0.97341 0.00110	9.05 0.99387 0.00105
8.80 0.98195 0.00124	8.80 0.97917 0.00118	9.10 0.99432 0.00117
8.85 0.98733 0.00115	8.85 0.98312 0.00118	9.15 1.00038 0.00109
8.90 0.99323 0.00105	8.90 0.98974 0.00111	9.20 1.00681 0.00115
8.95 0.99746 0.00114	8.95 0.99444 0.00117	9.25 1.01020 0.00116
9.00 1.00380 0.00107	9.00 1.00009 0.00119	9.30 1.01418 0.00112
9.05 1.00899 0.00115	9.05 1.00535 0.00114	9.35 1.02066 0.00115
9.10 1.01274 0.00119	9.10 1.00931 0.00110	9.40 1.02382 0.00118
9.15 1.01789 0.00112	9.15 1.01173 0.00124	9.45 1.02966 0.00117
9.20 1.02060 0.00115	9.20 1.01742 0.00112	9.50 1.03213 0.00119
	9.25 1.02252 0.00112	
	9.30 1.02926 0.00125	

605	610	615
8.30 0.91626 0.00108	8.30 0.91717 0.00112	8.30 0.91405 0.00113
8.35 0.92261 0.00111	8.35 0.92013 0.00120	8.35 0.91853 0.00118
8.40 0.92632 0.00117	8.40 0.92493 0.00113	8.40 0.92412 0.00117
8.45 0.93041 0.00117	8.45 0.93031 0.00106	8.45 0.93096 0.00113
8.50 0.93709 0.00122	8.50 0.93606 0.00117	8.50 0.93620 0.00107
8.55 0.94249 0.00117	8.55 0.94034 0.00114	8.55 0.94019 0.00107
8.60 0.94674 0.00112	8.60 0.94577 0.00125	8.60 0.94516 0.00117
8.65 0.95239 0.00115	8.65 0.95117 0.00114	8.65 0.94965 0.00116
8.70 0.95603 0.00113	8.70 0.95387 0.00106	8.70 0.95576 0.00116

8.75 0.96157 0.00112	8.75 0.96074 0.00123	8.75 0.96007 0.00113
8.80 0.96610 0.00113	8.80 0.96537 0.00113	8.80 0.96466 0.00112
8.85 0.97236 0.00113	8.85 0.96859 0.00119	8.85 0.97005 0.00119
8.90 0.97787 0.00117	8.90 0.97887 0.00119	8.90 0.97528 0.00115
8.95 0.98173 0.00118	8.95 0.98118 0.00113	8.95 0.98047 0.00112
9.00 0.98774 0.00120	9.00 0.98453 0.00111	9.00 0.98455 0.00112
9.05 0.99017 0.00115	9.05 0.99208 0.00126	9.05 0.98942 0.00111
9.10 0.99723 0.00119	9.10 0.99602 0.00111	9.10 0.99490 0.00113
9.15 0.99944 0.00119	9.15 1.00104 0.00128	9.15 0.99940 0.00109
9.20 1.00610 0.00116	9.20 1.00401 0.00122	9.20 1.00636 0.00114
9.25 1.01166 0.00119	9.25 1.00973 0.00114	9.25 1.00813 0.00118
9.30 1.01502 0.00113	9.30 1.01454 0.00122	9.30 1.01292 0.00112
9.35 1.01897 0.00114	9.35 1.02059 0.00119	9.35 1.01649 0.00120
9.40 1.02330 0.00109	9.40 1.02287 0.00117	9.40 1.02196 0.00109

620	625	629
8.30 0.91336 0.00107	8.30 0.91287 0.00115	8.30 0.91121 0.00114
8.35 0.91929 0.00107	8.35 0.91925 0.00114	8.35 0.91694 0.00113
8.40 0.92490 0.00112	8.40 0.92153 0.00111	8.40 0.92418 0.00118
8.45 0.93029 0.00115	8.45 0.92831 0.00115	8.45 0.92813 0.00122
8.50 0.93350 0.00111	8.50 0.93852 0.00115	8.50 0.93141 0.00121
8.55 0.93864 0.00114	8.55 0.93993 0.00116	8.55 0.93712 0.00114
8.60 0.94540 0.00118	8.60 0.94400 0.00117	8.60 0.94380 0.00118
8.65 0.94911 0.00111	8.65 0.94942 0.00109	8.65 0.94839 0.00115
8.70 0.95513 0.00114	8.70 0.95546 0.00115	8.70 0.95332 0.00117
8.75 0.95963 0.00113	8.75 0.96072 0.00114	8.75 0.95970 0.00117
8.80 0.96451 0.00116	8.80 0.96426 0.00117	8.80 0.96292 0.00112
8.85 0.97120 0.00109	8.85 0.96943 0.00116	8.85 0.96882 0.00114
8.90 0.97332 0.00112	8.90 0.97451 0.00116	8.90 0.97210 0.00119
8.95 0.97898 0.00116	8.95 0.97972 0.00112	8.95 0.97782 0.00108
9.00 0.98388 0.00113	9.00 0.98540 0.00110	9.00 0.98297 0.00117
9.05 0.98919 0.00113	9.05 0.98722 0.00110	9.05 0.98605 0.00121
9.10 0.99330 0.00118	9.10 0.99359 0.00112	9.10 0.99283 0.00107
9.15 0.99755 0.00115	9.15 0.99852 0.00115	9.15 0.99636 0.00115
9.20 1.00427 0.00114	9.20 1.00303 0.00115	9.20 1.00140 0.00113
9.25 1.00882 0.00119	9.25 1.00725 0.00117	9.25 1.00508 0.00119
9.30 1.01157 0.00113	9.30 1.01356 0.00118	9.30 1.01017 0.00117
9.35 1.01368 0.00117	9.35 1.01743 0.00115	9.35 1.01698 0.00114
9.40 1.02441 0.00121	9.40 1.02217 0.00115	9.40 1.02004 0.00114
		9.45 1.02560 0.00111
		9.50 1.02919 0.00111

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12	15	20
25.00 0.84269 0.00020	22.90 0.92690 0.00022	15.10 0.92316 0.00030
25.30 0.84541 0.00019	23.60 0.93293 0.00023	15.30 0.92882 0.00029
25.60 0.84750 0.00019	24.30 0.93980 0.00022	15.50 0.93370 0.00029
25.90 0.84922 0.00019	25.00 0.94528 0.00021	15.70 0.93770 0.00030
26.20 0.85121 0.00019	25.70 0.95040 0.00022	15.90 0.94347 0.00029
26.50 0.85288 0.00019	26.40 0.95538 0.00021	16.10 0.94796 0.00029
26.80 0.85518 0.00019	27.10 0.95987 0.00021	16.30 0.95187 0.00028
27.10 0.85705 0.00019	27.80 0.96497 0.00021	16.50 0.95713 0.00028
27.40 0.85840 0.00019	28.50 0.96879 0.00021	16.70 0.96088 0.00028
27.70 0.86003 0.00019	29.20 0.97324 0.00020	16.90 0.96470 0.00028
28.00 0.86185 0.00019	29.90 0.97673 0.00020	17.10 0.96852 0.00028
28.30 0.86343 0.00019	30.60 0.97995 0.00020	17.30 0.97317 0.00028
28.60 0.86542 0.00019	31.30 0.98374 0.00019	17.50 0.97684 0.00028
28.90 0.86655 0.00018	32.00 0.98707 0.00019	17.70 0.98009 0.00028
29.20 0.86799 0.00018	32.70 0.99028 0.00019	17.90 0.98452 0.00028
29.50 0.86972 0.00019	33.40 0.99256 0.00019	18.10 0.98745 0.00028
29.80 0.87141 0.00018	34.10 0.99540 0.00019	18.30 0.99164 0.00027
30.10 0.87257 0.00018	34.80 0.99777 0.00018	18.50 0.99471 0.00028
30.40 0.87385 0.00019	35.50 1.00044 0.00018	18.70 0.99833 0.00027
30.70 0.87589 0.00018	36.20 1.00265 0.00018	18.90 1.00173 0.00027
31.00 0.87714 0.00017	36.80 1.00508 0.00018	19.10 1.00544 0.00027
31.30 0.87819 0.00017		19.30 1.00812 0.00027
		19.50 1.01107 0.00026
		19.70 1.01432 0.00027

25	30	32
12.40 0.92142 0.00034	11.00 0.92106 0.00074	10.60 0.92240 0.00078
12.50 0.92576 0.00033	11.10 0.92523 0.00079	10.70 0.92549 0.00078
12.60 0.92914 0.00033	11.20 0.93079 0.00077	10.80 0.93222 0.00081
12.70 0.93281 0.00034	11.30 0.93521 0.00078	10.90 0.93498 0.00083
12.80 0.93683 0.00033	11.40 0.93953 0.00083	11.00 0.94076 0.00081
12.90 0.94037 0.00032	11.50 0.94526 0.00082	11.10 0.94739 0.00082
13.00 0.94389 0.00033	11.60 0.94820 0.00080	11.20 0.95136 0.00081
13.10 0.94746 0.00034	11.70 0.95487 0.00078	11.30 0.95623 0.00079
13.20 0.95167 0.00033	11.80 0.95785 0.00086	11.40 0.95969 0.00081
13.30 0.95496 0.00033	11.90 0.96294 0.00076	11.50 0.96515 0.00081
13.50 0.96144 0.00034	12.00 0.96615 0.00076	11.60 0.96888 0.00080
13.60 0.96462 0.00032	12.10 0.97130 0.00079	11.70 0.97435 0.00077
13.70 0.96798 0.00033	12.20 0.97492 0.00075	11.80 0.97991 0.00080
13.80 0.97104 0.00033	12.30 0.97987 0.00078	11.90 0.98288 0.00081
13.90 0.97463 0.00032	12.40 0.98314 0.00079	12.00 0.98877 0.00078
14.00 0.97858 0.00032	12.50 0.98747 0.00079	12.10 0.99196 0.00078
14.10 0.98119 0.00033	12.60 0.99309 0.00078	12.20 0.99740 0.00080
14.20 0.98389 0.00032	12.70 0.99508 0.00079	12.30 0.99994 0.00076
14.30 0.98667 0.00032	12.80 0.99820 0.00080	12.40 1.00486 0.00082
14.40 0.98961 0.00032	12.90 1.00441 0.00076	12.50 1.00988 0.00082

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14.50 0.99277 0.00032	13.00 1.00742 0.00076	12.60 1.01493 0.00077
14.60 0.99595 0.00033	13.10 1.01040 0.00077	12.70 1.01721 0.00081
14.70 0.99840 0.00032	13.20 1.01355 0.00077	12.80 1.02080 0.00078
14.80 1.00157 0.00033	13.30 1.01931 0.00079	
14.90 1.00464 0.00032		
15.00 1.00731 0.00032		
15.10 1.00987 0.00032		
15.20 1.01254 0.00031		
15.30 1.01471 0.00032		
15.40 1.01806 0.00032		

35	40	50
10.10 0.91901 0.00083	9.50 0.92020 0.00092	8.70 0.92016 0.00093
10.20 0.92664 0.00089	9.55 0.92282 0.00085	8.75 0.92142 0.00093
10.30 0.93021 0.00082	9.60 0.92764 0.00091	8.80 0.92656 0.00096
10.40 0.93687 0.00082	9.65 0.93129 0.00088	8.85 0.93044 0.00094
10.50 0.94137 0.00084	9.70 0.93167 0.00085	8.90 0.93341 0.00089
10.60 0.94737 0.00080	9.75 0.93727 0.00082	8.95 0.93539 0.00094
10.70 0.95571 0.00078	9.80 0.93976 0.00092	9.00 0.93987 0.00091
10.80 0.95867 0.00082	9.85 0.94073 0.00081	9.05 0.94458 0.00097
10.90 0.96368 0.00080	9.90 0.94585 0.00089	9.10 0.94969 0.00091
11.00 0.96880 0.00081	9.95 0.94895 0.00085	9.15 0.95329 0.00089
11.10 0.97230 0.00085	10.00 0.95149 0.00088	9.20 0.95556 0.00093
11.20 0.97776 0.00084	10.05 0.95510 0.00092	9.25 0.95742 0.00092
11.30 0.98503 0.00082	10.10 0.95739 0.00089	9.30 0.96306 0.00099
11.40 0.98858 0.00084	10.15 0.96187 0.00089	9.35 0.96564 0.00092
11.50 0.99277 0.00082	10.20 0.96349 0.00085	9.40 0.96992 0.00093
11.60 0.99892 0.00081	10.25 0.96490 0.00086	9.45 0.97172 0.00089
11.70 1.00365 0.00076	10.30 0.97070 0.00092	9.50 0.97605 0.00089
11.80 1.00735 0.00084	10.35 0.97162 0.00084	9.55 0.98052 0.00091
11.90 1.01168 0.00079	10.40 0.97434 0.00085	9.60 0.98252 0.00091
12.00 1.01633 0.00089	10.45 0.97692 0.00085	9.65 0.98576 0.00094
	10.50 0.97892 0.00088	9.70 0.98790 0.00093
	10.55 0.98442 0.00087	9.75 0.99255 0.00094
	10.60 0.98581 0.00086	9.80 0.99512 0.00088
	10.65 0.98899 0.00094	9.85 0.99881 0.00093
	10.70 0.99152 0.00084	9.90 1.00272 0.00092
	10.75 0.99490 0.00090	9.95 1.00558 0.00091
	10.80 0.99570 0.00091	10.00 1.00892 0.00093
	10.85 0.99876 0.00093	10.05 1.01378 0.00085
	10.90 1.00176 0.00087	10.10 1.01527 0.00088
	10.95 1.00535 0.00089	10.15 1.01777 0.00094
	11.00 1.00987 0.00093	10.20 1.02190 0.00093
	11.05 1.01252 0.00089	
	11.10 1.01427 0.00086	
	11.15 1.01576 0.00084	
	11.20 1.01790 0.00086	

60	70	80
8.20 0.91879 0.00096	7.90 0.92164 0.00103	7.70 0.92779 0.00098
8.25 0.92425 0.00097	7.95 0.92744 0.00096	7.75 0.92973 0.00107
8.30 0.92722 0.00094	8.00 0.93038 0.00105	7.80 0.93717 0.00103
8.35 0.92952 0.00098	8.05 0.93541 0.00099	7.85 0.94052 0.00108
8.40 0.93760 0.00100	8.10 0.93971 0.00097	7.90 0.94330 0.00095
8.45 0.94037 0.00098	8.15 0.94525 0.00103	7.95 0.95147 0.00105
8.50 0.94301 0.00096	8.20 0.94992 0.00094	8.00 0.95416 0.00102
8.55 0.94668 0.00102	8.25 0.95188 0.00101	8.05 0.95902 0.00103
8.60 0.95209 0.00097	8.30 0.95800 0.00098	8.10 0.96121 0.00101
8.65 0.95683 0.00098	8.35 0.96038 0.00101	8.15 0.96653 0.00107
8.70 0.95967 0.00095	8.40 0.96489 0.00103	8.20 0.97228 0.00105
8.75 0.96567 0.00094	8.45 0.96881 0.00102	8.25 0.97505 0.00099
8.80 0.96768 0.00103	8.50 0.97396 0.00105	8.30 0.98007 0.00100
8.85 0.97043 0.00096	8.55 0.97875 0.00095	8.35 0.98220 0.00097
8.90 0.97277 0.00093	8.60 0.98102 0.00093	8.40 0.98927 0.00095
8.95 0.97706 0.00099	8.65 0.98429 0.00107	8.45 0.99404 0.00104
9.00 0.98117 0.00095	8.70 0.98831 0.00108	8.50 0.99720 0.00109
9.05 0.98594 0.00098	8.75 0.99128 0.00099	8.55 0.99952 0.00101
9.10 0.99048 0.00098	8.80 0.99626 0.00091	8.60 1.00598 0.00104
9.15 0.99300 0.00098	8.85 1.00250 0.00103	8.65 1.00885 0.00103
9.20 0.99607 0.00102	8.90 1.00511 0.00101	8.70 1.01340 0.00099
9.25 1.00128 0.00099	8.95 1.00906 0.00103	8.75 1.01665 0.00108
9.30 1.00350 0.00094	9.00 1.01203 0.00098	8.80 1.02335 0.00103
9.35 1.00771 0.00102	9.05 1.01426 0.00091	
9.40 1.01139 0.00096	9.10 1.02010 0.00103	
9.45 1.01372 0.00093		
9.50 1.01769 0.00093		
9.55 1.02152 0.00093		
9.60 1.02488 0.00089		

90	100	118
7.50 0.92503 0.00104	7.30 0.92102 0.00108	7.10 0.92160 0.00104
7.55 0.93063 0.00099	7.35 0.92662 0.00100	7.15 0.92596 0.00103
7.60 0.93702 0.00100	7.40 0.93113 0.00106	7.20 0.93106 0.00108
7.65 0.94134 0.00103	7.45 0.93583 0.00107	7.25 0.93606 0.00104
7.70 0.94464 0.00102	7.50 0.94080 0.00104	7.30 0.93948 0.00108
7.75 0.94819 0.00103	7.55 0.94465 0.00101	7.35 0.94474 0.00109
7.80 0.95362 0.00103	7.60 0.95048 0.00105	7.40 0.95036 0.00102
7.85 0.95812 0.00104	7.65 0.95443 0.00105	7.45 0.95620 0.00107
7.90 0.96330 0.00098	7.70 0.95933 0.00104	7.50 0.96032 0.00105
7.95 0.96652 0.00104	7.75 0.96171 0.00103	7.55 0.96371 0.00109
8.00 0.97014 0.00102	7.80 0.96908 0.00110	7.60 0.97029 0.00103
8.05 0.97714 0.00102	7.85 0.97305 0.00103	7.65 0.97269 0.00109
8.10 0.98311 0.00105	7.90 0.97998 0.00108	7.70 0.98054 0.00104
8.15 0.98623 0.00103	7.95 0.98217 0.00108	7.75 0.98631 0.00111
8.20 0.99105 0.00103	8.00 0.98920 0.00100	7.80 0.99146 0.00102
8.25 0.99334 0.00110	8.05 0.99251 0.00105	7.85 0.99463 0.00108

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8.30 0.99966 0.00101	8.10 0.99690 0.00109	7.90 0.99844 0.00106
8.35 1.00356 0.00104	8.15 1.00084 0.00105	7.95 1.00418 0.00109
8.40 1.00777 0.00105	8.20 1.00458 0.00107	8.00 1.00736 0.00108
8.45 1.01003 0.00099	8.25 1.01090 0.00104	8.05 1.01308 0.00104
8.50 1.01573 0.00101	8.30 1.01584 0.00106	8.10 1.01656 0.00107
8.55 1.02061 0.00107	8.35 1.01657 0.00109	8.15 1.02224 0.00108
8.60 1.02376 0.00103	8.40 1.02155 0.00099	8.20 1.02725 0.00104

130	150	200
7.00 0.91917 0.00105	6.90 0.92269 0.00109	6.70 0.92118 0.00115
7.05 0.92710 0.00105	6.95 0.92729 0.00104	6.75 0.92620 0.00110
7.10 0.92730 0.00109	7.00 0.93303 0.00107	6.80 0.93062 0.00110
7.15 0.93489 0.00099	7.05 0.93964 0.00105	6.85 0.93502 0.00106
7.20 0.94092 0.00112	7.10 0.94314 0.00115	6.95 0.94604 0.00115
7.25 0.94718 0.00102	7.15 0.94965 0.00108	7.00 0.95385 0.00105
7.30 0.95334 0.00110	7.20 0.95411 0.00111	7.05 0.95857 0.00109
7.35 0.95658 0.00114	7.25 0.95847 0.00106	7.10 0.96279 0.00109
7.40 0.96207 0.00105	7.30 0.96269 0.00105	7.15 0.96870 0.00111
7.45 0.96584 0.00109	7.35 0.96891 0.00105	7.20 0.97448 0.00107
7.50 0.97232 0.00109	7.40 0.97588 0.00106	7.25 0.97851 0.00106
7.55 0.97764 0.00107	7.45 0.97858 0.00116	7.30 0.98366 0.00110
7.60 0.98227 0.00109	7.50 0.98371 0.00105	7.35 0.99022 0.00112
7.65 0.98527 0.00109	7.55 0.98932 0.00111	7.40 0.99393 0.00099
7.70 0.99079 0.00111	7.60 0.99224 0.00110	7.45 0.99944 0.00113
7.75 0.99352 0.00117	7.65 0.99939 0.00106	7.50 1.00302 0.00118
7.80 0.99990 0.00105	7.70 1.00534 0.00112	7.55 1.00893 0.00110
7.85 1.00728 0.00103	7.75 1.00559 0.00113	7.60 1.01534 0.00112
7.90 1.00967 0.00109	7.80 1.01304 0.00106	7.65 1.01853 0.00115
7.95 1.01683 0.00108	7.85 1.01900 0.00109	7.70 1.02504 0.00114
8.00 1.01904 0.00110	7.90 1.02403 0.00113	

235	250	353
6.60 0.91711 0.00112	6.60 0.91833 0.00114	6.60 0.92306 0.00108
6.65 0.92269 0.00113	6.65 0.92321 0.00114	6.65 0.92728 0.00112
6.70 0.92745 0.00110	6.70 0.92984 0.00117	6.70 0.93128 0.00114
6.75 0.93231 0.00115	6.75 0.93294 0.00110	6.75 0.93807 0.00111
6.80 0.93971 0.00115	6.80 0.93935 0.00107	6.80 0.94611 0.00112
6.85 0.94555 0.00107	6.85 0.94559 0.00109	6.85 0.94926 0.00110
6.90 0.95122 0.00105	6.90 0.95085 0.00114	6.90 0.95426 0.00104
6.95 0.95516 0.00105	6.95 0.95654 0.00108	6.95 0.96061 0.00116
7.00 0.96051 0.00112	7.00 0.96359 0.00113	7.00 0.96805 0.00114
7.05 0.96335 0.00107	7.05 0.96779 0.00105	7.05 0.97187 0.00110
7.10 0.97078 0.00111	7.10 0.97441 0.00108	7.10 0.97690 0.00114
7.15 0.97721 0.00112	7.15 0.97654 0.00117	7.15 0.98145 0.00113
7.20 0.98272 0.00107	7.20 0.98335 0.00115	7.20 0.98665 0.00113
7.25 0.98497 0.00119	7.25 0.98714 0.00115	7.25 0.99133 0.00119
7.30 0.99292 0.00113	7.30 0.99283 0.00116	7.30 0.99845 0.00111

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7.35 0.99595 0.00109	7.35 0.99733 0.00116	7.35 1.00209 0.00105
7.40 1.00128 0.00113	7.40 1.00252 0.00107	7.40 1.00790 0.00109
7.45 1.00914 0.00110	7.45 1.00959 0.00109	7.45 1.01086 0.00116
7.50 1.01140 0.00105	7.50 1.01342 0.00118	7.50 1.01881 0.00111
7.55 1.01608 0.00107	7.55 1.01656 0.00116	7.55 1.01990 0.00115
7.60 1.02221 0.00114	7.60 1.02242 0.00110	7.60 1.02571 0.00117

470	500	600
6.60 0.91529 0.00110	6.60 0.91430 0.00109	6.70 0.91396 0.00109
6.65 0.92312 0.00110	6.65 0.91828 0.00107	6.75 0.92204 0.00108
6.70 0.92833 0.00118	6.70 0.92498 0.00113	6.80 0.92679 0.00110
6.75 0.93361 0.00106	6.75 0.92931 0.00109	6.85 0.93071 0.00107
6.80 0.93758 0.00110	6.80 0.93613 0.00108	6.90 0.93555 0.00117
6.85 0.94578 0.00116	6.85 0.94152 0.00111	6.95 0.94059 0.00117
6.90 0.94805 0.00112	6.90 0.94606 0.00112	7.00 0.94683 0.00113
6.95 0.95242 0.00111	6.95 0.95057 0.00118	7.05 0.95196 0.00110
7.00 0.96061 0.00110	7.00 0.95728 0.00102	7.10 0.95628 0.00110
7.05 0.96519 0.00117	7.05 0.96116 0.00112	7.15 0.96012 0.00108
7.10 0.96862 0.00108	7.10 0.96544 0.00112	7.20 0.96578 0.00109
7.15 0.97577 0.00117	7.15 0.97127 0.00109	7.25 0.97156 0.00110
7.20 0.97973 0.00106	7.20 0.97719 0.00109	7.30 0.97667 0.00109
7.25 0.98419 0.00109	7.25 0.98194 0.00108	7.35 0.98094 0.00111
7.30 0.99150 0.00111	7.30 0.98754 0.00119	7.40 0.98760 0.00107
7.35 0.99445 0.00106	7.35 0.99236 0.00112	7.45 0.99005 0.00115
7.40 0.99999 0.00110	7.40 0.99596 0.00113	7.50 0.99445 0.00113
7.45 1.00385 0.00106	7.45 1.00342 0.00109	7.55 1.00091 0.00114
7.50 1.01134 0.00105	7.50 1.00698 0.00113	7.60 1.00438 0.00109
7.55 1.01573 0.00118	7.55 1.01084 0.00113	7.65 1.01016 0.00116
7.60 1.02068 0.00115	7.60 1.01625 0.00113	7.70 1.01350 0.00113
7.65 1.02377 0.00110	7.65 1.02193 0.00112	7.75 1.01868 0.00109
7.70 1.02952 0.00119	7.70 1.02569 0.00111	7.80 1.02185 0.00113

605	610	615
6.70 0.91391 0.00113	6.70 0.91455 0.00107	6.80 0.92406 0.00109
6.75 0.91991 0.00113	6.75 0.91947 0.00112	6.85 0.92985 0.00116
6.80 0.92383 0.00110	6.80 0.92556 0.00119	6.90 0.93315 0.00118
6.85 0.93015 0.00117	6.85 0.93188 0.00114	6.95 0.93768 0.00108
6.90 0.93544 0.00106	6.90 0.93491 0.00108	7.00 0.94318 0.00110
6.95 0.94136 0.00111	6.95 0.93940 0.00113	7.05 0.94919 0.00110
7.00 0.94601 0.00105	7.00 0.94462 0.00113	7.10 0.95373 0.00112
7.05 0.95137 0.00110	7.05 0.94963 0.00108	7.15 0.95812 0.00112
7.10 0.95648 0.00105	7.10 0.95637 0.00109	7.20 0.96423 0.00114
7.15 0.95904 0.00116	7.15 0.96023 0.00112	7.25 0.96944 0.00110
7.20 0.96515 0.00113	7.20 0.96648 0.00107	7.30 0.97428 0.00114
7.25 0.97038 0.00110	7.25 0.96944 0.00110	7.35 0.97842 0.00118
7.30 0.97663 0.00114	7.30 0.97543 0.00113	7.40 0.98416 0.00110
7.35 0.98182 0.00112	7.35 0.98111 0.00108	7.45 0.98898 0.00115

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7.40 0.98328 0.00111	7.40 0.98660 0.00112	7.50 0.99278 0.00111
7.45 0.98888 0.00111	7.45 0.99202 0.00111	7.55 0.99668 0.00112
7.50 0.99459 0.00116	7.50 0.99562 0.00113	7.60 1.00236 0.00113
7.55 1.00026 0.00118	7.55 0.99714 0.00117	7.65 1.00548 0.00111
7.60 1.00499 0.00121	7.60 1.00461 0.00103	7.70 1.01130 0.00113
7.65 1.00827 0.00116	7.65 1.01138 0.00115	7.75 1.01592 0.00107
7.70 1.01369 0.00115	7.70 1.01244 0.00111	7.80 1.02213 0.00119
7.75 1.01836 0.00108	7.75 1.01682 0.00114	
7.80 1.02291 0.00116	7.80 1.01908 0.00115	

620	625	629
6.80 0.92303 0.00114	6.80 0.92331 0.00110	6.80 0.92147 0.00116
6.85 0.92681 0.00109	6.85 0.92767 0.00107	6.85 0.92579 0.00113
6.90 0.93371 0.00110	6.90 0.93391 0.00118	6.90 0.93221 0.00116
6.95 0.93829 0.00109	6.95 0.93869 0.00108	6.95 0.93840 0.00111
7.00 0.94344 0.00114	7.00 0.94355 0.00113	7.00 0.94120 0.00111
7.05 0.94823 0.00108	7.05 0.94691 0.00112	7.05 0.94669 0.00112
7.10 0.95472 0.00110	7.10 0.95399 0.00107	7.10 0.95382 0.00119
7.15 0.95839 0.00114	7.15 0.95986 0.00115	7.15 0.95703 0.00109
7.20 0.96522 0.00110	7.20 0.96198 0.00109	7.20 0.96264 0.00115
7.25 0.96779 0.00119	7.25 0.96937 0.00106	7.25 0.96620 0.00118
7.30 0.97648 0.00116	7.30 0.97384 0.00113	7.30 0.97221 0.00113
7.35 0.97881 0.00104	7.35 0.97858 0.00117	7.35 0.97512 0.00116
7.40 0.98480 0.00110	7.40 0.98382 0.00110	7.40 0.98265 0.00113
7.45 0.98747 0.00113	7.45 0.98822 0.00108	7.45 0.98529 0.00108
7.50 0.99338 0.00107	7.50 0.99253 0.00114	7.50 0.99282 0.00105
7.55 0.99634 0.00108	7.55 0.99634 0.00102	7.55 0.99573 0.00112
7.60 1.00255 0.00114	7.60 1.00227 0.00112	7.60 1.00190 0.00115
7.65 1.00583 0.00115	7.65 1.00630 0.00112	7.65 1.00449 0.00113
7.70 1.01082 0.00113	7.70 1.01185 0.00114	7.70 1.00942 0.00119
7.75 1.01524 0.00114	7.75 1.01640 0.00108	7.75 1.01588 0.00107
7.80 1.01856 0.00116	7.80 1.02149 0.00113	7.80 1.02199 0.00115
		7.85 1.02566 0.00112
		7.90 1.02841 0.00111

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12	15	20
31.70 0.88357 0.00017	21.80 0.92634 0.00022	14.30 0.93037 0.00027
32.90 0.88876 0.00017	22.50 0.93301 0.00022	14.50 0.93553 0.00028
34.10 0.89227 0.00016	23.20 0.93910 0.00021	14.70 0.94073 0.00027
35.30 0.89581 0.00016	23.90 0.94467 0.00021	14.90 0.94484 0.00027
36.50 0.89880 0.00016	24.60 0.95033 0.00020	15.10 0.94982 0.00028
37.70 0.90236 0.00016	25.30 0.95561 0.00021	15.30 0.95408 0.00028
38.90 0.90542 0.00015	26.00 0.96067 0.00020	15.50 0.95830 0.00026
40.10 0.90765 0.00016	26.70 0.96462 0.00020	15.70 0.96295 0.00026
41.30 0.91044 0.00015	27.40 0.96912 0.00019	15.90 0.96677 0.00027
42.50 0.91248 0.00015	28.10 0.97283 0.00019	16.10 0.97113 0.00027
43.70 0.91477 0.00014	28.80 0.97637 0.00019	16.30 0.97449 0.00027
44.90 0.91663 0.00014	29.50 0.98073 0.00019	16.50 0.97875 0.00027
46.10 0.91867 0.00015	30.20 0.98389 0.00019	16.70 0.98258 0.00026
47.30 0.92022 0.00014	30.90 0.98676 0.00019	16.90 0.98588 0.00025
48.50 0.92176 0.00014	31.60 0.98981 0.00018	17.10 0.98973 0.00026
49.70 0.92370 0.00014	32.30 0.99308 0.00018	17.30 0.99287 0.00026
50.90 0.92446 0.00014	33.00 0.99550 0.00019	17.50 0.99653 0.00026
52.10 0.92606 0.00014	33.70 0.99760 0.00018	17.70 1.00011 0.00026
53.30 0.92705 0.00014	34.40 1.00074 0.00017	17.90 1.00352 0.00026
54.50 0.92892 0.00014	35.10 1.00272 0.00018	18.10 1.00605 0.00026
55.70 0.93029 0.00013	35.80 1.00501 0.00017	18.30 1.00965 0.00025
56.90 0.93062 0.00013	36.50 1.00767 0.00017	18.50 1.01305 0.00025
57.10 0.93099 0.00013	36.70 1.00798 0.00018	18.60 1.01377 0.00026

25	30	32
11.30 0.92106 0.00032	9.90 0.92130 0.00034	9.60 0.92685 0.00034
11.40 0.92522 0.00031	10.00 0.92602 0.00035	9.70 0.93134 0.00035
11.50 0.92969 0.00031	10.20 0.93546 0.00034	9.80 0.93690 0.00033
11.60 0.93206 0.00032	10.30 0.94077 0.00033	9.90 0.94187 0.00035
11.70 0.93655 0.00031	10.40 0.94544 0.00033	10.00 0.94709 0.00034
11.80 0.94010 0.00032	10.50 0.94942 0.00033	10.10 0.95202 0.00034
11.90 0.94309 0.00031	10.60 0.95465 0.00034	10.20 0.95715 0.00033
12.00 0.94785 0.00032	10.70 0.95860 0.00034	10.30 0.96140 0.00035
12.10 0.95137 0.00030	10.80 0.96299 0.00033	10.40 0.96674 0.00034
12.20 0.95418 0.00031	10.90 0.96743 0.00035	10.50 0.97093 0.00034
12.30 0.95818 0.00031	11.00 0.97208 0.00033	10.60 0.97569 0.00034
12.40 0.96151 0.00031	11.10 0.97582 0.00034	10.70 0.98001 0.00034
12.50 0.96481 0.00032	11.20 0.97944 0.00034	10.80 0.98441 0.00035
12.60 0.96790 0.00032	11.30 0.98433 0.00032	10.90 0.98938 0.00034
12.70 0.97096 0.00032	11.40 0.98851 0.00033	11.00 0.99282 0.00035
12.80 0.97407 0.00030	11.50 0.99209 0.00033	11.10 0.99838 0.00035
12.90 0.97806 0.00030	11.60 0.99599 0.00034	11.20 1.00209 0.00034
13.00 0.98094 0.00031	11.70 1.00032 0.00034	11.30 1.00607 0.00034
13.10 0.98425 0.00030	11.80 1.00446 0.00033	11.40 1.00980 0.00035
13.20 0.98698 0.00030	11.90 1.00801 0.00031	11.50 1.01471 0.00035
13.30 0.99046 0.00031	12.00 1.01175 0.00033	11.60 1.01907 0.00034
13.40 0.99333 0.00030	12.10 1.01590 0.00033	

13.50 0.99607 0.00031
 13.60 0.99850 0.00031
 13.70 1.00219 0.00031
 13.80 1.00496 0.00030
 13.90 1.00758 0.00030
 14.00 1.01033 0.00030

35	40	50
9.00 0.92020 0.00035	8.40 0.92057 0.00037	7.60 0.92143 0.00040
9.10 0.92611 0.00035	8.45 0.92354 0.00038	7.65 0.92505 0.00038
9.20 0.93141 0.00036	8.50 0.92797 0.00037	7.70 0.93000 0.00039
9.30 0.93687 0.00037	8.55 0.93015 0.00037	7.75 0.93330 0.00040
9.40 0.94248 0.00036	8.60 0.93428 0.00037	7.80 0.93608 0.00040
9.50 0.94826 0.00035	8.65 0.93753 0.00038	7.85 0.94043 0.00039
9.60 0.95441 0.00036	8.70 0.94079 0.00036	7.90 0.94409 0.00039
9.70 0.95963 0.00036	8.75 0.94342 0.00037	7.95 0.94828 0.00039
9.80 0.96432 0.00035	8.80 0.94645 0.00037	8.00 0.95075 0.00039
9.90 0.96997 0.00036	8.85 0.94970 0.00036	8.05 0.95515 0.00040
10.00 0.97494 0.00036	8.90 0.95289 0.00037	8.10 0.95868 0.00039
10.10 0.98074 0.00036	8.95 0.95609 0.00037	8.15 0.96198 0.00039
10.20 0.98459 0.00035	9.00 0.95926 0.00037	8.20 0.96558 0.00038
10.30 0.98991 0.00034	9.05 0.96293 0.00037	8.25 0.96987 0.00039
10.40 0.99479 0.00035	9.10 0.96444 0.00037	8.30 0.97278 0.00040
10.50 0.99877 0.00035	9.15 0.96843 0.00037	8.35 0.97706 0.00040
10.60 1.00394 0.00035	9.20 0.97025 0.00037	8.40 0.97967 0.00040
10.70 1.00933 0.00036	9.25 0.97442 0.00037	8.45 0.98392 0.00039
10.80 1.01393 0.00035	9.30 0.97647 0.00038	8.50 0.98601 0.00040
10.90 1.01803 0.00035	9.35 0.97967 0.00037	8.55 0.99041 0.00039
	9.40 0.98294 0.00037	8.60 0.99305 0.00040
	9.45 0.98571 0.00036	8.65 0.99667 0.00038
	9.50 0.98786 0.00037	8.70 1.00032 0.00040
	9.55 0.99126 0.00037	8.75 1.00289 0.00039
	9.60 0.99306 0.00037	8.80 1.00622 0.00039
	9.65 0.99673 0.00038	8.85 1.00868 0.00040
	9.70 0.99971 0.00037	8.90 1.01301 0.00039
	9.75 1.00158 0.00037	8.95 1.01608 0.00039
	9.80 1.00460 0.00037	9.00 1.01950 0.00040
	9.85 1.00709 0.00037	
	9.90 1.00966 0.00036	
	9.95 1.01218 0.00036	
	10.00 1.01540 0.00037	
	10.05 1.01766 0.00037	
	10.10 1.02090 0.00037	

60	70	80
7.10 0.92151 0.00040	6.70 0.91854 0.00042	6.40 0.91438 0.00043
7.15 0.92737 0.00041	6.75 0.92273 0.00042	6.45 0.92024 0.00041
7.20 0.93032 0.00042	6.80 0.92701 0.00042	6.50 0.92533 0.00042
7.25 0.93553 0.00042	6.85 0.93209 0.00042	6.55 0.92866 0.00042
7.30 0.93976 0.00040	6.90 0.93670 0.00042	6.60 0.93394 0.00044
7.35 0.94362 0.00040	6.95 0.94053 0.00043	6.65 0.93804 0.00042
7.40 0.94695 0.00040	7.00 0.94509 0.00043	6.70 0.94287 0.00043
7.45 0.95214 0.00040	7.05 0.94950 0.00042	6.75 0.94796 0.00043
7.50 0.95560 0.00042	7.10 0.95372 0.00042	6.80 0.95250 0.00043
7.55 0.96019 0.00043	7.15 0.95722 0.00042	6.85 0.95755 0.00043
7.60 0.96325 0.00041	7.20 0.96250 0.00042	6.90 0.96154 0.00042
7.65 0.96793 0.00040	7.25 0.96641 0.00042	6.95 0.96620 0.00042
7.70 0.97124 0.00040	7.30 0.97142 0.00042	7.00 0.96955 0.00044
7.75 0.97636 0.00040	7.35 0.97642 0.00042	7.05 0.97536 0.00044
7.80 0.97912 0.00041	7.40 0.97932 0.00043	7.10 0.97929 0.00042
7.85 0.98219 0.00041	7.45 0.98288 0.00042	7.15 0.98381 0.00044
7.90 0.98708 0.00041	7.50 0.98728 0.00041	7.20 0.98821 0.00043
7.95 0.99034 0.00040	7.55 0.99156 0.00042	7.25 0.99271 0.00042
8.00 0.99466 0.00040	7.60 0.99539 0.00044	7.30 0.99736 0.00043
8.05 0.99800 0.00041	7.65 0.99969 0.00043	7.35 1.00124 0.00045
8.10 1.00228 0.00042	7.70 1.00400 0.00043	7.40 1.00576 0.00042
8.15 1.00568 0.00041	7.75 1.00747 0.00042	7.45 1.00959 0.00043
8.20 1.00934 0.00041	7.80 1.01142 0.00041	7.50 1.01277 0.00044
8.25 1.01262 0.00041	7.85 1.01592 0.00042	7.55 1.01809 0.00042
8.30 1.01615 0.00042	7.90 1.01982 0.00042	7.60 1.02154 0.00043
8.35 1.01958 0.00040		
8.40 1.02358 0.00041		

90	100	118
6.20 0.91386 0.00043	6.10 0.92068 0.00045	5.90 0.92155 0.00046
6.25 0.91920 0.00044	6.15 0.92566 0.00044	5.95 0.92687 0.00045
6.30 0.92429 0.00044	6.20 0.93100 0.00044	6.00 0.93258 0.00044
6.35 0.92973 0.00042	6.25 0.93546 0.00044	6.05 0.93815 0.00045
6.40 0.93439 0.00045	6.30 0.94071 0.00044	6.10 0.94296 0.00045
6.45 0.93866 0.00044	6.35 0.94609 0.00044	6.15 0.94764 0.00046
6.50 0.94461 0.00044	6.40 0.95000 0.00044	6.20 0.95354 0.00045
6.55 0.94856 0.00044	6.45 0.95527 0.00043	6.25 0.95730 0.00044
6.60 0.95417 0.00043	6.50 0.96045 0.00045	6.30 0.96351 0.00046
6.65 0.95906 0.00042	6.55 0.96469 0.00044	6.35 0.96960 0.00045
6.70 0.96279 0.00042	6.60 0.97047 0.00045	6.40 0.97308 0.00045
6.75 0.96708 0.00042	6.65 0.97382 0.00044	6.45 0.97810 0.00045
6.80 0.97276 0.00044	6.70 0.98038 0.00044	6.50 0.98312 0.00046
6.85 0.97709 0.00042	6.75 0.98413 0.00045	6.55 0.98800 0.00045
6.90 0.98126 0.00043	6.80 0.98962 0.00046	6.60 0.99382 0.00043
6.95 0.98652 0.00044	6.85 0.99262 0.00044	6.65 0.99815 0.00046
7.00 0.99120 0.00044	6.90 0.99779 0.00044	6.70 1.00270 0.00045
7.05 0.99592 0.00044	6.95 1.00177 0.00043	6.75 1.00714 0.00046
7.10 0.99910 0.00045	7.00 1.00666 0.00044	6.80 1.01155 0.00046

7.15 1.00386 0.00043	7.05 1.01271 0.00046	6.85 1.01750 0.00044
7.20 1.00838 0.00043	7.10 1.01688 0.00045	6.90 1.02123 0.00044
7.25 1.01290 0.00044	7.15 1.02090 0.00045	
7.30 1.01702 0.00044	7.20 1.02491 0.00044	
7.35 1.02120 0.00044		
7.40 1.02592 0.00044		

130	150	200
5.70 0.91195 0.00046	5.60 0.91593 0.00046	5.40 0.91880 0.00048
5.75 0.91749 0.00045	5.65 0.92108 0.00046	5.45 0.92435 0.00046
5.80 0.92265 0.00045	5.70 0.92729 0.00045	5.50 0.93010 0.00047
5.85 0.92855 0.00045	5.75 0.93283 0.00046	5.55 0.93597 0.00046
5.90 0.93403 0.00045	5.80 0.93827 0.00046	5.60 0.94144 0.00046
5.95 0.93920 0.00045	5.85 0.94316 0.00046	5.65 0.94678 0.00047
6.00 0.94455 0.00045	5.90 0.94880 0.00046	5.70 0.95267 0.00046
6.05 0.94970 0.00045	5.95 0.95392 0.00046	5.75 0.95745 0.00047
6.10 0.95483 0.00046	6.00 0.95973 0.00046	5.80 0.96317 0.00047
6.15 0.95948 0.00045	6.05 0.96542 0.00046	5.85 0.96876 0.00048
6.20 0.96564 0.00045	6.10 0.97046 0.00046	5.90 0.97434 0.00049
6.25 0.97000 0.00044	6.15 0.97514 0.00046	5.95 0.97995 0.00047
6.30 0.97515 0.00045	6.20 0.98028 0.00046	6.00 0.98518 0.00047
6.35 0.98004 0.00046	6.25 0.98646 0.00046	6.05 0.98921 0.00044
6.40 0.98554 0.00046	6.30 0.99058 0.00045	6.10 0.99564 0.00046
6.45 0.99097 0.00045	6.35 0.99578 0.00045	6.15 1.00095 0.00047
6.50 0.99623 0.00045	6.40 1.00103 0.00047	6.20 1.00608 0.00049
6.55 1.00133 0.00045	6.45 1.00608 0.00046	6.25 1.01046 0.00047
6.60 1.00604 0.00045	6.50 1.01039 0.00045	6.30 1.01638 0.00048
6.65 1.01044 0.00045	6.55 1.01547 0.00047	6.35 1.02070 0.00048
6.70 1.01420 0.00046	6.60 1.01955 0.00047	6.40 1.02607 0.00048
6.75 1.01972 0.00046		
6.80 1.02480 0.00045		

235	250	353
5.30 0.91716 0.00047	5.30 0.92050 0.00047	5.20 0.92006 0.00047
5.35 0.92262 0.00047	5.35 0.92684 0.00047	5.25 0.92615 0.00047
5.40 0.92833 0.00047	5.40 0.93188 0.00048	5.30 0.93173 0.00047
5.45 0.93386 0.00047	5.45 0.93693 0.00046	5.35 0.93808 0.00047
5.50 0.93934 0.00045	5.50 0.94280 0.00047	5.40 0.94322 0.00047
5.55 0.94655 0.00047	5.55 0.94872 0.00047	5.45 0.94862 0.00046
5.60 0.95232 0.00047	5.60 0.95545 0.00048	5.50 0.95476 0.00048
5.65 0.95741 0.00047	5.65 0.96093 0.00047	5.55 0.96040 0.00048
5.70 0.96214 0.00048	5.70 0.96553 0.00047	5.60 0.96617 0.00046
5.75 0.96869 0.00049	5.75 0.97162 0.00046	5.65 0.97054 0.00047
5.80 0.97381 0.00047	5.80 0.97679 0.00046	5.70 0.97741 0.00049
5.85 0.97891 0.00047	5.85 0.98162 0.00048	5.75 0.98220 0.00048
5.90 0.98449 0.00048	5.90 0.98670 0.00048	5.85 0.99237 0.00046
5.95 0.98972 0.00047	5.95 0.99295 0.00048	5.90 0.99765 0.00048

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6.00 0.99513 0.00048	6.00 0.99758 0.00047	5.95 1.00425 0.00048
6.05 1.00004 0.00047	6.05 1.00370 0.00047	6.00 1.00820 0.00049
6.10 1.00547 0.00047	6.10 1.00815 0.00048	6.05 1.01349 0.00047
6.15 1.01054 0.00047	6.15 1.01320 0.00047	6.10 1.01789 0.00048
6.20 1.01487 0.00048	6.20 1.01970 0.00047	
6.25 1.02059 0.00047		
6.30 1.02570 0.00047		

470	500	600
5.20 0.92322 0.00047	5.20 0.92063 0.00048	5.20 0.91635 0.00047
5.25 0.92798 0.00047	5.25 0.92659 0.00046	5.25 0.92239 0.00046
5.30 0.93377 0.00048	5.30 0.93317 0.00047	5.30 0.92773 0.00047
5.35 0.93902 0.00047	5.35 0.93756 0.00048	5.35 0.93317 0.00048
5.40 0.94497 0.00046	5.40 0.94369 0.00048	5.40 0.93800 0.00047
5.45 0.95066 0.00049	5.45 0.94863 0.00049	5.45 0.94418 0.00045
5.50 0.95483 0.00047	5.50 0.95417 0.00047	5.50 0.94910 0.00048
5.55 0.96153 0.00047	5.55 0.95976 0.00047	5.55 0.95369 0.00048
5.60 0.96733 0.00047	5.60 0.96435 0.00047	5.60 0.95924 0.00047
5.65 0.97233 0.00047	5.65 0.97013 0.00047	5.65 0.96505 0.00046
5.70 0.97706 0.00047	5.70 0.97551 0.00046	5.70 0.96968 0.00047
5.75 0.98270 0.00047	5.75 0.98013 0.00048	5.75 0.97496 0.00048
5.80 0.98766 0.00047	5.80 0.98626 0.00048	5.80 0.97961 0.00047
5.85 0.99274 0.00048	5.85 0.99084 0.00047	5.85 0.98539 0.00047
5.90 0.99825 0.00049	5.90 0.99590 0.00048	5.90 0.99017 0.00047
5.95 1.00259 0.00049	5.95 1.00146 0.00048	5.95 0.99511 0.00047
6.00 1.00774 0.00047	6.00 1.00624 0.00047	6.00 0.99949 0.00048
6.05 1.01290 0.00048	6.05 1.01048 0.00049	6.05 1.00391 0.00047
6.10 1.01904 0.00049	6.10 1.01566 0.00048	6.10 1.01074 0.00046
	6.15 1.02038 0.00048	6.15 1.01508 0.00047
	6.20 1.02628 0.00048	6.20 1.01848 0.00048

605	610	615
5.20 0.91589 0.00048	5.20 0.91555 0.00047	5.20 0.91544 0.00047
5.25 0.92246 0.00048	5.25 0.92220 0.00048	5.25 0.92142 0.00046
5.30 0.92737 0.00047	5.30 0.92692 0.00047	5.30 0.92723 0.00048
5.35 0.93239 0.00047	5.35 0.93243 0.00047	5.35 0.93211 0.00047
5.40 0.93741 0.00047	5.40 0.93810 0.00046	5.40 0.93701 0.00046
5.45 0.94355 0.00048	5.45 0.94297 0.00046	5.45 0.94263 0.00047
5.50 0.94826 0.00048	5.50 0.94948 0.00047	5.50 0.94807 0.00046
5.55 0.95459 0.00048	5.55 0.95324 0.00046	5.55 0.95191 0.00048
5.60 0.95917 0.00046	5.60 0.95993 0.00047	5.60 0.95869 0.00047
5.65 0.96429 0.00047	5.65 0.96482 0.00047	5.65 0.96296 0.00047
5.70 0.97005 0.00048	5.70 0.96895 0.00047	5.70 0.96860 0.00046
5.75 0.97481 0.00048	5.75 0.97419 0.00048	5.75 0.97357 0.00047
5.80 0.97971 0.00047	5.80 0.97976 0.00049	5.80 0.97870 0.00047
5.85 0.98435 0.00048	5.85 0.98421 0.00047	5.85 0.98353 0.00047
5.90 0.98935 0.00047	5.90 0.98875 0.00048	5.90 0.98827 0.00047

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5.95 0.99493 0.00048	5.95 0.99443 0.00048	5.95 0.99372 0.00047
6.00 0.99985 0.00047	6.00 0.99882 0.00046	6.00 0.99850 0.00049
6.05 1.00430 0.00048	6.05 1.00454 0.00047	6.05 1.00304 0.00047
6.10 1.00888 0.00048	6.10 1.00899 0.00047	6.10 1.00957 0.00048
6.15 1.01313 0.00047	6.15 1.01455 0.00048	6.15 1.01281 0.00049
6.20 1.01848 0.00047	6.20 1.01843 0.00046	6.20 1.01821 0.00048

620	625	629
5.20 0.91480 0.00047	5.20 0.91405 0.00046	5.20 0.91572 0.00048
5.25 0.92053 0.00046	5.25 0.92089 0.00048	5.25 0.92048 0.00047
5.30 0.92633 0.00046	5.30 0.92563 0.00046	5.30 0.92531 0.00047
5.35 0.93219 0.00045	5.35 0.93141 0.00048	5.35 0.93106 0.00046
5.40 0.93625 0.00047	5.40 0.93560 0.00045	5.40 0.93617 0.00048
5.45 0.94215 0.00048	5.45 0.94165 0.00047	5.45 0.94116 0.00048
5.50 0.94761 0.00046	5.50 0.94709 0.00047	5.50 0.94700 0.00047
5.55 0.95287 0.00046	5.55 0.95265 0.00047	5.55 0.95259 0.00046
5.60 0.95833 0.00047	5.60 0.95732 0.00046	5.60 0.95749 0.00046
5.65 0.96231 0.00047	5.65 0.96319 0.00047	5.65 0.96306 0.00046
5.70 0.96806 0.00047	5.70 0.96767 0.00046	5.70 0.96785 0.00047
5.75 0.97382 0.00049	5.75 0.97334 0.00047	5.75 0.97175 0.00048
5.80 0.97882 0.00046	5.80 0.97818 0.00048	5.80 0.97756 0.00048
5.85 0.98352 0.00047	5.85 0.98360 0.00048	5.85 0.98180 0.00047
5.90 0.98804 0.00047	5.90 0.98883 0.00046	5.90 0.98859 0.00048
5.95 0.99373 0.00047	5.95 0.99394 0.00048	5.95 0.99358 0.00048
6.00 0.99843 0.00048	6.00 0.99749 0.00047	6.00 0.99772 0.00046
6.05 1.00389 0.00049	6.05 1.00276 0.00047	6.05 1.00312 0.00048
6.10 1.00841 0.00048	6.10 1.00785 0.00049	6.10 1.00668 0.00047
6.15 1.01307 0.00047	6.15 1.01324 0.00047	6.15 1.01124 0.00048
6.20 1.01755 0.00047	6.20 1.01782 0.00047	6.20 1.01660 0.00047
		6.25 1.02109 0.00047
		6.30 1.02494 0.00048

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12	15	20
52.10 0.87538 0.00015	29.90 0.92065 0.00021	18.80 0.92513 0.00029
52.90 0.87593 0.00015	30.30 0.92229 0.00021	19.10 0.93097 0.00028
53.70 0.87701 0.00014	30.70 0.92456 0.00021	19.40 0.93670 0.00029
54.50 0.87824 0.00014	31.10 0.92649 0.00021	19.70 0.94193 0.00028
55.30 0.87892 0.00014	31.50 0.92901 0.00020	20.00 0.94677 0.00028
56.10 0.87974 0.00014	31.90 0.93111 0.00020	20.30 0.95160 0.00028
56.90 0.88101 0.00014	32.30 0.93284 0.00020	20.60 0.95694 0.00027
57.70 0.88130 0.00014	32.70 0.93506 0.00020	20.90 0.96103 0.00027
58.50 0.88152 0.00014	33.10 0.93639 0.00020	21.20 0.96599 0.00027
59.30 0.88276 0.00014	33.50 0.93860 0.00020	21.50 0.97052 0.00028
60.10 0.88341 0.00014	33.90 0.93985 0.00020	21.80 0.97431 0.00027
60.90 0.88373 0.00014	34.30 0.94196 0.00020	22.10 0.97846 0.00027

61.70 0.88486 0.00014	34.70 0.94384 0.00019	22.40 0.98239 0.00027
62.50 0.88533 0.00014	35.10 0.94494 0.00019	22.70 0.98632 0.00028
63.30 0.88658 0.00013	35.50 0.94646 0.00019	23.00 0.99032 0.00025
64.10 0.88619 0.00014	35.90 0.94802 0.00019	23.30 0.99378 0.00026
64.90 0.88659 0.00014	36.30 0.94940 0.00019	23.60 0.99749 0.00026
65.70 0.88714 0.00014	36.70 0.95119 0.00018	23.90 1.00123 0.00026
66.50 0.88810 0.00014	37.10 0.95211 0.00019	24.20 1.00418 0.00025
67.30 0.88875 0.00013	37.50 0.95361 0.00018	24.50 1.00773 0.00025
68.10 0.88904 0.00013	37.90 0.95523 0.00019	24.80 1.01109 0.00026
68.90 0.88954 0.00014	38.00 0.95557 0.00019	25.00 1.01319 0.00025
69.50 0.89003 0.00013		

25	30	32
15.30 0.92326 0.00033	13.60 0.92349 0.00036	13.10 0.92319 0.00037
15.40 0.92661 0.00033	13.70 0.92783 0.00036	13.20 0.92719 0.00037
15.50 0.93077 0.00032	13.80 0.93199 0.00036	13.30 0.93213 0.00037
15.60 0.93295 0.00033	13.90 0.93645 0.00036	13.40 0.93648 0.00038
15.70 0.93577 0.00034	14.00 0.94100 0.00036	13.50 0.94100 0.00037
15.80 0.93919 0.00033	14.10 0.94409 0.00037	13.60 0.94508 0.00037
15.90 0.94130 0.00032	14.20 0.94867 0.00036	13.70 0.94925 0.00038
16.00 0.94575 0.00033	14.30 0.95198 0.00036	13.80 0.95290 0.00038
16.10 0.94725 0.00033	14.40 0.95551 0.00036	13.90 0.95691 0.00037
16.20 0.95063 0.00033	14.50 0.95916 0.00036	14.00 0.96109 0.00037
16.30 0.95332 0.00033	14.60 0.96333 0.00035	14.10 0.96574 0.00037
16.40 0.95606 0.00032	14.70 0.96696 0.00036	14.20 0.97016 0.00036
16.50 0.95911 0.00032	14.80 0.97096 0.00036	14.30 0.97368 0.00036
16.60 0.96253 0.00033	14.90 0.97426 0.00036	14.40 0.97804 0.00036
16.70 0.96485 0.00032	15.00 0.97903 0.00036	14.50 0.98104 0.00037
16.80 0.96713 0.00033	15.10 0.98169 0.00034	14.60 0.98505 0.00037
16.90 0.97000 0.00032	15.20 0.98494 0.00035	14.70 0.98913 0.00037
17.00 0.97257 0.00033	15.30 0.98807 0.00036	14.80 0.99213 0.00036
17.10 0.97556 0.00033	15.40 0.99100 0.00035	14.90 0.99617 0.00036
17.20 0.97782 0.00032	15.50 0.99502 0.00035	15.00 0.99938 0.00036
17.30 0.98031 0.00032	15.60 0.99769 0.00035	15.10 1.00312 0.00035
17.40 0.98278 0.00032	15.70 1.00211 0.00035	15.20 1.00717 0.00037
17.50 0.98568 0.00032	15.80 1.00395 0.00036	15.30 1.00974 0.00035
17.60 0.98666 0.00032	15.90 1.00802 0.00034	15.40 1.01408 0.00036
17.70 0.98991 0.00032	16.00 1.01064 0.00035	15.50 1.01747 0.00036
17.80 0.99248 0.00032	16.10 1.01408 0.00036	
17.90 0.99482 0.00031	16.20 1.01729 0.00035	
18.00 0.99696 0.00032		
18.10 0.99918 0.00031		
18.20 1.00129 0.00032		
18.30 1.00401 0.00032		
18.40 1.00613 0.00032		
18.50 1.00802 0.00031		
18.60 1.00981 0.00032		
18.70 1.01268 0.00031		
18.80 1.01455 0.00032		

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35	40	50
12.50 0.92110 0.00039	11.80 0.92235 0.00042	10.90 0.92248 0.00042
12.60 0.92711 0.00039	11.90 0.92801 0.00041	10.95 0.92601 0.00043
12.70 0.93205 0.00038	12.00 0.93357 0.00042	11.00 0.92933 0.00042
12.80 0.93686 0.00038	12.10 0.93878 0.00041	11.05 0.93241 0.00044
12.90 0.94078 0.00040	12.20 0.94440 0.00040	11.10 0.93632 0.00043
13.00 0.94606 0.00040	12.30 0.94977 0.00041	11.15 0.93935 0.00045
13.10 0.95088 0.00038	12.40 0.95553 0.00040	11.20 0.94335 0.00044
13.20 0.95581 0.00038	12.50 0.96042 0.00041	11.25 0.94668 0.00043
13.30 0.95910 0.00039	12.60 0.96592 0.00040	11.30 0.94976 0.00043
13.40 0.96454 0.00039	12.70 0.97171 0.00041	11.35 0.95278 0.00044
13.50 0.96878 0.00038	12.80 0.97566 0.00041	11.40 0.95585 0.00044
13.60 0.97361 0.00039	12.90 0.98143 0.00041	11.45 0.95822 0.00043
13.70 0.97828 0.00037	13.00 0.98634 0.00040	11.50 0.96210 0.00043
13.80 0.98223 0.00038	13.10 0.99077 0.00039	11.55 0.96546 0.00044
13.90 0.98582 0.00037	13.20 0.99573 0.00039	11.60 0.96829 0.00043
14.00 0.99026 0.00039	13.30 1.00031 0.00041	11.65 0.97165 0.00043
14.10 0.99476 0.00038	13.40 1.00494 0.00039	11.70 0.97465 0.00043
14.20 0.99859 0.00038	13.50 1.00988 0.00039	11.75 0.97729 0.00042
14.30 1.00318 0.00038	13.60 1.01408 0.00039	11.80 0.98052 0.00043
14.40 1.00666 0.00037	13.70 1.01910 0.00039	11.85 0.98341 0.00044
14.50 1.01012 0.00039		11.90 0.98640 0.00044
14.60 1.01407 0.00038		11.95 0.98944 0.00043
14.70 1.01854 0.00038		12.00 0.99255 0.00043
		12.05 0.99471 0.00042
		12.10 0.99809 0.00042
		12.15 1.00264 0.00043
		12.20 1.00460 0.00044
		12.25 1.00633 0.00042
		12.30 1.00915 0.00043
		12.35 1.01254 0.00042
		12.40 1.01553 0.00042
		12.45 1.01756 0.00043
		12.50 1.02031 0.00043

60	70	80
10.30 0.92055 0.00046	9.90 0.91784 0.00047	9.60 0.91468 0.00046
10.35 0.92273 0.00046	9.95 0.92252 0.00048	9.65 0.91873 0.00048
10.40 0.92722 0.00044	10.00 0.92659 0.00047	9.70 0.92374 0.00049
10.45 0.93107 0.00045	10.05 0.92983 0.00047	9.75 0.92846 0.00048
10.50 0.93501 0.00045	10.10 0.93331 0.00047	9.80 0.93330 0.00048
10.55 0.93792 0.00044	10.15 0.93732 0.00047	9.85 0.93602 0.00049
10.60 0.94153 0.00045	10.20 0.94149 0.00046	9.90 0.93987 0.00048
10.65 0.94524 0.00045	10.25 0.94724 0.00046	9.95 0.94572 0.00049
10.70 0.94938 0.00046	10.30 0.94955 0.00045	10.00 0.94916 0.00049
10.75 0.95277 0.00045	10.35 0.95385 0.00047	10.05 0.95258 0.00048

10.80 0.95603 0.00045	10.40 0.95766 0.00047	10.15 0.96202 0.00048
10.85 0.96049 0.00044	10.45 0.96195 0.00048	10.20 0.96499 0.00048
10.90 0.96336 0.00046	10.50 0.96431 0.00048	10.25 0.96986 0.00048
10.95 0.96760 0.00045	10.55 0.96861 0.00046	10.30 0.97304 0.00047
11.00 0.97095 0.00046	10.60 0.97293 0.00046	10.35 0.97704 0.00047
11.05 0.97432 0.00045	10.65 0.97567 0.00048	10.40 0.98103 0.00048
11.10 0.97745 0.00045	10.70 0.98059 0.00048	10.45 0.98474 0.00047
11.15 0.98100 0.00045	10.75 0.98431 0.00048	10.50 0.98889 0.00047
11.20 0.98432 0.00044	10.80 0.98769 0.00046	10.55 0.99261 0.00048
11.25 0.98728 0.00046	10.85 0.99147 0.00047	10.60 0.99647 0.00048
11.30 0.99084 0.00047	10.90 0.99461 0.00047	10.65 1.00026 0.00046
11.35 0.99437 0.00044	10.95 0.99830 0.00047	10.70 1.00475 0.00047
11.40 0.99724 0.00045	11.00 1.00129 0.00046	10.75 1.00821 0.00048
11.45 1.00120 0.00044	11.05 1.00575 0.00047	10.80 1.01220 0.00047
11.50 1.00323 0.00046	11.10 1.00908 0.00047	10.85 1.01562 0.00048
11.55 1.00799 0.00044	11.15 1.01167 0.00047	10.90 1.01887 0.00047
11.60 1.01074 0.00046	11.20 1.01551 0.00046	
11.65 1.01366 0.00046	11.25 1.01898 0.00046	
11.70 1.01750 0.00045	11.30 1.02282 0.00047	

90	100	118
9.40 0.91579 0.00049	9.30 0.92150 0.00050	9.10 0.92169 0.00053
9.45 0.92015 0.00048	9.35 0.92604 0.00049	9.15 0.92574 0.00050
9.50 0.92479 0.00048	9.40 0.93059 0.00049	9.20 0.93139 0.00050
9.55 0.92924 0.00047	9.45 0.93436 0.00049	9.25 0.93562 0.00050
9.60 0.93459 0.00049	9.50 0.93947 0.00050	9.30 0.94082 0.00049
9.65 0.93835 0.00050	9.55 0.94435 0.00050	9.35 0.94503 0.00052
9.70 0.94235 0.00049	9.60 0.94904 0.00049	9.40 0.94952 0.00050
9.75 0.94719 0.00049	9.65 0.95201 0.00050	9.45 0.95451 0.00051
9.80 0.95216 0.00048	9.70 0.95782 0.00050	9.50 0.95926 0.00051
9.85 0.95619 0.00049	9.75 0.96161 0.00050	9.55 0.96350 0.00050
9.90 0.95924 0.00049	9.80 0.96608 0.00050	9.60 0.96804 0.00050
9.95 0.96380 0.00050	9.85 0.97093 0.00049	9.65 0.97260 0.00049
10.00 0.96796 0.00049	9.90 0.97448 0.00051	9.70 0.97756 0.00049
10.05 0.97281 0.00049	9.95 0.97877 0.00049	9.75 0.98161 0.00049
10.10 0.97665 0.00048	10.00 0.98373 0.00049	9.80 0.98691 0.00051
10.15 0.98151 0.00049	10.05 0.98747 0.00048	9.85 0.99101 0.00050
10.20 0.98472 0.00050	10.10 0.99124 0.00051	9.90 0.99505 0.00051
10.25 0.98959 0.00048	10.15 0.99585 0.00049	9.95 0.99863 0.00051
10.30 0.99314 0.00048	10.20 1.00005 0.00049	10.00 1.00449 0.00051
10.35 0.99734 0.00048	10.25 1.00297 0.00049	10.05 1.00774 0.00051
10.40 1.00106 0.00047	10.30 1.00846 0.00049	10.10 1.01238 0.00051
10.45 1.00417 0.00048	10.35 1.01198 0.00048	10.15 1.01660 0.00050
10.50 1.00913 0.00050	10.40 1.01655 0.00050	10.20 1.02040 0.00051
10.55 1.01347 0.00050	10.45 1.01960 0.00050	
10.60 1.01620 0.00048	10.50 1.02340 0.00049	
10.65 1.02021 0.00049		
10.70 1.02352 0.00049		

130	150	200
8.90 0.91185 0.00053	8.80 0.91423 0.00051	8.70 0.92112 0.00054
8.95 0.91596 0.00050	8.85 0.91912 0.00051	8.75 0.92688 0.00052
9.00 0.92200 0.00050	8.90 0.92415 0.00050	8.80 0.93133 0.00053
9.05 0.92674 0.00051	8.95 0.92848 0.00051	8.85 0.93541 0.00054
9.10 0.93081 0.00051	9.00 0.93418 0.00052	8.90 0.94244 0.00053
9.15 0.93659 0.00053	9.05 0.93955 0.00052	8.95 0.94668 0.00053
9.20 0.94162 0.00051	9.10 0.94376 0.00051	9.00 0.95268 0.00053
9.25 0.94631 0.00050	9.15 0.94872 0.00051	9.05 0.95745 0.00052
9.30 0.95099 0.00051	9.20 0.95314 0.00052	9.10 0.96197 0.00053
9.35 0.95577 0.00052	9.25 0.95887 0.00053	9.15 0.96715 0.00053
9.40 0.96019 0.00052	9.30 0.96360 0.00052	9.20 0.97269 0.00052
9.45 0.96449 0.00051	9.35 0.96858 0.00052	9.25 0.97674 0.00053
9.50 0.96975 0.00050	9.40 0.97319 0.00053	9.30 0.98210 0.00053
9.55 0.97404 0.00053	9.45 0.97834 0.00053	9.35 0.98613 0.00052
9.60 0.97989 0.00051	9.50 0.98202 0.00053	9.40 0.99170 0.00053
9.65 0.98327 0.00051	9.55 0.98692 0.00052	9.45 0.99574 0.00053
9.70 0.98749 0.00051	9.60 0.99104 0.00052	9.50 1.00095 0.00053
9.75 0.99125 0.00051	9.65 0.99561 0.00051	9.55 1.00493 0.00053
9.80 0.99642 0.00052	9.70 1.00073 0.00051	9.60 1.01002 0.00054
9.85 1.00068 0.00051	9.75 1.00460 0.00052	9.65 1.01526 0.00053
9.90 1.00529 0.00053	9.80 1.00911 0.00052	9.70 1.01928 0.00054
9.95 1.00969 0.00051	9.85 1.01350 0.00052	9.75 1.02390 0.00053
10.00 1.01431 0.00051	9.90 1.01868 0.00053	9.80 1.02767 0.00052
10.05 1.01848 0.00050	9.95 1.02293 0.00052	
10.10 1.02212 0.00052	10.00 1.02641 0.00051	

235	250	353
8.60 0.91829 0.00053	8.60 0.91807 0.00053	8.60 0.91854 0.00054
8.65 0.92300 0.00053	8.65 0.92329 0.00053	8.65 0.92244 0.00052
8.70 0.92867 0.00054	8.70 0.92928 0.00052	8.70 0.92785 0.00053
8.75 0.93341 0.00054	8.75 0.93376 0.00051	8.75 0.93376 0.00053
8.80 0.93828 0.00053	8.80 0.93839 0.00052	8.80 0.93828 0.00053
8.85 0.94409 0.00053	8.85 0.94306 0.00054	8.85 0.94307 0.00055
8.90 0.94776 0.00053	8.90 0.95023 0.00055	8.90 0.94904 0.00053
8.95 0.95438 0.00052	8.95 0.95381 0.00052	8.95 0.95360 0.00054
9.00 0.95915 0.00052	9.00 0.95932 0.00053	9.00 0.95909 0.00053
9.05 0.96444 0.00053	9.05 0.96475 0.00054	9.05 0.96370 0.00054
9.10 0.96812 0.00054	9.10 0.96922 0.00054	9.10 0.96883 0.00053
9.15 0.97305 0.00053	9.15 0.97415 0.00053	9.15 0.97280 0.00053
9.20 0.97877 0.00055	9.20 0.97890 0.00053	9.20 0.97832 0.00054
9.25 0.98292 0.00052	9.25 0.98381 0.00053	9.25 0.98306 0.00053
9.30 0.98858 0.00052	9.30 0.98874 0.00054	9.30 0.98745 0.00053
9.35 0.99327 0.00054	9.35 0.99343 0.00052	9.35 0.99292 0.00053
9.40 0.99750 0.00054	9.40 0.99804 0.00052	9.40 0.99624 0.00052
9.45 1.00235 0.00053	9.45 1.00344 0.00054	9.45 1.00109 0.00053
9.50 1.00711 0.00052	9.50 1.00831 0.00053	9.50 1.00619 0.00053

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9.55 1.01161 0.00053	9.55 1.01150 0.00053	9.55 1.01205 0.00053
9.60 1.01645 0.00053	9.60 1.01732 0.00055	9.60 1.01576 0.00055
9.65 1.02070 0.00053	9.65 1.02095 0.00053	9.65 1.02063 0.00054
9.70 1.02513 0.00053	9.70 1.02639 0.00053	9.70 1.02424 0.00054

470	500	510
8.70 0.91541 0.00053	8.80 0.92094 0.00051	8.80 0.91913 0.00054
8.75 0.92127 0.00053	8.85 0.92488 0.00052	8.85 0.92306 0.00052
8.80 0.92635 0.00053	8.90 0.92969 0.00053	8.90 0.92834 0.00052
8.85 0.93077 0.00052	8.95 0.93463 0.00053	8.95 0.93282 0.00053
8.90 0.93648 0.00054	9.00 0.94036 0.00053	9.00 0.93903 0.00053
8.95 0.94176 0.00051	9.05 0.94456 0.00052	9.05 0.94315 0.00053
9.00 0.94539 0.00051	9.10 0.94953 0.00053	9.10 0.94836 0.00052
9.05 0.94948 0.00054	9.15 0.95521 0.00053	9.15 0.95307 0.00052
9.10 0.95531 0.00052	9.20 0.95949 0.00053	9.20 0.95760 0.00054
9.15 0.96054 0.00054	9.25 0.96417 0.00052	9.25 0.96330 0.00053
9.25 0.96950 0.00051	9.30 0.96822 0.00052	9.30 0.96762 0.00051
9.30 0.97503 0.00052	9.35 0.97370 0.00053	9.35 0.97221 0.00053
9.35 0.98003 0.00052	9.40 0.97867 0.00053	9.40 0.97617 0.00053
9.40 0.98387 0.00052	9.45 0.98346 0.00053	9.45 0.98064 0.00055
9.45 0.98907 0.00053	9.50 0.98703 0.00054	9.50 0.98552 0.00054
9.50 0.99275 0.00052	9.55 0.99274 0.00052	9.55 0.98936 0.00055
9.55 0.99866 0.00053	9.60 0.99566 0.00052	9.60 0.99517 0.00053
9.60 1.00161 0.00054	9.65 1.00072 0.00052	9.65 0.99869 0.00053
9.65 1.00712 0.00052	9.70 1.00563 0.00052	9.70 1.00405 0.00053
9.70 1.01053 0.00052	9.75 1.00974 0.00053	9.75 1.00808 0.00053
9.75 1.01530 0.00052	9.80 1.01435 0.00054	9.80 1.01278 0.00054
9.80 1.01990 0.00054	9.85 1.01849 0.00052	9.85 1.01674 0.00054
	9.90 1.02350 0.00054	9.90 1.02104 0.00053
		9.95 1.02598 0.00052
		10.00 1.02991 0.00053

520	530	540
8.80 0.91782 0.00052	8.80 0.91469 0.00052	8.80 0.91336 0.00052
8.85 0.92122 0.00052	8.85 0.92093 0.00052	8.85 0.91841 0.00052
8.90 0.92683 0.00052	8.90 0.92474 0.00053	8.90 0.92333 0.00052
8.95 0.93262 0.00052	8.95 0.93030 0.00053	8.95 0.92850 0.00051
9.00 0.93823 0.00053	9.00 0.93507 0.00053	9.00 0.93252 0.00053
9.05 0.94077 0.00053	9.05 0.94016 0.00051	9.05 0.93791 0.00052
9.10 0.94689 0.00052	9.10 0.94454 0.00053	9.10 0.94257 0.00051
9.15 0.95091 0.00052	9.15 0.94996 0.00053	9.15 0.94736 0.00052
9.20 0.95623 0.00055	9.20 0.95471 0.00051	9.20 0.95212 0.00051
9.25 0.96035 0.00052	9.25 0.95837 0.00053	9.25 0.95640 0.00052
9.30 0.96553 0.00051	9.30 0.96418 0.00053	9.30 0.96281 0.00052
9.35 0.97005 0.00052	9.35 0.96759 0.00052	9.35 0.96612 0.00052
9.40 0.97415 0.00053	9.40 0.97355 0.00053	9.40 0.97109 0.00052
9.45 0.98027 0.00051	9.45 0.97716 0.00052	9.45 0.97523 0.00054

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9.50 0.98403 0.00054	9.50 0.98210 0.00052	9.50 0.98002 0.00053
9.55 0.98840 0.00053	9.55 0.98700 0.00052	9.55 0.98554 0.00054
9.60 0.99226 0.00052	9.60 0.99147 0.00053	9.60 0.98904 0.00052
9.65 0.99696 0.00054	9.65 0.99536 0.00054	9.65 0.99317 0.00052
9.70 1.00110 0.00052	9.70 1.00028 0.00052	9.70 0.99808 0.00052
9.75 1.00684 0.00054	9.75 1.00523 0.00052	9.75 1.00220 0.00052
9.80 1.01059 0.00054	9.80 1.00882 0.00054	9.80 1.00691 0.00052
9.85 1.01473 0.00053	9.85 1.01296 0.00051	9.85 1.01009 0.00053
9.90 1.02010 0.00053	9.90 1.01648 0.00053	9.90 1.01588 0.00052
9.95 1.02331 0.00053	9.95 1.02203 0.00054	9.95 1.01962 0.00055
10.00 1.02779 0.00054	10.00 1.02670 0.00053	10.00 1.02431 0.00052

550	560
8.90 0.92057 0.00052	8.90 0.92001 0.00052
8.95 0.92627 0.00052	8.95 0.92421 0.00053
9.00 0.93171 0.00054	9.00 0.93005 0.00052
9.05 0.93650 0.00052	9.05 0.93440 0.00053
9.10 0.94112 0.00051	9.10 0.93891 0.00054
9.15 0.94580 0.00054	9.15 0.94430 0.00053
9.20 0.95008 0.00051	9.20 0.94974 0.00052
9.25 0.95524 0.00053	9.25 0.95450 0.00052
9.30 0.95997 0.00052	9.30 0.95768 0.00055
9.35 0.96409 0.00052	9.35 0.96356 0.00052
9.40 0.96882 0.00053	9.40 0.96763 0.00053
9.45 0.97277 0.00052	9.45 0.97223 0.00052
9.50 0.97868 0.00053	9.50 0.97647 0.00052
9.55 0.98343 0.00052	9.55 0.98072 0.00053
9.60 0.98731 0.00053	9.60 0.98490 0.00051
9.65 0.99268 0.00054	9.65 0.98974 0.00053
9.70 0.99601 0.00053	9.70 0.99404 0.00054
9.75 1.00077 0.00053	9.75 0.99873 0.00053
9.80 1.00523 0.00052	9.80 1.00324 0.00052
9.85 1.00989 0.00052	9.85 1.00634 0.00052
9.90 1.01474 0.00051	9.90 1.01239 0.00053
9.95 1.01849 0.00053	9.95 1.01642 0.00053
10.00 1.02218 0.00052	10.00 1.02092 0.00054

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14.90 0.95783 0.00033	13.10 0.96517 0.00035	12.60 0.96801 0.00035
15.00 0.96003 0.00032	13.20 0.96872 0.00036	12.70 0.97198 0.00035
15.10 0.96266 0.00032	13.30 0.97215 0.00034	12.80 0.97661 0.00036
15.20 0.96600 0.00032	13.40 0.97570 0.00033	12.90 0.98012 0.00036
15.30 0.96853 0.00031	13.50 0.97973 0.00034	13.00 0.98356 0.00035
15.40 0.97117 0.00031	13.60 0.98336 0.00034	13.10 0.98725 0.00036
15.50 0.97413 0.00032	13.70 0.98636 0.00034	13.20 0.99098 0.00036
15.60 0.97677 0.00031	13.80 0.99013 0.00034	13.30 0.99472 0.00036
15.70 0.97947 0.00031	13.90 0.99328 0.00035	13.40 0.99835 0.00036
15.80 0.98198 0.00031	14.00 0.99639 0.00035	13.50 1.00203 0.00035
15.90 0.98421 0.00032	14.10 0.99988 0.00034	13.60 1.00507 0.00036
16.00 0.98706 0.00031	14.20 1.00284 0.00034	13.70 1.00864 0.00035
16.10 0.98797 0.00032	14.30 1.00598 0.00034	13.80 1.01243 0.00034
16.20 0.99210 0.00031	14.40 1.00986 0.00034	13.90 1.01542 0.00035
16.30 0.99384 0.00030	14.50 1.01232 0.00034	14.00 1.01949 0.00035
16.40 0.99612 0.00030	14.60 1.01585 0.00033	
16.50 0.99787 0.00031		
16.60 1.00077 0.00030		
16.80 1.00471 0.00032		
16.90 1.00707 0.00031		
17.00 1.00921 0.00030		
17.10 1.01206 0.00030		
17.20 1.01347 0.00030		

35	40	50
10.90 0.91897 0.00038	10.30 0.92513 0.00040	9.30 0.91945 0.00043
11.00 0.92373 0.00037	10.40 0.93060 0.00039	9.35 0.92285 0.00042
11.10 0.92887 0.00039	10.50 0.93638 0.00040	9.40 0.92691 0.00043
11.20 0.93396 0.00038	10.60 0.94282 0.00040	9.45 0.93057 0.00041
11.30 0.93894 0.00037	10.70 0.94766 0.00040	9.50 0.93348 0.00042
11.40 0.94423 0.00038	10.80 0.95266 0.00039	9.55 0.93674 0.00042
11.50 0.94910 0.00037	10.90 0.95881 0.00039	9.60 0.93943 0.00041
11.60 0.95349 0.00037	11.00 0.96353 0.00039	9.65 0.94311 0.00041
11.70 0.95799 0.00036	11.10 0.96835 0.00038	9.70 0.94679 0.00042
11.80 0.96221 0.00038	11.20 0.97350 0.00039	9.75 0.94979 0.00042
11.90 0.96706 0.00037	11.30 0.97862 0.00040	9.80 0.95281 0.00041
12.00 0.97202 0.00036	11.40 0.98388 0.00039	9.85 0.95663 0.00041
12.10 0.97541 0.00037	11.50 0.98908 0.00039	9.90 0.95966 0.00043
12.20 0.97971 0.00036	11.60 0.99301 0.00039	9.95 0.96334 0.00042
12.30 0.98459 0.00037	11.70 0.99771 0.00037	10.00 0.96646 0.00042
12.40 0.98911 0.00037	11.80 1.00305 0.00039	10.05 0.96910 0.00041
12.50 0.99174 0.00036	11.90 1.00772 0.00039	10.10 0.97159 0.00042
12.60 0.99687 0.00036	12.00 1.01330 0.00039	10.15 0.97476 0.00042
12.70 1.00074 0.00037	12.10 1.01675 0.00039	10.20 0.97758 0.00041
12.80 1.00609 0.00036		10.25 0.98051 0.00041
12.90 1.00895 0.00037		10.30 0.98455 0.00041
13.00 1.01228 0.00035		10.35 0.98700 0.00041
13.10 1.01666 0.00037		10.40 0.99056 0.00042
		10.45 0.99333 0.00041

10.50 0.99568 0.00041
 10.55 0.99877 0.00042
 10.60 1.00241 0.00043
 10.65 1.00491 0.00041
 10.70 1.00777 0.00040
 10.75 1.00988 0.00041
 10.80 1.01310 0.00041
 10.85 1.01564 0.00042
 10.90 1.01885 0.00041

60	70	80
8.70 0.91731 0.00044	8.40 0.92283 0.00045	8.10 0.92133 0.00045
8.75 0.91992 0.00044	8.45 0.92634 0.00045	8.15 0.92460 0.00046
8.80 0.92475 0.00045	8.50 0.93134 0.00044	8.20 0.92948 0.00046
8.85 0.92782 0.00044	8.55 0.93512 0.00044	8.25 0.93398 0.00045
8.90 0.93183 0.00044	8.60 0.93960 0.00045	8.30 0.93807 0.00046
8.95 0.93543 0.00044	8.65 0.94332 0.00045	8.35 0.94228 0.00046
9.00 0.93857 0.00043	8.75 0.95155 0.00046	8.40 0.94658 0.00046
9.05 0.94229 0.00043	8.80 0.95587 0.00044	8.45 0.95057 0.00046
9.10 0.94584 0.00044	8.85 0.95883 0.00045	8.50 0.95440 0.00045
9.15 0.95028 0.00044	8.90 0.96210 0.00044	8.55 0.95823 0.00046
9.20 0.95370 0.00044	8.95 0.96722 0.00044	8.60 0.96222 0.00046
9.25 0.95758 0.00045	9.00 0.97078 0.00046	8.65 0.96739 0.00046
9.30 0.96121 0.00044	9.05 0.97426 0.00046	8.70 0.97174 0.00046
9.35 0.96508 0.00042	9.10 0.97676 0.00045	8.75 0.97460 0.00046
9.40 0.96836 0.00043	9.15 0.98119 0.00044	8.80 0.97862 0.00046
9.45 0.97152 0.00044	9.20 0.98571 0.00045	8.85 0.98302 0.00044
9.50 0.97487 0.00043	9.25 0.98849 0.00045	8.90 0.98622 0.00047
9.55 0.97855 0.00043	9.30 0.99201 0.00044	8.95 0.99108 0.00047
9.60 0.98178 0.00042	9.35 0.99547 0.00045	9.00 0.99481 0.00045
9.65 0.98480 0.00046	9.40 0.99924 0.00045	9.05 0.99819 0.00046
9.70 0.98945 0.00044	9.45 1.00293 0.00046	9.10 1.00265 0.00046
9.75 0.99159 0.00044	9.50 1.00754 0.00044	9.15 1.00552 0.00048
9.80 0.99524 0.00043	9.55 1.01062 0.00045	9.20 1.01017 0.00045
9.85 0.99938 0.00043	9.60 1.01360 0.00046	9.25 1.01476 0.00046
9.90 1.00167 0.00044	9.65 1.01734 0.00045	9.30 1.01652 0.00047
9.95 1.00535 0.00044	9.70 1.02074 0.00045	9.35 1.01999 0.00045
10.00 1.00816 0.00044		9.40 1.02386 0.00046
10.05 1.01093 0.00042		
10.10 1.01523 0.00045		
10.15 1.01782 0.00044		
10.20 1.02041 0.00043		

90	100	118
7.90 0.92174 0.00046	7.70 0.91820 0.00047	7.50 0.91867 0.00048
7.95 0.92630 0.00047	7.75 0.92273 0.00047	7.55 0.92366 0.00047
8.00 0.93090 0.00047	7.80 0.92739 0.00047	7.60 0.92887 0.00048

8.05 0.93603 0.00047	7.85 0.93243 0.00048	7.65 0.93293 0.00048
8.10 0.93907 0.00046	7.90 0.93682 0.00046	7.70 0.93785 0.00047
8.15 0.94395 0.00047	7.95 0.94102 0.00046	7.75 0.94276 0.00049
8.20 0.94941 0.00047	8.00 0.94553 0.00046	7.80 0.94721 0.00050
8.25 0.95295 0.00048	8.05 0.94963 0.00048	7.85 0.95183 0.00048
8.30 0.95732 0.00047	8.10 0.95564 0.00047	7.90 0.95619 0.00049
8.35 0.96169 0.00047	8.15 0.95900 0.00046	7.95 0.96268 0.00048
8.40 0.96573 0.00047	8.20 0.96433 0.00048	8.00 0.96617 0.00047
8.45 0.96963 0.00047	8.25 0.96840 0.00048	8.05 0.97103 0.00048
8.50 0.97451 0.00047	8.30 0.97206 0.00049	8.10 0.97517 0.00049
8.55 0.97818 0.00047	8.35 0.97706 0.00048	8.15 0.97944 0.00048
8.60 0.98263 0.00046	8.40 0.98033 0.00048	8.20 0.98413 0.00048
8.65 0.98574 0.00046	8.45 0.98539 0.00047	8.25 0.98861 0.00048
8.70 0.99077 0.00047	8.50 0.98948 0.00047	8.30 0.99263 0.00050
8.75 0.99534 0.00047	8.55 0.99414 0.00049	8.35 0.99817 0.00049
8.80 0.99852 0.00046	8.60 0.99815 0.00048	8.40 1.00173 0.00048
8.85 1.00198 0.00047	8.65 1.00258 0.00050	8.45 1.00608 0.00050
8.90 1.00625 0.00048	8.70 1.00636 0.00047	8.50 1.00964 0.00049
8.95 1.01004 0.00048	8.75 1.00968 0.00046	8.55 1.01426 0.00049
9.00 1.01414 0.00046	8.80 1.01430 0.00049	8.60 1.01862 0.00048
9.05 1.01764 0.00046	8.85 1.01837 0.00047	8.65 1.02195 0.00048
9.10 1.02243 0.00048	8.90 1.02190 0.00046	8.70 1.02659 0.00048

130	150	200
7.40 0.91992 0.00049	7.30 0.92243 0.00050	7.10 0.92050 0.00051
7.45 0.92425 0.00049	7.35 0.92728 0.00049	7.15 0.92605 0.00051
7.50 0.92915 0.00048	7.40 0.93353 0.00050	7.20 0.93131 0.00051
7.55 0.93423 0.00050	7.45 0.93729 0.00051	7.25 0.93673 0.00051
7.60 0.93920 0.00048	7.50 0.94354 0.00050	7.30 0.94287 0.00052
7.65 0.94428 0.00048	7.55 0.94749 0.00050	7.35 0.94596 0.00050
7.70 0.94846 0.00048	7.60 0.95225 0.00052	7.40 0.95182 0.00051
7.75 0.95367 0.00050	7.65 0.95737 0.00049	7.45 0.95647 0.00052
7.80 0.95907 0.00049	7.70 0.96193 0.00048	7.50 0.96137 0.00051
7.85 0.96277 0.00048	7.75 0.96629 0.00049	7.55 0.96637 0.00050
7.90 0.96732 0.00049	7.80 0.97152 0.00050	7.60 0.97152 0.00052
7.95 0.97161 0.00050	7.85 0.97555 0.00049	7.65 0.97635 0.00049
8.00 0.97627 0.00049	7.90 0.98098 0.00049	7.70 0.98151 0.00052
8.05 0.98102 0.00047	7.95 0.98410 0.00050	7.75 0.98576 0.00051
8.10 0.98569 0.00048	8.00 0.99037 0.00051	7.80 0.99162 0.00050
8.15 0.99063 0.00049	8.05 0.99487 0.00051	7.85 0.99520 0.00052
8.20 0.99460 0.00050	8.10 0.99949 0.00050	7.90 0.99998 0.00051
8.25 0.99964 0.00048	8.15 1.00379 0.00051	7.95 1.00491 0.00050
8.30 1.00363 0.00049	8.20 1.00753 0.00051	8.00 1.01016 0.00051
8.35 1.00798 0.00049	8.25 1.01298 0.00049	8.05 1.01421 0.00050
8.40 1.01241 0.00049	8.30 1.01675 0.00050	8.10 1.01865 0.00051
8.45 1.01703 0.00049	8.35 1.02141 0.00049	
8.50 1.02160 0.00048	8.40 1.02649 0.00050	

235	250	353
7.00 0.91721 0.00052	7.00 0.91808 0.00051	7.00 0.92018 0.00050
7.05 0.92276 0.00048	7.05 0.92273 0.00052	7.05 0.92443 0.00050
7.10 0.92776 0.00051	7.10 0.92907 0.00050	7.10 0.93055 0.00051
7.15 0.93297 0.00051	7.15 0.93393 0.00050	7.15 0.93520 0.00051
7.20 0.93750 0.00052	7.20 0.94003 0.00049	7.20 0.94170 0.00053
7.25 0.94313 0.00052	7.25 0.94362 0.00052	7.30 0.95027 0.00053
7.30 0.94860 0.00051	7.30 0.95033 0.00051	7.35 0.95566 0.00051
7.35 0.95394 0.00051	7.35 0.95439 0.00051	7.40 0.96032 0.00053
7.40 0.95861 0.00051	7.40 0.95909 0.00051	7.45 0.96495 0.00051
7.45 0.96421 0.00051	7.45 0.96463 0.00050	7.50 0.97083 0.00052
7.50 0.96792 0.00052	7.50 0.97002 0.00052	7.55 0.97603 0.00051
7.55 0.97411 0.00052	7.55 0.97446 0.00050	7.60 0.98038 0.00053
7.60 0.97878 0.00051	7.60 0.97946 0.00051	7.65 0.98400 0.00050
7.65 0.98307 0.00050	7.65 0.98458 0.00050	7.70 0.98948 0.00051
7.70 0.98773 0.00051	7.70 0.98957 0.00051	7.75 0.99401 0.00051
7.75 0.99252 0.00051	7.75 0.99445 0.00052	7.80 0.99919 0.00052
7.80 0.99673 0.00051	7.80 0.99889 0.00051	7.85 1.00444 0.00050
7.85 1.00241 0.00051	7.85 1.00268 0.00052	7.90 1.00914 0.00052
7.90 1.00696 0.00050	7.90 1.00866 0.00053	7.95 1.01259 0.00054
7.95 1.01198 0.00051	7.95 1.01262 0.00052	8.00 1.01895 0.00053
8.00 1.01682 0.00053	8.05 1.02225 0.00050	8.05 1.02186 0.00053
8.05 1.02198 0.00050	8.10 1.02673 0.00053	8.10 1.02717 0.00051
8.10 1.02476 0.00051		
470	500	510
7.10 0.91995 0.00051	7.10 0.91515 0.00050	7.10 0.91224 0.00051
7.15 0.92567 0.00051	7.15 0.92077 0.00050	7.15 0.91797 0.00050
7.20 0.92974 0.00052	7.20 0.92554 0.00052	7.20 0.92332 0.00050
7.25 0.93536 0.00052	7.25 0.93021 0.00053	7.25 0.92946 0.00052
7.30 0.94019 0.00052	7.30 0.93516 0.00051	7.30 0.93344 0.00053
7.35 0.94496 0.00050	7.35 0.93944 0.00051	7.35 0.93842 0.00051
7.40 0.95014 0.00051	7.40 0.94358 0.00051	7.40 0.94348 0.00051
7.45 0.95385 0.00051	7.45 0.94853 0.00054	7.45 0.94773 0.00051
7.50 0.95912 0.00052	7.50 0.95460 0.00051	7.50 0.95372 0.00051
7.55 0.96450 0.00053	7.55 0.95967 0.00050	7.55 0.95704 0.00052
7.60 0.96904 0.00052	7.60 0.96351 0.00052	7.60 0.96226 0.00050
7.65 0.97454 0.00050	7.65 0.96791 0.00051	7.65 0.96650 0.00052
7.70 0.97881 0.00051	7.70 0.97389 0.00051	7.70 0.97279 0.00052
7.75 0.98318 0.00052	7.75 0.97730 0.00051	7.75 0.97737 0.00051
7.80 0.98822 0.00051	7.80 0.98298 0.00051	7.80 0.98077 0.00052
7.85 0.99223 0.00051	7.85 0.98757 0.00051	7.85 0.98589 0.00051
7.90 0.99631 0.00052	7.90 0.99215 0.00051	7.90 0.99002 0.00053
7.95 1.00063 0.00053	7.95 0.99552 0.00051	7.95 0.99576 0.00052
8.00 1.00578 0.00052	8.00 1.00093 0.00054	8.00 0.99853 0.00052
8.05 1.01113 0.00051	8.05 1.00538 0.00052	8.05 1.00296 0.00051
8.10 1.01488 0.00051	8.10 1.00972 0.00052	8.10 1.00752 0.00052
8.15 1.01996 0.00053	8.15 1.01399 0.00053	8.15 1.01297 0.00049
8.20 1.02460 0.00051	8.20 1.01836 0.00051	8.20 1.01662 0.00051
		8.25 1.02120 0.00050
		8.30 1.02491 0.00051

520	530	540
7.20 0.92151 0.00051	7.20 0.92099 0.00051	7.20 0.91938 0.00050
7.25 0.92649 0.00051	7.55 0.95485 0.00051	7.25 0.92400 0.00051
7.30 0.93126 0.00051	7.60 0.95937 0.00052	7.30 0.92845 0.00051
7.35 0.93640 0.00052	7.65 0.96362 0.00051	7.35 0.93323 0.00050
7.40 0.94142 0.00051	7.70 0.96882 0.00050	7.40 0.93861 0.00050
7.45 0.94566 0.00051	7.75 0.97316 0.00051	7.45 0.94390 0.00050
7.50 0.95128 0.00052	7.80 0.97738 0.00051	7.50 0.94756 0.00052
7.55 0.95620 0.00052	7.85 0.98212 0.00049	7.55 0.95298 0.00052
7.60 0.96120 0.00049	7.90 0.98722 0.00053	7.60 0.95736 0.00052
7.65 0.96498 0.00052	7.95 0.99157 0.00051	7.65 0.96208 0.00051
7.70 0.97048 0.00053	8.00 0.99574 0.00050	7.70 0.96798 0.00050
7.75 0.97403 0.00051	8.05 1.00011 0.00050	7.75 0.97098 0.00053
7.80 0.98013 0.00051	8.10 1.00501 0.00051	7.80 0.97605 0.00051
7.85 0.98415 0.00051	8.15 1.00898 0.00051	7.85 0.98060 0.00051
7.90 0.98915 0.00050	8.20 1.01373 0.00052	7.90 0.98515 0.00051
7.95 0.99279 0.00052	8.25 1.01884 0.00050	7.95 0.98885 0.00052
8.00 0.99696 0.00051	8.30 1.02237 0.00050	8.00 0.99496 0.00052
8.05 1.00201 0.00050		8.05 0.99864 0.00053
8.10 1.00680 0.00052		8.10 1.00385 0.00052
8.15 1.01069 0.00051		8.15 1.00792 0.00051
8.20 1.01520 0.00051		8.20 1.01177 0.00051
8.25 1.01930 0.00052		8.25 1.01572 0.00052
8.30 1.02336 0.00051		8.30 1.02062 0.00051

550	560
7.20 0.91660 0.00052	7.20 0.91595 0.00051
7.25 0.92205 0.00050	7.25 0.92054 0.00052
7.30 0.92756 0.00051	7.30 0.92541 0.00051
7.35 0.93223 0.00050	7.35 0.93126 0.00051
7.40 0.93714 0.00051	7.40 0.93513 0.00052
7.45 0.94227 0.00051	7.45 0.94110 0.00049
7.50 0.94610 0.00050	7.50 0.94431 0.00051
7.55 0.95125 0.00051	7.60 0.95564 0.00053
7.60 0.95641 0.00051	7.65 0.95932 0.00051
7.65 0.95973 0.00052	7.70 0.96364 0.00051
7.70 0.96618 0.00051	7.75 0.96869 0.00050
7.75 0.97030 0.00051	7.80 0.97267 0.00052
7.80 0.97508 0.00051	7.85 0.97728 0.00050
7.85 0.97885 0.00052	7.90 0.98338 0.00051
7.90 0.98359 0.00052	8.00 0.99157 0.00051
7.95 0.98826 0.00051	8.05 0.99498 0.00052
8.00 0.99238 0.00052	8.10 1.00002 0.00052
8.05 0.99763 0.00052	8.15 1.00486 0.00050
8.10 1.00218 0.00050	8.20 1.00846 0.00052
8.15 1.00586 0.00050	8.25 1.01290 0.00053

8.20 1.00938 0.00052	8.30 1.01730 0.00051
8.25 1.01436 0.00051	8.35 1.02123 0.00050
8.30 1.01838 0.00051	8.40 1.02570 0.00051

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12	15	20
42.80 0.86561 0.00015	28.70 0.92831 0.00020	16.20 0.92674 0.00027
44.60 0.86847 0.00015	30.90 0.93893 0.00019	16.50 0.93249 0.00026
46.40 0.87143 0.00015	33.10 0.94767 0.00018	16.80 0.93734 0.00027
48.20 0.87426 0.00014	35.30 0.95548 0.00018	17.10 0.94332 0.00026
50.00 0.87633 0.00014	37.50 0.96200 0.00017	17.40 0.94823 0.00026
51.80 0.87807 0.00014	39.70 0.96726 0.00017	17.70 0.95363 0.00026
53.60 0.88004 0.00014	41.90 0.97268 0.00017	18.00 0.95776 0.00026
55.40 0.88199 0.00013	44.10 0.97632 0.00017	18.30 0.96305 0.00026
57.20 0.88337 0.00014	46.30 0.98018 0.00016	18.60 0.96749 0.00025
59.00 0.88486 0.00014	48.50 0.98351 0.00016	18.90 0.97220 0.00025
60.80 0.88576 0.00013	50.70 0.98675 0.00016	19.20 0.97611 0.00026
62.60 0.88746 0.00013	52.90 0.98919 0.00015	19.50 0.98040 0.00025
64.40 0.88811 0.00013	55.10 0.99169 0.00015	19.80 0.98347 0.00025
66.20 0.88900 0.00013	57.30 0.99363 0.00015	20.10 0.98761 0.00025
68.00 0.88993 0.00013	59.50 0.99548 0.00015	20.40 0.99145 0.00024
69.80 0.89108 0.00013	61.70 0.99748 0.00014	20.70 0.99532 0.00024
71.60 0.89161 0.00013	63.90 0.99894 0.00014	21.00 0.99879 0.00025
73.40 0.89267 0.00013	66.10 1.00027 0.00014	21.30 1.00216 0.00024
75.20 0.89371 0.00012	68.30 1.00143 0.00014	21.60 1.00584 0.00024
77.00 0.89445 0.00013	70.50 1.00317 0.00014	21.90 1.00861 0.00024
78.80 0.89489 0.00013	72.70 1.00365 0.00013	22.20 1.01236 0.00024
79.00 0.89531 0.00012	74.20 1.00471 0.00013	

25	30	32
12.60 0.92285 0.00030	10.90 0.92421 0.00034	10.40 0.92331 0.00034
12.70 0.92688 0.00031	11.00 0.92879 0.00033	10.50 0.92795 0.00034
12.80 0.93004 0.00030	11.10 0.93261 0.00034	10.60 0.93223 0.00034
12.90 0.93256 0.00031	11.20 0.93645 0.00034	10.70 0.93683 0.00035
13.00 0.93592 0.00030	11.30 0.94104 0.00034	10.80 0.94139 0.00034
13.10 0.93892 0.00030	11.40 0.94524 0.00032	10.90 0.94565 0.00033
13.20 0.94188 0.00030	11.50 0.94814 0.00033	11.00 0.95024 0.00034
13.30 0.94530 0.00032	11.60 0.95334 0.00033	11.10 0.95450 0.00034
13.40 0.94785 0.00030	11.70 0.95657 0.00032	11.20 0.95836 0.00034
13.50 0.95063 0.00029	11.80 0.96053 0.00034	11.30 0.96259 0.00034
13.60 0.95381 0.00030	11.90 0.96428 0.00033	11.40 0.96677 0.00034
13.70 0.95656 0.00030	12.00 0.96736 0.00032	11.50 0.97093 0.00034
13.80 0.95894 0.00029	12.10 0.97139 0.00033	11.60 0.97488 0.00033
13.90 0.96189 0.00030	12.20 0.97441 0.00033	11.70 0.97863 0.00034
14.00 0.96440 0.00029	12.30 0.97836 0.00033	11.80 0.98178 0.00034
14.10 0.96742 0.00030	12.40 0.98160 0.00032	11.90 0.98657 0.00032
14.20 0.97028 0.00029	12.50 0.98567 0.00033	12.00 0.99038 0.00033

14.30 0.97304 0.00029	12.60 0.98902 0.00033	12.10 0.99373 0.00034
14.40 0.97575 0.00029	12.70 0.99260 0.00032	12.20 0.99741 0.00035
14.50 0.97801 0.00030	12.80 0.99599 0.00032	12.30 1.00145 0.00033
14.60 0.98100 0.00029	12.90 0.99895 0.00032	12.40 1.00402 0.00033
14.70 0.98320 0.00029	13.00 1.00229 0.00031	12.50 1.00800 0.00033
14.80 0.98595 0.00030	13.10 1.00619 0.00032	12.60 1.01178 0.00033
14.90 0.98828 0.00029	13.20 1.00841 0.00032	12.70 1.01501 0.00032
15.00 0.99058 0.00029	13.30 1.01206 0.00031	
15.10 0.99252 0.00029	13.40 1.01457 0.00033	
15.20 0.99513 0.00030		
15.30 0.99774 0.00029		
15.40 1.00063 0.00030		
15.50 1.00185 0.00029		
15.60 1.00428 0.00030		
15.70 1.00633 0.00029		
15.80 1.00913 0.00029		
15.90 1.01030 0.00029		
16.00 1.01303 0.00029		
16.10 1.01484 0.00029		

35	40	50
9.80 0.92230 0.00034	9.10 0.92336 0.00037	8.10 0.91901 0.00041
9.90 0.92777 0.00035	9.20 0.92923 0.00035	8.15 0.92232 0.00039
10.00 0.93269 0.00035	9.30 0.93564 0.00037	8.20 0.92629 0.00038
10.10 0.93780 0.00035	9.40 0.94012 0.00037	8.25 0.92920 0.00039
10.20 0.94242 0.00035	9.50 0.94603 0.00037	8.30 0.93243 0.00039
10.30 0.94753 0.00035	9.60 0.95236 0.00037	8.35 0.93575 0.00039
10.40 0.95175 0.00034	9.70 0.95741 0.00037	8.40 0.93906 0.00040
10.50 0.95667 0.00034	9.80 0.96275 0.00037	8.45 0.94229 0.00039
10.60 0.96183 0.00034	9.90 0.96792 0.00037	8.50 0.94609 0.00038
10.70 0.96639 0.00035	10.00 0.97287 0.00036	8.55 0.95002 0.00038
10.80 0.96992 0.00034	10.10 0.97894 0.00036	8.60 0.95270 0.00037
10.90 0.97439 0.00035	10.20 0.98262 0.00037	8.65 0.95546 0.00038
11.00 0.97890 0.00035	10.30 0.98822 0.00036	8.70 0.96007 0.00039
11.10 0.98333 0.00035	10.40 0.99302 0.00036	8.75 0.96253 0.00038
11.20 0.98763 0.00034	10.50 0.99803 0.00036	8.80 0.96605 0.00039
11.30 0.99258 0.00035	10.60 1.00265 0.00035	8.85 0.96932 0.00039
11.40 0.99614 0.00034	10.70 1.00739 0.00036	8.90 0.97280 0.00039
11.50 1.00042 0.00035	10.80 1.01152 0.00035	8.95 0.97506 0.00039
11.60 1.00433 0.00034	10.90 1.01641 0.00036	9.00 0.97811 0.00039
11.70 1.00786 0.00034		9.05 0.98096 0.00040
11.80 1.01263 0.00035		9.10 0.98490 0.00039
11.90 1.01624 0.00034		9.15 0.98709 0.00038
		9.20 0.99058 0.00039
		9.25 0.99405 0.00038
		9.30 0.99606 0.00039
		9.35 0.99844 0.00038
		9.40 1.00236 0.00038
		9.45 1.00566 0.00037

9.50 1.00821 0.00039
 9.55 1.01033 0.00038
 9.60 1.01358 0.00038
 9.65 1.01746 0.00039
 9.70 1.01937 0.00040

60	70	80
7.50 0.91647 0.00039	7.10 0.91637 0.00042	6.90 0.92370 0.00042
7.55 0.92106 0.00041	7.15 0.92092 0.00042	6.95 0.92887 0.00043
7.60 0.92517 0.00041	7.20 0.92477 0.00041	7.00 0.93315 0.00043
7.65 0.92908 0.00039	7.25 0.92868 0.00040	7.05 0.93711 0.00042
7.70 0.93300 0.00040	7.30 0.93286 0.00042	7.10 0.94179 0.00042
7.75 0.93504 0.00039	7.35 0.93646 0.00041	7.15 0.94575 0.00042
7.80 0.94065 0.00040	7.40 0.94117 0.00042	7.20 0.94914 0.00042
7.85 0.94398 0.00040	7.45 0.94497 0.00042	7.25 0.95478 0.00044
7.90 0.94743 0.00040	7.50 0.94919 0.00041	7.30 0.95838 0.00043
7.95 0.95109 0.00039	7.55 0.95287 0.00042	7.35 0.96237 0.00041
8.00 0.95533 0.00041	7.60 0.95712 0.00042	7.40 0.96636 0.00042
8.05 0.95869 0.00041	7.65 0.96054 0.00042	7.45 0.97096 0.00043
8.10 0.96126 0.00040	7.70 0.96550 0.00041	7.50 0.97468 0.00042
8.15 0.96565 0.00040	7.75 0.96850 0.00042	7.55 0.97860 0.00043
8.20 0.96947 0.00041	7.80 0.97262 0.00040	7.60 0.98370 0.00042
8.25 0.97231 0.00039	7.85 0.97693 0.00042	7.65 0.98648 0.00043
8.30 0.97627 0.00041	7.90 0.98015 0.00042	7.70 0.99175 0.00042
8.35 0.98010 0.00040	7.95 0.98431 0.00043	7.75 0.99428 0.00042
8.40 0.98324 0.00041	8.00 0.98849 0.00041	7.80 0.99902 0.00043
8.45 0.98690 0.00041	8.05 0.99165 0.00042	7.85 1.00281 0.00043
8.50 0.99038 0.00041	8.10 0.99508 0.00041	7.90 1.00667 0.00043
8.55 0.99292 0.00039	8.20 1.00271 0.00042	7.95 1.01055 0.00043
8.60 0.99722 0.00040	8.25 1.00584 0.00041	8.00 1.01419 0.00041
8.65 1.00065 0.00041	8.35 1.01301 0.00042	8.05 1.01729 0.00042
8.70 1.00362 0.00041	8.40 1.01656 0.00042	8.10 1.02122 0.00042
8.75 1.00692 0.00040		
8.80 1.00955 0.00040		
8.85 1.01346 0.00040		
8.90 1.01671 0.00040		
8.95 1.01944 0.00040		
9.00 1.02292 0.00040		

90	100	118
6.60 0.91703 0.00045	6.40 0.91431 0.00044	6.20 0.91773 0.00045
6.65 0.92128 0.00043	6.45 0.91988 0.00044	6.25 0.92287 0.00044
6.70 0.92659 0.00043	6.50 0.92337 0.00043	6.30 0.92706 0.00045
6.75 0.93057 0.00044	6.55 0.92931 0.00044	6.35 0.93165 0.00045
6.80 0.93533 0.00041	6.60 0.93338 0.00044	6.40 0.93678 0.00045
6.85 0.93931 0.00043	6.65 0.93771 0.00044	6.45 0.94239 0.00045
6.90 0.94479 0.00044	6.70 0.94282 0.00043	6.50 0.94682 0.00044

6.95 0.94845 0.00043	6.75 0.94687 0.00044	6.55 0.95191 0.00044
7.00 0.95311 0.00043	6.80 0.95202 0.00043	6.60 0.95584 0.00044
7.05 0.95802 0.00042	6.85 0.95716 0.00044	6.65 0.96039 0.00044
7.10 0.96186 0.00042	6.90 0.96098 0.00043	6.70 0.96496 0.00046
7.15 0.96683 0.00043	6.95 0.96553 0.00045	6.75 0.96989 0.00045
7.20 0.96976 0.00042	7.00 0.96982 0.00044	6.80 0.97482 0.00044
7.25 0.97537 0.00044	7.05 0.97484 0.00044	6.85 0.97910 0.00045
7.30 0.97867 0.00042	7.10 0.97867 0.00043	6.90 0.98455 0.00043
7.35 0.98359 0.00043	7.15 0.98289 0.00044	6.95 0.98790 0.00044
7.40 0.98706 0.00044	7.20 0.98748 0.00044	7.00 0.99318 0.00044
7.45 0.99192 0.00043	7.25 0.99191 0.00045	7.05 0.99715 0.00044
7.50 0.99606 0.00044	7.30 0.99587 0.00044	7.10 1.00190 0.00045
7.55 0.99994 0.00043	7.35 1.00063 0.00044	7.15 1.00632 0.00044
7.60 1.00340 0.00044	7.40 1.00446 0.00045	7.20 1.00958 0.00045
7.65 1.00804 0.00043	7.45 1.00916 0.00045	7.25 1.01537 0.00045
7.70 1.01280 0.00043	7.50 1.01352 0.00044	7.30 1.01851 0.00045
7.75 1.01632 0.00042	7.55 1.01723 0.00044	
7.80 1.02000 0.00045	7.60 1.01950 0.00043	

130	150	200
6.10 0.91941 0.00044	5.90 0.91379 0.00045	5.70 0.91687 0.00046
6.15 0.92368 0.00044	5.95 0.91892 0.00046	5.75 0.92246 0.00046
6.20 0.93011 0.00045	6.00 0.92402 0.00045	5.80 0.92754 0.00045
6.25 0.93355 0.00045	6.05 0.92880 0.00046	5.85 0.93185 0.00046
6.30 0.93929 0.00045	6.10 0.93511 0.00045	5.90 0.93802 0.00046
6.35 0.94387 0.00045	6.15 0.93927 0.00044	5.95 0.94343 0.00046
6.40 0.94939 0.00046	6.20 0.94512 0.00045	6.00 0.94797 0.00046
6.45 0.95390 0.00045	6.25 0.95006 0.00045	6.05 0.95353 0.00047
6.50 0.95853 0.00045	6.30 0.95460 0.00047	6.10 0.95789 0.00046
6.55 0.96337 0.00047	6.35 0.95953 0.00047	6.15 0.96386 0.00046
6.60 0.96886 0.00046	6.40 0.96521 0.00045	6.20 0.96910 0.00047
6.65 0.97354 0.00045	6.45 0.96964 0.00046	6.25 0.97479 0.00048
6.70 0.97792 0.00046	6.50 0.97466 0.00046	6.30 0.97876 0.00046
6.80 0.98755 0.00045	6.55 0.97890 0.00047	6.35 0.98338 0.00047
6.85 0.99133 0.00045	6.60 0.98408 0.00046	6.40 0.98947 0.00047
6.90 0.99608 0.00045	6.65 0.98934 0.00045	6.45 0.99416 0.00046
6.95 1.00089 0.00046	6.70 0.99305 0.00045	6.50 0.99809 0.00046
7.00 1.00542 0.00046	6.75 0.99825 0.00046	6.55 1.00276 0.00047
7.05 1.00905 0.00045	6.80 1.00377 0.00046	6.60 1.00808 0.00046
7.10 1.01394 0.00045	6.85 1.00653 0.00046	6.65 1.01303 0.00047
7.15 1.01862 0.00045	6.90 1.01093 0.00045	6.70 1.01811 0.00047
7.20 1.02281 0.00047	6.95 1.01630 0.00044	
	7.00 1.02043 0.00045	

235	250	353
5.60 0.91594 0.00047	5.60 0.91897 0.00048	5.50 0.91772 0.00047
5.65 0.92193 0.00044	5.65 0.92432 0.00046	5.55 0.92255 0.00047
5.70 0.92695 0.00046	5.70 0.92938 0.00046	5.60 0.92784 0.00046
5.75 0.93241 0.00046	5.75 0.93558 0.00046	5.65 0.93319 0.00046
5.80 0.93713 0.00047	5.80 0.94012 0.00047	5.70 0.93891 0.00047
5.85 0.94324 0.00047	5.85 0.94546 0.00047	5.75 0.94420 0.00047
5.90 0.94871 0.00046	5.90 0.95040 0.00047	5.80 0.94864 0.00048
5.95 0.95247 0.00046	5.95 0.95583 0.00045	5.85 0.95521 0.00048
6.00 0.95908 0.00046	6.00 0.96168 0.00046	5.90 0.95955 0.00046
6.05 0.96428 0.00048	6.05 0.96627 0.00047	5.95 0.96561 0.00048
6.10 0.96910 0.00047	6.10 0.97108 0.00046	6.00 0.96955 0.00047
6.15 0.97453 0.00046	6.15 0.97660 0.00047	6.05 0.97620 0.00047
6.20 0.97853 0.00047	6.20 0.98116 0.00047	6.10 0.98024 0.00047
6.25 0.98382 0.00047	6.25 0.98638 0.00046	6.15 0.98443 0.00047
6.30 0.98845 0.00047	6.30 0.99193 0.00048	6.20 0.99016 0.00047
6.35 0.99371 0.00047	6.35 0.99660 0.00047	6.25 0.99486 0.00046
6.40 0.99834 0.00047	6.40 1.00110 0.00047	6.30 0.99980 0.00046
6.45 1.00379 0.00046	6.45 1.00598 0.00046	6.40 1.00946 0.00050
6.50 1.00751 0.00046	6.50 1.01131 0.00046	6.45 1.01310 0.00048
6.55 1.01325 0.00046	6.55 1.01625 0.00047	6.50 1.01838 0.00048
6.60 1.01772 0.00046	6.60 1.02018 0.00046	

470	500	510
5.50 0.91599 0.00047	5.50 0.91341 0.00047	5.60 0.92325 0.00047
5.55 0.92134 0.00046	5.55 0.91909 0.00047	5.65 0.92821 0.00048
5.65 0.93038 0.00046	5.60 0.92321 0.00046	5.70 0.93267 0.00046
5.70 0.93680 0.00048	5.65 0.92968 0.00048	5.75 0.93855 0.00046
5.75 0.94150 0.00046	5.70 0.93462 0.00046	5.80 0.94325 0.00047
5.80 0.94657 0.00049	5.75 0.93831 0.00046	5.85 0.94833 0.00047
5.85 0.95100 0.00048	5.80 0.94352 0.00046	5.90 0.95311 0.00047
5.90 0.95798 0.00047	5.85 0.94939 0.00047	5.95 0.95840 0.00047
5.95 0.96067 0.00046	5.90 0.95403 0.00047	6.00 0.96288 0.00047
6.00 0.96685 0.00047	5.95 0.95870 0.00046	6.05 0.96828 0.00046
6.05 0.97118 0.00047	6.00 0.96435 0.00047	6.10 0.97371 0.00046
6.10 0.97635 0.00046	6.05 0.96864 0.00047	6.15 0.97767 0.00047
6.15 0.98160 0.00047	6.10 0.97360 0.00047	6.20 0.98232 0.00048
6.20 0.98555 0.00046	6.15 0.97854 0.00046	6.25 0.98709 0.00047
6.25 0.99102 0.00047	6.20 0.98411 0.00047	6.30 0.99089 0.00047
6.30 0.99656 0.00047	6.25 0.98813 0.00048	6.35 0.99590 0.00047
6.35 1.00088 0.00047	6.30 0.99305 0.00047	6.40 1.00099 0.00047
6.40 1.00540 0.00047	6.35 0.99701 0.00045	6.45 1.00537 0.00048
6.45 1.00914 0.00048	6.40 1.00091 0.00047	6.50 1.00994 0.00048
6.50 1.01449 0.00047	6.45 1.00603 0.00050	6.55 1.01526 0.00048
6.55 1.01847 0.00049	6.50 1.01025 0.00047	6.60 1.01981 0.00045
6.60 1.02301 0.00048	6.55 1.01462 0.00048	
	6.60 1.01983 0.00048	

520	530	540
5.60 0.92203 0.00046	5.60 0.92169 0.00048	5.60 0.92114 0.00046
5.65 0.92741 0.00046	5.65 0.92750 0.00046	5.65 0.92504 0.00046
5.70 0.93243 0.00048	5.70 0.93205 0.00046	5.70 0.93071 0.00048
5.75 0.93762 0.00046	5.75 0.93656 0.00046	5.75 0.93660 0.00047
5.80 0.94335 0.00047	5.80 0.94212 0.00047	5.80 0.94081 0.00047
5.85 0.94793 0.00047	5.85 0.94699 0.00047	5.85 0.94577 0.00047
5.90 0.95277 0.00046	5.90 0.95089 0.00048	6.25 0.98510 0.00048
5.95 0.95740 0.00047	5.95 0.95687 0.00047	6.30 0.98902 0.00048
6.00 0.96212 0.00048	6.00 0.96186 0.00047	6.35 0.99394 0.00047
6.05 0.96741 0.00047	6.05 0.96647 0.00047	6.40 0.99798 0.00047
6.10 0.97247 0.00046	6.10 0.97106 0.00047	6.45 1.00280 0.00046
6.15 0.97646 0.00048	6.15 0.97583 0.00047	6.50 1.00599 0.00048
6.20 0.98113 0.00047	6.20 0.97999 0.00047	6.55 1.01232 0.00047
6.25 0.98586 0.00046	6.25 0.98655 0.00048	6.60 1.01575 0.00047
6.30 0.99057 0.00047	6.30 0.98988 0.00048	6.65 1.02015 0.00047
6.35 0.99532 0.00047	6.35 0.99460 0.00047	6.70 1.02438 0.00048
6.40 1.00008 0.00048	6.40 0.99843 0.00048	
6.45 1.00464 0.00047	6.45 1.00378 0.00046	
6.50 1.00915 0.00047	6.50 1.00739 0.00048	
6.55 1.01363 0.00048	6.55 1.01284 0.00048	
6.60 1.01855 0.00048	6.60 1.01756 0.00048	
	6.65 1.02122 0.00047	
	6.70 1.02540 0.00049	

550	560
5.60 0.91965 0.00047	5.60 0.91935 0.00046
5.65 0.92571 0.00048	5.65 0.92323 0.00046
5.70 0.92952 0.00045	5.70 0.92947 0.00046
5.75 0.93486 0.00045	5.75 0.93375 0.00048
5.80 0.93984 0.00047	5.80 0.93847 0.00046
5.85 0.94514 0.00046	5.85 0.94405 0.00047
5.90 0.94952 0.00047	5.90 0.94847 0.00048
5.95 0.95473 0.00047	5.95 0.95474 0.00047
6.00 0.95978 0.00048	6.00 0.95839 0.00047
6.05 0.96455 0.00046	6.05 0.96348 0.00046
6.10 0.96899 0.00046	6.10 0.96781 0.00046
6.15 0.97408 0.00047	6.15 0.97309 0.00046
6.20 0.97893 0.00047	6.20 0.97816 0.00047
6.25 0.98293 0.00046	6.25 0.98223 0.00048
6.30 0.98833 0.00048	6.30 0.98637 0.00047
6.35 0.99165 0.00047	6.35 0.99081 0.00047
6.40 0.99665 0.00048	6.40 0.99628 0.00048
6.45 1.00222 0.00047	6.45 1.00087 0.00048
6.50 1.00634 0.00048	6.50 1.00471 0.00046
6.55 1.01117 0.00048	6.55 1.00926 0.00048
6.60 1.01553 0.00047	6.65 1.01952 0.00049
6.65 1.01937 0.00047	6.70 1.02262 0.00048
6.70 1.02301 0.00049	

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12	15	20
63.80 0.84549 0.00014	26.50 0.85363 0.00022	21.60 0.92619 0.00028
64.70 0.84643 0.00014	27.60 0.86169 0.00022	22.00 0.93200 0.00027
65.60 0.84664 0.00014	28.70 0.86967 0.00021	22.40 0.93663 0.00028
66.50 0.84741 0.00014	29.80 0.87634 0.00021	22.80 0.94290 0.00026
67.40 0.84816 0.00014	30.90 0.88268 0.00021	23.20 0.94812 0.00027
68.30 0.84843 0.00014	33.10 0.89345 0.00020	23.60 0.95222 0.00026
69.20 0.84896 0.00014	34.20 0.89876 0.00019	24.00 0.95696 0.00026
70.10 0.84950 0.00014	35.30 0.90296 0.00019	24.40 0.96159 0.00026
71.00 0.84999 0.00013	36.40 0.90736 0.00019	24.80 0.96565 0.00026
71.90 0.85051 0.00013	37.50 0.91083 0.00019	25.20 0.97050 0.00026
72.80 0.85127 0.00013	38.60 0.91467 0.00019	25.60 0.97435 0.00025
74.60 0.85219 0.00013	39.70 0.91811 0.00018	26.00 0.97762 0.00024
75.50 0.85189 0.00013	40.80 0.92072 0.00018	26.40 0.98142 0.00025
76.40 0.85312 0.00013	41.90 0.92364 0.00018	26.80 0.98505 0.00025
77.30 0.85283 0.00013	43.00 0.92608 0.00018	27.20 0.98866 0.00025
78.20 0.85381 0.00013	44.10 0.92872 0.00017	27.60 0.99218 0.00024
79.10 0.85335 0.00013	45.20 0.93147 0.00018	28.00 0.99550 0.00024
80.00 0.85407 0.00013	46.30 0.93355 0.00017	28.40 0.99845 0.00024
80.90 0.85427 0.00013	47.40 0.93544 0.00017	28.80 1.00090 0.00024
81.80 0.85469 0.00013	48.50 0.93748 0.00017	29.20 1.00440 0.00023
82.70 0.85508 0.00013	49.60 0.93868 0.00017	29.60 1.00688 0.00023
83.40 0.85567 0.00012	50.10 0.93990 0.00017	30.00 1.01002 0.00024
		30.40 1.01261 0.00023
		30.60 1.01376 0.00023

25	30	32
17.00 0.92525 0.00033	14.80 0.92164 0.00035	14.20 0.92069 0.00037
17.20 0.92984 0.00033	14.90 0.92519 0.00036	14.30 0.92488 0.00036
17.40 0.93532 0.00032	15.00 0.92954 0.00035	14.40 0.92884 0.00037
17.60 0.94041 0.00031	15.10 0.93302 0.00035	14.50 0.93258 0.00036
17.80 0.94559 0.00031	15.20 0.93616 0.00035	14.60 0.93623 0.00036
18.20 0.95493 0.00031	15.30 0.93946 0.00035	14.70 0.94013 0.00036
18.40 0.95910 0.00031	15.40 0.94336 0.00035	14.90 0.94798 0.00036
18.60 0.96268 0.00033	15.50 0.94657 0.00035	15.00 0.95118 0.00036
18.80 0.96767 0.00031	15.60 0.94950 0.00035	15.10 0.95490 0.00036
19.00 0.97186 0.00030	15.70 0.95237 0.00036	15.20 0.95783 0.00035
19.20 0.97581 0.00030	15.80 0.95609 0.00035	15.30 0.96199 0.00036
19.40 0.97999 0.00031	15.90 0.95904 0.00034	15.40 0.96585 0.00037
19.60 0.98426 0.00030	16.00 0.96238 0.00036	15.50 0.96839 0.00036
19.80 0.98816 0.00030	16.10 0.96604 0.00035	15.60 0.97252 0.00035
20.20 0.99559 0.00030	16.20 0.96887 0.00035	15.70 0.97514 0.00036
20.60 1.00241 0.00030	16.30 0.97115 0.00034	15.80 0.97873 0.00035
21.00 1.00968 0.00030	16.40 0.97472 0.00035	15.90 0.98220 0.00036
21.20 1.01228 0.00029	16.50 0.97754 0.00034	16.00 0.98474 0.00036
21.30 1.01425 0.00029	16.60 0.98010 0.00034	16.10 0.98845 0.00034

16.70	0.98332	0.00035	16.20	0.99103	0.00035
16.80	0.98591	0.00034	16.30	0.99432	0.00035
17.00	0.99136	0.00034	16.40	0.99811	0.00035
17.20	0.99700	0.00033	16.50	1.00044	0.00036
17.30	1.00003	0.00033	16.80	1.00994	0.00035
17.40	1.00313	0.00034	16.90	1.01317	0.00036
17.50	1.00549	0.00035	17.00	1.01528	0.00036
17.70	1.01027	0.00033			
17.80	1.01287	0.00034			
17.90	1.01579	0.00034			

35	40	50						
13.60	0.92372	0.00036	12.70	0.92087	0.00040	11.80	0.92948	0.00044
13.70	0.92808	0.00037	12.80	0.92667	0.00039	11.90	0.93541	0.00041
13.90	0.93673	0.00039	12.90	0.93052	0.00040	12.00	0.94113	0.00043
14.00	0.94018	0.00037	13.00	0.93578	0.00040	12.10	0.94666	0.00042
14.10	0.94454	0.00038	13.10	0.94054	0.00041	12.20	0.95260	0.00042
14.20	0.94906	0.00036	13.20	0.94627	0.00040	12.30	0.95876	0.00043
14.30	0.95294	0.00038	13.30	0.95000	0.00041	12.40	0.96500	0.00042
14.40	0.95699	0.00038	13.40	0.95529	0.00039	12.50	0.96981	0.00044
14.50	0.96090	0.00038	13.50	0.95949	0.00039	12.60	0.97549	0.00042
14.60	0.96557	0.00037	13.60	0.96388	0.00040	12.70	0.98082	0.00042
14.70	0.96976	0.00038	13.70	0.96879	0.00039	12.90	0.99155	0.00042
14.80	0.97304	0.00037	13.80	0.97346	0.00040	13.00	0.99783	0.00043
14.90	0.97684	0.00038	13.90	0.97760	0.00039	13.20	1.00741	0.00041
15.00	0.98015	0.00037	14.00	0.98181	0.00040	13.30	1.01187	0.00042
15.10	0.98407	0.00038	14.10	0.98605	0.00039	13.40	1.01635	0.00042
15.20	0.98833	0.00037	14.20	0.99146	0.00039			
15.30	0.99108	0.00037	14.30	0.99472	0.00039			
15.40	0.99444	0.00036	14.40	1.00027	0.00040			
15.60	1.00097	0.00037	14.50	1.00313	0.00038			
15.70	1.00531	0.00037	14.60	1.00796	0.00039			
15.80	1.00892	0.00037	14.70	1.01087	0.00041			
15.90	1.01153	0.00036	14.80	1.01490	0.00039			
16.00	1.01532	0.00036						

60	70	80						
11.30	0.93935	0.00045	10.60	0.92138	0.00048	10.30	0.91912	0.00047
11.35	0.94374	0.00045	10.65	0.92431	0.00046	10.35	0.92373	0.00048
11.40	0.94623	0.00044	11.15	0.96063	0.00047	10.45	0.93157	0.00046
11.45	0.94905	0.00044	11.20	0.96333	0.00047	10.50	0.93630	0.00047
11.50	0.95274	0.00047	11.25	0.96750	0.00045	10.55	0.93926	0.00049
11.55	0.95628	0.00044	11.30	0.97140	0.00047	10.60	0.94335	0.00047
11.60	0.95856	0.00045	11.35	0.97480	0.00047	10.65	0.94783	0.00047
11.65	0.96231	0.00045	11.40	0.97860	0.00046	10.70	0.95158	0.00048
11.70	0.96603	0.00044	11.50	0.98409	0.00046	10.75	0.95427	0.00048
11.75	0.96890	0.00046	11.55	0.98849	0.00047	10.80	0.95859	0.00047

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11.80 0.97278 0.00045	11.60 0.99112 0.00046	10.85 0.96166 0.00047
11.85 0.97463 0.00044	11.65 0.99409 0.00046	10.90 0.96537 0.00047
11.90 0.97771 0.00045	11.70 0.99843 0.00046	10.95 0.97084 0.00047
11.95 0.98102 0.00045	11.75 1.00029 0.00046	11.00 0.97388 0.00048
12.00 0.98500 0.00044	11.80 1.00401 0.00046	11.05 0.97650 0.00047
12.05 0.98806 0.00045	11.85 1.00773 0.00045	11.10 0.98058 0.00048
12.10 0.99066 0.00044	12.00 1.01637 0.00045	11.15 0.98426 0.00048
12.20 0.99627 0.00045	12.10 1.02287 0.00047	11.20 0.98818 0.00048
12.25 0.99965 0.00043		11.25 0.99152 0.00046
12.30 1.00262 0.00045		11.30 0.99557 0.00048
12.35 1.00561 0.00045		11.35 0.99884 0.00048
12.40 1.00689 0.00046		11.45 1.00524 0.00047
12.45 1.01074 0.00045		11.50 1.00923 0.00047
12.50 1.01420 0.00044		11.55 1.01287 0.00047
12.55 1.01687 0.00044		11.60 1.01569 0.00047
12.60 1.01879 0.00044		11.70 1.02168 0.00048

90	100	118
10.10 0.92271 0.00048	9.90 0.92031 0.00049	9.70 0.92290 0.00050
10.15 0.92718 0.00048	9.95 0.92415 0.00049	9.75 0.92661 0.00049
10.20 0.93043 0.00050	10.00 0.92781 0.00049	9.80 0.93096 0.00051
10.25 0.93426 0.00047	10.10 0.93748 0.00049	9.85 0.93489 0.00051
10.30 0.93827 0.00048	10.20 0.94528 0.00049	9.90 0.94085 0.00050
10.35 0.94223 0.00048	10.25 0.94963 0.00050	9.95 0.94377 0.00050
10.40 0.94711 0.00048	10.40 0.96106 0.00050	10.00 0.94823 0.00051
10.45 0.95058 0.00049	10.45 0.96621 0.00049	10.05 0.95327 0.00050
10.50 0.95491 0.00049	10.50 0.97081 0.00049	10.15 0.96196 0.00051
10.55 0.95859 0.00048	10.55 0.97295 0.00049	10.20 0.96582 0.00048
10.60 0.96151 0.00050	10.60 0.97741 0.00048	10.25 0.96995 0.00049
10.65 0.96668 0.00048	10.65 0.98145 0.00049	10.30 0.97460 0.00049
10.70 0.97103 0.00050	10.70 0.98529 0.00049	10.35 0.97790 0.00050
10.75 0.97570 0.00050	10.75 0.98935 0.00049	10.40 0.98186 0.00050
10.80 0.97789 0.00048	10.80 0.99346 0.00050	10.45 0.98614 0.00049
10.85 0.98099 0.00049	10.85 0.99712 0.00050	10.50 0.99021 0.00051
10.90 0.98536 0.00049	10.90 1.00118 0.00048	10.55 0.99427 0.00050
10.95 0.98896 0.00049	10.95 1.00462 0.00049	10.60 0.99908 0.00050
11.00 0.99245 0.00048	11.00 1.00813 0.00050	10.65 1.00266 0.00051
11.05 0.99641 0.00048	11.05 1.01273 0.00050	10.70 1.00709 0.00051
11.10 1.00089 0.00048	11.10 1.01618 0.00049	10.75 1.00972 0.00050
11.15 1.00412 0.00049	11.15 1.01866 0.00049	10.80 1.01391 0.00048
11.20 1.00701 0.00047	11.20 1.02258 0.00051	10.85 1.01717 0.00050
11.25 1.01033 0.00050		
11.30 1.01413 0.00049		
11.35 1.01726 0.00048		
11.40 1.02186 0.00049		

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130	150	200
9.50 0.91486 0.00051	9.40 0.91895 0.00052	9.25 0.91857 0.00053
9.55 0.91875 0.00049	9.45 0.92216 0.00051	9.30 0.92362 0.00053
9.65 0.92796 0.00051	9.55 0.93119 0.00052	9.40 0.93341 0.00051
9.70 0.93276 0.00051	9.60 0.93521 0.00051	9.45 0.93782 0.00052
9.75 0.93754 0.00052	9.65 0.94049 0.00051	9.55 0.94776 0.00054
9.80 0.94200 0.00052	9.70 0.94520 0.00052	9.60 0.95173 0.00053
9.85 0.94592 0.00052	9.75 0.95000 0.00052	9.65 0.95782 0.00052
9.90 0.95052 0.00051	9.80 0.95366 0.00052	9.70 0.96145 0.00053
9.95 0.95573 0.00050	9.85 0.95843 0.00051	9.75 0.96645 0.00052
10.00 0.95984 0.00050	9.90 0.96200 0.00052	9.80 0.97077 0.00052
10.05 0.96359 0.00052	10.05 0.97711 0.00050	9.90 0.97906 0.00052
10.10 0.96786 0.00049	10.10 0.98092 0.00051	9.95 0.98335 0.00052
10.15 0.97243 0.00051	10.15 0.98507 0.00051	10.00 0.98794 0.00053
10.20 0.97637 0.00051	10.20 0.98937 0.00051	10.05 0.99178 0.00052
10.25 0.98073 0.00051	10.25 0.99368 0.00051	10.10 0.99698 0.00053
10.30 0.98575 0.00051	10.30 0.99811 0.00052	10.20 1.00546 0.00054
10.35 0.98803 0.00052	10.35 1.00039 0.00051	10.25 1.01042 0.00054
10.40 0.99326 0.00051	10.45 1.00986 0.00051	10.30 1.01379 0.00053
10.45 0.99714 0.00051	10.55 1.01748 0.00051	10.35 1.01869 0.00052
10.50 1.00144 0.00051		10.40 1.02371 0.00053
10.55 1.00603 0.00051		
10.60 1.00979 0.00052		
10.65 1.01252 0.00051		
10.70 1.01672 0.00052		
10.75 1.02139 0.00050		
10.80 1.02454 0.00050		

235	250	353
9.25 0.92345 0.00051	9.20 0.91790 0.00053	9.30 0.92125 0.00054
9.30 0.92780 0.00053	9.30 0.92765 0.00052	9.35 0.92604 0.00053
9.35 0.93240 0.00052	9.40 0.93814 0.00053	9.40 0.93085 0.00053
9.40 0.93760 0.00053	9.45 0.94233 0.00053	9.45 0.93463 0.00052
9.45 0.94153 0.00053	9.50 0.94776 0.00053	9.50 0.94066 0.00052
9.50 0.94643 0.00052	9.55 0.95298 0.00051	9.55 0.94444 0.00053
9.60 0.95684 0.00054	9.60 0.95676 0.00052	9.60 0.94872 0.00053
9.65 0.96084 0.00053	9.65 0.96145 0.00054	9.65 0.95403 0.00052
9.70 0.96562 0.00052	9.75 0.97009 0.00052	9.70 0.95768 0.00052
9.75 0.97055 0.00052	9.85 0.97955 0.00053	9.80 0.96714 0.00053
9.80 0.97442 0.00054	9.95 0.98854 0.00053	9.85 0.97210 0.00053
9.85 0.97985 0.00054	10.00 0.99351 0.00052	9.95 0.98073 0.00053
9.90 0.98420 0.00054	10.05 0.99766 0.00054	10.05 0.99021 0.00053
9.95 0.98859 0.00053	10.10 1.00094 0.00053	10.10 0.99331 0.00052
10.00 0.99207 0.00051	10.15 1.00651 0.00053	10.15 0.99885 0.00053
10.05 0.99665 0.00054	10.20 1.01095 0.00053	10.20 1.00242 0.00054
10.10 1.00156 0.00055	10.25 1.01440 0.00053	10.25 1.00653 0.00054
10.25 1.01405 0.00053	10.30 1.01944 0.00053	10.30 1.01119 0.00053
10.30 1.01820 0.00055	10.35 1.02374 0.00052	10.35 1.01539 0.00054
10.40 1.02662 0.00054	10.40 1.02787 0.00054	10.40 1.02021 0.00052

10.45 1.02320 0.00054
10.50 1.02796 0.00053

470	475	480
9.55 0.91998 0.00053	9.50 0.91453 0.00053	9.50 0.91349 0.00052
9.60 0.92591 0.00052	9.55 0.91976 0.00052	9.60 0.92093 0.00052
9.65 0.93045 0.00053	9.60 0.92442 0.00052	9.65 0.92722 0.00052
9.70 0.93407 0.00051	9.65 0.92876 0.00052	9.70 0.93164 0.00052
9.75 0.93951 0.00051	9.70 0.93284 0.00053	9.75 0.93614 0.00050
9.80 0.94348 0.00054	9.75 0.93727 0.00051	9.80 0.94057 0.00052
9.85 0.94722 0.00054	9.80 0.94248 0.00053	9.85 0.94539 0.00052
9.90 0.95157 0.00052	9.85 0.94687 0.00053	9.90 0.94917 0.00053
9.95 0.95678 0.00053	9.90 0.95070 0.00052	10.00 0.95770 0.00052
10.05 0.96543 0.00053	9.95 0.95512 0.00053	10.05 0.96258 0.00053
10.10 0.96928 0.00051	10.05 0.96330 0.00054	10.10 0.96668 0.00052
10.25 0.98165 0.00052	10.15 0.97215 0.00053	10.20 0.97644 0.00051
10.30 0.98680 0.00054	10.25 0.98118 0.00053	10.25 0.97931 0.00052
10.35 0.99075 0.00053	10.30 0.98506 0.00053	10.30 0.98384 0.00052
10.45 0.99910 0.00053	10.35 0.98906 0.00054	10.40 0.99237 0.00051
10.50 1.00386 0.00054	10.40 0.99364 0.00053	10.45 0.99613 0.00053
10.55 1.00651 0.00053	10.45 0.99689 0.00053	10.50 0.99995 0.00052
10.65 1.01522 0.00053	10.55 1.00619 0.00052	10.55 1.00448 0.00054
10.70 1.01854 0.00054	10.60 1.00918 0.00051	10.65 1.01203 0.00053
10.75 1.02385 0.00052	10.70 1.01715 0.00053	10.70 1.01579 0.00052
10.80 1.02794 0.00053	10.75 1.02178 0.00053	
	10.80 1.02557 0.00052	

486	0
9.60 0.92012 0.00051	
9.65 0.92401 0.00052	
9.80 0.93899 0.00053	
10.00 0.95569 0.00053	
10.30 0.98157 0.00053	
10.35 0.98586 0.00052	
10.50 0.99837 0.00052	
10.55 1.00137 0.00053	
10.60 1.00591 0.00053	
10.65 1.01048 0.00053	
10.70 1.01522 0.00054	
10.75 1.01842 0.00052	
10.80 1.02207 0.00054	

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12	15	20
68.80 0.84979 0.00014	50.40 0.94298 0.00016	20.10 0.92819 0.00026
69.90 0.85045 0.00013	50.50 0.94329 0.00016	20.50 0.93353 0.00026
71.00 0.85090 0.00013	50.55 0.94245 0.00017	20.90 0.93891 0.00026
72.10 0.85160 0.00013	50.60 0.94274 0.00016	21.30 0.94353 0.00026
73.20 0.85198 0.00013	50.65 0.94308 0.00016	22.10 0.95356 0.00026
74.30 0.85235 0.00014	50.70 0.94331 0.00016	22.50 0.95786 0.00026
75.40 0.85278 0.00013	50.75 0.94307 0.00017	22.90 0.96299 0.00026
76.50 0.85344 0.00013	50.80 0.94346 0.00016	23.30 0.96691 0.00025
77.60 0.85388 0.00013	50.85 0.94314 0.00016	23.70 0.97145 0.00024
79.80 0.85426 0.00013	50.95 0.94349 0.00016	24.10 0.97533 0.00024
80.90 0.85483 0.00013	51.00 0.94321 0.00016	24.50 0.97881 0.00025
82.00 0.85543 0.00013	51.05 0.94348 0.00016	24.90 0.98301 0.00025
83.10 0.85543 0.00013	51.10 0.94390 0.00016	25.30 0.98610 0.00024
84.20 0.85614 0.00012	51.15 0.94359 0.00017	25.70 0.98947 0.00024
85.30 0.85617 0.00012	51.20 0.94388 0.00016	26.10 0.99301 0.00024
86.40 0.85680 0.00013		26.50 0.99595 0.00023
88.60 0.85716 0.00012		26.90 0.99886 0.00023
89.70 0.85762 0.00013		27.70 1.00517 0.00024
90.80 0.85779 0.00013		28.10 1.00823 0.00023
91.90 0.85827 0.00012		28.50 1.01084 0.00022
92.30 0.85793 0.00013		28.70 1.01189 0.00023

25	30	32
15.40 0.92504 0.00031	13.20 0.92240 0.00034	12.70 0.92474 0.00035
15.80 0.93503 0.00030	13.30 0.92624 0.00035	12.80 0.92895 0.00036
16.00 0.94091 0.00030	13.40 0.92919 0.00034	12.90 0.93206 0.00036
16.20 0.94485 0.00031	13.50 0.93291 0.00033	13.00 0.93606 0.00035
16.60 0.95425 0.00030	13.60 0.93621 0.00035	13.10 0.94086 0.00035
16.80 0.95883 0.00031	13.70 0.93993 0.00034	13.20 0.94405 0.00037
17.00 0.96385 0.00030	13.80 0.94274 0.00033	13.30 0.94786 0.00035
17.20 0.96780 0.00030	13.90 0.94600 0.00033	13.40 0.95156 0.00034
17.40 0.97242 0.00029	14.00 0.94984 0.00034	13.50 0.95515 0.00036
17.60 0.97612 0.00029	14.10 0.95330 0.00034	13.60 0.95878 0.00035
17.80 0.98049 0.00030	14.20 0.95601 0.00036	13.70 0.96261 0.00034
18.00 0.98331 0.00030	14.30 0.95975 0.00033	13.80 0.96587 0.00035
18.20 0.98823 0.00030	14.40 0.96205 0.00033	13.90 0.96928 0.00035
18.60 0.99503 0.00029	14.50 0.96595 0.00033	14.00 0.97236 0.00035
19.00 1.00229 0.00029	14.60 0.96879 0.00034	14.10 0.97625 0.00034
19.20 1.00592 0.00029	14.70 0.97163 0.00034	14.20 0.97949 0.00034
19.40 1.00947 0.00029	14.80 0.97457 0.00034	14.30 0.98167 0.00034
19.60 1.01276 0.00029	14.90 0.97823 0.00033	14.50 0.98814 0.00034
19.70 1.01484 0.00028	15.10 0.98394 0.00032	14.60 0.99184 0.00034
	15.30 0.98925 0.00033	14.70 0.99451 0.00035
	15.40 0.99235 0.00033	14.80 0.99851 0.00034
	15.50 0.99506 0.00034	14.90 1.00051 0.00034
	15.60 0.99771 0.00033	15.00 1.00397 0.00034

15.70	1.00027	0.00035	15.10	1.00675	0.00034
15.90	1.00540	0.00033	15.30	1.01273	0.00034
16.00	1.00826	0.00033	15.40	1.01580	0.00034
16.10	1.01050	0.00033	15.50	1.01816	0.00034
16.20	1.01338	0.00033			
16.30	1.01593	0.00032			

35	40	50
12.00 0.92460 0.00036	11.10 0.92131 0.00038	10.00 0.91752 0.00041
12.10 0.92899 0.00037	11.20 0.92680 0.00038	10.10 0.92417 0.00040
12.20 0.93310 0.00037	11.30 0.93125 0.00038	10.20 0.93036 0.00042
12.30 0.93679 0.00036	11.40 0.93697 0.00038	10.40 0.94168 0.00041
12.40 0.94126 0.00037	11.50 0.94126 0.00038	10.60 0.95408 0.00041
12.50 0.94486 0.00037	11.60 0.94627 0.00038	10.70 0.95918 0.00042
12.60 0.94930 0.00037	11.70 0.95186 0.00039	10.80 0.96477 0.00041
12.70 0.95366 0.00036	11.80 0.95610 0.00040	11.60 1.00731 0.00041
12.80 0.95719 0.00034	11.90 0.95989 0.00038	11.70 1.01346 0.00039
12.90 0.96196 0.00036	12.00 0.96524 0.00038	11.80 1.01807 0.00041
13.00 0.96623 0.00035	12.20 0.97384 0.00037	
13.20 0.97322 0.00037	12.30 0.97828 0.00038	
13.30 0.97649 0.00036	12.40 0.98332 0.00038	
13.40 0.98056 0.00037	12.60 0.99207 0.00038	
13.50 0.98427 0.00036	12.70 0.99558 0.00038	
13.60 0.98800 0.00037	12.80 0.99956 0.00037	
13.70 0.99116 0.00036	12.90 1.00359 0.00037	
13.80 0.99431 0.00037	13.00 1.00839 0.00039	
13.90 0.99828 0.00036	13.10 1.01159 0.00038	
14.00 1.00215 0.00036	13.20 1.01601 0.00037	
14.10 1.00519 0.00037		
14.20 1.00883 0.00036		
14.30 1.01171 0.00036		
14.40 1.01537 0.00035		

60	70	80
9.40 0.91995 0.00043	9.05 0.92515 0.00045	8.70 0.92267 0.00047
9.50 0.92674 0.00043	9.15 0.93288 0.00044	8.75 0.92596 0.00046
9.55 0.93029 0.00043	9.20 0.93727 0.00045	8.80 0.93064 0.00046
9.60 0.93371 0.00044	9.30 0.94474 0.00045	8.85 0.93469 0.00045
9.65 0.93687 0.00042	9.40 0.95118 0.00046	8.90 0.93773 0.00047
9.70 0.94102 0.00044	9.45 0.95484 0.00044	8.95 0.94219 0.00044
9.75 0.94394 0.00043	9.50 0.95921 0.00044	9.00 0.94546 0.00046
9.80 0.94717 0.00043	9.55 0.96194 0.00044	9.05 0.94945 0.00046
9.85 0.95036 0.00042	9.65 0.96904 0.00044	9.10 0.95339 0.00046
9.90 0.95358 0.00043	9.75 0.97548 0.00045	9.15 0.95681 0.00046
9.95 0.95706 0.00044	9.80 0.97920 0.00044	9.20 0.96002 0.00045
10.00 0.96006 0.00043	9.85 0.98231 0.00043	9.25 0.96388 0.00045
10.05 0.96324 0.00043	9.95 0.98941 0.00044	9.30 0.96828 0.00045

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10.10 0.96693 0.00043	10.00 0.99179 0.00045	9.40 0.97576 0.00045
10.20 0.97311 0.00042	10.05 0.99563 0.00044	9.45 0.97862 0.00045
10.25 0.97495 0.00044	10.10 0.99797 0.00044	9.50 0.98293 0.00046
10.30 0.97855 0.00043	10.15 1.00161 0.00044	9.55 0.98628 0.00046
10.35 0.98257 0.00043	10.20 1.00586 0.00045	9.60 0.98982 0.00046
10.40 0.98502 0.00044	10.25 1.00876 0.00042	9.65 0.99428 0.00046
10.45 0.98815 0.00043	10.30 1.01224 0.00044	9.70 0.99606 0.00046
10.95 1.01765 0.00043	10.35 1.01524 0.00045	9.75 1.00097 0.00045
11.00 1.02018 0.00043		9.80 1.00333 0.00047
		9.85 1.00737 0.00045
		9.90 1.01063 0.00045
		9.95 1.01404 0.00046
		10.00 1.01694 0.00046
		10.05 1.02070 0.00045
		10.10 1.02407 0.00046

90	100	118
8.40 0.91631 0.00047	8.30 0.92206 0.00048	8.00 0.91622 0.00048
8.45 0.92106 0.00047	8.35 0.92753 0.00048	8.10 0.92516 0.00047
8.50 0.92543 0.00046	8.40 0.93131 0.00046	8.20 0.93506 0.00047
8.55 0.92910 0.00046	8.45 0.93591 0.00048	8.25 0.93840 0.00048
8.60 0.93335 0.00047	8.50 0.93933 0.00047	8.35 0.94719 0.00049
8.65 0.93647 0.00047	8.55 0.94422 0.00047	8.40 0.95190 0.00047
8.70 0.94117 0.00047	8.60 0.94823 0.00047	8.45 0.95641 0.00047
8.75 0.94474 0.00047	8.65 0.95300 0.00047	8.50 0.95974 0.00049
8.80 0.94824 0.00047	8.70 0.95628 0.00047	8.55 0.96422 0.00048
8.85 0.95286 0.00046	8.75 0.96023 0.00048	8.60 0.96921 0.00047
8.90 0.95762 0.00047	8.80 0.96522 0.00048	8.65 0.97248 0.00048
8.95 0.96173 0.00046	8.85 0.96793 0.00046	8.70 0.97716 0.00049
9.00 0.96503 0.00048	8.90 0.97139 0.00048	8.75 0.98106 0.00047
9.05 0.96837 0.00046	8.95 0.97672 0.00047	8.80 0.98575 0.00048
9.10 0.97213 0.00047	9.00 0.98023 0.00047	8.85 0.98922 0.00048
9.15 0.97631 0.00047	9.05 0.98454 0.00048	8.90 0.99364 0.00047
9.25 0.98354 0.00045	9.10 0.98827 0.00048	8.95 0.99747 0.00050
9.30 0.98736 0.00046	9.15 0.99154 0.00046	9.00 1.00198 0.00048
9.45 0.99909 0.00048	9.20 0.99626 0.00048	9.05 1.00541 0.00049
9.50 1.00246 0.00046	9.25 0.99917 0.00048	9.10 1.00895 0.00047
9.55 1.00582 0.00045	9.30 1.00335 0.00047	9.15 1.01331 0.00047
9.60 1.00863 0.00046	9.35 1.00688 0.00046	9.20 1.01648 0.00047
9.65 1.01325 0.00047	9.40 1.01071 0.00047	9.25 1.02072 0.00047
9.70 1.01560 0.00047	9.45 1.01411 0.00047	9.30 1.02474 0.00047
9.75 1.01982 0.00046	9.50 1.01790 0.00046	
9.80 1.02297 0.00046		

130	150	200
7.90 0.91747 0.00048	7.85 0.92624 0.00048	7.60 0.91938 0.00051
7.95 0.92358 0.00047	7.90 0.93069 0.00048	7.65 0.92308 0.00051
8.00 0.92661 0.00048	7.95 0.93482 0.00049	7.70 0.92935 0.00050
8.05 0.93118 0.00049	8.00 0.93975 0.00050	7.75 0.93310 0.00050
8.10 0.93568 0.00047	8.10 0.94978 0.00049	7.80 0.93862 0.00050
8.15 0.94066 0.00049	8.15 0.95366 0.00049	7.90 0.94702 0.00051
8.20 0.94503 0.00049	8.20 0.95786 0.00049	7.95 0.95307 0.00051
8.25 0.94982 0.00048	8.25 0.96201 0.00049	8.00 0.95592 0.00049
8.30 0.95379 0.00049	8.35 0.97174 0.00049	8.05 0.96131 0.00048
8.35 0.95729 0.00050	8.40 0.97608 0.00050	8.10 0.96679 0.00051
8.40 0.96212 0.00048	8.45 0.98063 0.00050	8.15 0.97100 0.00050
8.45 0.96662 0.00049	8.50 0.98515 0.00050	8.20 0.97487 0.00051
8.50 0.97240 0.00048	8.55 0.98807 0.00051	8.25 0.97990 0.00051
8.55 0.97561 0.00050	8.60 0.99236 0.00049	8.30 0.98401 0.00049
8.60 0.97978 0.00048	8.65 0.99774 0.00050	8.35 0.98927 0.00051
8.70 0.98838 0.00048	8.70 1.00159 0.00050	8.40 0.99288 0.00050
8.75 0.99208 0.00050	8.75 1.00547 0.00049	8.45 0.99754 0.00050
8.80 0.99645 0.00049	8.80 1.01046 0.00049	8.50 1.00253 0.00050
8.85 1.00073 0.00048	8.90 1.01808 0.00051	8.55 1.00677 0.00050
8.90 1.00380 0.00049		8.60 1.01097 0.00050
8.95 1.00823 0.00049		8.65 1.01434 0.00050
9.00 1.01253 0.00048		8.70 1.01866 0.00051
9.05 1.01594 0.00046		
9.10 1.01961 0.00048		

235	250	353
7.50 0.91459 0.00050	7.50 0.91572 0.00051	7.60 0.92159 0.00051
7.55 0.92020 0.00051	7.55 0.92156 0.00051	7.65 0.92567 0.00050
7.60 0.92406 0.00051	7.60 0.92680 0.00051	7.70 0.93028 0.00053
7.65 0.92947 0.00051	7.65 0.93100 0.00052	7.75 0.93554 0.00052
7.70 0.93503 0.00050	7.70 0.93624 0.00051	7.80 0.94125 0.00050
7.80 0.94383 0.00050	7.75 0.94014 0.00050	7.85 0.94466 0.00051
7.85 0.94761 0.00050	7.80 0.94549 0.00051	7.95 0.95395 0.00051
7.90 0.95255 0.00050	7.85 0.94964 0.00051	8.00 0.95863 0.00050
7.95 0.95785 0.00050	7.90 0.95465 0.00051	8.05 0.96314 0.00053
8.05 0.96794 0.00050	7.95 0.95902 0.00051	8.10 0.96834 0.00051
8.10 0.97213 0.00053	8.00 0.96358 0.00052	8.15 0.97176 0.00050
8.15 0.97618 0.00052	8.05 0.96783 0.00051	8.20 0.97748 0.00050
8.20 0.98008 0.00052	8.10 0.97210 0.00052	8.30 0.98505 0.00052
8.25 0.98580 0.00051	8.15 0.97722 0.00052	8.35 0.98919 0.00052
8.35 0.99336 0.00051	8.25 0.98587 0.00050	8.45 0.99870 0.00052
8.40 0.99864 0.00052	8.30 0.98966 0.00050	8.50 1.00218 0.00051
8.55 1.01191 0.00051	8.45 1.00424 0.00050	8.55 1.00721 0.00051
8.60 1.01594 0.00053	8.50 1.00729 0.00051	8.60 1.01062 0.00052
8.65 1.02020 0.00051	8.55 1.01250 0.00052	8.70 1.01981 0.00051
8.70 1.02448 0.00050	8.60 1.01714 0.00053	
	8.70 1.02554 0.00050	

470	475	480
7.80 0.92094 0.00051	7.80 0.91898 0.00051	7.80 0.91759 0.00052
7.85 0.92509 0.00049	7.90 0.92768 0.00050	7.90 0.92689 0.00052
7.95 0.93355 0.00051	7.95 0.93280 0.00050	7.95 0.93176 0.00050
8.00 0.93940 0.00050	8.00 0.93651 0.00051	8.00 0.93607 0.00050
8.05 0.94309 0.00051	8.05 0.94192 0.00051	8.05 0.94063 0.00050
8.10 0.94701 0.00050	8.10 0.94667 0.00051	8.10 0.94428 0.00051
8.15 0.95192 0.00052	8.15 0.94997 0.00051	8.15 0.94883 0.00050
8.20 0.95528 0.00051	8.20 0.95461 0.00051	8.20 0.95450 0.00049
8.25 0.96025 0.00051	8.25 0.95877 0.00051	8.30 0.96266 0.00051
8.30 0.96438 0.00050	8.35 0.96841 0.00052	8.35 0.96639 0.00052
8.40 0.97406 0.00051	8.40 0.97217 0.00051	8.70 0.99616 0.00051
8.45 0.97736 0.00051	8.45 0.97705 0.00051	9.00 1.01996 0.00051
8.50 0.98175 0.00052	8.50 0.98113 0.00053	
8.55 0.98615 0.00051	8.55 0.98421 0.00052	
8.60 0.99025 0.00050	8.60 0.98903 0.00051	
8.70 0.99817 0.00051	8.65 0.99255 0.00051	
8.80 1.00574 0.00051	8.75 1.00043 0.00051	
8.90 1.01445 0.00052	8.80 1.00540 0.00052	
8.95 1.01863 0.00052	8.85 1.00955 0.00051	
9.00 1.02257 0.00050	8.90 1.01256 0.00050	
	8.95 1.01730 0.00051	
	9.00 1.02088 0.00050	

486	0
7.95 0.92983 0.00051	
8.00 0.93418 0.00051	
8.05 0.93898 0.00050	
8.10 0.94275 0.00052	
8.15 0.94758 0.00049	
8.20 0.95232 0.00051	
8.25 0.95717 0.00052	
8.30 0.96048 0.00051	
8.35 0.96455 0.00050	
8.40 0.96901 0.00051	
8.45 0.97363 0.00052	
8.55 0.98139 0.00051	
8.60 0.98538 0.00051	
8.65 0.98958 0.00050	
8.70 0.99391 0.00050	
8.75 0.99817 0.00051	
8.80 1.00208 0.00051	
8.85 1.00568 0.00050	
8.90 1.00999 0.00051	
8.95 1.01443 0.00051	
9.00 1.01831 0.00052	
9.05 1.02181 0.00051	
9.10 1.02499 0.00050	

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12	15	20
73.70 0.85245 0.00013	2.61 0.15589 0.00014	18.80 0.92623 0.00026
75.00 0.85305 0.00013	7.81 0.51160 0.00024	19.20 0.93226 0.00025
76.30 0.85397 0.00013	10.41 0.62060 0.00024	19.60 0.93720 0.00025
77.60 0.85401 0.00013	13.01 0.69781 0.00024	20.00 0.94264 0.00025
78.90 0.85458 0.00013	15.61 0.75375 0.00023	20.40 0.94782 0.00025
80.20 0.85474 0.00013	18.21 0.79517 0.00022	20.80 0.95222 0.00025
81.50 0.85576 0.00012	20.81 0.82669 0.00022	21.20 0.95735 0.00024
82.80 0.85586 0.00012	23.41 0.85118 0.00021	21.60 0.96175 0.00024
84.10 0.85580 0.00013	26.01 0.87009 0.00020	22.40 0.97050 0.00024
86.70 0.85728 0.00012	28.61 0.88581 0.00019	22.80 0.97399 0.00023
88.00 0.85769 0.00012	31.21 0.89773 0.00020	23.20 0.97858 0.00024
89.30 0.85776 0.00012	33.81 0.90842 0.00018	23.60 0.98182 0.00023
90.60 0.85817 0.00012	36.41 0.91599 0.00018	24.00 0.98500 0.00023
91.90 0.85817 0.00012	39.01 0.92352 0.00017	24.40 0.98930 0.00023
93.20 0.85848 0.00012	41.61 0.92985 0.00017	24.80 0.99205 0.00023
94.50 0.85863 0.00012	44.21 0.93477 0.00016	25.20 0.99538 0.00022
97.10 0.85958 0.00012	46.81 0.93924 0.00016	25.60 0.99892 0.00022
98.40 0.85969 0.00012	49.41 0.94320 0.00016	26.00 1.00199 0.00023
99.70 0.85984 0.00012	52.01 0.94606 0.00016	26.40 1.00463 0.00022
101.00 0.86016 0.00012	52.60 0.94665 0.00016	26.80 1.00691 0.00022
		27.20 1.01012 0.00022

25	30	32
14.20 0.92521 0.00029	12.00 0.92328 0.00032	11.40 0.92195 0.00032
14.60 0.93603 0.00029	12.10 0.92654 0.00032	11.50 0.92608 0.00033
14.80 0.94100 0.00030	12.20 0.93038 0.00032	11.60 0.93009 0.00032
15.00 0.94588 0.00028	12.30 0.93413 0.00032	11.70 0.93331 0.00033
15.20 0.94982 0.00029	12.40 0.93767 0.00032	11.80 0.93823 0.00033
15.40 0.95512 0.00028	12.50 0.94092 0.00032	11.90 0.94174 0.00033
15.60 0.95990 0.00029	12.60 0.94351 0.00032	12.00 0.94573 0.00032
15.80 0.96381 0.00028	12.70 0.94784 0.00032	12.10 0.94879 0.00033
16.00 0.96848 0.00028	12.80 0.95022 0.00031	12.20 0.95219 0.00033
16.40 0.97707 0.00028	12.90 0.95320 0.00031	12.30 0.95629 0.00032
16.80 0.98500 0.00028	13.00 0.95687 0.00031	12.40 0.96032 0.00033
17.00 0.98849 0.00028	13.10 0.96042 0.00032	12.50 0.96403 0.00032
17.20 0.99251 0.00028	13.20 0.96352 0.00031	12.60 0.96668 0.00031
17.40 0.99580 0.00028	13.30 0.96696 0.00032	12.70 0.97005 0.00032
17.60 1.00007 0.00029	13.50 0.97232 0.00032	12.80 0.97348 0.00032
17.80 1.00303 0.00028	13.70 0.97869 0.00031	13.10 0.98339 0.00032
18.00 1.00629 0.00028	13.80 0.98147 0.00031	13.20 0.98642 0.00032
18.20 1.00947 0.00028	13.90 0.98405 0.00031	13.30 0.99046 0.00033
18.40 1.01339 0.00027	14.00 0.98749 0.00031	13.40 0.99245 0.00032
18.50 1.01520 0.00027	14.10 0.99076 0.00033	13.50 0.99584 0.00033
	14.20 0.99285 0.00032	13.70 1.00204 0.00033

14.30 0.99566 0.00031	13.80 1.00516 0.00032
14.40 0.99884 0.00032	13.90 1.00844 0.00032
14.50 1.00060 0.00032	14.00 1.01132 0.00032
14.60 1.00422 0.00031	14.10 1.01334 0.00032
14.70 1.00661 0.00032	14.20 1.01686 0.00032
14.80 1.00917 0.00031	
14.90 1.01210 0.00031	
15.10 1.01709 0.00031	

35	40	50
10.70 0.92126 0.00034	9.90 0.92310 0.00035	8.85 0.92495 0.00039
10.80 0.92597 0.00035	10.00 0.92838 0.00036	8.90 0.92840 0.00038
10.90 0.93078 0.00033	10.10 0.93390 0.00036	8.95 0.93069 0.00038
11.00 0.93437 0.00034	10.20 0.93846 0.00035	9.35 0.95585 0.00038
11.10 0.93897 0.00034	10.30 0.94381 0.00036	9.40 0.95816 0.00038
11.20 0.94327 0.00034	10.40 0.94859 0.00035	9.45 0.96024 0.00038
11.30 0.94718 0.00033	10.50 0.95367 0.00035	9.50 0.96423 0.00039
11.40 0.95120 0.00033	10.60 0.95820 0.00035	9.55 0.96704 0.00040
11.50 0.95505 0.00035	10.70 0.96288 0.00036	9.60 0.96986 0.00039
11.70 0.96457 0.00034	10.90 0.97197 0.00037	9.65 0.97284 0.00038
11.80 0.96750 0.00033	11.00 0.97680 0.00035	9.70 0.97456 0.00037
11.90 0.97144 0.00035	11.10 0.98157 0.00035	9.75 0.97756 0.00039
12.00 0.97563 0.00034	11.20 0.98392 0.00035	9.80 0.98085 0.00038
12.10 0.97887 0.00034	11.30 0.99003 0.00036	9.85 0.98289 0.00038
12.30 0.98584 0.00033	11.40 0.99415 0.00035	9.95 0.98813 0.00038
12.40 0.98957 0.00034	11.50 0.99781 0.00035	10.00 0.99062 0.00037
12.50 0.99327 0.00034	11.60 1.00228 0.00036	10.05 0.99385 0.00039
12.60 0.99689 0.00033	11.70 1.00644 0.00035	10.10 0.99653 0.00037
12.70 1.00113 0.00033	11.80 1.01033 0.00035	10.15 0.99980 0.00038
12.80 1.00385 0.00033	12.00 1.01839 0.00034	10.20 1.00234 0.00038
12.90 1.00769 0.00032		10.25 1.00488 0.00037
13.00 1.01048 0.00033		10.30 1.00770 0.00038
13.10 1.01445 0.00034		10.35 1.00892 0.00039
13.20 1.01717 0.00033		10.40 1.01227 0.00037
		10.45 1.01496 0.00038

60	70	80
8.50 0.94661 0.00041	7.70 0.92165 0.00041	7.40 0.92331 0.00043
8.55 0.94951 0.00040	7.75 0.92646 0.00041	7.45 0.92704 0.00041
8.60 0.95380 0.00040	7.80 0.93030 0.00041	7.50 0.93238 0.00042
8.65 0.95668 0.00040	7.85 0.93324 0.00042	7.55 0.93608 0.00041
8.75 0.96361 0.00039	7.90 0.93734 0.00041	7.60 0.93986 0.00041
8.80 0.96653 0.00040	7.95 0.94068 0.00042	7.65 0.94378 0.00043
8.90 0.97288 0.00040	8.00 0.94485 0.00040	7.70 0.94799 0.00042
8.95 0.97650 0.00041	8.05 0.94817 0.00041	7.75 0.95167 0.00043
9.05 0.98203 0.00040	8.10 0.95257 0.00041	7.80 0.95519 0.00042
9.10 0.98563 0.00040	8.15 0.95561 0.00041	7.85 0.95917 0.00043

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9.15 0.98851 0.00041	8.20 0.95929 0.00041	7.90 0.96259 0.00042
9.20 0.99159 0.00040	8.25 0.96253 0.00041	7.95 0.96650 0.00042
9.30 0.99756 0.00039	8.30 0.96638 0.00041	8.00 0.97046 0.00043
9.40 1.00341 0.00040	8.35 0.96955 0.00041	8.05 0.97481 0.00043
9.45 1.00698 0.00039	8.40 0.97294 0.00040	8.10 0.97749 0.00043
9.50 1.00953 0.00039	8.45 0.97723 0.00042	8.15 0.98149 0.00042
9.60 1.01500 0.00039	8.55 0.98392 0.00042	8.20 0.98467 0.00041
9.65 1.01832 0.00040	8.60 0.98690 0.00041	8.25 0.98895 0.00043
	8.65 0.99099 0.00041	8.30 0.99233 0.00042
	8.70 0.99383 0.00042	8.35 0.99645 0.00043
	8.80 1.00057 0.00042	8.40 0.99963 0.00042
	8.85 1.00377 0.00041	8.45 1.00254 0.00042
	8.90 1.00740 0.00039	8.50 1.00635 0.00043
	8.95 1.01064 0.00042	8.65 1.01784 0.00041
	9.00 1.01274 0.00040	8.70 1.02094 0.00042
	9.05 1.01670 0.00042	
	9.10 1.01975 0.00042	

90	100	118
7.25 0.93172 0.00042	6.95 0.92290 0.00043	6.70 0.92303 0.00044
7.30 0.93599 0.00042	7.00 0.92788 0.00043	6.75 0.92848 0.00045
7.35 0.93995 0.00043	7.05 0.93169 0.00041	6.80 0.93225 0.00044
7.40 0.94472 0.00043	7.10 0.93611 0.00042	6.85 0.93686 0.00044
7.45 0.94783 0.00044	7.15 0.94066 0.00044	6.90 0.94167 0.00045
7.50 0.95175 0.00042	7.20 0.94380 0.00043	6.95 0.94591 0.00044
7.55 0.95614 0.00042	7.25 0.94860 0.00044	7.00 0.95106 0.00044
7.60 0.96055 0.00044	7.30 0.95368 0.00044	7.05 0.95519 0.00044
7.65 0.96394 0.00042	7.35 0.95763 0.00043	7.10 0.95935 0.00044
7.70 0.96818 0.00043	7.40 0.96093 0.00043	7.15 0.96302 0.00043
7.75 0.97205 0.00043	7.45 0.96529 0.00043	7.20 0.96832 0.00043
7.80 0.97587 0.00042	7.50 0.96933 0.00042	7.25 0.97194 0.00045
7.85 0.98061 0.00043	7.60 0.97636 0.00044	7.30 0.97604 0.00044
7.90 0.98366 0.00042	7.65 0.98269 0.00044	7.35 0.98080 0.00045
8.00 0.99156 0.00043	7.75 0.98948 0.00043	7.40 0.98468 0.00043
8.05 0.99522 0.00044	7.80 0.99355 0.00043	7.45 0.98922 0.00044
8.10 0.99877 0.00043	7.85 0.99699 0.00044	7.50 0.99264 0.00044
8.15 1.00238 0.00043	7.90 1.00175 0.00042	7.55 0.99683 0.00045
8.20 1.00547 0.00042	7.95 1.00407 0.00042	7.60 1.00106 0.00044
8.25 1.00922 0.00043	8.00 1.00789 0.00043	7.65 1.00498 0.00044
8.30 1.01295 0.00042	8.05 1.01192 0.00045	7.70 1.00928 0.00045
8.35 1.01755 0.00042	8.10 1.01545 0.00045	7.80 1.01790 0.00044
8.40 1.02060 0.00042	8.15 1.01985 0.00044	
	8.20 1.02304 0.00043	

130	150	200
6.50 0.91684 0.00044	6.45 0.92765 0.00045	6.10 0.91649 0.00046
6.55 0.92129 0.00044	6.50 0.93216 0.00045	6.15 0.92163 0.00046
6.60 0.92615 0.00044	6.55 0.93739 0.00045	6.20 0.92656 0.00045
6.65 0.93016 0.00044	6.60 0.94249 0.00047	6.25 0.93119 0.00045
6.70 0.93550 0.00044	6.70 0.95111 0.00045	6.30 0.93562 0.00047
6.75 0.94008 0.00045	6.75 0.95524 0.00046	6.35 0.94126 0.00047
6.80 0.94538 0.00045	6.80 0.96019 0.00045	6.40 0.94616 0.00046
6.90 0.95398 0.00044	6.85 0.96499 0.00045	6.45 0.95118 0.00046
6.95 0.95831 0.00046	6.90 0.96941 0.00045	6.50 0.95649 0.00046
7.00 0.96193 0.00046	6.95 0.97391 0.00045	6.55 0.96162 0.00044
7.15 0.97527 0.00044	7.00 0.97814 0.00046	6.60 0.96511 0.00047
7.20 0.97935 0.00045	7.10 0.98625 0.00045	6.65 0.97043 0.00047
7.25 0.98517 0.00045	7.15 0.98991 0.00045	6.70 0.97349 0.00047
7.30 0.98793 0.00044	7.20 0.99569 0.00046	6.80 0.98320 0.00048
7.35 0.99299 0.00046	7.25 0.99949 0.00046	6.85 0.98768 0.00047
7.45 1.00097 0.00046	7.30 1.00423 0.00045	6.90 0.99198 0.00047
7.50 1.00536 0.00045	7.35 1.00837 0.00045	7.05 1.00552 0.00045
7.55 1.00939 0.00044	7.45 1.01615 0.00044	7.10 1.01048 0.00046
7.60 1.01321 0.00044	7.50 1.02026 0.00046	7.15 1.01375 0.00047
7.65 1.01736 0.00045		7.20 1.01905 0.00046
7.70 1.02158 0.00044		

235	250	353
6.00 0.91572 0.00046	6.00 0.91785 0.00046	6.00 0.92405 0.00045
6.10 0.92485 0.00046	6.05 0.92252 0.00045	6.05 0.92925 0.00047
6.15 0.93035 0.00045	6.10 0.92754 0.00045	6.10 0.93295 0.00048
6.20 0.93535 0.00048	6.25 0.94304 0.00045	6.20 0.94214 0.00047
6.30 0.94681 0.00045	6.30 0.94746 0.00047	6.25 0.94708 0.00047
6.35 0.95002 0.00046	6.35 0.95239 0.00047	6.35 0.95659 0.00048
6.45 0.96007 0.00047	6.40 0.95712 0.00046	6.40 0.96234 0.00046
6.50 0.96464 0.00046	6.45 0.96190 0.00045	6.50 0.97157 0.00047
6.55 0.96872 0.00047	6.50 0.96710 0.00046	6.60 0.97941 0.00046
6.60 0.97348 0.00046	6.60 0.97611 0.00047	6.65 0.98460 0.00047
6.65 0.97774 0.00047	6.65 0.97977 0.00049	6.70 0.98885 0.00049
6.70 0.98379 0.00046	6.70 0.98511 0.00046	6.75 0.99326 0.00047
6.75 0.98736 0.00047	6.75 0.98998 0.00046	6.80 0.99771 0.00047
6.80 0.99245 0.00046	6.80 0.99403 0.00047	6.85 1.00160 0.00046
6.85 0.99687 0.00047	6.85 0.99852 0.00046	6.95 1.01079 0.00047
6.90 1.00084 0.00046	6.90 1.00336 0.00046	7.00 1.01525 0.00047
6.95 1.00534 0.00047	7.00 1.01159 0.00047	7.05 1.01963 0.00046
7.00 1.01001 0.00047	7.05 1.01644 0.00047	7.10 1.02331 0.00048
7.05 1.01407 0.00046	7.10 1.02085 0.00047	
7.10 1.01798 0.00046		

470	475	480
6.00 0.91568 0.00046	6.10 0.92414 0.00047	6.15 0.92807 0.00047
6.05 0.92062 0.00046	6.15 0.92928 0.00047	6.20 0.93218 0.00046
6.10 0.92525 0.00047	6.20 0.93313 0.00046	6.50 0.95920 0.00048
6.15 0.92999 0.00046	6.25 0.93708 0.00047	6.85 0.98969 0.00047
6.20 0.93343 0.00046	6.30 0.94239 0.00045	6.95 0.99759 0.00049
6.25 0.93771 0.00047	6.35 0.94728 0.00047	7.00 1.00157 0.00048
6.30 0.94281 0.00048	6.40 0.95138 0.00047	7.05 1.00670 0.00047
6.35 0.94784 0.00047	6.50 0.95960 0.00048	7.10 1.01057 0.00048
6.50 0.96109 0.00048	6.55 0.96392 0.00045	7.15 1.01531 0.00047
6.60 0.96894 0.00047	6.60 0.96887 0.00047	7.20 1.01786 0.00048
6.65 0.97330 0.00047	6.70 0.97723 0.00048	
6.70 0.97866 0.00047	6.80 0.98613 0.00047	
6.75 0.98226 0.00047	6.90 0.99359 0.00047	
6.85 0.99134 0.00046	6.95 0.99898 0.00047	
6.90 0.99616 0.00047	7.00 1.00302 0.00047	
7.00 1.00387 0.00047	7.05 1.00661 0.00047	
7.05 1.00786 0.00047	7.10 1.01154 0.00047	
7.10 1.01205 0.00048	7.20 1.01879 0.00047	
7.15 1.01628 0.00046		

486	0
6.10 0.92213 0.00046	
6.15 0.92705 0.00046	
6.25 0.93598 0.00047	
6.30 0.94050 0.00045	
6.35 0.94445 0.00046	
6.40 0.94984 0.00046	
6.45 0.95386 0.00047	
6.55 0.96294 0.00047	
6.60 0.96737 0.00046	
6.65 0.97056 0.00045	
6.70 0.97592 0.00047	
6.75 0.98058 0.00048	
6.80 0.98481 0.00047	
6.85 0.98883 0.00048	
6.90 0.99240 0.00047	
6.95 0.99686 0.00045	
7.00 1.00118 0.00046	
7.05 1.00442 0.00047	
7.10 1.00984 0.00047	
7.20 1.01609 0.00047	

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12	15	20
24.00 0.92920 0.00017	13.50 0.92586 0.00024	9.60 0.92316 0.00030
25.70 0.93678 0.00016	13.80 0.93197 0.00023	9.70 0.92766 0.00030
27.40 0.94295 0.00016	14.10 0.93757 0.00024	9.80 0.93220 0.00030
29.10 0.94769 0.00015	14.40 0.94304 0.00022	9.90 0.93703 0.00030
30.80 0.95226 0.00015	14.70 0.94792 0.00023	10.00 0.94162 0.00030
32.50 0.95618 0.00014	15.00 0.95294 0.00023	10.10 0.94551 0.00029
34.20 0.95952 0.00014	15.30 0.95766 0.00022	10.20 0.94953 0.00030
35.90 0.96215 0.00013	15.60 0.96267 0.00022	10.30 0.95340 0.00030
37.60 0.96497 0.00014	15.90 0.96713 0.00022	10.40 0.95752 0.00030
39.30 0.96685 0.00014	16.20 0.97079 0.00022	10.50 0.96124 0.00029
41.00 0.96909 0.00013	16.50 0.97488 0.00022	10.60 0.96454 0.00029
42.70 0.97074 0.00013	16.80 0.97895 0.00021	10.70 0.96975 0.00029
44.40 0.97240 0.00013	17.10 0.98219 0.00022	10.80 0.97254 0.00029
46.10 0.97402 0.00012	17.40 0.98587 0.00022	10.90 0.97626 0.00029
47.80 0.97489 0.00012	17.70 0.98890 0.00021	11.00 0.97979 0.00029
49.50 0.97651 0.00012	18.00 0.99211 0.00021	11.10 0.98341 0.00029
51.20 0.97744 0.00012	18.30 0.99537 0.00021	11.20 0.98665 0.00028
52.90 0.97805 0.00012	18.60 0.99855 0.00021	11.30 0.99010 0.00029
54.60 0.97885 0.00012	18.90 1.00147 0.00021	11.40 0.99375 0.00029
56.30 0.97994 0.00012	19.20 1.00417 0.00020	11.50 0.99685 0.00029
58.00 0.98053 0.00012	19.50 1.00727 0.00020	11.60 0.99982 0.00028
59.20 0.98118 0.00012	19.80 1.00941 0.00020	11.70 1.00263 0.00029
	20.10 1.01194 0.00020	11.80 1.00588 0.00028
	20.20 1.01247 0.00020	11.90 1.00926 0.00028
		12.00 1.01217 0.00027
		12.10 1.01498 0.00028

25	30	32
8.10 0.92090 0.00035	7.30 0.91913 0.00037	7.10 0.92156 0.00037
8.15 0.92378 0.00035	7.35 0.92382 0.00036	7.15 0.92556 0.00037
8.20 0.92730 0.00035	7.40 0.92772 0.00038	7.20 0.93052 0.00037
8.25 0.93074 0.00034	7.45 0.93152 0.00037	7.25 0.93507 0.00037
8.30 0.93383 0.00034	7.50 0.93548 0.00036	7.30 0.93889 0.00037
8.35 0.93632 0.00033	7.55 0.93933 0.00036	7.35 0.94324 0.00037
8.40 0.94000 0.00034	7.60 0.94387 0.00037	7.40 0.94747 0.00038
8.45 0.94224 0.00034	7.65 0.94805 0.00037	7.45 0.95102 0.00038
8.50 0.94673 0.00033	7.70 0.95157 0.00036	7.50 0.95592 0.00037
8.55 0.95016 0.00034	7.75 0.95586 0.00037	7.55 0.96011 0.00038
8.60 0.95269 0.00034	7.80 0.95938 0.00037	7.60 0.96367 0.00038
8.65 0.95521 0.00033	7.85 0.96272 0.00036	7.65 0.96756 0.00037
8.70 0.95860 0.00034	7.90 0.96653 0.00036	7.70 0.97155 0.00037
8.75 0.96143 0.00033	7.95 0.97034 0.00036	7.75 0.97468 0.00036
8.80 0.96417 0.00033	8.00 0.97403 0.00037	7.80 0.97978 0.00038
8.85 0.96711 0.00033	8.05 0.97737 0.00036	7.85 0.98312 0.00038
8.90 0.96980 0.00034	8.10 0.98084 0.00036	7.90 0.98700 0.00036
8.95 0.97262 0.00033	8.15 0.98430 0.00036	7.95 0.99087 0.00037

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9.00 0.97549 0.00033	8.20 0.98774 0.00036	8.00 0.99402 0.00037
9.05 0.97884 0.00033	8.25 0.99143 0.00036	8.05 0.99806 0.00037
9.10 0.98132 0.00033	8.30 0.99388 0.00035	8.10 1.00127 0.00037
9.15 0.98404 0.00033	8.35 0.99777 0.00037	8.15 1.00536 0.00036
9.20 0.98584 0.00034	8.40 1.00111 0.00036	8.20 1.00795 0.00037
9.25 0.98891 0.00034	8.45 1.00441 0.00035	8.25 1.01199 0.00037
9.30 0.99156 0.00034	8.50 1.00825 0.00036	8.30 1.01564 0.00036
9.35 0.99406 0.00033	8.55 1.01122 0.00036	8.35 1.01825 0.00036
9.40 0.99702 0.00032	8.60 1.01420 0.00035	8.40 1.02198 0.00036
9.45 1.00003 0.00033	8.65 1.01739 0.00035	
9.50 1.00256 0.00033	8.70 1.02047 0.00036	
9.55 1.00460 0.00032		
9.60 1.00700 0.00033		
9.65 1.00960 0.00032		
9.70 1.01160 0.00032		
9.75 1.01499 0.00032		
9.80 1.01639 0.00032		

35	40	50
6.80 0.91994 0.00038	6.40 0.91475 0.00041	6.00 0.92167 0.00044
6.85 0.92408 0.00040	6.45 0.91980 0.00039	6.05 0.92685 0.00042
6.90 0.92956 0.00039	6.50 0.92534 0.00040	6.10 0.93415 0.00043
6.95 0.93394 0.00038	6.55 0.93032 0.00041	6.15 0.93920 0.00042
7.00 0.93896 0.00038	6.60 0.93649 0.00041	6.20 0.94560 0.00043
7.05 0.94323 0.00038	6.65 0.94035 0.00040	6.25 0.95180 0.00043
7.10 0.94804 0.00039	6.70 0.94729 0.00040	6.30 0.95763 0.00042
7.15 0.95289 0.00039	6.75 0.95165 0.00040	6.35 0.96338 0.00043
7.20 0.95673 0.00038	6.80 0.95659 0.00040	6.40 0.96954 0.00042
7.25 0.96131 0.00038	6.85 0.96131 0.00041	6.45 0.97474 0.00042
7.30 0.96499 0.00038	6.90 0.96612 0.00041	6.50 0.98003 0.00042
7.35 0.96966 0.00039	6.95 0.97164 0.00040	6.55 0.98572 0.00042
7.40 0.97435 0.00039	7.00 0.97603 0.00040	6.60 0.99152 0.00042
7.45 0.97845 0.00038	7.05 0.98039 0.00040	6.65 0.99645 0.00043
7.50 0.98206 0.00038	7.10 0.98556 0.00039	6.70 1.00226 0.00043
7.55 0.98742 0.00039	7.15 0.99010 0.00040	6.75 1.00768 0.00042
7.60 0.99110 0.00038	7.20 0.99520 0.00040	6.80 1.01209 0.00043
7.65 0.99446 0.00037	7.25 0.99913 0.00039	6.85 1.01753 0.00043
7.70 0.99890 0.00040	7.30 1.00391 0.00040	6.90 1.02213 0.00039
7.75 1.00284 0.00040	7.35 1.00814 0.00040	
7.80 1.00624 0.00037	7.40 1.01284 0.00040	
7.85 1.00954 0.00038	7.45 1.01668 0.00039	
7.90 1.01430 0.00038	7.50 1.02163 0.00040	
7.95 1.01780 0.00038		
8.00 1.02201 0.00038		

60	70	80
5.70 0.92088 0.00044	5.50 0.92097 0.00046	5.30 0.91317 0.00046
5.75 0.92813 0.00042	5.55 0.92879 0.00046	5.35 0.92084 0.00046
5.80 0.93426 0.00045	5.60 0.93479 0.00046	5.40 0.92852 0.00047
5.85 0.94146 0.00043	5.65 0.94302 0.00046	5.45 0.93643 0.00047
5.90 0.94797 0.00044	5.70 0.94997 0.00046	5.50 0.94329 0.00047
5.95 0.95413 0.00045	5.75 0.95627 0.00046	5.55 0.95100 0.00047
6.00 0.96067 0.00045	5.80 0.96357 0.00045	5.60 0.95863 0.00047
6.05 0.96676 0.00045	5.85 0.97080 0.00046	5.65 0.96505 0.00046
6.10 0.97377 0.00044	5.90 0.97688 0.00046	5.70 0.97277 0.00045
6.15 0.97949 0.00045	5.95 0.98379 0.00045	5.75 0.97976 0.00047
6.20 0.98585 0.00044	6.00 0.98970 0.00046	5.80 0.98660 0.00047
6.25 0.99107 0.00043	6.05 0.99594 0.00046	5.85 0.99339 0.00046
6.30 0.99701 0.00043	6.10 1.00276 0.00044	5.90 1.00039 0.00047
6.35 1.00375 0.00045	6.15 1.00893 0.00045	5.95 1.00670 0.00046
6.40 1.00946 0.00044	6.20 1.01524 0.00046	6.00 1.01394 0.00046
6.45 1.01416 0.00046	6.25 1.02179 0.00047	6.05 1.02057 0.00046
6.50 1.02086 0.00043	6.30 1.02809 0.00048	6.10 1.02712 0.00046

90	100	118
5.20 0.91518 0.00048	5.10 0.91198 0.00050	5.00 0.91535 0.00047
5.25 0.92305 0.00047	5.15 0.92054 0.00048	5.05 0.92471 0.00049
5.30 0.93103 0.00048	5.20 0.92940 0.00049	5.10 0.93323 0.00050
5.35 0.93855 0.00048	5.25 0.93741 0.00048	5.15 0.94011 0.00049
5.40 0.94593 0.00047	5.30 0.94503 0.00048	5.20 0.94784 0.00049
5.45 0.95454 0.00048	5.35 0.95329 0.00048	5.25 0.95786 0.00049
5.50 0.96189 0.00046	5.40 0.96101 0.00048	5.30 0.96441 0.00050
5.55 0.96865 0.00048	5.45 0.96841 0.00048	5.35 0.97248 0.00049
5.60 0.97698 0.00048	5.50 0.97561 0.00049	5.40 0.98071 0.00049
5.65 0.98447 0.00048	5.55 0.98329 0.00050	5.45 0.98751 0.00049
5.70 0.99066 0.00048	5.60 0.99063 0.00048	5.50 0.99590 0.00049
5.75 0.99727 0.00046	5.65 0.99804 0.00048	5.55 1.00376 0.00049
5.80 1.00450 0.00047	5.70 1.00529 0.00048	5.60 1.01147 0.00047
5.85 1.01092 0.00047	5.75 1.01173 0.00049	5.65 1.01844 0.00049
5.90 1.01915 0.00047	5.80 1.02026 0.00048	5.70 1.02640 0.00049
5.95 1.02592 0.00047	5.85 1.02566 0.00047	
6.00 1.03135 0.00048	5.90 1.03287 0.00047	

130	150	200
4.90 0.90796 0.00049	4.80 0.90462 0.00050	4.70 0.90660 0.00051
4.95 0.91769 0.00049	4.85 0.91366 0.00050	4.75 0.91458 0.00049
5.00 0.92685 0.00047	4.90 0.92231 0.00050	4.80 0.92409 0.00050
5.05 0.93436 0.00048	4.95 0.93090 0.00050	4.85 0.93330 0.00052
5.10 0.94299 0.00050	5.00 0.93991 0.00049	4.90 0.94141 0.00050
5.15 0.95142 0.00050	5.05 0.94798 0.00049	4.95 0.95118 0.00052
5.20 0.95967 0.00050	5.10 0.95658 0.00051	5.00 0.95843 0.00050
5.25 0.96734 0.00050	5.15 0.96490 0.00050	5.05 0.96764 0.00051

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5.30 0.97616 0.00049	5.20 0.97329 0.00050	5.10 0.97617 0.00050
5.35 0.98324 0.00050	5.25 0.98100 0.00051	5.15 0.98410 0.00050
5.40 0.99116 0.00049	5.30 0.98933 0.00049	5.20 0.99275 0.00050
5.45 0.99980 0.00048	5.35 0.99670 0.00049	5.25 1.00107 0.00049
5.50 1.00765 0.00049	5.40 1.00515 0.00049	5.30 1.00982 0.00050
5.55 1.01464 0.00048	5.45 1.01193 0.00051	5.35 1.01730 0.00050
5.60 1.02281 0.00050	5.50 1.02026 0.00051	5.40 1.02502 0.00050
	5.55 1.02844 0.00050	
	5.60 1.03570 0.00051	

235	250	353
4.70 0.91318 0.00051	4.70 0.91539 0.00052	4.70 0.91962 0.00052
4.75 0.92214 0.00052	4.75 0.92442 0.00051	4.75 0.92877 0.00051
4.80 0.93176 0.00051	4.80 0.93332 0.00050	4.80 0.93847 0.00051
4.85 0.93988 0.00051	4.85 0.94289 0.00052	4.85 0.94684 0.00050
4.90 0.94963 0.00051	4.90 0.95166 0.00051	4.90 0.95550 0.00053
4.95 0.95806 0.00051	4.95 0.96024 0.00050	4.95 0.96419 0.00051
5.00 0.96623 0.00052	5.00 0.96826 0.00051	5.00 0.97326 0.00051
5.05 0.97581 0.00052	5.05 0.97697 0.00050	5.05 0.98093 0.00053
5.10 0.98395 0.00052	5.10 0.98618 0.00052	5.10 0.99009 0.00053
5.15 0.99280 0.00050	5.15 0.99405 0.00051	5.15 0.99890 0.00051
5.20 1.00021 0.00051	5.20 1.00254 0.00050	5.20 1.00646 0.00052
5.25 1.00882 0.00052	5.25 1.01072 0.00053	5.25 1.01572 0.00051
5.30 1.01641 0.00050	5.30 1.01840 0.00051	5.30 1.02236 0.00052
5.35 1.02383 0.00050	5.35 1.02700 0.00053	
5.40 1.03255 0.00050	5.40 1.03439 0.00050	

470	500	600
4.70 0.91607 0.00052	4.70 0.91447 0.00050	4.70 0.90481 0.00051
4.75 0.92540 0.00049	4.75 0.92389 0.00050	4.75 0.91289 0.00050
4.80 0.93423 0.00049	4.80 0.93221 0.00050	4.80 0.92213 0.00049
4.85 0.94437 0.00051	4.85 0.94141 0.00051	4.85 0.93074 0.00050
4.90 0.95169 0.00051	4.90 0.94912 0.00051	4.90 0.93926 0.00051
4.95 0.95982 0.00049	4.95 0.95786 0.00051	4.95 0.94712 0.00051
5.00 0.96849 0.00051	5.00 0.96640 0.00051	5.00 0.95662 0.00050
5.05 0.97633 0.00052	5.05 0.97507 0.00051	5.05 0.96354 0.00050
5.10 0.98518 0.00052	5.10 0.98279 0.00051	5.10 0.97224 0.00051
5.15 0.99424 0.00051	5.15 0.99064 0.00050	5.15 0.98053 0.00051
5.20 1.00046 0.00051	5.20 0.99976 0.00051	5.20 0.98788 0.00050
5.25 1.00997 0.00052	5.25 1.00724 0.00051	5.25 0.99545 0.00051
5.30 1.01691 0.00051	5.30 1.01498 0.00051	5.30 1.00440 0.00050
5.35 1.02577 0.00051	5.35 1.02258 0.00051	5.35 1.01112 0.00050
5.40 1.03257 0.00050	5.40 1.03056 0.00052	5.40 1.01876 0.00051
		5.45 1.02634 0.00050
		5.50 1.03362 0.00051

605	610	615
4.70 0.90437 0.00051	4.80 0.92168 0.00050	4.80 0.92101 0.00049
4.75 0.91327 0.00052	4.85 0.92999 0.00051	4.85 0.92921 0.00049
4.80 0.92079 0.00050	4.90 0.93791 0.00049	4.90 0.93745 0.00050
4.85 0.93112 0.00051	4.95 0.94687 0.00051	4.95 0.94669 0.00050
4.90 0.93885 0.00049	5.00 0.95555 0.00050	5.00 0.95402 0.00049
4.95 0.94783 0.00051	5.05 0.96354 0.00050	5.05 0.96295 0.00051
5.00 0.95546 0.00051	5.10 0.97106 0.00050	5.10 0.97108 0.00050
5.05 0.96349 0.00051	5.15 0.98005 0.00050	5.15 0.97865 0.00050
5.10 0.97258 0.00050	5.20 0.98647 0.00052	5.20 0.98631 0.00050
5.15 0.98064 0.00051	5.25 0.99508 0.00051	5.25 0.99471 0.00052
5.20 0.98815 0.00051	5.30 1.00422 0.00051	5.30 1.00319 0.00051
5.25 0.99565 0.00050	5.35 1.00988 0.00050	5.35 1.00959 0.00049
5.30 1.00320 0.00051	5.40 1.01839 0.00050	5.40 1.01806 0.00050
5.35 1.01070 0.00051	5.45 1.02553 0.00050	5.45 1.02567 0.00050
5.40 1.01881 0.00051	5.50 1.03354 0.00051	5.50 1.03222 0.00050
5.45 1.02621 0.00050		
5.50 1.03316 0.00050		

620	625	629
4.80 0.92047 0.00050	4.80 0.91920 0.00051	4.80 0.91786 0.00051
4.85 0.92808 0.00050	4.85 0.92834 0.00050	4.85 0.92698 0.00050
4.90 0.93712 0.00049	4.90 0.93589 0.00050	4.90 0.93574 0.00050
4.95 0.94570 0.00051	4.95 0.94481 0.00052	4.95 0.94408 0.00051
5.00 0.95381 0.00050	5.00 0.95273 0.00050	5.00 0.95202 0.00049
5.05 0.96141 0.00050	5.05 0.96161 0.00049	5.05 0.96028 0.00051
5.10 0.96944 0.00050	5.10 0.96980 0.00050	5.10 0.96831 0.00051
5.15 0.97756 0.00050	5.15 0.97779 0.00050	5.15 0.97681 0.00050
5.20 0.98601 0.00050	5.20 0.98577 0.00050	5.20 0.98402 0.00049
5.25 0.99367 0.00051	5.25 0.99389 0.00051	5.25 0.99262 0.00051
5.30 1.00216 0.00050	5.30 1.00140 0.00051	5.30 1.00006 0.00051
5.35 1.00916 0.00049	5.35 1.00838 0.00051	5.35 1.00823 0.00051
5.40 1.01586 0.00051	5.40 1.01583 0.00050	5.40 1.01606 0.00051
5.45 1.02357 0.00051	5.45 1.02369 0.00051	5.45 1.02335 0.00051
5.50 1.03180 0.00050	5.50 1.03073 0.00051	5.50 1.03083 0.00051

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12	15	20
22.40 0.92872 0.00017	12.00 0.92665 0.00023	8.10 0.92409 0.00029
24.70 0.93861 0.00016	12.30 0.93259 0.00023	8.20 0.92888 0.00029
27.00 0.94637 0.00015	12.60 0.93815 0.00023	8.30 0.93411 0.00029
29.30 0.95260 0.00015	12.90 0.94365 0.00023	8.40 0.93828 0.00029
31.60 0.95745 0.00014	13.20 0.94889 0.00022	8.50 0.94217 0.00028
33.90 0.96173 0.00014	13.50 0.95379 0.00022	8.60 0.94607 0.00028
36.20 0.96496 0.00013	13.80 0.95841 0.00022	8.70 0.95045 0.00029
38.50 0.96814 0.00013	14.10 0.96291 0.00021	8.80 0.95473 0.00029
40.80 0.97037 0.00013	14.40 0.96719 0.00021	8.90 0.95846 0.00029
43.10 0.97257 0.00013	14.70 0.97155 0.00022	9.00 0.96259 0.00028
45.40 0.97430 0.00012	15.00 0.97537 0.00021	9.10 0.96690 0.00028
47.70 0.97594 0.00012	15.30 0.97900 0.00021	9.20 0.96996 0.00028
50.00 0.97740 0.00012	15.60 0.98255 0.00021	9.30 0.97388 0.00028
52.30 0.97909 0.00012	15.90 0.98611 0.00021	9.40 0.97736 0.00028
54.60 0.98049 0.00011	16.20 0.98999 0.00021	9.50 0.98118 0.00028
56.90 0.98071 0.00012	16.50 0.99258 0.00021	9.60 0.98460 0.00028
59.20 0.98202 0.00011	16.80 0.99580 0.00020	9.70 0.98742 0.00027
61.50 0.98261 0.00011	17.10 0.99885 0.00020	9.80 0.99141 0.00029
63.80 0.98327 0.00011	17.40 1.00152 0.00020	9.90 0.99452 0.00027
66.10 0.98364 0.00011	17.70 1.00441 0.00020	10.00 0.99795 0.00028
68.40 0.98478 0.00011	18.00 1.00738 0.00019	10.10 1.00063 0.00027
69.40 0.98457 0.00011	18.30 1.00877 0.00020	10.20 1.00410 0.00028
	18.60 1.01221 0.00019	10.30 1.00725 0.00027
		10.40 1.00948 0.00027
		10.50 1.01299 0.00027
		10.60 1.01604 0.00026

25	30	32
6.60 0.92290 0.00032	5.80 0.92216 0.00036	5.50 0.91449 0.00036
6.65 0.92556 0.00033	5.85 0.92531 0.00035	5.55 0.91973 0.00036
6.70 0.92885 0.00033	5.90 0.92933 0.00036	5.60 0.92417 0.00036
6.75 0.93243 0.00032	5.95 0.93349 0.00035	5.65 0.92845 0.00037
6.80 0.93553 0.00032	6.00 0.93818 0.00035	5.70 0.93283 0.00037
6.85 0.93875 0.00033	6.05 0.94219 0.00036	5.75 0.93807 0.00036
6.90 0.94210 0.00033	6.10 0.94631 0.00035	5.80 0.94127 0.00036
6.95 0.94540 0.00033	6.15 0.94963 0.00034	5.85 0.94566 0.00037
7.00 0.94867 0.00033	6.20 0.95411 0.00035	5.90 0.94974 0.00037
7.05 0.95127 0.00032	6.25 0.95802 0.00036	5.95 0.95420 0.00037
7.10 0.95474 0.00032	6.30 0.96052 0.00035	6.00 0.95827 0.00037
7.15 0.95716 0.00032	6.35 0.96542 0.00034	6.05 0.96231 0.00036
7.20 0.96008 0.00032	6.40 0.96915 0.00035	6.10 0.96558 0.00035
7.25 0.96339 0.00033	6.45 0.97204 0.00036	6.15 0.97031 0.00037
7.30 0.96574 0.00032	6.50 0.97637 0.00035	6.20 0.97400 0.00036
7.35 0.96918 0.00033	6.55 0.97928 0.00034	6.25 0.97796 0.00036
7.40 0.97195 0.00031	6.60 0.98306 0.00035	6.30 0.98237 0.00036
7.45 0.97429 0.00032	6.65 0.98690 0.00034	6.35 0.98553 0.00035

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7.50 0.97707 0.00032	6.70 0.99029 0.00033	6.40 0.98927 0.00036
7.55 0.97991 0.00032	6.75 0.99291 0.00034	6.45 0.99336 0.00036
7.60 0.98299 0.00032	6.80 0.99657 0.00035	6.50 0.99653 0.00035
7.65 0.98584 0.00031	6.85 1.00052 0.00035	6.55 1.00025 0.00035
7.70 0.98800 0.00031	6.90 1.00361 0.00036	6.60 1.00415 0.00035
7.75 0.99046 0.00032	6.95 1.00715 0.00034	6.65 1.00691 0.00036
7.80 0.99293 0.00032	7.00 1.01007 0.00035	6.70 1.01147 0.00035
7.85 0.99576 0.00031	7.05 1.01307 0.00036	6.75 1.01474 0.00035
7.90 0.99902 0.00032	7.10 1.01600 0.00035	6.80 1.01788 0.00035
7.95 1.00119 0.00032		
8.00 1.00381 0.00033		
8.05 1.00641 0.00031		
8.10 1.00859 0.00032		
8.15 1.01177 0.00031		
8.20 1.01259 0.00030		
8.25 1.01586 0.00031		
8.30 1.01855 0.00031		

35	40	50
5.30 0.92225 0.00038	4.90 0.91852 0.00038	4.50 0.92560 0.00042
5.35 0.92720 0.00038	4.95 0.92382 0.00038	4.55 0.93140 0.00040
5.40 0.93146 0.00037	5.00 0.92907 0.00039	4.60 0.93831 0.00042
5.45 0.93718 0.00038	5.05 0.93415 0.00038	4.65 0.94454 0.00040
5.50 0.94107 0.00037	5.10 0.93890 0.00039	4.70 0.94972 0.00041
5.55 0.94670 0.00038	5.15 0.94457 0.00039	4.75 0.95629 0.00041
5.60 0.95033 0.00038	5.20 0.94965 0.00038	4.80 0.96171 0.00040
5.65 0.95550 0.00037	5.25 0.95568 0.00038	4.85 0.96798 0.00041
5.70 0.96033 0.00037	5.30 0.96004 0.00040	4.90 0.97286 0.00040
5.75 0.96492 0.00037	5.35 0.96490 0.00038	4.95 0.97875 0.00042
5.80 0.96832 0.00038	5.40 0.96911 0.00038	5.00 0.98479 0.00040
5.85 0.97269 0.00038	5.45 0.97467 0.00038	5.05 0.99028 0.00041
5.90 0.97719 0.00037	5.50 0.97942 0.00038	5.10 0.99634 0.00041
5.95 0.98119 0.00037	5.55 0.98359 0.00038	5.15 1.00054 0.00041
6.00 0.98600 0.00037	5.60 0.98866 0.00039	5.20 1.00609 0.00042
6.05 0.98932 0.00037	5.65 0.99367 0.00038	5.25 1.01187 0.00041
6.10 0.99305 0.00037	5.70 0.99697 0.00038	5.30 1.01635 0.00040
6.15 0.99749 0.00036	5.75 1.00244 0.00039	
6.20 1.00109 0.00037	5.80 1.00619 0.00038	
6.25 1.00530 0.00036	5.85 1.01111 0.00039	
6.30 1.00970 0.00037	5.90 1.01587 0.00038	
6.35 1.01322 0.00037	5.95 1.01997 0.00039	
6.40 1.01764 0.00037	6.00 1.02394 0.00038	

60	70	80
4.10 0.91209 0.00043	3.90 0.91288 0.00044	3.80 0.91984 0.00045
4.15 0.91867 0.00044	3.95 0.91989 0.00044	3.85 0.92856 0.00045
4.20 0.92632 0.00042	4.00 0.92743 0.00045	3.90 0.93576 0.00045

4.25 0.93347 0.00043	4.05 0.93424 0.00043	3.95 0.94291 0.00047
4.30 0.93925 0.00042	4.10 0.94157 0.00044	4.00 0.95056 0.00045
4.35 0.94628 0.00043	4.15 0.94852 0.00044	4.05 0.95724 0.00044
4.40 0.95248 0.00044	4.20 0.95543 0.00043	4.10 0.96553 0.00045
4.45 0.96012 0.00043	4.25 0.96206 0.00044	4.15 0.97182 0.00045
4.50 0.96603 0.00043	4.30 0.96904 0.00045	4.20 0.97922 0.00044
4.55 0.97198 0.00043	4.35 0.97574 0.00045	4.25 0.98686 0.00044
4.60 0.97908 0.00043	4.40 0.98337 0.00044	4.30 0.99274 0.00045
4.65 0.98380 0.00041	4.45 0.98955 0.00044	4.35 1.00018 0.00044
4.70 0.99091 0.00044	4.50 0.99638 0.00044	4.40 1.00671 0.00046
4.75 0.99559 0.00043	4.55 1.00242 0.00044	4.45 1.01325 0.00045
4.80 1.00295 0.00042	4.60 1.00865 0.00043	4.50 1.01987 0.00044
4.85 1.00902 0.00042	4.65 1.01496 0.00044	
4.90 1.01443 0.00043	4.70 1.02140 0.00043	
4.95 1.02088 0.00043		
5.00 1.02562 0.00042		

90	100	118
3.70 0.92235 0.00047	2.90 0.79474 0.00044	2.60 0.75259 0.00046
3.75 0.93019 0.00046	2.92 0.79860 0.00045	2.62 0.75745 0.00046
3.80 0.93825 0.00046	2.94 0.80251 0.00045	2.64 0.76098 0.00047
3.85 0.94639 0.00045	2.96 0.80629 0.00047	2.66 0.76557 0.00047
3.90 0.95305 0.00045	2.98 0.80945 0.00046	2.68 0.77014 0.00045
3.95 0.96201 0.00045	3.00 0.81349 0.00046	2.70 0.77316 0.00047
4.00 0.96932 0.00047	3.02 0.81796 0.00046	2.72 0.77784 0.00046
4.05 0.97623 0.00046	3.04 0.82213 0.00046	2.74 0.78212 0.00046
4.10 0.98282 0.00045	3.06 0.82505 0.00046	2.76 0.78546 0.00046
4.15 0.99102 0.00047	3.08 0.82898 0.00045	2.78 0.79006 0.00047
4.20 0.99710 0.00046	3.10 0.83254 0.00045	2.80 0.79427 0.00047
4.25 1.00479 0.00047	3.12 0.83657 0.00045	2.82 0.79793 0.00045
4.30 1.01209 0.00047	3.14 0.84080 0.00046	2.84 0.80248 0.00046
4.35 1.01825 0.00045	3.16 0.84442 0.00045	2.86 0.80661 0.00046
4.40 1.02576 0.00046	3.18 0.84715 0.00046	2.88 0.81023 0.00045
	3.20 0.85167 0.00046	2.90 0.81381 0.00046
	3.22 0.85535 0.00047	2.92 0.81899 0.00046
	3.24 0.85783 0.00046	2.94 0.82206 0.00046
	3.26 0.86219 0.00046	2.96 0.82683 0.00047
	3.28 0.86558 0.00045	2.98 0.82988 0.00047
	3.30 0.86955 0.00047	3.00 0.83396 0.00047
	3.32 0.87237 0.00045	
	3.34 0.87614 0.00047	
	3.36 0.87974 0.00046	
	3.38 0.88305 0.00046	
	3.40 0.88725 0.00046	

130	150	200
2.20 0.67421 0.00045	3.30 0.91452 0.00049	3.20 0.91820 0.00050
2.22 0.67870 0.00044	3.35 0.92348 0.00048	3.25 0.92760 0.00050
2.24 0.68306 0.00044	3.40 0.93179 0.00049	3.30 0.93615 0.00049
2.26 0.68835 0.00045	3.45 0.94061 0.00048	3.35 0.94515 0.00049
2.28 0.69272 0.00044	3.50 0.94964 0.00048	3.40 0.95406 0.00049
2.30 0.69705 0.00046	3.55 0.95813 0.00048	3.45 0.96251 0.00048
2.32 0.70197 0.00045	3.60 0.96753 0.00048	3.50 0.97085 0.00049
2.34 0.70621 0.00045	3.65 0.97438 0.00048	3.55 0.97897 0.00050
2.36 0.71050 0.00045	3.70 0.98352 0.00047	3.60 0.98767 0.00049
2.38 0.71521 0.00046	3.75 0.99132 0.00049	3.65 0.99637 0.00049
2.40 0.71976 0.00045	3.80 0.99963 0.00048	3.70 1.00517 0.00048
2.42 0.72410 0.00046	3.85 1.00718 0.00048	3.75 1.01223 0.00048
2.44 0.72839 0.00045	3.90 1.01413 0.00047	3.80 1.02021 0.00048
2.46 0.73339 0.00047	3.95 1.02257 0.00047	
2.48 0.73724 0.00047	4.00 1.02891 0.00048	
2.50 0.74202 0.00046		

235	250	353
3.10 0.90803 0.00050	3.10 0.91107 0.00050	3.10 0.91706 0.00051
3.15 0.91797 0.00049	3.15 0.91955 0.00050	3.15 0.92796 0.00050
3.20 0.92668 0.00048	3.20 0.92838 0.00048	3.20 0.93596 0.00049
3.25 0.93540 0.00048	3.25 0.93847 0.00047	3.25 0.94494 0.00049
3.30 0.94423 0.00049	3.30 0.94701 0.00049	3.30 0.95336 0.00051
3.35 0.95347 0.00050	3.35 0.95636 0.00049	3.35 0.96234 0.00050
3.40 0.96296 0.00047	3.40 0.96524 0.00050	3.40 0.97104 0.00049
3.45 0.96983 0.00049	3.45 0.97317 0.00050	3.45 0.98005 0.00050
3.50 0.97996 0.00049	3.50 0.98228 0.00049	3.50 0.98731 0.00049
3.55 0.98835 0.00050	3.55 0.99037 0.00050	3.55 0.99647 0.00050
3.60 0.99631 0.00050	3.60 0.99775 0.00048	3.60 1.00444 0.00050
3.65 1.00439 0.00050	3.65 1.00590 0.00049	3.65 1.01260 0.00050
3.70 1.01203 0.00049	3.70 1.01555 0.00049	3.70 1.02045 0.00049
3.75 1.02072 0.00049	3.75 1.02329 0.00051	
3.80 1.02968 0.00050	3.80 1.03096 0.00049	

470	500	600
3.10 0.91670 0.00049	3.10 0.91483 0.00049	3.20 0.92441 0.00049
3.15 0.92485 0.00049	3.15 0.92382 0.00048	3.25 0.93307 0.00048
3.20 0.93419 0.00050	3.20 0.93297 0.00051	3.30 0.94124 0.00050
3.25 0.94305 0.00049	3.25 0.94252 0.00049	3.35 0.95020 0.00049
3.30 0.95124 0.00050	3.30 0.95114 0.00049	3.40 0.95919 0.00050
3.35 0.96039 0.00049	3.35 0.95890 0.00049	3.45 0.96809 0.00048
3.40 0.96823 0.00049	3.40 0.96668 0.00050	3.50 0.97442 0.00050
3.45 0.97687 0.00049	3.45 0.97577 0.00049	3.55 0.98287 0.00050
3.50 0.98580 0.00049	3.50 0.98391 0.00050	3.60 0.99136 0.00048
3.55 0.99390 0.00050	3.55 0.99249 0.00050	3.65 0.99809 0.00050
3.60 1.00223 0.00049	3.60 1.00088 0.00050	3.70 1.00689 0.00049

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3.65 1.01034 0.00051	3.65 1.00758 0.00049	3.75 1.01377 0.00049
3.70 1.01831 0.00050	3.70 1.01565 0.00050	3.80 1.02211 0.00049
3.75 1.02490 0.00050	3.75 1.02340 0.00050	
3.80 1.03264 0.00050	3.80 1.03066 0.00050	

605	610	615
3.20 0.92549 0.00049	3.20 0.92464 0.00049	3.20 0.92420 0.00049
3.25 0.93346 0.00049	3.25 0.93361 0.00049	3.25 0.93299 0.00049
3.30 0.94174 0.00048	3.30 0.94192 0.00050	3.30 0.94057 0.00049
3.35 0.95050 0.00049	3.35 0.95010 0.00051	3.35 0.95011 0.00049
3.40 0.95821 0.00049	3.40 0.95787 0.00051	3.40 0.95893 0.00048
3.45 0.96750 0.00048	3.45 0.96672 0.00050	3.45 0.96573 0.00048
3.50 0.97413 0.00050	3.50 0.97370 0.00048	3.50 0.97377 0.00049
3.55 0.98275 0.00050	3.55 0.98346 0.00050	3.55 0.98250 0.00051
3.60 0.99078 0.00049	3.60 0.99043 0.00049	3.60 0.99009 0.00049
3.65 0.99752 0.00048	3.65 0.99799 0.00050	3.65 0.99772 0.00050
3.70 1.00584 0.00049	3.70 1.00590 0.00049	3.70 1.00523 0.00050
3.75 1.01421 0.00049	3.75 1.01326 0.00050	3.75 1.01244 0.00050
3.80 1.02173 0.00052	3.80 1.02111 0.00049	3.80 1.02077 0.00049

620	625	629
3.20 0.92388 0.00050	3.20 0.92281 0.00049	3.20 0.92316 0.00049
3.25 0.93165 0.00050	3.25 0.93125 0.00049	3.25 0.93153 0.00050
3.30 0.94090 0.00050	3.30 0.94042 0.00048	3.30 0.93872 0.00048
3.35 0.94898 0.00049	3.35 0.94775 0.00050	3.35 0.94738 0.00050
3.40 0.95770 0.00050	3.40 0.95740 0.00050	3.40 0.95647 0.00050
3.45 0.96509 0.00049	3.45 0.96441 0.00050	3.45 0.96399 0.00050
3.50 0.97257 0.00049	3.50 0.97228 0.00049	3.50 0.97116 0.00049
3.55 0.98128 0.00049	3.55 0.98074 0.00050	3.55 0.97927 0.00050
3.60 0.98928 0.00050	3.60 0.98745 0.00050	3.60 0.98791 0.00049
3.65 0.99666 0.00048	3.65 0.99558 0.00049	3.65 0.99596 0.00050
3.70 1.00423 0.00048	3.70 1.00417 0.00049	3.70 1.00266 0.00049
3.75 1.01176 0.00050	3.75 1.01163 0.00049	3.75 1.01137 0.00051
3.80 1.01904 0.00049	3.80 1.01931 0.00049	3.80 1.01873 0.00050
		3.85 1.02538 0.00048
		3.90 1.03301 0.00049

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12	15	20
21.20 0.92837 0.00016	10.90 0.92610 0.00022	7.00 0.92428 0.00027
26.30 0.94703 0.00015	11.20 0.93243 0.00022	7.10 0.92846 0.00027
31.40 0.95944 0.00014	11.50 0.93764 0.00021	7.20 0.93383 0.00027
36.50 0.96722 0.00013	11.80 0.94368 0.00021	7.30 0.93823 0.00027
41.60 0.97259 0.00013	12.10 0.94826 0.00021	7.40 0.94230 0.00027
46.70 0.97634 0.00012	12.40 0.95360 0.00020	7.50 0.94628 0.00027
51.80 0.97888 0.00012	12.70 0.95854 0.00020	7.60 0.95058 0.00027
56.90 0.98138 0.00011	13.00 0.96271 0.00021	7.70 0.95459 0.00027
62.00 0.98313 0.00011	13.30 0.96691 0.00021	7.80 0.95870 0.00028
67.10 0.98445 0.00011	13.60 0.97156 0.00020	7.90 0.96226 0.00027
72.20 0.98553 0.00010	13.90 0.97512 0.00020	8.00 0.96636 0.00027
77.30 0.98635 0.00011	14.20 0.97913 0.00020	8.10 0.97037 0.00027
82.40 0.98726 0.00010	14.50 0.98284 0.00020	8.20 0.97406 0.00027
87.50 0.98804 0.00010	14.80 0.98636 0.00019	8.30 0.97746 0.00026
92.60 0.98818 0.00010	15.10 0.98952 0.00020	8.40 0.98145 0.00026
97.70 0.98898 0.00010	15.40 0.99270 0.00019	8.50 0.98514 0.00026
102.80 0.98914 0.00010	15.70 0.99587 0.00019	8.60 0.98763 0.00025
107.90 0.98988 0.00010	16.00 0.99898 0.00019	8.70 0.99153 0.00027
113.00 0.98970 0.00010	16.30 1.00165 0.00019	8.80 0.99480 0.00026
118.10 0.99043 0.00010	16.60 1.00464 0.00019	8.90 0.99776 0.00026
123.20 0.99034 0.00010	16.90 1.00691 0.00019	9.00 1.00119 0.00025
123.60 0.99075 0.00010	17.20 1.00991 0.00019	9.10 1.00430 0.00026
	17.40 1.01103 0.00019	9.20 1.00696 0.00025
		9.30 1.01069 0.00025
		9.40 1.01360 0.00025
		9.50 1.01590 0.00026

25	30	32
5.50 0.92254 0.00030	4.70 0.92277 0.00032	4.50 0.92508 0.00033
5.55 0.92611 0.00030	4.75 0.92637 0.00032	4.55 0.92970 0.00033
5.60 0.92879 0.00031	4.80 0.93106 0.00033	4.60 0.93414 0.00033
5.65 0.93267 0.00031	4.85 0.93488 0.00032	4.65 0.93984 0.00033
5.70 0.93557 0.00030	4.90 0.93912 0.00033	4.70 0.94341 0.00033
5.75 0.93842 0.00030	4.95 0.94338 0.00033	4.75 0.94744 0.00033
5.80 0.94245 0.00030	5.00 0.94726 0.00032	4.80 0.95182 0.00034
5.85 0.94568 0.00030	5.05 0.95089 0.00033	4.85 0.95632 0.00034
5.90 0.94902 0.00031	5.10 0.95553 0.00032	4.90 0.95985 0.00034
5.95 0.95156 0.00030	5.15 0.95902 0.00033	4.95 0.96452 0.00033
6.00 0.95482 0.00029	5.20 0.96297 0.00032	5.00 0.96832 0.00033
6.05 0.95737 0.00030	5.25 0.96665 0.00033	5.05 0.97197 0.00033
6.10 0.96098 0.00030	5.30 0.97042 0.00033	5.10 0.97564 0.00032
6.15 0.96372 0.00030	5.35 0.97399 0.00032	5.15 0.98009 0.00034
6.20 0.96708 0.00030	5.40 0.97753 0.00031	5.20 0.98405 0.00034
6.25 0.96909 0.00029	5.45 0.98140 0.00031	5.25 0.98767 0.00033
6.30 0.97308 0.00029	5.50 0.98468 0.00032	5.30 0.99166 0.00034
6.35 0.97596 0.00030	5.55 0.98775 0.00032	5.35 0.99523 0.00033

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6.40 0.97807 0.00029	5.60 0.99225 0.00032	5.40 0.99949 0.00033
6.45 0.98075 0.00029	5.65 0.99554 0.00032	5.45 1.00243 0.00033
6.50 0.98371 0.00030	5.70 0.99950 0.00031	5.50 1.00625 0.00032
6.55 0.98688 0.00029	5.75 1.00197 0.00032	5.55 1.01042 0.00032
6.60 0.98904 0.00030	5.80 1.00567 0.00032	5.60 1.01407 0.00033
6.65 0.99180 0.00030	5.85 1.00903 0.00031	5.65 1.01704 0.00032
6.70 0.99454 0.00029	5.90 1.01241 0.00032	5.70 1.02070 0.00032
6.75 0.99682 0.00029	5.95 1.01557 0.00032	
6.80 0.99989 0.00028	6.00 1.01827 0.00032	
6.85 1.00169 0.00029		
6.90 1.00425 0.00030		
6.95 1.00695 0.00029		
7.00 1.00946 0.00029		
7.05 1.01238 0.00029		
7.10 1.01462 0.00029		

35	40	50
4.20 0.92501 0.00035	3.80 0.92069 0.00036	3.30 0.91890 0.00037
4.25 0.92924 0.00034	3.85 0.92649 0.00035	3.35 0.92556 0.00037
4.30 0.93392 0.00034	3.90 0.93157 0.00037	3.40 0.93236 0.00037
4.35 0.93887 0.00036	3.95 0.93802 0.00037	3.45 0.93793 0.00037
4.40 0.94341 0.00034	4.00 0.94336 0.00037	3.50 0.94425 0.00038
4.45 0.94829 0.00036	4.05 0.94874 0.00036	3.55 0.95084 0.00037
4.50 0.95289 0.00035	4.10 0.95278 0.00035	3.60 0.95656 0.00037
4.55 0.95729 0.00035	4.15 0.95822 0.00036	3.65 0.96330 0.00037
4.60 0.96206 0.00034	4.20 0.96406 0.00035	3.70 0.96848 0.00037
4.65 0.96658 0.00034	4.25 0.96866 0.00035	3.75 0.97521 0.00037
4.70 0.97099 0.00034	4.30 0.97377 0.00035	3.80 0.98014 0.00038
4.75 0.97610 0.00034	4.35 0.97866 0.00036	3.85 0.98589 0.00037
4.80 0.98005 0.00033	4.40 0.98370 0.00035	3.90 0.99159 0.00038
4.85 0.98425 0.00033	4.45 0.98834 0.00035	3.95 0.99729 0.00037
4.90 0.98831 0.00034	4.50 0.99322 0.00036	4.00 1.00244 0.00039
4.95 0.99267 0.00034	4.55 0.99795 0.00035	4.05 1.00864 0.00038
5.00 0.99645 0.00034	4.60 1.00198 0.00035	4.10 1.01345 0.00038
5.05 1.00122 0.00034	4.65 1.00698 0.00034	4.15 1.01938 0.00037
5.10 1.00525 0.00034	4.70 1.01153 0.00036	4.20 1.02387 0.00038
5.15 1.00890 0.00033	4.75 1.01577 0.00035	
5.20 1.01342 0.00034	4.80 1.02071 0.00035	
5.25 1.01659 0.00033		
5.30 1.02057 0.00033		

60	70	80
3.00 0.92071 0.00040	2.80 0.92382 0.00040	2.60 0.91831 0.00040
3.05 0.92771 0.00039	2.85 0.93150 0.00039	2.65 0.92690 0.00041
3.10 0.93478 0.00039	2.90 0.93860 0.00040	2.70 0.93483 0.00040
3.15 0.94183 0.00039	2.95 0.94699 0.00039	2.75 0.94227 0.00040
3.20 0.94871 0.00039	3.00 0.95416 0.00040	2.80 0.95063 0.00042

3.25 0.95538 0.00039	3.05 0.96062 0.00041	2.85 0.95824 0.00041
3.30 0.96160 0.00039	3.10 0.96760 0.00040	2.90 0.96543 0.00041
3.35 0.96876 0.00039	3.15 0.97516 0.00039	2.95 0.97291 0.00042
3.40 0.97567 0.00039	3.20 0.98202 0.00040	3.00 0.97989 0.00040
3.45 0.98188 0.00039	3.25 0.98878 0.00041	3.05 0.98811 0.00041
3.50 0.98798 0.00039	3.30 0.99525 0.00040	3.10 0.99468 0.00041
3.55 0.99491 0.00040	3.35 1.00159 0.00041	3.15 1.00155 0.00040
3.60 1.00082 0.00040	3.40 1.00913 0.00041	3.20 1.00885 0.00041
3.65 1.00647 0.00039	3.45 1.01530 0.00040	3.25 1.01555 0.00041
3.70 1.01251 0.00038	3.50 1.02180 0.00040	3.30 1.02212 0.00041
3.75 1.01872 0.00038		
3.80 1.02393 0.00039		

90	100	118
2.50 0.92310 0.00041	2.40 0.92337 0.00042	2.20 0.91357 0.00042
2.55 0.93168 0.00041	2.45 0.93270 0.00042	2.25 0.92242 0.00043
2.60 0.94050 0.00042	2.50 0.94128 0.00041	2.30 0.93143 0.00044
2.65 0.94805 0.00042	2.55 0.94851 0.00041	2.35 0.94045 0.00042
2.70 0.95559 0.00042	2.60 0.95683 0.00042	2.40 0.94888 0.00042
2.75 0.96339 0.00042	2.65 0.96561 0.00042	2.45 0.95803 0.00042
2.80 0.97201 0.00041	2.70 0.97384 0.00043	2.50 0.96654 0.00042
2.85 0.97885 0.00042	2.75 0.98121 0.00042	2.55 0.97409 0.00042
2.90 0.98666 0.00041	2.80 0.98976 0.00041	2.60 0.98206 0.00041
2.95 0.99393 0.00041	2.85 0.99644 0.00041	2.65 0.99090 0.00043
3.00 1.00131 0.00041	2.90 1.00417 0.00042	2.70 0.99903 0.00043
3.05 1.00926 0.00041	2.95 1.01230 0.00042	2.75 1.00627 0.00043
3.10 1.01650 0.00041	3.00 1.01891 0.00043	2.80 1.01432 0.00044
		2.85 1.02246 0.00041
		2.90 1.02944 0.00044

130	150	200
2.10 0.90793 0.00043	2.00 0.90823 0.00044	1.90 0.92009 0.00043
2.15 0.91794 0.00042	2.05 0.91710 0.00043	1.95 0.92952 0.00043
2.20 0.92750 0.00043	2.10 0.92625 0.00044	2.00 0.93899 0.00043
2.25 0.93630 0.00042	2.15 0.93640 0.00044	2.05 0.94816 0.00044
2.30 0.94468 0.00043	2.20 0.94556 0.00043	2.10 0.95776 0.00044
2.35 0.95380 0.00043	2.25 0.95409 0.00042	2.15 0.96712 0.00044
2.40 0.96249 0.00043	2.30 0.96310 0.00043	2.20 0.97604 0.00044
2.45 0.97112 0.00043	2.35 0.97225 0.00044	2.25 0.98474 0.00045
2.50 0.98021 0.00043	2.40 0.98092 0.00044	2.30 0.99323 0.00044
2.55 0.98790 0.00044	2.45 0.98962 0.00043	2.35 1.00114 0.00044
2.60 0.99630 0.00043	2.50 0.99776 0.00043	2.40 1.00958 0.00044
2.65 1.00433 0.00044	2.55 1.00626 0.00043	2.45 1.01871 0.00044
2.70 1.01266 0.00042	2.60 1.01448 0.00045	2.50 1.02694 0.00045
2.75 1.02038 0.00044	2.65 1.02190 0.00045	
2.80 1.02766 0.00042	2.70 1.02962 0.00044	

235	250	353
1.80 0.91478 0.00045	1.80 0.91956 0.00044	1.70 0.92046 0.00045
1.85 0.92388 0.00044	1.85 0.92897 0.00045	1.75 0.93094 0.00045
1.90 0.93338 0.00044	1.90 0.93845 0.00046	1.80 0.93969 0.00043
1.95 0.94399 0.00044	1.95 0.94756 0.00043	1.85 0.94956 0.00044
2.00 0.95290 0.00043	2.00 0.95700 0.00045	1.90 0.95874 0.00045
2.05 0.96194 0.00043	2.05 0.96634 0.00045	1.95 0.96757 0.00044
2.10 0.97115 0.00044	2.10 0.97607 0.00045	2.00 0.97673 0.00045
2.15 0.98002 0.00044	2.15 0.98440 0.00045	2.05 0.98630 0.00046
2.20 0.99036 0.00045	2.20 0.99426 0.00045	2.10 0.99453 0.00043
2.25 0.99851 0.00045	2.25 1.00125 0.00046	2.15 1.00314 0.00046
2.30 1.00656 0.00044	2.30 1.01099 0.00044	2.20 1.01196 0.00044
2.35 1.01428 0.00044	2.35 1.01973 0.00045	2.25 1.02051 0.00045
2.40 1.02310 0.00044	2.40 1.02757 0.00044	2.30 1.02826 0.00046

470	500	600
1.60 0.91196 0.00046	1.60 0.91441 0.00045	1.60 0.91754 0.00045
1.65 0.92181 0.00042	1.65 0.92466 0.00044	1.65 0.92545 0.00045
1.70 0.93149 0.00045	1.70 0.93388 0.00045	1.70 0.93561 0.00046
1.75 0.94119 0.00045	1.75 0.94269 0.00044	1.75 0.94378 0.00045
1.80 0.95045 0.00044	1.80 0.95234 0.00046	1.80 0.95336 0.00045
1.85 0.95898 0.00046	1.85 0.96103 0.00044	1.85 0.96211 0.00044
1.90 0.96869 0.00046	1.90 0.96976 0.00045	1.90 0.97026 0.00044
1.95 0.97734 0.00046	1.95 0.97879 0.00044	1.95 0.97855 0.00045
2.00 0.98595 0.00046	2.00 0.98741 0.00045	2.00 0.98759 0.00044
2.05 0.99373 0.00044	2.05 0.99506 0.00044	2.05 0.99542 0.00046
2.10 1.00291 0.00045	2.10 1.00382 0.00046	2.10 1.00343 0.00046
2.15 1.01064 0.00046	2.15 1.01178 0.00045	2.15 1.01167 0.00043
2.20 1.01888 0.00045	2.20 1.01983 0.00045	2.20 1.01916 0.00046

605	610	615
1.60 0.91781 0.00044	1.60 0.91740 0.00044	1.60 0.91767 0.00045
1.65 0.92645 0.00045	1.65 0.92666 0.00045	1.65 0.92651 0.00045
1.70 0.93552 0.00044	1.70 0.93464 0.00045	1.70 0.93587 0.00045
1.75 0.94475 0.00044	1.75 0.94452 0.00044	1.75 0.94450 0.00045
1.80 0.95328 0.00044	1.80 0.95352 0.00045	1.80 0.95323 0.00044
1.85 0.96214 0.00045	1.85 0.96133 0.00045	1.85 0.96226 0.00045
1.90 0.97049 0.00046	1.90 0.97036 0.00045	1.90 0.97090 0.00045
1.95 0.97843 0.00045	1.95 0.97837 0.00043	1.95 0.97960 0.00045
2.00 0.98654 0.00045	2.00 0.98686 0.00043	2.00 0.98769 0.00045
2.05 0.99488 0.00045	2.05 0.99571 0.00045	2.05 0.99553 0.00045
2.10 1.00349 0.00046	2.10 1.00388 0.00045	2.10 1.00377 0.00045
2.15 1.01199 0.00045	2.15 1.01123 0.00046	2.15 1.01211 0.00045
2.20 1.01903 0.00045	2.20 1.01964 0.00045	2.20 1.01895 0.00046

620	625	629
1.60 0.91797 0.00044	1.60 0.91748 0.00044	1.60 0.91767 0.00044
1.65 0.92592 0.00044	1.65 0.92679 0.00045	1.65 0.92583 0.00045
1.70 0.93530 0.00045	1.70 0.93585 0.00045	1.70 0.93519 0.00045
1.75 0.94394 0.00046	1.75 0.94396 0.00045	1.75 0.94444 0.00045
1.80 0.95337 0.00045	1.80 0.95284 0.00045	1.80 0.95282 0.00045
1.85 0.96109 0.00045	1.85 0.96205 0.00044	1.85 0.96175 0.00045
1.90 0.97101 0.00044	1.90 0.96944 0.00045	1.90 0.97050 0.00046
1.95 0.97844 0.00046	1.95 0.97869 0.00045	1.95 0.97864 0.00046
2.00 0.98743 0.00045	2.00 0.98720 0.00044	2.00 0.98742 0.00045
2.05 0.99431 0.00046	2.05 0.99561 0.00046	2.05 0.99515 0.00046
2.10 1.00310 0.00044	2.10 1.00319 0.00045	2.10 1.00303 0.00046
2.15 1.01096 0.00046	2.15 1.01085 0.00045	2.15 1.01094 0.00045
2.20 1.01890 0.00044	2.20 1.01857 0.00045	2.20 1.01929 0.00045

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12	15	20
33.70 0.91022 0.00014	16.50 0.92638 0.00021	10.80 0.92501 0.00028
35.20 0.91316 0.00014	17.10 0.93452 0.00021	10.90 0.92897 0.00028
36.70 0.91503 0.00014	17.70 0.94105 0.00021	11.00 0.93220 0.00028
38.20 0.91736 0.00014	18.30 0.94765 0.00021	11.10 0.93578 0.00028
39.70 0.91934 0.00014	18.90 0.95282 0.00020	11.20 0.93895 0.00028
41.20 0.92099 0.00013	19.50 0.95820 0.00020	11.30 0.94252 0.00028
42.70 0.92265 0.00013	20.10 0.96346 0.00020	11.40 0.94624 0.00027
44.20 0.92424 0.00013	20.70 0.96802 0.00019	11.50 0.94906 0.00027
45.70 0.92510 0.00013	21.30 0.97221 0.00020	11.60 0.95226 0.00028
47.20 0.92639 0.00014	21.90 0.97613 0.00019	11.70 0.95538 0.00028
48.70 0.92764 0.00013	22.50 0.98009 0.00019	11.80 0.95862 0.00027
50.20 0.92861 0.00013	23.10 0.98342 0.00018	11.90 0.96137 0.00029
51.70 0.92940 0.00013	23.70 0.98655 0.00019	12.00 0.96416 0.00029
53.20 0.93031 0.00012	24.30 0.98973 0.00018	12.10 0.96678 0.00027
54.70 0.93092 0.00012	24.90 0.99249 0.00018	12.20 0.97014 0.00028
56.20 0.93198 0.00013	25.50 0.99502 0.00018	12.30 0.97323 0.00027
57.70 0.93236 0.00013	26.10 0.99762 0.00017	12.40 0.97557 0.00027
59.20 0.93284 0.00012	26.70 1.00029 0.00017	12.50 0.97789 0.00027
60.70 0.93377 0.00012	27.30 1.00229 0.00017	12.60 0.98082 0.00027
62.20 0.93373 0.00012	27.90 1.00479 0.00017	12.70 0.98352 0.00027
63.70 0.93448 0.00012	28.50 1.00693 0.00017	12.80 0.98617 0.00027
64.80 0.93497 0.00012	29.10 1.00848 0.00017	12.90 0.98864 0.00027
	29.70 1.01020 0.00017	13.00 0.99076 0.00027
	29.90 1.01060 0.00016	13.10 0.99335 0.00026
		13.20 0.99583 0.00028
		13.30 0.99868 0.00027
		13.40 0.99997 0.00026
		13.50 1.00310 0.00026
		13.60 1.00488 0.00027
		13.70 1.00782 0.00027
		13.80 1.00913 0.00026
		13.90 1.01156 0.00025
		14.00 1.01347 0.00026
25	30	32
8.90 0.92306 0.00033	7.90 0.92016 0.00034	7.60 0.91757 0.00037
9.00 0.92918 0.00033	7.95 0.92363 0.00036	7.65 0.92076 0.00037
9.10 0.93412 0.00032	8.00 0.92725 0.00036	7.70 0.92530 0.00037
9.20 0.93965 0.00032	8.05 0.93031 0.00036	7.75 0.92882 0.00036
9.30 0.94489 0.00032	8.10 0.93424 0.00035	7.80 0.93249 0.00038
9.40 0.95008 0.00032	8.15 0.93769 0.00036	7.85 0.93666 0.00036
9.50 0.95475 0.00033	8.20 0.94104 0.00035	7.90 0.94002 0.00036
9.60 0.95961 0.00031	8.25 0.94484 0.00036	7.95 0.94425 0.00037
9.70 0.96452 0.00032	8.30 0.94851 0.00035	8.00 0.94794 0.00036
9.80 0.96973 0.00031	8.35 0.95135 0.00034	8.05 0.95153 0.00036
9.90 0.97387 0.00031	8.40 0.95453 0.00036	8.10 0.95423 0.00036

10.00 0.97906 0.00031	8.45 0.95829 0.00035	8.15 0.95876 0.00036
10.10 0.98275 0.00031	8.50 0.96125 0.00035	8.20 0.96227 0.00036
10.20 0.98769 0.00031	8.55 0.96393 0.00035	8.25 0.96497 0.00036
10.30 0.99206 0.00031	8.60 0.96787 0.00035	8.30 0.96932 0.00036
10.40 0.99632 0.00032	8.65 0.97072 0.00035	8.35 0.97246 0.00037
10.50 1.00066 0.00031	8.70 0.97386 0.00035	8.40 0.97603 0.00036
10.60 1.00418 0.00032	8.75 0.97680 0.00035	8.45 0.97869 0.00037
10.70 1.00840 0.00031	8.80 0.97994 0.00034	8.50 0.98189 0.00037
10.80 1.01211 0.00030	8.85 0.98318 0.00035	8.55 0.98565 0.00035
10.90 1.01645 0.00032	8.90 0.98555 0.00035	8.60 0.98844 0.00035
	8.95 0.98878 0.00035	8.65 0.99137 0.00037
	9.00 0.99104 0.00034	8.70 0.99474 0.00037
	9.05 0.99477 0.00034	8.75 0.99833 0.00037
	9.10 0.99789 0.00036	8.80 1.00135 0.00036
	9.15 1.00032 0.00035	8.85 1.00396 0.00035
	9.20 1.00334 0.00034	8.90 1.00764 0.00036
	9.25 1.00622 0.00034	8.95 1.00983 0.00035
	9.30 1.00859 0.00035	9.00 1.01368 0.00035
	9.35 1.01079 0.00035	9.05 1.01681 0.00035
	9.40 1.01430 0.00035	9.10 1.01915 0.00036
	9.45 1.01661 0.00035	
	9.50 1.01916 0.00034	

35	40	50
7.30 0.91909 0.00037	6.90 0.92009 0.00038	6.30 0.91278 0.00042
7.35 0.92366 0.00038	6.95 0.92582 0.00040	6.35 0.91848 0.00041
7.40 0.92800 0.00037	7.00 0.93002 0.00039	6.40 0.92387 0.00042
7.45 0.93267 0.00038	7.05 0.93439 0.00038	6.45 0.92918 0.00042
7.50 0.93662 0.00037	7.10 0.93970 0.00040	6.50 0.93493 0.00041
7.55 0.94064 0.00037	7.15 0.94387 0.00040	6.55 0.93984 0.00042
7.60 0.94375 0.00038	7.20 0.94852 0.00039	6.60 0.94579 0.00042
7.65 0.94848 0.00038	7.25 0.95346 0.00040	6.65 0.95212 0.00042
7.70 0.95346 0.00038	7.30 0.95786 0.00040	6.70 0.95673 0.00043
7.75 0.95669 0.00039	7.35 0.96218 0.00039	6.75 0.96146 0.00044
7.80 0.96049 0.00037	7.40 0.96632 0.00040	6.80 0.96676 0.00042
7.85 0.96465 0.00037	7.45 0.97070 0.00039	6.85 0.97269 0.00043
7.90 0.96783 0.00036	7.50 0.97460 0.00040	6.90 0.97855 0.00042
7.95 0.97228 0.00037	7.55 0.97893 0.00037	6.95 0.98177 0.00042
8.00 0.97560 0.00037	7.60 0.98373 0.00039	7.00 0.98682 0.00042
8.05 0.97935 0.00036	7.65 0.98822 0.00038	7.05 0.99209 0.00042
8.10 0.98342 0.00037	7.70 0.99142 0.00039	7.10 0.99706 0.00044
8.15 0.98667 0.00036	7.75 0.99587 0.00039	7.15 1.00240 0.00042
8.20 0.98991 0.00038	7.80 0.99938 0.00039	7.20 1.00660 0.00042
8.25 0.99401 0.00037	7.85 1.00398 0.00039	7.25 1.01129 0.00043
8.30 0.99697 0.00037	7.90 1.00759 0.00039	7.30 1.01591 0.00041
8.35 1.00015 0.00037	7.95 1.01181 0.00038	7.35 1.02047 0.00041
8.40 1.00343 0.00036	8.00 1.01620 0.00038	7.40 1.02503 0.00042
8.45 1.00769 0.00038	8.05 1.01885 0.00039	
8.50 1.01112 0.00037	8.10 1.02300 0.00039	
8.55 1.01442 0.00037		
8.60 1.01758 0.00036		

60	70	80
6.00 0.91463 0.00043	5.80 0.91819 0.00045	5.60 0.91182 0.00048
6.05 0.92098 0.00044	5.85 0.92462 0.00046	5.65 0.91939 0.00046
6.10 0.92743 0.00044	5.90 0.93143 0.00046	5.70 0.92684 0.00046
6.15 0.93378 0.00043	5.95 0.93811 0.00045	5.75 0.93462 0.00046
6.20 0.93996 0.00045	6.00 0.94428 0.00044	5.80 0.94103 0.00047
6.25 0.94638 0.00044	6.05 0.95050 0.00044	5.85 0.94754 0.00047
6.30 0.95193 0.00043	6.10 0.95813 0.00044	5.90 0.95470 0.00045
6.35 0.95758 0.00043	6.15 0.96372 0.00045	5.95 0.96094 0.00048
6.40 0.96432 0.00043	6.20 0.97012 0.00044	6.00 0.96809 0.00046
6.45 0.96965 0.00043	6.25 0.97583 0.00046	6.05 0.97505 0.00046
6.50 0.97573 0.00044	6.30 0.98219 0.00045	6.10 0.98142 0.00045
6.55 0.98100 0.00044	6.35 0.98897 0.00045	6.15 0.98734 0.00048
6.60 0.98640 0.00043	6.40 0.99379 0.00045	6.20 0.99424 0.00046
6.65 0.99191 0.00044	6.45 1.00046 0.00046	6.25 0.99890 0.00046
6.70 0.99773 0.00042	6.50 1.00544 0.00045	6.30 1.00634 0.00046
6.75 1.00252 0.00044	6.55 1.01146 0.00046	6.35 1.01227 0.00045
6.80 1.00863 0.00044	6.60 1.01763 0.00045	6.40 1.01853 0.00046
6.85 1.01343 0.00043	6.65 1.02359 0.00045	6.45 1.02418 0.00046
6.90 1.01861 0.00042	6.70 1.02847 0.00044	6.50 1.02958 0.00047

90	100	118
5.50 0.91626 0.00046	5.40 0.91501 0.00048	5.30 0.91846 0.00049
5.55 0.92440 0.00047	5.45 0.92287 0.00048	5.35 0.92779 0.00047
5.60 0.93153 0.00047	5.50 0.93139 0.00048	5.40 0.93552 0.00049
5.65 0.93733 0.00048	5.55 0.93795 0.00048	5.45 0.94318 0.00048
5.70 0.94611 0.00046	5.60 0.94557 0.00046	5.50 0.94989 0.00049
5.75 0.95336 0.00046	5.65 0.95270 0.00047	5.55 0.95795 0.00050
5.80 0.96036 0.00048	5.70 0.96063 0.00048	5.60 0.96644 0.00049
5.85 0.96692 0.00047	5.75 0.96718 0.00049	5.65 0.97239 0.00048
5.90 0.97336 0.00047	5.80 0.97435 0.00049	5.70 0.97987 0.00048
5.95 0.97945 0.00047	5.85 0.98217 0.00048	5.75 0.98743 0.00048
6.00 0.98723 0.00045	5.90 0.98869 0.00048	5.80 0.99454 0.00048
6.05 0.99272 0.00046	5.95 0.99510 0.00048	5.85 1.00160 0.00048
6.10 1.00023 0.00045	6.00 1.00258 0.00047	5.90 1.00848 0.00049
6.15 1.00540 0.00047	6.05 1.00850 0.00047	5.95 1.01571 0.00049
6.20 1.01379 0.00046	6.10 1.01546 0.00046	6.00 1.02228 0.00050
6.25 1.01961 0.00046	6.15 1.02158 0.00048	
6.30 1.02554 0.00046	6.20 1.02799 0.00048	

130	150	200
5.20 0.91368 0.00049	5.10 0.90938 0.00049	5.00 0.91120 0.00049
5.25 0.92169 0.00049	5.15 0.91805 0.00049	5.05 0.91910 0.00050
5.30 0.92954 0.00050	5.20 0.92693 0.00049	5.10 0.92820 0.00050

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5.35 0.93751 0.00050	5.25 0.93475 0.00048	5.15 0.93749 0.00051
5.40 0.94506 0.00048	5.30 0.94228 0.00049	5.20 0.94478 0.00050
5.45 0.95302 0.00050	5.35 0.94951 0.00050	5.25 0.95283 0.00052
5.50 0.96046 0.00049	5.40 0.95822 0.00049	5.30 0.96140 0.00052
5.55 0.96818 0.00049	5.45 0.96655 0.00049	5.35 0.96908 0.00051
5.60 0.97576 0.00048	5.50 0.97341 0.00051	5.40 0.97637 0.00052
5.65 0.98297 0.00048	5.55 0.98188 0.00048	5.45 0.98502 0.00050
5.70 0.99061 0.00050	5.60 0.98970 0.00049	5.50 0.99306 0.00051
5.75 0.99836 0.00049	5.65 0.99660 0.00049	5.55 1.00081 0.00051
5.80 1.00507 0.00049	5.70 1.00322 0.00049	5.60 1.00826 0.00051
5.85 1.01204 0.00050	5.75 1.01062 0.00048	5.65 1.01630 0.00050
5.90 1.01911 0.00049	5.80 1.01773 0.00051	5.70 1.02247 0.00050
5.95 1.02541 0.00050	5.85 1.02566 0.00050	
6.00 1.03251 0.00048	5.90 1.03229 0.00049	

235	250	353
5.00 0.91817 0.00051	5.00 0.91979 0.00051	5.00 0.92128 0.00053
5.05 0.92581 0.00052	5.05 0.92769 0.00050	5.05 0.92911 0.00050
5.10 0.93518 0.00050	5.10 0.93657 0.00049	5.10 0.93755 0.00050
5.15 0.94370 0.00049	5.15 0.94504 0.00052	5.15 0.94683 0.00050
5.20 0.95139 0.00048	5.20 0.95348 0.00051	5.20 0.95409 0.00050
5.25 0.96038 0.00052	5.25 0.96161 0.00050	5.25 0.96239 0.00052
5.30 0.96819 0.00051	5.30 0.96908 0.00050	5.30 0.97043 0.00051
5.35 0.97607 0.00051	5.35 0.97793 0.00049	5.35 0.97841 0.00051
5.40 0.98336 0.00051	5.40 0.98548 0.00049	5.40 0.98570 0.00051
5.45 0.99179 0.00050	5.45 0.99328 0.00052	5.45 0.99408 0.00051
5.50 0.99923 0.00051	5.50 1.00142 0.00050	5.50 1.00159 0.00051
5.55 1.00702 0.00051	5.55 1.00847 0.00051	5.55 1.00834 0.00050
5.60 1.01496 0.00052	5.60 1.01591 0.00050	5.60 1.01669 0.00051
5.65 1.02248 0.00050	5.65 1.02385 0.00051	5.65 1.02426 0.00053
5.70 1.02969 0.00051	5.70 1.03134 0.00049	5.70 1.03092 0.00051

470	500	510
5.00 0.91087 0.00050	5.00 0.90621 0.00050	5.00 0.90490 0.00050
5.05 0.91924 0.00049	5.05 0.91513 0.00051	5.05 0.91456 0.00050
5.10 0.92722 0.00050	5.10 0.92337 0.00050	5.10 0.92249 0.00051
5.15 0.93583 0.00050	5.15 0.93177 0.00050	5.15 0.93073 0.00050
5.20 0.94480 0.00050	5.20 0.94063 0.00049	5.20 0.93856 0.00051
5.25 0.95154 0.00051	5.25 0.94817 0.00050	5.25 0.94583 0.00051
5.30 0.95979 0.00053	5.30 0.95521 0.00050	5.30 0.95388 0.00050
5.35 0.96782 0.00051	5.35 0.96335 0.00050	5.35 0.96171 0.00049
5.40 0.97573 0.00050	5.40 0.97050 0.00050	5.40 0.97021 0.00050
5.45 0.98293 0.00051	5.45 0.97964 0.00051	5.45 0.97762 0.00049
5.50 0.99096 0.00051	5.50 0.98656 0.00051	5.50 0.98455 0.00051
5.55 0.99789 0.00050	5.55 0.99360 0.00051	5.55 0.99219 0.00052
5.60 1.00583 0.00051	5.60 1.00089 0.00051	5.60 0.99973 0.00052
5.65 1.01300 0.00051	5.65 1.00760 0.00051	5.65 1.00714 0.00050

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5.70 1.02041 0.00051	5.70 1.01579 0.00050	5.70 1.01401 0.00051
	5.75 1.02331 0.00052	5.75 1.02149 0.00051
	5.80 1.02973 0.00050	5.80 1.02809 0.00051

520	530	540
5.10 0.92109 0.00049	5.10 0.91887 0.00051	5.10 0.91808 0.00051
5.15 0.92923 0.00051	5.15 0.92727 0.00051	5.15 0.92596 0.00050
5.20 0.93699 0.00049	5.20 0.93455 0.00049	5.20 0.93439 0.00051
5.25 0.94455 0.00050	5.25 0.94341 0.00049	5.25 0.94169 0.00052
5.30 0.95284 0.00050	5.30 0.95059 0.00050	5.30 0.94862 0.00050
5.35 0.96030 0.00051	5.35 0.95812 0.00051	5.35 0.95664 0.00050
5.40 0.96898 0.00050	5.40 0.96730 0.00052	5.40 0.96458 0.00050
5.45 0.97610 0.00051	5.45 0.97399 0.00050	5.45 0.97232 0.00051
5.50 0.98291 0.00050	5.50 0.98123 0.00049	5.50 0.97977 0.00052
5.55 0.98991 0.00050	5.55 0.98894 0.00050	5.55 0.98696 0.00051
5.60 0.99785 0.00051	5.60 0.99611 0.00052	5.60 0.99510 0.00051
5.65 1.00493 0.00051	5.65 1.00309 0.00051	5.65 1.00134 0.00050
5.70 1.01240 0.00051	5.70 1.01179 0.00051	5.70 1.00990 0.00053
5.75 1.02026 0.00051	5.75 1.01797 0.00050	5.75 1.01641 0.00050
5.80 1.02710 0.00051	5.80 1.02505 0.00051	5.80 1.02292 0.00049

550	560
5.10 0.91558 0.00052	5.10 0.91450 0.00050
5.15 0.92375 0.00050	5.15 0.92269 0.00049
5.20 0.93197 0.00051	5.20 0.93154 0.00050
5.25 0.94024 0.00051	5.25 0.93847 0.00050
5.30 0.94707 0.00049	5.30 0.94571 0.00050
5.35 0.95495 0.00049	5.35 0.95361 0.00050
5.40 0.96322 0.00051	5.40 0.96103 0.00051
5.45 0.97120 0.00051	5.45 0.96982 0.00051
5.50 0.97806 0.00050	5.50 0.97734 0.00053
5.55 0.98671 0.00049	5.55 0.98440 0.00051
5.60 0.99292 0.00051	5.60 0.99131 0.00052
5.65 1.00073 0.00051	5.65 0.99880 0.00051
5.70 1.00814 0.00052	5.70 1.00542 0.00050
5.75 1.01470 0.00051	5.75 1.01329 0.00051
5.80 1.02199 0.00051	5.80 1.02000 0.00050
	5.85 1.02724 0.00051
	5.90 1.03393 0.00052

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12	15	20
33.90 0.91336 0.00014	15.00 0.92754 0.00021	9.20 0.92355 0.00027
34.40 0.91418 0.00014	15.60 0.93503 0.00021	9.30 0.92768 0.00028
34.90 0.91530 0.00014	16.20 0.94165 0.00021	9.40 0.93087 0.00027
35.40 0.91583 0.00014	16.80 0.94799 0.00020	9.50 0.93438 0.00027
35.90 0.91653 0.00014	17.40 0.95352 0.00020	9.60 0.93765 0.00028
36.40 0.91697 0.00014	18.00 0.95837 0.00020	9.70 0.94101 0.00027
36.90 0.91776 0.00014	18.60 0.96369 0.00020	9.80 0.94465 0.00028
37.40 0.91824 0.00014	19.20 0.96837 0.00019	9.90 0.94807 0.00027
37.90 0.91932 0.00014	19.80 0.97281 0.00019	10.00 0.95051 0.00027
38.40 0.91984 0.00014	20.40 0.97688 0.00019	10.10 0.95386 0.00027
38.90 0.92032 0.00013	21.00 0.97995 0.00018	10.20 0.95660 0.00026
39.40 0.92103 0.00013	21.60 0.98348 0.00018	10.30 0.95988 0.00027
39.90 0.92134 0.00013	22.20 0.98654 0.00019	10.40 0.96328 0.00027
40.40 0.92158 0.00013	22.80 0.98985 0.00018	10.50 0.96646 0.00027
40.90 0.92241 0.00013	23.40 0.99300 0.00017	10.60 0.96886 0.00027
41.40 0.92289 0.00013	24.00 0.99516 0.00018	10.70 0.97155 0.00027
41.90 0.92313 0.00013	24.60 0.99768 0.00017	10.80 0.97395 0.00026
42.40 0.92406 0.00013	25.20 1.00009 0.00017	10.90 0.97671 0.00027
42.90 0.92423 0.00013	25.80 1.00238 0.00017	11.00 0.97998 0.00026
43.40 0.92480 0.00013	26.40 1.00502 0.00016	11.10 0.98253 0.00026
43.90 0.92534 0.00013	27.00 1.00667 0.00017	11.20 0.98457 0.00027
44.40 0.92567 0.00013	27.60 1.00852 0.00017	11.30 0.98748 0.00026
44.90 0.92599 0.00013	28.20 1.01039 0.00016	11.40 0.98992 0.00026
	28.40 1.01073 0.00016	11.50 0.99252 0.00026
		11.60 0.99490 0.00026
		11.70 0.99707 0.00025
		11.80 0.99980 0.00026
		11.90 1.00188 0.00025
		12.00 1.00383 0.00027
		12.10 1.00666 0.00026
		12.20 1.00890 0.00026
		12.30 1.01047 0.00025
		12.40 1.01263 0.00024
25	30	32
7.30 0.92054 0.00032	6.40 0.92446 0.00034	6.10 0.92265 0.00035
7.40 0.92653 0.00031	6.45 0.92868 0.00034	6.15 0.92680 0.00036
7.50 0.93160 0.00032	6.50 0.93132 0.00034	6.20 0.93019 0.00036
7.60 0.93780 0.00032	6.55 0.93511 0.00034	6.25 0.93340 0.00035
7.70 0.94329 0.00033	6.60 0.93842 0.00035	6.30 0.93753 0.00034
7.80 0.94801 0.00031	6.65 0.94241 0.00034	6.35 0.94133 0.00035
7.90 0.95274 0.00031	6.70 0.94529 0.00034	6.40 0.94537 0.00035
8.00 0.95834 0.00031	6.75 0.94872 0.00034	6.45 0.94881 0.00035
8.10 0.96297 0.00031	6.80 0.95227 0.00036	6.50 0.95191 0.00035
8.20 0.96804 0.00031	6.85 0.95564 0.00034	6.55 0.95669 0.00036
8.30 0.97290 0.00031	6.90 0.95869 0.00035	6.60 0.95935 0.00036

8.40 0.97729 0.00032	6.95 0.96249 0.00034	6.65 0.96244 0.00034
8.50 0.98221 0.00030	7.00 0.96565 0.00034	6.70 0.96636 0.00036
8.60 0.98633 0.00031	7.05 0.96856 0.00034	6.75 0.96988 0.00035
8.70 0.99060 0.00031	7.10 0.97151 0.00034	6.80 0.97322 0.00035
8.80 0.99408 0.00031	7.15 0.97448 0.00035	6.85 0.97718 0.00035
8.90 0.99927 0.00031	7.20 0.97781 0.00034	6.90 0.98031 0.00035
9.00 1.00302 0.00030	7.25 0.98082 0.00034	6.95 0.98363 0.00034
9.10 1.00692 0.00030	7.30 0.98390 0.00035	7.00 0.98669 0.00034
9.20 1.01103 0.00030	7.35 0.98684 0.00033	7.05 0.98985 0.00035
9.30 1.01452 0.00031	7.40 0.99017 0.00034	7.10 0.99314 0.00035
	7.45 0.99243 0.00035	7.15 0.99611 0.00035
	7.50 0.99502 0.00033	7.20 0.99898 0.00035
	7.55 0.99880 0.00033	7.25 1.00181 0.00034
	7.60 1.00068 0.00034	7.30 1.00515 0.00034
	7.65 1.00444 0.00033	7.35 1.00838 0.00033
	7.70 1.00739 0.00033	7.40 1.01131 0.00035
	7.75 1.00989 0.00033	7.45 1.01461 0.00034
	7.80 1.01245 0.00033	7.50 1.01705 0.00034
	7.85 1.01521 0.00033	
	7.90 1.01758 0.00033	

35	40	50
5.80 0.92532 0.00037	5.30 0.91641 0.00038	4.80 0.92042 0.00040
5.85 0.92929 0.00037	5.35 0.92285 0.00038	4.85 0.92548 0.00041
5.90 0.93331 0.00038	5.40 0.92765 0.00038	4.90 0.93131 0.00041
5.95 0.93798 0.00037	5.45 0.93118 0.00039	4.95 0.93724 0.00041
6.00 0.94102 0.00036	5.50 0.93584 0.00038	5.00 0.94278 0.00040
6.05 0.94629 0.00036	5.55 0.94095 0.00037	5.05 0.94858 0.00038
6.10 0.94991 0.00037	5.60 0.94537 0.00038	5.10 0.95412 0.00041
6.15 0.95382 0.00036	5.65 0.95066 0.00038	5.15 0.95869 0.00041
6.20 0.95742 0.00036	5.70 0.95420 0.00037	5.20 0.96415 0.00040
6.25 0.96167 0.00036	5.75 0.95952 0.00038	5.25 0.96903 0.00041
6.30 0.96536 0.00035	5.80 0.96409 0.00037	5.30 0.97382 0.00041
6.35 0.96934 0.00036	5.85 0.96831 0.00038	5.35 0.97974 0.00041
6.40 0.97297 0.00035	5.90 0.97197 0.00038	5.40 0.98510 0.00040
6.45 0.97742 0.00036	5.95 0.97709 0.00038	5.45 0.98974 0.00039
6.50 0.98041 0.00036	6.00 0.98136 0.00037	5.50 0.99425 0.00041
6.55 0.98378 0.00036	6.05 0.98531 0.00039	5.55 0.99925 0.00040
6.60 0.98801 0.00036	6.10 0.98925 0.00037	5.60 1.00415 0.00041
6.65 0.99142 0.00036	6.15 0.99353 0.00037	5.65 1.00888 0.00040
6.70 0.99431 0.00036	6.20 0.99795 0.00037	5.70 1.01336 0.00040
6.75 0.99874 0.00036	6.25 1.00155 0.00038	5.75 1.01817 0.00040
6.80 1.00248 0.00036	6.30 1.00512 0.00039	5.80 1.02328 0.00040
6.85 1.00558 0.00035	6.35 1.00913 0.00038	
6.90 1.00905 0.00036	6.40 1.01307 0.00038	
6.95 1.01241 0.00035	6.45 1.01732 0.00037	
7.00 1.01580 0.00035	6.50 1.02062 0.00037	

60	70	80
4.40 0.91179 0.00042	4.20 0.91533 0.00043	4.10 0.92447 0.00044
4.45 0.91821 0.00043	4.25 0.92138 0.00044	4.15 0.93136 0.00045
4.50 0.92482 0.00042	4.30 0.92867 0.00042	4.20 0.93797 0.00045
4.55 0.93044 0.00042	4.35 0.93538 0.00044	4.25 0.94585 0.00044
4.60 0.93786 0.00043	4.40 0.94209 0.00043	4.30 0.95321 0.00044
4.65 0.94341 0.00042	4.45 0.94865 0.00045	4.35 0.95936 0.00044
4.70 0.94885 0.00042	4.50 0.95482 0.00043	4.40 0.96511 0.00046
4.75 0.95525 0.00041	4.55 0.96149 0.00043	4.45 0.97269 0.00045
4.80 0.96107 0.00043	4.60 0.96750 0.00043	4.50 0.97869 0.00044
4.85 0.96662 0.00041	4.65 0.97388 0.00042	4.55 0.98541 0.00044
4.90 0.97339 0.00042	4.70 0.98016 0.00043	4.60 0.99207 0.00044
4.95 0.97826 0.00042	4.75 0.98574 0.00044	4.65 0.99818 0.00044
5.00 0.98349 0.00041	4.80 0.99142 0.00044	4.70 1.00390 0.00044
5.05 0.99036 0.00043	4.85 0.99787 0.00044	4.75 1.01044 0.00043
5.10 0.99541 0.00043	4.90 1.00398 0.00044	4.80 1.01630 0.00044
5.15 1.00027 0.00041	4.95 1.01029 0.00043	4.85 1.02233 0.00045
5.20 1.00583 0.00041	5.00 1.01596 0.00043	4.90 1.02822 0.00045
5.25 1.01065 0.00040	5.05 1.02127 0.00044	
5.30 1.01608 0.00042	5.10 1.02660 0.00043	
5.35 1.02213 0.00041		
5.40 1.02649 0.00042		

90	100	118
3.90 0.91396 0.00045	3.80 0.91367 0.00046	3.70 0.91805 0.00046
3.95 0.92107 0.00044	3.85 0.92125 0.00045	3.75 0.92665 0.00046
4.00 0.92926 0.00045	3.90 0.92891 0.00044	3.80 0.93482 0.00046
4.05 0.93658 0.00044	3.95 0.93641 0.00045	3.85 0.94141 0.00046
4.10 0.94363 0.00046	4.00 0.94440 0.00047	3.90 0.94976 0.00047
4.15 0.94988 0.00045	4.05 0.95153 0.00046	3.95 0.95705 0.00046
4.20 0.95770 0.00045	4.10 0.95966 0.00046	4.00 0.96415 0.00047
4.25 0.96549 0.00045	4.15 0.96616 0.00046	4.05 0.97204 0.00047
4.30 0.97203 0.00046	4.20 0.97238 0.00046	4.10 0.97972 0.00046
4.35 0.97860 0.00045	4.25 0.97914 0.00046	4.15 0.98702 0.00047
4.40 0.98550 0.00044	4.30 0.98695 0.00044	4.20 0.99362 0.00048
4.45 0.99194 0.00046	4.35 0.99366 0.00047	4.25 1.00095 0.00046
4.50 0.99814 0.00047	4.40 1.00047 0.00046	4.30 1.00801 0.00047
4.55 1.00439 0.00045	4.45 1.00759 0.00046	4.35 1.01449 0.00047
4.60 1.01181 0.00046	4.50 1.01367 0.00046	4.40 1.02191 0.00047
4.65 1.01740 0.00046	4.55 1.02144 0.00046	
4.70 1.02393 0.00045	4.60 1.02742 0.00045	

130	150	200
3.60 0.91294 0.00047	2.80 0.78102 0.00046	2.40 0.71905 0.00047
3.65 0.92035 0.00046	2.82 0.78482 0.00046	2.42 0.72343 0.00047
3.70 0.92945 0.00046	2.84 0.78895 0.00046	2.44 0.72739 0.00046

3.75 0.93814 0.00047	2.86 0.79347 0.00047	2.46 0.73160 0.00045
3.80 0.94561 0.00047	2.88 0.79746 0.00046	2.48 0.73571 0.00046
3.85 0.95336 0.00047	2.90 0.80161 0.00047	2.50 0.73994 0.00047
3.90 0.96084 0.00048	2.92 0.80438 0.00046	2.52 0.74415 0.00046
3.95 0.96812 0.00047	2.94 0.80903 0.00047	2.54 0.74808 0.00047
4.00 0.97521 0.00048	2.96 0.81160 0.00047	2.56 0.75334 0.00047
4.05 0.98268 0.00048	2.98 0.81656 0.00047	2.58 0.75734 0.00046
4.10 0.99063 0.00046	3.00 0.82044 0.00047	2.60 0.76145 0.00047
4.15 0.99808 0.00047	3.02 0.82474 0.00048	2.62 0.76507 0.00047
4.20 1.00481 0.00047	3.04 0.82729 0.00046	2.64 0.76991 0.00047
4.25 1.01250 0.00046	3.06 0.83113 0.00047	2.66 0.77327 0.00047
4.30 1.01922 0.00047	3.08 0.83539 0.00047	2.68 0.77767 0.00046
	3.10 0.83928 0.00047	2.70 0.78120 0.00048
	3.12 0.84310 0.00047	2.72 0.78571 0.00048
	3.14 0.84564 0.00046	2.74 0.78900 0.00047
	3.16 0.85004 0.00047	2.76 0.79438 0.00047
	3.18 0.85380 0.00048	2.78 0.79795 0.00048
	3.20 0.85727 0.00047	2.80 0.80239 0.00047
	3.22 0.86092 0.00047	
	3.24 0.86485 0.00047	
	3.26 0.86896 0.00048	
	3.28 0.87159 0.00048	
	3.30 0.87534 0.00048	

235	250	353
1.90 0.61342 0.00045	2.00 0.63973 0.00045	1.70 0.57784 0.00044
1.92 0.61812 0.00044	2.02 0.64421 0.00047	1.72 0.58468 0.00045
1.94 0.62316 0.00044	2.04 0.64961 0.00046	1.74 0.58849 0.00045
1.96 0.62719 0.00047	2.06 0.65380 0.00044	1.76 0.59344 0.00043
1.98 0.63181 0.00045	2.08 0.65891 0.00045	1.78 0.59836 0.00044
2.00 0.63744 0.00046	2.10 0.66274 0.00047	1.80 0.60331 0.00045
2.02 0.64133 0.00047	2.12 0.66790 0.00047	1.82 0.60836 0.00044
2.04 0.64597 0.00044	2.14 0.67150 0.00046	1.84 0.61251 0.00044
2.06 0.65120 0.00045	2.16 0.67661 0.00045	1.86 0.61774 0.00044
2.08 0.65606 0.00046	2.18 0.68104 0.00046	1.88 0.62133 0.00045
2.10 0.66057 0.00046	2.20 0.68610 0.00047	1.90 0.62648 0.00045
2.12 0.66505 0.00045	2.22 0.68995 0.00046	
2.14 0.66972 0.00046	2.24 0.69455 0.00046	
2.16 0.67351 0.00046	2.26 0.69924 0.00047	
2.18 0.67828 0.00045	2.28 0.70386 0.00047	
2.20 0.68344 0.00046	2.30 0.70851 0.00046	
2.22 0.68693 0.00045	2.32 0.71280 0.00045	
2.24 0.69186 0.00046	2.34 0.71671 0.00047	
2.26 0.69694 0.00045	2.36 0.72091 0.00047	
2.28 0.70088 0.00047	2.38 0.72519 0.00046	
2.30 0.70512 0.00045	2.40 0.73078 0.00047	

470	500	510
2.30 0.71541 0.00048	2.10 0.67173 0.00046	2.20 0.69229 0.00047
2.32 0.71979 0.00046	2.12 0.67543 0.00047	2.22 0.69646 0.00046
2.34 0.72412 0.00048	2.14 0.67988 0.00046	2.24 0.70167 0.00047
2.36 0.72853 0.00048	2.16 0.68457 0.00047	2.26 0.70539 0.00047
2.38 0.73187 0.00047	2.18 0.68898 0.00046	2.28 0.70954 0.00048
2.40 0.73561 0.00046	2.20 0.69276 0.00045	2.30 0.71365 0.00047
2.42 0.74022 0.00045	2.22 0.69767 0.00046	2.32 0.71799 0.00046
2.44 0.74445 0.00048	2.24 0.70200 0.00047	2.34 0.72144 0.00046
2.46 0.74810 0.00046	2.26 0.70600 0.00046	2.36 0.72534 0.00046
2.48 0.75338 0.00047	2.28 0.71001 0.00046	2.38 0.72966 0.00046
2.50 0.75699 0.00049	2.30 0.71421 0.00048	2.40 0.73488 0.00047
2.52 0.76061 0.00048	2.32 0.71841 0.00047	2.42 0.73902 0.00046
2.54 0.76481 0.00048	2.34 0.72290 0.00047	2.44 0.74236 0.00046
2.56 0.76840 0.00046	2.36 0.72674 0.00047	2.46 0.74622 0.00047
2.58 0.77297 0.00048	2.38 0.73061 0.00046	2.48 0.74998 0.00047
2.60 0.77764 0.00047	2.40 0.73457 0.00046	2.50 0.75499 0.00047
	2.42 0.73800 0.00047	2.52 0.75836 0.00048
	2.44 0.74259 0.00048	2.54 0.76284 0.00047
	2.46 0.74741 0.00049	2.56 0.76598 0.00048
	2.48 0.75142 0.00048	2.58 0.77026 0.00046
	2.50 0.75507 0.00048	2.60 0.77418 0.00048

520	530	540
2.20 0.69182 0.00045	2.60 0.77229 0.00047	2.30 0.71194 0.00047
2.22 0.69618 0.00047	2.62 0.77658 0.00048	2.32 0.71569 0.00046
2.24 0.69962 0.00046	2.64 0.78080 0.00047	2.34 0.71988 0.00047
2.26 0.70420 0.00047	2.66 0.78488 0.00047	2.36 0.72420 0.00046
2.28 0.70916 0.00046	2.68 0.78778 0.00048	2.38 0.72768 0.00047
2.30 0.71321 0.00046	2.70 0.79134 0.00048	2.40 0.73180 0.00047
2.32 0.71716 0.00046	2.72 0.79694 0.00047	2.42 0.73613 0.00047
2.34 0.72105 0.00046	2.74 0.79908 0.00047	2.44 0.73939 0.00047
2.36 0.72550 0.00047	2.76 0.80401 0.00049	2.46 0.74459 0.00048
2.38 0.72920 0.00047	2.78 0.80679 0.00049	2.48 0.74813 0.00047
2.40 0.73297 0.00047	2.80 0.81049 0.00047	2.50 0.75140 0.00046
2.42 0.73804 0.00047	2.82 0.81452 0.00047	2.52 0.75606 0.00046
2.44 0.74106 0.00047	2.84 0.81843 0.00049	2.54 0.75943 0.00047
2.46 0.74570 0.00047	2.86 0.82190 0.00049	2.56 0.76418 0.00047
2.48 0.74920 0.00046	2.88 0.82546 0.00048	2.58 0.76814 0.00048
2.50 0.75374 0.00048	2.90 0.82904 0.00049	2.60 0.77149 0.00047
	2.92 0.83253 0.00049	
	2.94 0.83718 0.00049	
	2.96 0.84070 0.00048	
	2.98 0.84506 0.00048	
	3.00 0.84682 0.00049	

550	560
2.20 0.68984 0.00046	2.40 0.73059 0.00047
2.22 0.69416 0.00047	2.42 0.73401 0.00047
2.24 0.69803 0.00047	2.44 0.73821 0.00047
2.26 0.70287 0.00047	2.46 0.74221 0.00046
2.28 0.70650 0.00046	2.48 0.74609 0.00047
2.30 0.71176 0.00046	2.50 0.75018 0.00048
2.32 0.71442 0.00047	2.52 0.75462 0.00048
2.34 0.71899 0.00047	2.54 0.75893 0.00047
2.36 0.72421 0.00048	2.56 0.76287 0.00046
2.38 0.72736 0.00047	2.58 0.76575 0.00047
2.40 0.73144 0.00047	2.60 0.76969 0.00048
2.42 0.73528 0.00046	2.62 0.77367 0.00047
2.44 0.73934 0.00048	2.64 0.77817 0.00047
2.46 0.74383 0.00047	2.66 0.78167 0.00048
2.48 0.74711 0.00048	2.68 0.78527 0.00048
2.50 0.75056 0.00047	2.70 0.78933 0.00046
2.52 0.75490 0.00048	2.72 0.79257 0.00047
2.54 0.75929 0.00047	2.74 0.79714 0.00047
2.56 0.76405 0.00047	2.76 0.79963 0.00048
2.58 0.76726 0.00047	2.78 0.80381 0.00047
2.60 0.77049 0.00047	2.80 0.80882 0.00048

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12	15	20
25.20 0.89602 0.00015	13.90 0.92836 0.00020	8.10 0.92541 0.00026
30.50 0.90914 0.00014	14.50 0.93547 0.00020	8.20 0.92915 0.00026
35.80 0.91801 0.00013	15.10 0.94219 0.00020	8.30 0.93265 0.00026
41.10 0.92378 0.00013	15.70 0.94832 0.00019	8.40 0.93637 0.00027
46.40 0.92794 0.00012	16.30 0.95400 0.00019	8.50 0.93906 0.00026
51.70 0.93106 0.00012	16.90 0.95942 0.00019	8.60 0.94277 0.00026
57.00 0.93327 0.00012	17.50 0.96425 0.00018	8.70 0.94590 0.00026
62.30 0.93511 0.00012	18.10 0.96860 0.00019	8.80 0.94923 0.00026
67.60 0.93617 0.00012	18.70 0.97267 0.00018	8.90 0.95285 0.00025
72.90 0.93763 0.00011	19.30 0.97737 0.00018	9.00 0.95594 0.00026
78.20 0.93844 0.00011	19.90 0.98049 0.00018	9.10 0.95833 0.00025
83.50 0.93932 0.00011	20.50 0.98409 0.00017	9.20 0.96151 0.00026
88.80 0.93976 0.00011	21.10 0.98697 0.00017	9.30 0.96475 0.00026
94.10 0.94033 0.00011	21.70 0.99031 0.00017	9.40 0.96715 0.00026
99.40 0.94102 0.00011	22.30 0.99292 0.00017	9.50 0.97008 0.00025
104.70 0.94126 0.00011	22.90 0.99611 0.00017	9.60 0.97274 0.00025
110.00 0.94172 0.00011	23.50 0.99836 0.00017	9.70 0.97559 0.00025
115.30 0.94191 0.00011	24.10 1.00070 0.00017	9.80 0.97934 0.00026
120.60 0.94225 0.00011	24.70 1.00314 0.00016	9.90 0.98165 0.00025
125.90 0.94252 0.00011	25.30 1.00492 0.00016	10.00 0.98382 0.00024
131.20 0.94278 0.00011	25.90 1.00663 0.00016	10.10 0.98643 0.00025
132.20 0.94259 0.00011	26.50 1.00856 0.00016	10.20 0.98877 0.00025
	26.90 1.00989 0.00016	10.30 0.99152 0.00024
		10.40 0.99375 0.00025
		10.50 0.99624 0.00025
		10.60 0.99904 0.00024
		10.70 1.00053 0.00025
		10.80 1.00344 0.00025
		10.90 1.00542 0.00024
		11.00 1.00745 0.00024
		11.10 1.01032 0.00024
		11.20 1.01183 0.00024
		11.30 1.01418 0.00024
25	30	32
6.20 0.92400 0.00030	5.20 0.92123 0.00032	4.90 0.91893 0.00033
6.30 0.92923 0.00029	5.25 0.92523 0.00031	4.95 0.92368 0.00033
6.40 0.93503 0.00030	5.30 0.92978 0.00032	5.00 0.92783 0.00032
6.50 0.94074 0.00028	5.35 0.93283 0.00031	5.05 0.93177 0.00033
6.60 0.94557 0.00029	5.40 0.93651 0.00032	5.10 0.93541 0.00033
6.70 0.95147 0.00029	5.45 0.94049 0.00031	5.15 0.93965 0.00032
6.80 0.95637 0.00029	5.50 0.94296 0.00031	5.20 0.94344 0.00033
6.90 0.96111 0.00029	5.55 0.94712 0.00031	5.25 0.94698 0.00033
7.00 0.96640 0.00029	5.60 0.95029 0.00031	5.30 0.95102 0.00032
7.10 0.97089 0.00029	5.65 0.95373 0.00031	5.35 0.95401 0.00032
7.20 0.97569 0.00028	5.70 0.95723 0.00032	5.40 0.95794 0.00032

7.30 0.98012 0.00030	5.75 0.96057 0.00032	5.45 0.96186 0.00032
7.40 0.98478 0.00028	5.80 0.96337 0.00031	5.50 0.96477 0.00032
7.50 0.98909 0.00029	5.85 0.96697 0.00032	5.55 0.96850 0.00032
7.60 0.99318 0.00028	5.90 0.97016 0.00032	5.60 0.97247 0.00033
7.70 0.99755 0.00028	5.95 0.97284 0.00031	5.65 0.97545 0.00032
7.80 1.00205 0.00028	6.00 0.97663 0.00031	5.70 0.97879 0.00033
7.90 1.00550 0.00029	6.05 0.97888 0.00032	5.75 0.98183 0.00032
8.00 1.00950 0.00028	6.10 0.98209 0.00033	5.80 0.98560 0.00033
8.10 1.01377 0.00028	6.15 0.98545 0.00031	5.85 0.98917 0.00032
8.20 1.01759 0.00028	6.20 0.98820 0.00032	5.90 0.99172 0.00032
	6.25 0.99200 0.00030	5.95 0.99511 0.00032
	6.30 0.99424 0.00030	6.00 0.99808 0.00032
	6.35 0.99742 0.00031	6.05 1.00135 0.00032
	6.40 0.99993 0.00031	6.10 1.00455 0.00033
	6.45 1.00304 0.00031	6.15 1.00723 0.00033
	6.50 1.00586 0.00031	6.20 1.01080 0.00032
	6.55 1.00831 0.00031	6.25 1.01412 0.00031
	6.60 1.01086 0.00030	6.30 1.01714 0.00032
	6.65 1.01431 0.00030	
	6.70 1.01719 0.00030	

35	40	50
4.60 0.92271 0.00033	4.20 0.92489 0.00035	3.60 0.91987 0.00037
4.65 0.92713 0.00034	4.25 0.93081 0.00036	3.65 0.92649 0.00037
4.70 0.93101 0.00033	4.30 0.93481 0.00035	3.70 0.93248 0.00035
4.75 0.93546 0.00033	4.35 0.93987 0.00035	3.75 0.93768 0.00037
4.80 0.93989 0.00034	4.40 0.94486 0.00035	3.80 0.94341 0.00037
4.85 0.94398 0.00033	4.45 0.95000 0.00035	3.85 0.94865 0.00037
4.90 0.94859 0.00033	4.50 0.95440 0.00034	3.90 0.95403 0.00037
4.95 0.95199 0.00033	4.55 0.95865 0.00035	3.95 0.96021 0.00037
5.00 0.95590 0.00033	4.60 0.96333 0.00034	4.00 0.96522 0.00037
5.05 0.96052 0.00033	4.65 0.96751 0.00034	4.05 0.97087 0.00036
5.10 0.96388 0.00033	4.70 0.97177 0.00035	4.10 0.97576 0.00036
5.15 0.96840 0.00033	4.75 0.97534 0.00035	4.15 0.98039 0.00037
5.20 0.97220 0.00033	4.80 0.98057 0.00035	4.20 0.98658 0.00037
5.25 0.97508 0.00033	4.85 0.98502 0.00035	4.25 0.99144 0.00037
5.30 0.98007 0.00033	4.90 0.98897 0.00034	4.30 0.99655 0.00037
5.35 0.98354 0.00033	4.95 0.99336 0.00034	4.35 1.00140 0.00037
5.40 0.98661 0.00033	5.00 0.99800 0.00034	4.40 1.00594 0.00038
5.45 0.99072 0.00033	5.05 1.00211 0.00035	4.45 1.01085 0.00037
5.50 0.99337 0.00034	5.10 1.00573 0.00034	4.50 1.01587 0.00038
5.55 0.99702 0.00034	5.15 1.00942 0.00036	
5.60 1.00124 0.00034	5.20 1.01300 0.00034	
5.65 1.00556 0.00033		
5.70 1.00807 0.00034		
5.75 1.01196 0.00033		
5.80 1.01485 0.00033		

60	70	80
3.20 0.91385 0.00039	3.00 0.92046 0.00041	2.80 0.91799 0.00041
3.25 0.92103 0.00037	3.05 0.92729 0.00039	2.85 0.92493 0.00040
3.30 0.92808 0.00038	3.10 0.93432 0.00039	2.90 0.93236 0.00041
3.35 0.93412 0.00039	3.15 0.94133 0.00039	2.95 0.93939 0.00040
3.40 0.94013 0.00039	3.20 0.94774 0.00039	3.00 0.94640 0.00040
3.45 0.94656 0.00039	3.25 0.95437 0.00040	3.05 0.95393 0.00041
3.50 0.95267 0.00039	3.30 0.96122 0.00039	3.10 0.96079 0.00040
3.55 0.95864 0.00039	3.35 0.96678 0.00039	3.15 0.96716 0.00040
3.60 0.96545 0.00038	3.40 0.97413 0.00039	3.20 0.97424 0.00041
3.65 0.97070 0.00040	3.45 0.98072 0.00039	3.25 0.98079 0.00041
3.70 0.97678 0.00039	3.50 0.98589 0.00040	3.30 0.98877 0.00040
3.75 0.98301 0.00038	3.55 0.99308 0.00039	3.35 0.99408 0.00040
3.80 0.98827 0.00037	3.60 0.99872 0.00040	3.40 1.00087 0.00042
3.85 0.99444 0.00037	3.65 1.00445 0.00039	3.45 1.00721 0.00040
3.90 0.99980 0.00038	3.70 1.01153 0.00040	3.50 1.01383 0.00040
3.95 1.00452 0.00038	3.75 1.01582 0.00039	3.55 1.01983 0.00041
4.00 1.01016 0.00038	3.80 1.02279 0.00040	3.60 1.02592 0.00040
4.05 1.01582 0.00039		
4.10 1.02176 0.00038		

90	100	118
2.70 0.92317 0.00040	2.60 0.92671 0.00041	2.40 0.91918 0.00042
2.80 0.93883 0.00040	2.65 0.93386 0.00043	2.45 0.92750 0.00042
2.85 0.94661 0.00042	2.70 0.94113 0.00042	2.50 0.93565 0.00042
2.90 0.95377 0.00040	2.75 0.94960 0.00041	2.55 0.94410 0.00042
2.95 0.96135 0.00040	2.80 0.95790 0.00041	2.60 0.95146 0.00042
3.00 0.96965 0.00040	2.85 0.96393 0.00042	2.65 0.95985 0.00043
3.05 0.97603 0.00042	2.90 0.97228 0.00041	2.70 0.96725 0.00042
3.10 0.98261 0.00040	2.95 0.97918 0.00041	2.75 0.97473 0.00042
3.15 0.98944 0.00041	3.00 0.98650 0.00041	2.80 0.98243 0.00042
3.20 0.99582 0.00043	3.05 0.99378 0.00041	2.85 0.98974 0.00041
3.25 1.00312 0.00041	3.10 1.00094 0.00041	2.90 0.99667 0.00043
3.30 1.00955 0.00041	3.15 1.00796 0.00041	2.95 1.00484 0.00043
3.35 1.01607 0.00041	3.20 1.01435 0.00042	3.00 1.01190 0.00042
3.40 1.02315 0.00040	3.25 1.02112 0.00041	3.05 1.01838 0.00042
	3.30 1.02766 0.00041	3.10 1.02623 0.00042

130	150	200
2.30 0.91530 0.00043	2.20 0.91620 0.00042	2.00 0.91117 0.00043
2.35 0.92452 0.00041	2.25 0.92506 0.00043	2.05 0.92078 0.00043
2.40 0.93257 0.00042	2.30 0.93427 0.00043	2.10 0.92921 0.00044
2.45 0.94153 0.00042	2.35 0.94305 0.00043	2.15 0.93864 0.00044
2.50 0.94953 0.00042	2.40 0.95099 0.00043	2.20 0.94658 0.00044
2.55 0.95678 0.00043	2.45 0.95941 0.00044	2.25 0.95545 0.00044
2.60 0.96444 0.00042	2.50 0.96701 0.00042	2.30 0.96454 0.00044

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2.65 0.97405 0.00042	2.55 0.97565 0.00042	2.35 0.97183 0.00044
2.70 0.98146 0.00043	2.60 0.98280 0.00043	2.40 0.98029 0.00044
2.75 0.98773 0.00043	2.65 0.99056 0.00043	2.45 0.98897 0.00044
2.80 0.99590 0.00044	2.70 0.99896 0.00044	2.50 0.99669 0.00044
2.85 1.00342 0.00042	2.75 1.00644 0.00045	2.55 1.00443 0.00044
2.90 1.01107 0.00044	2.80 1.01321 0.00043	2.60 1.01159 0.00045
2.95 1.01786 0.00042	2.85 1.02149 0.00043	2.65 1.02011 0.00044
3.00 1.02497 0.00044	2.90 1.02852 0.00045	2.70 1.02805 0.00045

235	250	353
2.00 0.92434 0.00044	1.90 0.91197 0.00045	1.80 0.91258 0.00046
2.05 0.93450 0.00044	1.95 0.92032 0.00045	1.85 0.92210 0.00044
2.10 0.94323 0.00043	2.00 0.93000 0.00045	1.90 0.93114 0.00044
2.15 0.95109 0.00044	2.05 0.93895 0.00044	1.95 0.93983 0.00044
2.20 0.96074 0.00043	2.10 0.94786 0.00045	2.00 0.94906 0.00045
2.25 0.96844 0.00045	2.15 0.95558 0.00045	2.05 0.95693 0.00046
2.30 0.97696 0.00045	2.20 0.96462 0.00043	2.10 0.96532 0.00044
2.35 0.98530 0.00044	2.25 0.97276 0.00044	2.15 0.97340 0.00046
2.40 0.99295 0.00044	2.30 0.98092 0.00046	2.20 0.98151 0.00044
2.45 1.00075 0.00044	2.35 0.99000 0.00044	2.25 0.99009 0.00045
2.50 1.00940 0.00044	2.40 0.99833 0.00043	2.30 0.99821 0.00045
2.55 1.01660 0.00045	2.45 1.00511 0.00044	2.35 1.00540 0.00045
2.60 1.02528 0.00044	2.50 1.01356 0.00046	2.40 1.01315 0.00043
	2.55 1.02175 0.00045	2.45 1.02180 0.00044
	2.60 1.02905 0.00045	2.50 1.02886 0.00045

470	500	510
1.80 0.92086 0.00045	1.80 0.92233 0.00045	1.80 0.92255 0.00045
1.85 0.92994 0.00045	1.85 0.93017 0.00045	1.85 0.93114 0.00044
1.90 0.93820 0.00045	1.90 0.93935 0.00044	1.90 0.93985 0.00044
1.95 0.94645 0.00045	1.95 0.94791 0.00045	1.95 0.94848 0.00044
2.00 0.95551 0.00045	2.00 0.95545 0.00045	2.00 0.95601 0.00045
2.05 0.96351 0.00045	2.05 0.96366 0.00045	2.05 0.96398 0.00046
2.10 0.97234 0.00045	2.10 0.97189 0.00045	2.10 0.97295 0.00045
2.15 0.97949 0.00045	2.15 0.97995 0.00044	2.15 0.97965 0.00045
2.20 0.98750 0.00045	2.20 0.98828 0.00045	2.20 0.98871 0.00044
2.25 0.99522 0.00045	2.25 0.99596 0.00046	2.25 0.99539 0.00046
2.30 1.00374 0.00045	2.30 1.00216 0.00045	2.30 1.00255 0.00045
2.35 1.01067 0.00044	2.35 1.01110 0.00044	2.35 1.00954 0.00045
2.40 1.01824 0.00046	2.40 1.01771 0.00046	2.40 1.01788 0.00046

520	530	540
1.80 0.92306 0.00046	1.80 0.92171 0.00044	1.80 0.92383 0.00043
1.85 0.93042 0.00044	1.85 0.93040 0.00044	1.85 0.93127 0.00044
1.90 0.93894 0.00045	1.90 0.93906 0.00044	1.90 0.93901 0.00044

1.95 0.94728 0.00046	1.95 0.94756 0.00044	1.95 0.94738 0.00044
2.00 0.95574 0.00045	2.00 0.95593 0.00044	2.00 0.95592 0.00045
2.05 0.96439 0.00045	2.05 0.96358 0.00045	2.05 0.96334 0.00045
2.10 0.97269 0.00045	2.10 0.97231 0.00044	2.10 0.97179 0.00046
2.15 0.97873 0.00045	2.15 0.97934 0.00045	2.15 0.97955 0.00045
2.20 0.98715 0.00044	2.20 0.98706 0.00045	2.20 0.98672 0.00046
2.25 0.99489 0.00044	2.25 0.99536 0.00045	2.25 0.99452 0.00045
2.30 1.00243 0.00045	2.30 1.00242 0.00045	2.30 1.00293 0.00045
2.35 1.00987 0.00044	2.35 1.00931 0.00046	2.35 1.00992 0.00047
2.40 1.01726 0.00045	2.40 1.01716 0.00045	2.40 1.01728 0.00045

550	560
1.80 0.92256 0.00044	1.80 0.92227 0.00045
1.85 0.93117 0.00044	1.85 0.93053 0.00045
1.90 0.93942 0.00046	1.90 0.94010 0.00045
1.95 0.94802 0.00045	1.95 0.94745 0.00045
2.00 0.95514 0.00044	2.00 0.95580 0.00045
2.05 0.96331 0.00045	2.05 0.96302 0.00045
2.10 0.97199 0.00044	2.10 0.97119 0.00045
2.15 0.97896 0.00045	2.15 0.97948 0.00044
2.20 0.98740 0.00045	2.20 0.98691 0.00045
2.25 0.99516 0.00046	2.25 0.99423 0.00046
2.30 1.00159 0.00045	2.30 1.00156 0.00044
2.35 1.01022 0.00045	2.35 1.00847 0.00046
2.40 1.01691 0.00045	2.40 1.01584 0.00047

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12	15	20
44.60 0.88382 0.00014	21.30 0.92917 0.00020	12.20 0.92393 0.00027
46.30 0.88505 0.00013	23.00 0.94001 0.00019	12.40 0.92965 0.00027
48.00 0.88673 0.00013	24.70 0.94866 0.00018	12.60 0.93453 0.00028
49.70 0.88725 0.00013	26.40 0.95609 0.00018	12.80 0.94073 0.00027
51.40 0.88847 0.00013	28.10 0.96263 0.00018	13.00 0.94445 0.00027
53.10 0.88900 0.00013	29.80 0.96819 0.00017	13.20 0.94996 0.00026
54.80 0.88999 0.00013	31.50 0.97269 0.00017	13.40 0.95506 0.00026
56.50 0.89132 0.00013	33.20 0.97655 0.00016	13.60 0.95943 0.00026
58.20 0.89173 0.00013	34.90 0.98044 0.00016	13.80 0.96405 0.00026
59.90 0.89258 0.00013	36.60 0.98350 0.00016	14.00 0.96860 0.00026
61.60 0.89313 0.00012	38.30 0.98615 0.00015	14.20 0.97195 0.00026
63.30 0.89378 0.00013	40.00 0.98898 0.00015	14.40 0.97625 0.00026
65.00 0.89424 0.00013	41.70 0.99070 0.00015	14.60 0.97993 0.00026
66.70 0.89505 0.00013	43.40 0.99241 0.00015	14.80 0.98453 0.00026
68.40 0.89533 0.00012	45.10 0.99447 0.00014	15.00 0.98749 0.00025
70.10 0.89575 0.00012	46.80 0.99592 0.00014	15.20 0.99110 0.00025
71.80 0.89616 0.00012	48.50 0.99713 0.00014	15.40 0.99485 0.00025
73.50 0.89624 0.00012	50.20 0.99817 0.00014	15.60 0.99782 0.00026
75.20 0.89701 0.00012	51.90 0.99935 0.00014	15.80 1.00128 0.00025
76.90 0.89722 0.00012	53.60 1.00057 0.00014	16.00 1.00433 0.00025
78.60 0.89756 0.00012	55.20 1.00164 0.00013	16.20 1.00805 0.00024
80.00 0.89775 0.00012		16.40 1.01060 0.00025
		16.50 1.01185 0.00025

25	30	32
9.80 0.92222 0.00032	8.70 0.92493 0.00034	8.30 0.92001 0.00036
9.90 0.92693 0.00031	8.75 0.92818 0.00034	8.35 0.92302 0.00036
10.00 0.93113 0.00032	8.80 0.93118 0.00035	8.40 0.92689 0.00035
10.10 0.93556 0.00031	8.85 0.93426 0.00034	8.45 0.92948 0.00036
10.20 0.94056 0.00031	8.90 0.93715 0.00035	8.50 0.93350 0.00035
10.30 0.94441 0.00031	8.95 0.94018 0.00035	8.55 0.93685 0.00036
10.40 0.94906 0.00030	9.00 0.94354 0.00035	8.60 0.93983 0.00035
10.50 0.95303 0.00030	9.05 0.94640 0.00034	8.65 0.94309 0.00036
10.60 0.95768 0.00032	9.10 0.94879 0.00034	8.70 0.94621 0.00036
10.70 0.96112 0.00031	9.15 0.95173 0.00034	8.75 0.94979 0.00036
10.80 0.96470 0.00031	9.20 0.95524 0.00035	8.80 0.95288 0.00036
10.90 0.96912 0.00031	9.25 0.95744 0.00033	8.85 0.95648 0.00034
11.00 0.97302 0.00030	9.30 0.95995 0.00034	8.90 0.95857 0.00035
11.10 0.97672 0.00031	9.35 0.96281 0.00034	8.95 0.96206 0.00034
11.20 0.98076 0.00030	9.40 0.96622 0.00035	9.00 0.96471 0.00035
11.30 0.98379 0.00031	9.45 0.96837 0.00034	9.05 0.96738 0.00035
11.40 0.98748 0.00031	9.50 0.97099 0.00034	9.10 0.97044 0.00035
11.50 0.99113 0.00030	9.55 0.97371 0.00034	9.15 0.97406 0.00035
11.60 0.99452 0.00030	9.60 0.97636 0.00035	9.20 0.97655 0.00036
11.70 0.99812 0.00030	9.65 0.97924 0.00034	9.25 0.97920 0.00036
11.80 1.00114 0.00030	9.70 0.98123 0.00034	9.30 0.98217 0.00036

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11.90	1.00463	0.00031	9.75	0.98407	0.00034	9.35	0.98506	0.00034
12.00	1.00813	0.00030	9.80	0.98687	0.00033	9.40	0.98777	0.00035
12.10	1.01159	0.00029	9.85	0.98973	0.00034	9.45	0.99031	0.00034
12.20	1.01376	0.00029	9.90	0.99126	0.00034	9.50	0.99359	0.00035
			9.95	0.99413	0.00034	9.55	0.99579	0.00035
			10.00	0.99647	0.00035	9.60	0.99864	0.00034
			10.05	0.99910	0.00034	9.65	1.00121	0.00035
			10.10	1.00169	0.00033	9.70	1.00357	0.00035
			10.15	1.00356	0.00032	9.75	1.00700	0.00034
			10.20	1.00562	0.00034	9.80	1.00852	0.00035
			10.25	1.00794	0.00032	9.85	1.01132	0.00036
			10.30	1.01056	0.00033	9.90	1.01411	0.00035
			10.35	1.01316	0.00034	9.95	1.01641	0.00034
			10.40	1.01508	0.00033	10.00	1.01922	0.00035

35	40	50						
7.90	0.91833	0.00038	7.40	0.91547	0.00038	6.80	0.91606	0.00041
7.95	0.92181	0.00037	7.45	0.92098	0.00040	6.85	0.92092	0.00041
8.00	0.92627	0.00037	7.50	0.92494	0.00039	6.90	0.92624	0.00041
8.05	0.92987	0.00038	7.55	0.92916	0.00038	6.95	0.93080	0.00041
8.10	0.93354	0.00037	7.60	0.93334	0.00039	7.00	0.93604	0.00042
8.15	0.93678	0.00036	7.65	0.93806	0.00039	7.05	0.94118	0.00042
8.20	0.94005	0.00037	7.70	0.94095	0.00039	7.10	0.94652	0.00042
8.25	0.94418	0.00037	7.75	0.94630	0.00039	7.15	0.95095	0.00041
8.30	0.94755	0.00036	7.80	0.94938	0.00038	7.20	0.95606	0.00042
8.35	0.95081	0.00036	7.85	0.95307	0.00038	7.25	0.96036	0.00041
8.40	0.95491	0.00038	7.90	0.95757	0.00039	7.30	0.96512	0.00041
8.45	0.95782	0.00036	7.95	0.96207	0.00038	7.35	0.97071	0.00042
8.50	0.96157	0.00037	8.00	0.96532	0.00038	7.40	0.97411	0.00042
8.55	0.96462	0.00036	8.05	0.96933	0.00038	7.45	0.97877	0.00040
8.60	0.96772	0.00036	8.10	0.97324	0.00038	7.50	0.98374	0.00041
8.65	0.97197	0.00036	8.15	0.97725	0.00038	7.55	0.98778	0.00042
8.70	0.97415	0.00038	8.20	0.98040	0.00039	7.60	0.99290	0.00040
8.75	0.97802	0.00038	8.25	0.98439	0.00038	7.65	0.99732	0.00041
8.80	0.98180	0.00036	8.30	0.98817	0.00039	7.70	1.00051	0.00041
8.85	0.98521	0.00037	8.35	0.99191	0.00038	7.75	1.00572	0.00041
8.90	0.98735	0.00037	8.40	0.99508	0.00038	7.80	1.00907	0.00040
8.95	0.99037	0.00036	8.45	0.99824	0.00038	7.85	1.01351	0.00042
9.00	0.99409	0.00036	8.50	1.00208	0.00038	7.90	1.01777	0.00042
9.05	0.99600	0.00036	8.55	1.00553	0.00037			
9.10	0.99981	0.00036	8.60	1.00930	0.00039			
9.15	1.00284	0.00036	8.65	1.01220	0.00038			
9.20	1.00575	0.00035	8.70	1.01600	0.00038			
9.25	1.00843	0.00036	8.75	1.01969	0.00038			
9.30	1.01138	0.00037	8.80	1.02287	0.00037			
9.35	1.01394	0.00036						
9.40	1.01679	0.00036						

60	70	80
6.40 0.91195 0.00043	6.20 0.91819 0.00045	6.00 0.91481 0.00046
6.45 0.91767 0.00043	6.25 0.92471 0.00046	6.05 0.92169 0.00047
6.50 0.92352 0.00044	6.30 0.93000 0.00044	6.10 0.92808 0.00047
6.55 0.92963 0.00043	6.35 0.93617 0.00044	6.15 0.93415 0.00046
6.60 0.93496 0.00044	6.40 0.94256 0.00044	6.20 0.94048 0.00046
6.65 0.94062 0.00043	6.45 0.94774 0.00045	6.25 0.94683 0.00046
6.70 0.94594 0.00044	6.50 0.95376 0.00046	6.30 0.95348 0.00046
6.75 0.95222 0.00042	6.55 0.95970 0.00044	6.35 0.95946 0.00045
6.80 0.95667 0.00043	6.60 0.96601 0.00045	6.40 0.96563 0.00045
6.85 0.96191 0.00043	6.65 0.97112 0.00046	6.45 0.97109 0.00047
6.90 0.96734 0.00043	6.70 0.97738 0.00043	6.50 0.97759 0.00045
6.95 0.97281 0.00043	6.75 0.98291 0.00044	6.55 0.98366 0.00045
7.00 0.97767 0.00043	6.80 0.98798 0.00045	6.60 0.98919 0.00046
7.05 0.98327 0.00044	6.85 0.99329 0.00045	6.65 0.99528 0.00046
7.10 0.98773 0.00043	6.90 0.99955 0.00045	6.70 1.00065 0.00045
7.15 0.99289 0.00044	6.95 1.00439 0.00045	6.75 1.00618 0.00045
7.20 0.99822 0.00042	7.00 1.00971 0.00045	6.80 1.01167 0.00046
7.25 1.00337 0.00044	7.05 1.01476 0.00044	6.85 1.01690 0.00046
7.30 1.00829 0.00043	7.10 1.01991 0.00045	6.90 1.02256 0.00046
7.35 1.01288 0.00043		
7.40 1.01755 0.00043		

90	100	118
5.90 0.91936 0.00046	5.80 0.91975 0.00048	5.60 0.90945 0.00049
5.95 0.92605 0.00046	5.85 0.92710 0.00048	5.65 0.91818 0.00048
6.00 0.93317 0.00046	5.90 0.93467 0.00047	5.70 0.92540 0.00047
6.05 0.93964 0.00046	5.95 0.94172 0.00046	5.75 0.93205 0.00049
6.10 0.94633 0.00047	6.00 0.94764 0.00047	5.80 0.93958 0.00049
6.15 0.95314 0.00047	6.05 0.95486 0.00048	5.85 0.94733 0.00048
6.20 0.95911 0.00046	6.10 0.96163 0.00047	5.90 0.95490 0.00048
6.25 0.96615 0.00046	6.15 0.96777 0.00047	5.95 0.96150 0.00046
6.30 0.97224 0.00046	6.20 0.97377 0.00047	6.00 0.96803 0.00048
6.35 0.97767 0.00047	6.25 0.98084 0.00048	6.05 0.97490 0.00048
6.40 0.98456 0.00048	6.30 0.98646 0.00047	6.10 0.98116 0.00048
6.45 0.99037 0.00045	6.35 0.99326 0.00047	6.15 0.98795 0.00049
6.50 0.99700 0.00046	6.40 0.99915 0.00048	6.20 0.99440 0.00048
6.55 1.00295 0.00047	6.45 1.00678 0.00046	6.25 1.00157 0.00048
6.60 1.00815 0.00046	6.50 1.01199 0.00047	6.30 1.00790 0.00047
6.65 1.01432 0.00047	6.55 1.01742 0.00048	6.35 1.01448 0.00049
6.70 1.02038 0.00047	6.60 1.02403 0.00047	6.40 1.02039 0.00048

130	150	200
5.60 0.92162 0.00047	5.50 0.91813 0.00050	5.40 0.91931 0.00051
5.65 0.92868 0.00049	5.55 0.92668 0.00049	5.45 0.92760 0.00051
5.70 0.93527 0.00048	5.60 0.93352 0.00049	5.50 0.93508 0.00049

5.75 0.94346 0.00049	5.65 0.94083 0.00049	5.55 0.94343 0.00050
5.80 0.95112 0.00048	5.70 0.94766 0.00048	5.60 0.95043 0.00051
5.85 0.95730 0.00049	5.75 0.95574 0.00050	5.65 0.95862 0.00050
5.90 0.96432 0.00048	5.80 0.96363 0.00049	5.70 0.96590 0.00050
5.95 0.97248 0.00049	5.85 0.97076 0.00050	5.75 0.97226 0.00050
6.00 0.97948 0.00048	5.90 0.97729 0.00049	5.80 0.98108 0.00049
6.05 0.98613 0.00050	5.95 0.98440 0.00049	5.85 0.98730 0.00049
6.10 0.99277 0.00049	6.00 0.99125 0.00049	5.90 0.99569 0.00051
6.15 0.99935 0.00048	6.05 0.99824 0.00049	5.95 1.00187 0.00051
6.20 1.00563 0.00048	6.10 1.00578 0.00048	6.00 1.00921 0.00050
6.25 1.01178 0.00047	6.15 1.01152 0.00048	6.05 1.01629 0.00051
6.30 1.01956 0.00049	6.20 1.01808 0.00051	6.10 1.02279 0.00051
6.35 1.02375 0.00049	6.25 1.02528 0.00051	
6.40 1.03127 0.00048	6.30 1.03211 0.00049	

235	250	353
5.30 0.90862 0.00051	5.30 0.90872 0.00050	5.40 0.91938 0.00050
5.35 0.91715 0.00050	5.35 0.91730 0.00051	5.45 0.92764 0.00051
5.40 0.92448 0.00048	5.40 0.92558 0.00049	5.50 0.93624 0.00050
5.45 0.93289 0.00050	5.45 0.93302 0.00051	5.55 0.94288 0.00050
5.50 0.93996 0.00050	5.50 0.94055 0.00049	5.60 0.95095 0.00050
5.55 0.94832 0.00050	5.55 0.94946 0.00051	5.65 0.95829 0.00050
5.60 0.95520 0.00051	5.60 0.95630 0.00051	5.70 0.96594 0.00050
5.65 0.96305 0.00049	5.65 0.96533 0.00048	5.75 0.97303 0.00050
5.70 0.97190 0.00048	5.70 0.97083 0.00050	5.80 0.98024 0.00051
5.75 0.97894 0.00052	5.75 0.97815 0.00050	5.85 0.98801 0.00051
5.80 0.98507 0.00050	5.80 0.98591 0.00051	5.90 0.99435 0.00051
5.85 0.99295 0.00051	5.85 0.99381 0.00052	5.95 1.00116 0.00050
5.90 0.99980 0.00050	5.90 1.00115 0.00051	6.00 1.00792 0.00051
5.95 1.00658 0.00051	5.95 1.00757 0.00050	6.05 1.01562 0.00051
6.00 1.01431 0.00051	6.00 1.01449 0.00052	6.10 1.02174 0.00051
6.05 1.02077 0.00051	6.05 1.02154 0.00051	
6.10 1.02731 0.00051	6.10 1.02914 0.00051	

470	475	480
5.50 0.91440 0.00049	5.50 0.91302 0.00050	5.50 0.91137 0.00050
5.55 0.92262 0.00051	5.55 0.92120 0.00049	5.55 0.92008 0.00051
5.60 0.92954 0.00049	5.60 0.92834 0.00051	5.60 0.92776 0.00050
5.65 0.93758 0.00052	5.65 0.93576 0.00049	5.65 0.93451 0.00050
5.70 0.94491 0.00049	5.70 0.94353 0.00051	5.70 0.94142 0.00050
5.75 0.95215 0.00050	5.75 0.94966 0.00050	5.75 0.94953 0.00051
5.80 0.95919 0.00051	5.80 0.95681 0.00051	5.80 0.95697 0.00050
5.85 0.96631 0.00051	5.85 0.96557 0.00051	5.85 0.96414 0.00050
5.90 0.97307 0.00051	5.90 0.97183 0.00051	5.90 0.97032 0.00049
5.95 0.98019 0.00051	5.95 0.97842 0.00051	5.95 0.97794 0.00051
6.00 0.98709 0.00049	6.00 0.98486 0.00050	6.00 0.98396 0.00051
6.05 0.99487 0.00048	6.05 0.99277 0.00051	6.05 0.99094 0.00050

6.10 1.00040 0.00049	6.10 0.99910 0.00051	6.10 0.99784 0.00049
6.15 1.00705 0.00049	6.15 1.00785 0.00052	6.15 1.00406 0.00051
6.20 1.01376 0.00051	6.20 1.01224 0.00050	6.20 1.01162 0.00051
6.25 1.01983 0.00049	6.25 1.01900 0.00050	6.25 1.01737 0.00051
6.30 1.02602 0.00051	6.30 1.02546 0.00051	6.30 1.02444 0.00051

486

0

5.50 0.91013 0.00050
5.55 0.91916 0.00050
5.60 0.92727 0.00050
5.65 0.93388 0.00049
5.70 0.94115 0.00050
5.75 0.94790 0.00050
5.80 0.95552 0.00050
5.85 0.96264 0.00049
5.90 0.97003 0.00050
5.95 0.97674 0.00051
6.00 0.98376 0.00051
6.05 0.98988 0.00051
6.10 0.99813 0.00050
6.15 1.00378 0.00050
6.20 1.01050 0.00050
6.25 1.01731 0.00051
6.30 1.02310 0.00051

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12	15	20
51.80 0.88988 0.00013	19.50 0.92781 0.00019	10.60 0.92436 0.00027
53.30 0.89061 0.00013	21.40 0.93971 0.00019	10.80 0.92967 0.00026
54.80 0.89116 0.00013	23.30 0.95001 0.00018	11.00 0.93549 0.00026
56.30 0.89216 0.00013	25.20 0.95762 0.00017	11.20 0.94048 0.00026
57.80 0.89246 0.00012	27.10 0.96484 0.00017	11.40 0.94556 0.00026
59.30 0.89292 0.00013	29.00 0.97052 0.00017	11.60 0.94981 0.00026
60.80 0.89327 0.00013	30.90 0.97468 0.00016	11.80 0.95478 0.00026
62.30 0.89377 0.00012	32.80 0.97922 0.00015	12.00 0.95973 0.00026
63.80 0.89447 0.00013	34.70 0.98288 0.00016	12.20 0.96405 0.00026
65.30 0.89474 0.00012	36.60 0.98597 0.00015	12.40 0.96795 0.00025
66.80 0.89517 0.00012	38.50 0.98889 0.00015	12.60 0.97229 0.00026
68.30 0.89581 0.00012	40.40 0.99114 0.00015	12.80 0.97680 0.00025
69.80 0.89628 0.00012	42.30 0.99291 0.00015	13.00 0.98034 0.00024
71.30 0.89652 0.00012	44.20 0.99521 0.00015	13.20 0.98474 0.00025
72.80 0.89678 0.00012	46.10 0.99654 0.00014	13.40 0.98818 0.00025
74.30 0.89696 0.00012	48.00 0.99796 0.00014	13.60 0.99178 0.00024
75.80 0.89751 0.00012	49.90 0.99899 0.00014	13.80 0.99488 0.00025
77.30 0.89728 0.00012	51.80 1.00084 0.00014	14.00 0.99805 0.00024
78.80 0.89763 0.00012	53.70 1.00115 0.00015	14.20 1.00098 0.00024
80.30 0.89787 0.00012	55.60 1.00247 0.00013	14.40 1.00456 0.00024
81.80 0.89799 0.00012	57.50 1.00360 0.00014	14.60 1.00793 0.00024
82.10 0.89816 0.00012	57.80 1.00361 0.00013	14.80 1.01042 0.00024
		15.00 1.01374 0.00024

25	30	32
8.20 0.92215 0.00031	7.00 0.91924 0.00034	6.70 0.92097 0.00034
8.30 0.92762 0.00031	7.10 0.92631 0.00035	6.75 0.92425 0.00033
8.40 0.93202 0.00030	7.20 0.93175 0.00033	6.80 0.92750 0.00035
8.50 0.93658 0.00031	7.30 0.93837 0.00034	6.85 0.93070 0.00035
8.60 0.94095 0.00031	7.40 0.94387 0.00033	6.90 0.93385 0.00035
8.70 0.94481 0.00030	7.50 0.94945 0.00034	6.95 0.93682 0.00035
8.80 0.95014 0.00030	7.60 0.95541 0.00032	7.00 0.94104 0.00035
8.90 0.95345 0.00030	7.70 0.96116 0.00033	7.05 0.94414 0.00034
9.00 0.95783 0.00031	7.80 0.96648 0.00034	7.10 0.94704 0.00033
9.10 0.96135 0.00030	7.90 0.97169 0.00033	7.15 0.95046 0.00034
9.20 0.96548 0.00030	8.00 0.97657 0.00032	7.20 0.95327 0.00034
9.30 0.96897 0.00030	8.10 0.98192 0.00033	7.25 0.95655 0.00033
9.40 0.97226 0.00030	8.20 0.98725 0.00033	7.30 0.95968 0.00034
9.50 0.97700 0.00029	8.30 0.99203 0.00032	7.35 0.96238 0.00034
9.60 0.98022 0.00030	8.40 0.99747 0.00033	7.40 0.96621 0.00034
9.70 0.98387 0.00030	8.50 1.00167 0.00032	7.45 0.96861 0.00034
9.80 0.98787 0.00029	8.60 1.00665 0.00032	7.50 0.97121 0.00034
9.90 0.99178 0.00029	8.70 1.01146 0.00032	7.55 0.97492 0.00033
10.00 0.99512 0.00029	8.80 1.01587 0.00032	7.60 0.97687 0.00033
10.10 0.99797 0.00030		7.65 0.97953 0.00034
10.20 1.00173 0.00030		7.70 0.98278 0.00034

10.30 1.00452 0.00029
 10.40 1.00812 0.00029
 10.50 1.01121 0.00028
 10.60 1.01417 0.00029

7.75 0.98509 0.00035
 7.80 0.98857 0.00033
 7.85 0.99092 0.00034
 7.90 0.99399 0.00033
 7.95 0.99686 0.00034
 8.00 0.99947 0.00034
 8.05 1.00187 0.00034
 8.10 1.00385 0.00034
 8.15 1.00732 0.00033
 8.20 1.00958 0.00034
 8.25 1.01183 0.00033
 8.30 1.01426 0.00033

35	40	50
6.30 0.91952 0.00036	5.80 0.91694 0.00037	5.20 0.91760 0.00039
6.35 0.92302 0.00034	5.85 0.92204 0.00036	5.25 0.92386 0.00040
6.40 0.92761 0.00036	5.90 0.92685 0.00038	5.30 0.92863 0.00040
6.45 0.93098 0.00037	5.95 0.93043 0.00038	5.35 0.93316 0.00039
6.50 0.93479 0.00035	6.00 0.93480 0.00038	5.40 0.93807 0.00040
6.55 0.93833 0.00036	6.05 0.93889 0.00038	5.45 0.94368 0.00040
6.60 0.94180 0.00036	6.10 0.94261 0.00037	5.50 0.94943 0.00041
6.65 0.94480 0.00036	6.15 0.94708 0.00036	5.55 0.95316 0.00039
6.70 0.94896 0.00035	6.20 0.95108 0.00037	5.60 0.95782 0.00041
6.75 0.95215 0.00035	6.25 0.95470 0.00037	5.65 0.96222 0.00040
6.80 0.95527 0.00036	6.30 0.95933 0.00037	5.70 0.96818 0.00039
6.85 0.95916 0.00036	6.35 0.96322 0.00037	5.75 0.97185 0.00041
6.90 0.96267 0.00035	6.40 0.96705 0.00037	5.80 0.97695 0.00040
6.95 0.96600 0.00035	6.45 0.96998 0.00037	5.85 0.98128 0.00039
7.00 0.96903 0.00035	6.50 0.97512 0.00038	5.90 0.98600 0.00040
7.05 0.97261 0.00036	6.55 0.97838 0.00037	5.95 0.99032 0.00040
7.10 0.97608 0.00035	6.60 0.98167 0.00038	6.00 0.99454 0.00040
7.15 0.97911 0.00035	6.65 0.98556 0.00037	6.05 0.99869 0.00039
7.20 0.98219 0.00035	6.70 0.98890 0.00037	6.10 1.00321 0.00039
7.25 0.98560 0.00036	6.75 0.99285 0.00037	6.15 1.00773 0.00039
7.30 0.98886 0.00035	6.80 0.99620 0.00037	6.20 1.01137 0.00039
7.35 0.99107 0.00035	6.85 1.00041 0.00036	6.25 1.01555 0.00040
7.40 0.99488 0.00036	6.90 1.00396 0.00037	6.30 1.01952 0.00038
7.45 0.99768 0.00036	6.95 1.00677 0.00037	
7.50 1.00065 0.00035	7.00 1.01085 0.00036	
7.55 1.00322 0.00035	7.05 1.01398 0.00036	
7.60 1.00682 0.00035	7.10 1.01762 0.00037	
7.65 1.00897 0.00035		
7.70 1.01197 0.00035		
7.75 1.01481 0.00035		
7.80 1.01760 0.00035		

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60	70	80
4.80 0.91497 0.00042	4.60 0.92117 0.00043	4.40 0.91903 0.00043
4.85 0.92110 0.00041	4.65 0.92789 0.00042	4.45 0.92558 0.00045
4.90 0.92705 0.00041	4.70 0.93412 0.00044	4.50 0.93180 0.00046
4.95 0.93292 0.00041	4.75 0.94050 0.00043	4.55 0.93982 0.00043
5.00 0.93772 0.00042	4.80 0.94576 0.00042	4.60 0.94491 0.00043
5.05 0.94433 0.00042	4.85 0.95171 0.00043	4.65 0.95225 0.00043
5.10 0.94837 0.00041	4.90 0.95798 0.00044	4.70 0.95804 0.00044
5.15 0.95421 0.00041	4.95 0.96350 0.00044	4.75 0.96454 0.00043
5.20 0.96022 0.00042	5.00 0.97006 0.00043	4.80 0.97035 0.00043
5.25 0.96529 0.00042	5.05 0.97456 0.00043	4.85 0.97644 0.00044
5.30 0.97090 0.00042	5.10 0.98048 0.00044	4.90 0.98204 0.00044
5.35 0.97546 0.00041	5.15 0.98570 0.00044	4.95 0.98757 0.00043
5.40 0.98133 0.00042	5.20 0.99185 0.00043	5.00 0.99329 0.00045
5.45 0.98584 0.00042	5.25 0.99778 0.00043	5.05 0.99903 0.00044
5.50 0.99110 0.00041	5.30 1.00217 0.00042	5.10 1.00510 0.00043
5.55 0.99636 0.00041	5.35 1.00833 0.00043	5.15 1.01078 0.00044
5.60 1.00131 0.00043	5.40 1.01321 0.00043	5.20 1.01587 0.00045
5.65 1.00565 0.00041	5.45 1.01787 0.00043	5.25 1.02120 0.00045
5.75 1.01464 0.00041	5.50 1.02382 0.00044	5.30 1.02686 0.00044
5.80 1.02005 0.00040		

90	100	118
4.20 0.91106 0.00045	4.10 0.91261 0.00046	4.00 0.91887 0.00045
4.25 0.91852 0.00045	4.15 0.91961 0.00046	4.05 0.92609 0.00047
4.30 0.92521 0.00045	4.20 0.92634 0.00045	4.10 0.93242 0.00046
4.35 0.93294 0.00044	4.25 0.93317 0.00045	4.15 0.94029 0.00047
4.40 0.93846 0.00045	4.30 0.94022 0.00046	4.20 0.94802 0.00047
4.45 0.94486 0.00046	4.35 0.94692 0.00045	4.25 0.95400 0.00046
4.50 0.95233 0.00045	4.40 0.95397 0.00046	4.30 0.96132 0.00046
4.55 0.95846 0.00045	4.45 0.96021 0.00044	4.35 0.96843 0.00045
4.60 0.96411 0.00046	4.50 0.96697 0.00045	4.40 0.97543 0.00048
4.65 0.97153 0.00045	4.55 0.97378 0.00045	4.45 0.98146 0.00047
4.70 0.97716 0.00043	4.60 0.97987 0.00045	4.50 0.98778 0.00046
4.75 0.98312 0.00045	4.65 0.98699 0.00045	4.55 0.99491 0.00046
4.80 0.98899 0.00045	4.70 0.99228 0.00046	4.60 1.00159 0.00044
4.85 0.99561 0.00044	4.75 0.99909 0.00045	4.65 1.00797 0.00047
4.90 1.00167 0.00045	4.80 1.00522 0.00045	4.70 1.01461 0.00047
4.95 1.00671 0.00045	4.85 1.01155 0.00046	4.75 1.02022 0.00046
5.00 1.01257 0.00044	4.90 1.01683 0.00045	4.80 1.02689 0.00046
5.05 1.01999 0.00044		
5.10 1.02410 0.00045		

130	150	200
3.90 0.91416 0.00047	3.80 0.91204 0.00047	3.70 0.91594 0.00048
3.95 0.92189 0.00046	3.85 0.92069 0.00048	3.75 0.92407 0.00047
4.00 0.92916 0.00047	3.90 0.92781 0.00047	3.80 0.93218 0.00049

4.05 0.93718 0.00048	3.95 0.93546 0.00047	3.85 0.93999 0.00047
4.10 0.94364 0.00047	4.00 0.94354 0.00048	3.90 0.94689 0.00049
4.15 0.95141 0.00047	4.05 0.95073 0.00047	3.95 0.95506 0.00048
4.20 0.95843 0.00046	4.10 0.95739 0.00047	4.00 0.96252 0.00049
4.25 0.96582 0.00048	4.15 0.96465 0.00047	4.05 0.96993 0.00047
4.30 0.97202 0.00046	4.20 0.97264 0.00048	4.10 0.97726 0.00047
4.35 0.97889 0.00047	4.25 0.97913 0.00048	4.15 0.98475 0.00049
4.40 0.98643 0.00047	4.30 0.98584 0.00047	4.20 0.99180 0.00047
4.45 0.99244 0.00046	4.35 0.99289 0.00048	4.25 0.99845 0.00047
4.50 0.99893 0.00047	4.40 1.00063 0.00047	4.30 1.00613 0.00048
4.55 1.00549 0.00047	4.45 1.00694 0.00047	4.35 1.01211 0.00048
4.60 1.01282 0.00048	4.50 1.01332 0.00048	4.40 1.01942 0.00048
4.65 1.01898 0.00046	4.55 1.01983 0.00049	
4.70 1.02512 0.00048	4.60 1.02639 0.00048	

235	250	353
3.70 0.92268 0.00048	3.60 0.90824 0.00049	3.70 0.92415 0.00048
3.75 0.93109 0.00048	3.65 0.91659 0.00049	3.75 0.93069 0.00049
3.80 0.93877 0.00049	3.70 0.92483 0.00049	3.80 0.93904 0.00048
3.85 0.94642 0.00048	3.75 0.93253 0.00049	3.85 0.94635 0.00049
3.90 0.95364 0.00047	3.80 0.93978 0.00049	3.90 0.95457 0.00050
3.95 0.96075 0.00049	3.85 0.94736 0.00047	3.95 0.96168 0.00047
4.00 0.96850 0.00049	3.90 0.95542 0.00049	4.00 0.96815 0.00048
4.05 0.97629 0.00049	3.95 0.96291 0.00049	4.05 0.97592 0.00049
4.10 0.98382 0.00048	4.00 0.97061 0.00049	4.10 0.98340 0.00050
4.15 0.99075 0.00049	4.05 0.97745 0.00050	4.15 0.99086 0.00049
4.20 0.99765 0.00049	4.10 0.98478 0.00049	4.20 0.99743 0.00048
4.25 1.00570 0.00050	4.15 0.99189 0.00049	4.25 1.00507 0.00050
4.30 1.01136 0.00049	4.20 0.99938 0.00049	4.30 1.01118 0.00049
4.35 1.01916 0.00049	4.25 1.00622 0.00050	4.35 1.01830 0.00051
4.40 1.02606 0.00050	4.30 1.01284 0.00049	4.40 1.02445 0.00050
	4.35 1.02000 0.00049	
	4.40 1.02686 0.00049	

470	475	480
3.70 0.90851 0.00047	3.80 0.92292 0.00048	3.80 0.92277 0.00049
3.75 0.91690 0.00049	3.85 0.93061 0.00048	3.85 0.92980 0.00049
3.80 0.92454 0.00048	3.90 0.93774 0.00048	3.90 0.93679 0.00048
3.85 0.93254 0.00050	3.95 0.94555 0.00050	3.95 0.94437 0.00049
3.90 0.93881 0.00050	4.00 0.95298 0.00049	4.00 0.95243 0.00049
3.95 0.94620 0.00048	4.05 0.96036 0.00049	4.05 0.95848 0.00050
4.00 0.95316 0.00049	4.10 0.96554 0.00049	4.10 0.96538 0.00049
4.05 0.96084 0.00050	4.15 0.97442 0.00050	4.15 0.97284 0.00049
4.10 0.96834 0.00047	4.20 0.98043 0.00049	4.20 0.97882 0.00050
4.15 0.97492 0.00048	4.25 0.98785 0.00050	4.25 0.98622 0.00049
4.20 0.98159 0.00049	4.30 0.99390 0.00050	4.30 0.99237 0.00050
4.25 0.98907 0.00050	4.35 1.00091 0.00048	4.35 1.00010 0.00048

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4.30 0.99518 0.00052	4.40 1.00823 0.00051	4.40 1.00661 0.00051
4.40 1.00812 0.00050	4.45 1.01339 0.00049	4.45 1.01265 0.00049
4.45 1.01441 0.00050	4.50 1.02066 0.00050	4.50 1.01961 0.00049
4.50 1.02127 0.00050		

486	0
3.80 0.92121 0.00048	
3.85 0.92885 0.00049	
3.90 0.93638 0.00049	
3.95 0.94389 0.00048	
4.00 0.95035 0.00049	
4.05 0.95859 0.00048	
4.10 0.96473 0.00049	
4.15 0.97203 0.00050	
4.20 0.97916 0.00047	
4.25 0.98517 0.00049	
4.30 0.99206 0.00050	
4.35 0.99873 0.00050	
4.40 1.00567 0.00050	
4.45 1.01258 0.00050	
4.50 1.01854 0.00049	

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12	15	20
69.10 0.89633 0.00012	18.30 0.92739 0.00019	9.50 0.92682 0.00025
70.10 0.89638 0.00012	20.00 0.93854 0.00018	9.70 0.93302 0.00026
71.10 0.89659 0.00012	21.70 0.94786 0.00017	9.90 0.93813 0.00025
72.10 0.89706 0.00012	23.40 0.95543 0.00017	10.10 0.94308 0.00026
73.10 0.89676 0.00012	25.10 0.96171 0.00016	10.30 0.94877 0.00024
74.10 0.89739 0.00012	26.80 0.96735 0.00017	10.50 0.95291 0.00025
75.10 0.89752 0.00012	28.50 0.97232 0.00016	10.70 0.95733 0.00024
76.10 0.89755 0.00012	30.20 0.97649 0.00016	10.90 0.96184 0.00025
77.10 0.89798 0.00012	31.90 0.97981 0.00016	11.10 0.96689 0.00024
78.10 0.89787 0.00012	33.60 0.98292 0.00015	11.30 0.97128 0.00024
79.10 0.89811 0.00012	35.30 0.98587 0.00015	11.50 0.97507 0.00024
80.10 0.89814 0.00012	37.00 0.98811 0.00015	11.70 0.97911 0.00024
81.10 0.89826 0.00012	38.70 0.99039 0.00015	11.90 0.98291 0.00024
82.10 0.89875 0.00012	40.40 0.99241 0.00014	12.10 0.98632 0.00024
83.10 0.89878 0.00012	42.10 0.99417 0.00015	12.30 0.98993 0.00024
84.10 0.89877 0.00012	43.80 0.99505 0.00014	12.50 0.99371 0.00023
85.10 0.89935 0.00011	45.50 0.99715 0.00014	12.70 0.99689 0.00024
86.10 0.89917 0.00011	47.20 0.99801 0.00014	12.90 1.00025 0.00023
87.10 0.89924 0.00012	48.90 0.99947 0.00014	13.10 1.00355 0.00023
88.10 0.89932 0.00011	50.60 1.00058 0.00013	13.30 1.00656 0.00023
89.10 0.89954 0.00012	52.30 1.00148 0.00013	13.50 1.00982 0.00023
90.10 0.89965 0.00012	53.30 1.00191 0.00013	13.70 1.01311 0.00022
90.60 0.89945 0.00012		

25	30	32
7.00 0.92369 0.00028	5.80 0.92121 0.00032	5.50 0.92301 0.00032
7.10 0.92823 0.00028	5.85 0.92473 0.00031	5.55 0.92707 0.00031
7.20 0.93263 0.00029	5.90 0.92796 0.00031	5.60 0.93051 0.00032
7.30 0.93739 0.00028	5.95 0.93113 0.00031	5.65 0.93292 0.00032
7.40 0.94143 0.00028	6.00 0.93430 0.00031	5.70 0.93631 0.00031
7.50 0.94581 0.00028	6.05 0.93716 0.00031	5.75 0.93974 0.00032
7.60 0.95019 0.00028	6.10 0.94068 0.00031	5.80 0.94316 0.00031
7.70 0.95405 0.00029	6.15 0.94369 0.00030	5.85 0.94697 0.00032
7.80 0.95846 0.00029	6.20 0.94592 0.00031	5.90 0.95004 0.00032
7.90 0.96240 0.00028	6.25 0.94940 0.00031	5.95 0.95321 0.00031
8.00 0.96686 0.00027	6.30 0.95224 0.00030	6.00 0.95615 0.00032
8.10 0.97052 0.00028	6.35 0.95528 0.00031	6.05 0.95995 0.00031
8.20 0.97425 0.00028	6.40 0.95758 0.00030	6.10 0.96235 0.00032
8.30 0.97819 0.00028	6.45 0.96018 0.00030	6.15 0.96530 0.00032
8.40 0.98209 0.00027	6.50 0.96327 0.00031	6.20 0.96889 0.00032
8.50 0.98566 0.00027	6.55 0.96552 0.00030	6.25 0.97119 0.00031
8.60 0.98889 0.00028	6.60 0.96900 0.00031	6.30 0.97396 0.00032
8.70 0.99238 0.00028	6.65 0.97159 0.00031	6.35 0.97669 0.00031
8.80 0.99590 0.00028	6.70 0.97471 0.00031	6.40 0.98031 0.00032
8.90 0.99950 0.00028	6.75 0.97664 0.00031	6.45 0.98275 0.00032
9.00 1.00291 0.00027	6.80 0.97920 0.00031	6.50 0.98554 0.00032

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9.10	1.00540	0.00028	6.85	0.98240	0.00030	6.55	0.98758	0.00031
9.20	1.00896	0.00027	6.90	0.98459	0.00029	6.60	0.99134	0.00031
9.30	1.01294	0.00028	6.95	0.98691	0.00030	6.65	0.99377	0.00032
9.40	1.01551	0.00028	7.00	0.98933	0.00031	6.70	0.99703	0.00032
			7.05	0.99241	0.00030	6.75	0.99939	0.00030
			7.10	0.99459	0.00031	6.80	1.00266	0.00031
			7.15	0.99742	0.00030	6.85	1.00464	0.00031
			7.20	0.99921	0.00031	6.90	1.00758	0.00031
			7.25	1.00151	0.00031	6.95	1.00988	0.00030
			7.30	1.00442	0.00030	7.00	1.01229	0.00031
			7.35	1.00614	0.00030	7.05	1.01500	0.00032
			7.40	1.00871	0.00030	7.10	1.01777	0.00031
			7.45	1.01094	0.00031			
			7.50	1.01378	0.00030			

35	40	50						
5.10	0.92272	0.00033	4.60	0.92218	0.00034	3.90	0.91521	0.00037
5.15	0.92616	0.00034	4.65	0.92732	0.00034	3.95	0.92113	0.00037
5.20	0.93047	0.00034	4.70	0.93180	0.00034	4.00	0.92567	0.00036
5.25	0.93470	0.00033	4.75	0.93514	0.00034	4.05	0.93179	0.00037
5.30	0.93763	0.00034	4.80	0.94006	0.00033	4.10	0.93598	0.00037
5.35	0.94177	0.00033	4.85	0.94406	0.00035	4.15	0.94122	0.00036
5.40	0.94561	0.00033	4.90	0.94851	0.00035	4.20	0.94657	0.00037
5.45	0.94885	0.00033	4.95	0.95185	0.00034	4.25	0.95212	0.00037
5.50	0.95263	0.00032	5.00	0.95613	0.00035	4.30	0.95593	0.00037
5.55	0.95598	0.00032	5.05	0.96001	0.00033	4.35	0.96153	0.00036
5.60	0.95970	0.00032	5.10	0.96358	0.00034	4.40	0.96585	0.00037
5.65	0.96285	0.00033	5.15	0.96805	0.00034	4.45	0.97055	0.00037
5.70	0.96611	0.00033	5.20	0.97189	0.00034	4.50	0.97553	0.00036
5.75	0.97000	0.00033	5.25	0.97657	0.00034	4.55	0.98022	0.00037
5.80	0.97255	0.00032	5.30	0.98002	0.00034	4.60	0.98485	0.00037
5.85	0.97616	0.00033	5.35	0.98315	0.00035	4.65	0.98869	0.00037
5.90	0.97935	0.00032	5.40	0.98642	0.00035	4.70	0.99328	0.00036
5.95	0.98243	0.00033	5.45	0.99062	0.00034	4.75	0.99849	0.00036
6.00	0.98647	0.00034	5.50	0.99369	0.00034	4.80	1.00247	0.00036
6.05	0.98921	0.00033	5.55	0.99791	0.00034	4.85	1.00687	0.00037
6.10	0.99258	0.00032	5.60	1.00174	0.00034	4.90	1.01071	0.00037
6.15	0.99488	0.00033	5.65	1.00510	0.00034	4.95	1.01529	0.00036
6.20	0.99873	0.00032	5.70	1.00878	0.00033	5.00	1.01944	0.00037
6.25	1.00100	0.00033	5.75	1.01156	0.00033			
6.30	1.00452	0.00032	5.80	1.01508	0.00034			
6.35	1.00742	0.00032						
6.40	1.01043	0.00033						
6.45	1.01308	0.00032						
6.50	1.01590	0.00032						

60	70	80
3.60 0.92736 0.00039	3.30 0.92406 0.00040	3.10 0.92395 0.00040
3.65 0.93160 0.00039	3.35 0.93009 0.00039	3.15 0.93113 0.00040
3.70 0.93805 0.00038	3.40 0.93696 0.00039	3.20 0.93742 0.00040
3.75 0.94333 0.00039	3.45 0.94301 0.00038	3.25 0.94457 0.00039
3.80 0.94939 0.00038	3.50 0.94899 0.00040	3.30 0.95037 0.00039
3.85 0.95547 0.00039	3.55 0.95459 0.00039	3.35 0.95701 0.00040
3.90 0.96084 0.00038	3.60 0.96101 0.00040	3.40 0.96314 0.00040
3.95 0.96582 0.00037	3.65 0.96681 0.00038	3.45 0.96935 0.00040
4.00 0.97066 0.00038	3.70 0.97349 0.00039	3.50 0.97505 0.00040
4.05 0.97660 0.00038	3.75 0.97831 0.00040	3.55 0.98200 0.00040
4.10 0.98176 0.00038	3.80 0.98342 0.00039	3.60 0.98745 0.00041
4.15 0.98706 0.00038	3.85 0.98935 0.00039	3.65 0.99363 0.00040
4.20 0.99232 0.00038	3.90 0.99565 0.00040	3.70 0.99902 0.00040
4.25 0.99719 0.00038	3.95 1.00094 0.00040	3.75 1.00560 0.00039
4.30 1.00141 0.00038	4.00 1.00617 0.00039	3.80 1.01109 0.00039
4.35 1.00651 0.00038	4.05 1.01151 0.00039	3.85 1.01684 0.00040
4.40 1.01229 0.00039	4.10 1.01680 0.00039	3.90 1.02310 0.00040
4.45 1.01756 0.00039		
4.50 1.02147 0.00038		

90	100	118
2.90 0.91869 0.00040	2.80 0.92155 0.00042	2.60 0.91681 0.00040
2.95 0.92557 0.00041	2.85 0.92854 0.00041	2.65 0.92490 0.00041
3.00 0.93154 0.00041	2.90 0.93587 0.00041	2.70 0.93345 0.00042
3.05 0.93960 0.00039	2.95 0.94345 0.00041	2.75 0.94042 0.00042
3.10 0.94585 0.00041	3.00 0.95051 0.00040	2.80 0.94618 0.00041
3.15 0.95232 0.00040	3.05 0.95732 0.00042	2.85 0.95472 0.00043
3.20 0.95994 0.00041	3.10 0.96408 0.00041	2.90 0.96153 0.00042
3.25 0.96594 0.00040	3.15 0.97053 0.00041	2.95 0.96833 0.00042
3.30 0.97231 0.00041	3.20 0.97733 0.00041	3.00 0.97565 0.00042
3.35 0.97862 0.00040	3.25 0.98423 0.00041	3.05 0.98286 0.00041
3.40 0.98572 0.00041	3.30 0.99083 0.00043	3.10 0.98946 0.00042
3.45 0.99173 0.00040	3.35 0.99699 0.00043	3.15 0.99677 0.00042
3.50 0.99717 0.00040	3.40 1.00314 0.00040	3.20 1.00326 0.00044
3.55 1.00445 0.00040	3.45 1.01003 0.00041	3.25 1.00973 0.00042
3.60 1.01034 0.00040	3.50 1.01505 0.00041	3.30 1.01638 0.00040
3.65 1.01612 0.00039		3.35 1.02265 0.00043
3.70 1.02187 0.00041		3.40 1.02924 0.00042

130	150	200
2.50 0.91494 0.00042	2.40 0.91734 0.00043	2.20 0.91425 0.00042
2.55 0.92309 0.00043	2.45 0.92547 0.00042	2.25 0.92268 0.00043
2.60 0.93138 0.00042	2.50 0.93318 0.00041	2.30 0.93075 0.00044
2.65 0.93869 0.00043	2.55 0.94080 0.00043	2.35 0.93839 0.00043
2.70 0.94585 0.00043	2.60 0.94855 0.00043	2.40 0.94704 0.00044
2.75 0.95454 0.00043	2.65 0.95650 0.00043	2.45 0.95465 0.00044

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2.80 0.96146 0.00042	2.70 0.96350 0.00043	2.50 0.96254 0.00044
2.85 0.96833 0.00042	2.75 0.97089 0.00043	2.55 0.96950 0.00044
2.90 0.97581 0.00043	2.80 0.97843 0.00044	2.60 0.97751 0.00044
2.95 0.98143 0.00042	2.85 0.98594 0.00042	2.65 0.98504 0.00045
3.00 0.98865 0.00042	2.90 0.99336 0.00043	2.70 0.99259 0.00043
3.05 0.99594 0.00042	2.95 0.99970 0.00043	2.75 0.99983 0.00044
3.10 1.00278 0.00042	3.00 1.00644 0.00043	2.80 1.00654 0.00045
3.15 1.00969 0.00042	3.05 1.01446 0.00042	2.85 1.01323 0.00045
3.20 1.01597 0.00042	3.10 1.02070 0.00043	2.90 1.02093 0.00044

235	250	353
2.10 0.91064 0.00043	2.10 0.91414 0.00044	2.00 0.91513 0.00043
2.15 0.91941 0.00044	2.15 0.92215 0.00044	2.05 0.92288 0.00045
2.20 0.92725 0.00043	2.20 0.93136 0.00044	2.10 0.93125 0.00045
2.25 0.93494 0.00045	2.25 0.93920 0.00044	2.15 0.93888 0.00043
2.30 0.94332 0.00044	2.30 0.94719 0.00046	2.20 0.94694 0.00045
2.35 0.95053 0.00043	2.35 0.95503 0.00044	2.25 0.95423 0.00044
2.40 0.95924 0.00043	2.40 0.96325 0.00044	2.30 0.96209 0.00044
2.45 0.96672 0.00043	2.45 0.97120 0.00045	2.35 0.97000 0.00044
2.50 0.97435 0.00043	2.50 0.97822 0.00044	2.40 0.97725 0.00043
2.55 0.98269 0.00044	2.55 0.98542 0.00043	2.45 0.98412 0.00043
2.60 0.98978 0.00045	2.60 0.99343 0.00044	2.50 0.99276 0.00045
2.65 0.99668 0.00044	2.65 1.00094 0.00043	2.55 0.99959 0.00045
2.70 1.00411 0.00044	2.70 1.00767 0.00045	2.60 1.00552 0.00044
2.75 1.01122 0.00044	2.75 1.01544 0.00046	2.65 1.01360 0.00045
2.80 1.01875 0.00043	2.80 1.02236 0.00044	2.70 1.02059 0.00045

470	475	480
2.00 0.91925 0.00045	2.00 0.91916 0.00045	2.00 0.91846 0.00044
2.05 0.92653 0.00044	2.05 0.92714 0.00043	2.05 0.92677 0.00044
2.10 0.93393 0.00045	2.10 0.93478 0.00044	2.10 0.93384 0.00043
2.15 0.94166 0.00044	2.15 0.94200 0.00044	2.15 0.94139 0.00047
2.20 0.94928 0.00044	2.20 0.94942 0.00046	2.20 0.94967 0.00044
2.25 0.95735 0.00043	2.25 0.95631 0.00045	2.25 0.95664 0.00045
2.30 0.96361 0.00044	2.30 0.96430 0.00047	2.30 0.96348 0.00044
2.35 0.97085 0.00044	2.35 0.97070 0.00044	2.35 0.97058 0.00044
2.40 0.97887 0.00045	2.40 0.97709 0.00046	2.40 0.97758 0.00044
2.45 0.98472 0.00045	2.45 0.98464 0.00045	2.45 0.98527 0.00045
2.50 0.99280 0.00045	2.50 0.99191 0.00044	2.50 0.99128 0.00045
2.55 0.99910 0.00044	2.55 0.99878 0.00045	2.55 0.99851 0.00045
2.60 1.00580 0.00044	2.60 1.00546 0.00045	2.60 1.00506 0.00044
2.65 1.01249 0.00045	2.65 1.01252 0.00044	2.65 1.01297 0.00045
2.70 1.01936 0.00044	2.70 1.01921 0.00045	2.70 1.01836 0.00044

486	0
2.00 0.91936 0.00044	
2.05 0.92692 0.00043	
2.10 0.93437 0.00046	
2.15 0.94174 0.00043	
2.20 0.94910 0.00043	
2.25 0.95635 0.00044	
2.30 0.96394 0.00045	
2.35 0.97037 0.00044	
2.40 0.97840 0.00044	
2.45 0.98507 0.00045	
2.50 0.99200 0.00045	
2.55 0.99807 0.00045	
2.60 1.00544 0.00044	
2.65 1.01146 0.00045	
2.70 1.01789 0.00045	

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12	15	20
32.50 0.92168 0.00014	15.30 0.92694 0.00022	10.30 0.92552 0.00029
33.40 0.92324 0.00014	15.80 0.93401 0.00021	10.40 0.92978 0.00029
34.30 0.92513 0.00014	16.30 0.94079 0.00021	10.50 0.93378 0.00028
35.20 0.92646 0.00014	16.80 0.94681 0.00021	10.60 0.93687 0.00029
36.10 0.92782 0.00014	17.30 0.95260 0.00021	10.70 0.94124 0.00028
37.00 0.92895 0.00013	17.80 0.95783 0.00020	10.80 0.94491 0.00028
37.90 0.93049 0.00014	18.30 0.96326 0.00020	10.90 0.94750 0.00028
38.80 0.93126 0.00014	18.80 0.96796 0.00019	11.00 0.95137 0.00027
39.70 0.93244 0.00013	19.30 0.97215 0.00020	11.10 0.95486 0.00029
40.60 0.93381 0.00013	19.80 0.97657 0.00020	11.20 0.95825 0.00028
41.50 0.93421 0.00013	20.30 0.98041 0.00019	11.30 0.96147 0.00028
42.40 0.93519 0.00013	20.80 0.98424 0.00019	11.40 0.96499 0.00028
43.30 0.93657 0.00013	21.30 0.98732 0.00019	11.50 0.96794 0.00027
44.20 0.93722 0.00012	21.80 0.99112 0.00019	11.60 0.97110 0.00027
45.10 0.93826 0.00013	22.30 0.99344 0.00018	11.70 0.97399 0.00028
46.00 0.93862 0.00012	22.80 0.99663 0.00018	11.80 0.97766 0.00028
46.90 0.93917 0.00013	23.30 0.99933 0.00018	11.90 0.97996 0.00027
47.80 0.94021 0.00012	23.80 1.00236 0.00017	12.10 0.98478 0.00027
48.70 0.94060 0.00012	24.30 1.00478 0.00018	12.30 0.99106 0.00027
49.60 0.94114 0.00012	24.80 1.00695 0.00018	12.40 0.99376 0.00026
50.50 0.94202 0.00012	25.30 1.00933 0.00017	12.50 0.99664 0.00026
50.60 0.94184 0.00012	25.80 1.01145 0.00017	12.60 0.99952 0.00027
		12.70 1.00109 0.00027
		12.80 1.00435 0.00026
		12.90 1.00720 0.00026
		13.00 1.00853 0.00026
		13.10 1.01199 0.00027
		13.20 1.01403 0.00026

25	30	32
8.50 0.92153 0.00033	7.60 0.92122 0.00037	7.30 0.91638 0.00037
8.60 0.92725 0.00033	7.65 0.92442 0.00036	7.35 0.92165 0.00036
8.70 0.93361 0.00033	7.70 0.92807 0.00035	7.40 0.92572 0.00036
8.80 0.93885 0.00032	7.75 0.93240 0.00036	7.45 0.92950 0.00037
8.90 0.94407 0.00033	7.80 0.93575 0.00035	7.50 0.93308 0.00037
9.00 0.95035 0.00033	7.85 0.93979 0.00035	7.55 0.93738 0.00037
9.10 0.95548 0.00033	7.90 0.94310 0.00034	7.60 0.94140 0.00036
9.20 0.96097 0.00031	7.95 0.94728 0.00034	7.65 0.94470 0.00035
9.30 0.96627 0.00032	8.00 0.95001 0.00035	7.70 0.94923 0.00037
9.40 0.97186 0.00032	8.05 0.95376 0.00035	7.75 0.95325 0.00035
9.50 0.97604 0.00031	8.10 0.95754 0.00036	7.80 0.95667 0.00036
9.60 0.98061 0.00032	8.15 0.96099 0.00035	7.85 0.96084 0.00036
9.70 0.98575 0.00032	8.20 0.96447 0.00035	7.90 0.96431 0.00036
9.80 0.99016 0.00032	8.25 0.96760 0.00035	7.95 0.96743 0.00036
9.90 0.99525 0.00031	8.30 0.97110 0.00036	8.00 0.97158 0.00036
10.00 0.99950 0.0003 1	8.35 0.97431 0.00035	8.05 0.97413 0.00036

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10.10 1.00397 0.00031	8.40 0.97753 0.00035	8.10 0.97876 0.00036
10.20 1.00814 0.00031	8.45 0.98089 0.00035	8.15 0.98185 0.00037
10.30 1.01203 0.00031	8.50 0.98398 0.00035	8.20 0.98573 0.00036
10.40 1.01648 0.00031	8.55 0.98699 0.00034	8.25 0.98883 0.00036
	8.60 0.99027 0.00035	8.30 0.99226 0.00035
	8.65 0.99273 0.00034	8.35 0.99615 0.00037
	8.70 0.99605 0.00034	8.40 0.99924 0.00037
	8.80 1.00264 0.00034	8.45 1.00227 0.00036
	8.85 1.00566 0.00035	8.50 1.00513 0.00035
	8.90 1.00878 0.00035	8.55 1.00928 0.00036
	9.00 1.01357 0.00034	8.60 1.01193 0.00035
	9.05 1.01635 0.00034	8.65 1.01541 0.00036
	9.10 1.01982 0.00034	8.70 1.01862 0.00035

35	40	50
7.00 0.91689 0.00039	6.60 0.91661 0.00040	6.10 0.91661 0.00043
7.05 0.92229 0.00038	6.65 0.92118 0.00040	6.15 0.92194 0.00042
7.10 0.92732 0.00036	6.70 0.92606 0.00038	6.20 0.92846 0.00042
7.15 0.93109 0.00037	6.75 0.93156 0.00040	6.25 0.93414 0.00041
7.20 0.93575 0.00037	6.80 0.93718 0.00040	6.30 0.94014 0.00042
7.25 0.94050 0.00039	6.85 0.94108 0.00039	6.35 0.94521 0.00042
7.30 0.94460 0.00037	6.90 0.94614 0.00040	6.40 0.95120 0.00042
7.35 0.94833 0.00037	6.95 0.95102 0.00040	6.45 0.95666 0.00043
7.40 0.95280 0.00036	7.00 0.95602 0.00038	6.50 0.96242 0.00042
7.45 0.95631 0.00038	7.05 0.96073 0.00038	6.55 0.96848 0.00042
7.50 0.96030 0.00037	7.10 0.96486 0.00039	6.60 0.97323 0.00043
7.55 0.96524 0.00038	7.15 0.96924 0.00039	6.65 0.97868 0.00042
7.60 0.96944 0.00037	7.20 0.97415 0.00040	6.70 0.98352 0.00042
7.65 0.97287 0.00038	7.25 0.97837 0.00039	6.75 0.98827 0.00042
7.70 0.97714 0.00037	7.40 0.99102 0.00040	6.80 0.99336 0.00042
7.75 0.98064 0.00038	7.45 0.99583 0.00039	6.85 0.99915 0.00041
7.80 0.98459 0.00036	7.50 1.00013 0.00039	6.90 1.00366 0.00042
7.85 0.98862 0.00038	7.55 1.00372 0.00040	6.95 1.00927 0.00042
7.90 0.99208 0.00038	7.60 1.00809 0.00039	7.00 1.01380 0.00042
7.95 0.99546 0.00038	7.65 1.01262 0.00040	7.05 1.01896 0.00041
8.00 0.99920 0.00038	7.70 1.01686 0.00039	7.10 1.02363 0.00041
8.05 1.00293 0.00037	7.75 1.02066 0.00037	
8.10 1.00734 0.00036	7.80 1.02437 0.00039	
8.15 1.01055 0.00037		
8.20 1.01408 0.00037		
8.25 1.01807 0.00037		
8.30 1.02063 0.00037		

60	70	80
5.80 0.91815 0.00042	5.60 0.92027 0.00045	5.40 0.91510 0.00045
5.85 0.92497 0.00044	5.65 0.92768 0.00045	5.45 0.92314 0.00046
5.90 0.93204 0.00045	5.70 0.93440 0.00043	5.50 0.92996 0.00044

5.95 0.93773 0.00043	5.75 0.94176 0.00045	5.55 0.93624 0.00046
6.00 0.94433 0.00043	5.80 0.94798 0.00045	5.60 0.94454 0.00045
6.05 0.95098 0.00045	5.85 0.95507 0.00045	5.65 0.95163 0.00046
6.10 0.95657 0.00043	5.90 0.96135 0.00044	5.70 0.95870 0.00045
6.15 0.96297 0.00045	5.95 0.96768 0.00046	5.75 0.96568 0.00046
6.20 0.96878 0.00044	6.00 0.97491 0.00045	5.80 0.97281 0.00046
6.25 0.97494 0.00044	6.05 0.98069 0.00045	5.85 0.97947 0.00045
6.30 0.98164 0.00043	6.10 0.98701 0.00046	5.90 0.98639 0.00046
6.35 0.98659 0.00044	6.15 0.99363 0.00045	5.95 0.99266 0.00048
6.40 0.99293 0.00043	6.20 0.99978 0.00045	6.00 0.99935 0.00047
6.45 0.99870 0.00045	6.25 1.00574 0.00045	6.05 1.00577 0.00046
6.50 1.00398 0.00043	6.30 1.01204 0.00046	6.10 1.01245 0.00046
6.55 1.00927 0.00044	6.35 1.01868 0.00046	6.15 1.01817 0.00045
6.60 1.01472 0.00043	6.40 1.02387 0.00047	6.20 1.02403 0.00047
6.65 1.02007 0.00044		
6.70 1.02549 0.00043		

90	100	118
5.30 0.91815 0.00047	5.20 0.91595 0.00048	5.10 0.91986 0.00048
5.35 0.92569 0.00047	5.25 0.92443 0.00047	5.15 0.92930 0.00049
5.40 0.93340 0.00046	5.30 0.93184 0.00047	5.20 0.93750 0.00048
5.45 0.94091 0.00046	5.35 0.94003 0.00048	5.25 0.94515 0.00049
5.50 0.94806 0.00047	5.40 0.94785 0.00049	5.30 0.95271 0.00047
5.55 0.95550 0.00046	5.45 0.95568 0.00048	5.35 0.96102 0.00048
5.60 0.96222 0.00047	5.50 0.96338 0.00047	5.40 0.96809 0.00047
5.65 0.97000 0.00047	5.55 0.97027 0.00048	5.45 0.97700 0.00048
5.70 0.97748 0.00047	5.60 0.97746 0.00047	5.50 0.98355 0.00049
5.80 0.99074 0.00046	5.65 0.98491 0.00047	5.55 0.99172 0.00049
5.85 0.99751 0.00048	5.70 0.99084 0.00047	5.60 0.99837 0.00050
5.90 1.00486 0.00047	5.75 0.99917 0.00048	5.65 1.00547 0.00049
5.95 1.01101 0.00046	5.80 1.00575 0.00049	5.70 1.01293 0.00049
6.00 1.01742 0.00046	5.85 1.01336 0.00048	5.75 1.02073 0.00048
6.05 1.02449 0.00046	5.90 1.01961 0.00047	5.80 1.02748 0.00050
6.10 1.03050 0.00047		

130	150	200
5.00 0.91495 0.00048	4.90 0.91044 0.00049	4.80 0.91265 0.00050
5.05 0.92354 0.00050	4.95 0.91900 0.00049	4.85 0.92211 0.00051
5.10 0.93198 0.00049	5.00 0.92670 0.00049	4.90 0.93196 0.00050
5.15 0.94125 0.00047	5.05 0.93612 0.00049	4.95 0.94126 0.00049
5.35 0.97155 0.00049	5.10 0.94386 0.00051	5.00 0.94792 0.00050
5.40 0.97996 0.00049	5.15 0.95322 0.00048	5.05 0.95784 0.00051
5.45 0.98740 0.00050	5.20 0.96086 0.00050	5.10 0.96542 0.00052
5.50 0.99453 0.00048	5.25 0.97000 0.00050	5.15 0.97445 0.00051
5.55 1.00238 0.00048	5.30 0.97703 0.00049	5.20 0.98237 0.00051
5.60 1.01000 0.00049	5.35 0.98393 0.00051	5.25 0.99103 0.00050
5.70 1.02524 0.00049	5.40 0.99281 0.00050	5.30 0.99821 0.00050

5.45 0.99992 0.00050	5.35 1.00647 0.00050
5.50 1.00752 0.00051	5.40 1.01379 0.00051
5.55 1.01547 0.00049	5.45 1.02164 0.00052
5.60 1.02332 0.00051	5.50 1.02872 0.00050

235	250	353
4.80 0.92085 0.00051	4.70 0.90488 0.00050	4.70 0.90960 0.00051
4.85 0.92910 0.00051	4.75 0.91374 0.00050	4.75 0.91910 0.00051
4.90 0.93782 0.00050	4.80 0.92268 0.00050	4.80 0.92738 0.00052
4.95 0.94724 0.00050	4.85 0.93193 0.00052	4.85 0.93583 0.00050
5.00 0.95650 0.00050	4.90 0.93985 0.00051	4.90 0.94532 0.00051
5.05 0.96426 0.00050	4.95 0.94968 0.00051	4.95 0.95430 0.00050
5.10 0.97266 0.00051	5.00 0.95826 0.00051	5.00 0.96213 0.00051
5.15 0.98090 0.00051	5.05 0.96566 0.00051	5.05 0.96996 0.00049
5.20 0.98843 0.00050	5.10 0.97347 0.00051	5.10 0.97893 0.00052
5.25 0.99711 0.00052	5.15 0.98285 0.00050	5.15 0.98670 0.00050
5.30 1.00499 0.00051	5.20 0.99253 0.00051	5.20 0.99490 0.00050
5.35 1.01271 0.00052	5.25 0.99961 0.00052	5.25 1.00387 0.00052
5.40 1.02167 0.00051	5.30 1.00722 0.00051	5.30 1.01109 0.00051
	5.35 1.01468 0.00051	5.35 1.01899 0.00051
	5.40 1.02328 0.00053	5.40 1.02690 0.00050

470	500	600
4.80 0.92257 0.00052	4.80 0.91901 0.00051	4.80 0.90881 0.00050
4.85 0.93083 0.00052	4.85 0.92752 0.00050	4.85 0.91636 0.00050
4.90 0.93998 0.00051	4.90 0.93546 0.00051	4.90 0.92510 0.00050
4.95 0.94773 0.00051	4.95 0.94432 0.00051	4.95 0.93345 0.00050
5.00 0.95698 0.00051	5.00 0.95252 0.00050	5.00 0.94068 0.00049
5.05 0.96496 0.00051	5.05 0.96145 0.00050	5.05 0.94949 0.00050
5.10 0.97182 0.00051	5.10 0.96923 0.00052	5.15 0.96623 0.00051
5.15 0.98180 0.00049	5.15 0.97690 0.00049	5.20 0.97338 0.00050
5.20 0.98936 0.00051	5.20 0.98448 0.00051	5.25 0.98091 0.00052
5.25 0.99739 0.00051	5.25 0.99249 0.00051	5.30 0.98891 0.00050
5.30 1.00486 0.00051	5.30 1.00158 0.00051	5.35 0.99663 0.00049
5.35 1.01247 0.00050	5.35 1.00795 0.00052	5.40 1.00427 0.00051
5.40 1.01996 0.00050	5.40 1.01598 0.00050	5.45 1.01164 0.00051
5.45 1.02716 0.00050	5.45 1.02272 0.00051	5.50 1.01873 0.00051
5.50 1.03562 0.00050	5.50 1.03162 0.00051	5.55 1.02644 0.00050
		5.60 1.03326 0.00052

605	610	615
4.80 0.90713 0.00051	4.80 0.90815 0.00050	4.80 0.90628 0.00050
4.85 0.91759 0.00049	4.85 0.91556 0.00049	4.85 0.91383 0.00050
4.90 0.92536 0.00050	4.90 0.92383 0.00049	4.90 0.92361 0.00049
4.95 0.93397 0.00049	4.95 0.93250 0.00050	4.95 0.93180 0.00051

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5.00 0.94188 0.00051	5.00 0.94118 0.00049	5.00 0.93880 0.00050
5.05 0.94881 0.00051	5.05 0.94963 0.00050	5.05 0.94793 0.00051
5.10 0.95819 0.00051	5.10 0.95690 0.00052	5.10 0.95539 0.00049
5.15 0.96472 0.00052	5.15 0.96501 0.00050	5.15 0.96412 0.00051
5.20 0.97343 0.00051	5.20 0.97314 0.00051	5.20 0.97145 0.00050
5.25 0.98120 0.00050	5.25 0.98052 0.00052	5.25 0.97996 0.00051
5.30 0.98893 0.00050	5.30 0.98885 0.00050	5.30 0.98709 0.00052
5.35 0.99645 0.00050	5.35 0.99571 0.00050	5.35 0.99429 0.00051
5.40 1.00393 0.00053	5.40 1.00424 0.00050	5.40 1.00194 0.00050
5.45 1.01147 0.00051	5.45 1.00986 0.00051	5.45 1.00860 0.00049
5.50 1.01862 0.00051	5.50 1.01835 0.00051	5.50 1.01623 0.00051
5.55 1.02573 0.00050	5.55 1.02509 0.00050	5.55 1.02412 0.00050
5.60 1.03305 0.00051	5.60 1.03220 0.00050	5.60 1.03133 0.00050

620	625	629
4.80 0.90611 0.00050	4.80 0.90596 0.00050	4.90 0.92117 0.00049
4.85 0.91411 0.00050	4.85 0.91468 0.00050	4.95 0.92940 0.00050
4.90 0.92305 0.00051	4.90 0.92264 0.00051	5.00 0.93902 0.00051
4.95 0.93105 0.00048	4.95 0.93107 0.00051	5.05 0.94606 0.00050
5.00 0.93853 0.00050	5.00 0.93909 0.00051	5.10 0.95503 0.00050
5.05 0.94694 0.00051	5.05 0.94688 0.00050	5.15 0.96190 0.00049
5.10 0.95500 0.00050	5.10 0.95503 0.00050	5.20 0.96987 0.00051
5.15 0.96409 0.00048	5.15 0.96352 0.00051	5.25 0.97727 0.00050
5.20 0.97176 0.00050	5.20 0.97132 0.00052	5.30 0.98488 0.00052
5.25 0.97829 0.00051	5.25 0.97924 0.00051	5.35 0.99326 0.00050
5.30 0.98645 0.00050	5.30 0.98594 0.00051	5.40 0.99965 0.00050
5.35 0.99452 0.00051	5.35 0.99316 0.00051	5.45 1.00736 0.00051
5.40 1.00142 0.00052	5.40 1.00046 0.00051	5.50 1.01455 0.00050
5.45 1.00993 0.00051	5.45 1.00900 0.00051	5.55 1.02231 0.00050
5.50 1.01626 0.00050	5.50 1.01593 0.00050	5.60 1.02923 0.00051
5.55 1.02395 0.00052	5.55 1.02286 0.00051	
5.60 1.03068 0.00052	5.60 1.03026 0.00051	

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8.50 1.00090 0.00031	6.85 0.97645 0.00034	6.70 0.98782 0.00036
8.60 1.00520 0.00030	6.90 0.97874 0.00033	6.75 0.99129 0.00035
8.70 1.00966 0.00030	6.95 0.98346 0.00033	6.80 0.99452 0.00035
8.80 1.01392 0.00029	7.00 0.98635 0.00034	6.85 0.99781 0.00035
8.90 1.01828 0.00030	7.05 0.98924 0.00033	6.90 1.00158 0.00034
	7.10 0.99243 0.00034	6.95 1.00424 0.00035
	7.15 0.99530 0.00033	7.00 1.00826 0.00034
	7.20 0.99897 0.00033	7.05 1.01094 0.00034
	7.25 1.00095 0.00033	7.10 1.01430 0.00035
	7.30 1.00459 0.00033	7.15 1.01706 0.00034
	7.35 1.00745 0.00033	7.20 1.02063 0.00034
	7.40 1.00985 0.00033	
	7.45 1.01327 0.00033	
	7.50 1.01627 0.00034	

35	40	50
5.50 0.91993 0.00036	5.10 0.91954 0.00039	4.60 0.92009 0.00041
5.55 0.92455 0.00036	5.15 0.92458 0.00037	4.65 0.92623 0.00040
5.60 0.92897 0.00036	5.20 0.92914 0.00037	4.70 0.93160 0.00041
5.65 0.93365 0.00037	5.25 0.93477 0.00038	4.75 0.93776 0.00040
5.70 0.93812 0.00036	5.30 0.93913 0.00038	4.80 0.94437 0.00041
5.75 0.94265 0.00037	5.35 0.94414 0.00037	4.85 0.94982 0.00040
5.80 0.94651 0.00035	5.40 0.94955 0.00036	4.90 0.95504 0.00041
5.85 0.95141 0.00037	5.45 0.95459 0.00038	4.95 0.96073 0.00040
5.90 0.95560 0.00036	5.50 0.95913 0.00038	5.00 0.96638 0.00041
5.95 0.95966 0.00036	5.55 0.96312 0.00038	5.05 0.97145 0.00041
6.00 0.96355 0.00036	5.60 0.96744 0.00037	5.10 0.97706 0.00041
6.05 0.96779 0.00037	5.65 0.97306 0.00038	5.15 0.98239 0.00041
6.10 0.97163 0.00037	5.70 0.97694 0.00038	5.20 0.98754 0.00040
6.15 0.97524 0.00037	5.75 0.98134 0.00038	5.25 0.99308 0.00040
6.20 0.97957 0.00036	5.80 0.98621 0.00037	5.45 1.01286 0.00041
6.25 0.98314 0.00036	5.85 0.99075 0.00037	5.50 1.01749 0.00041
6.30 0.98717 0.00035	5.90 0.99446 0.00038	
6.35 0.99121 0.00036	5.95 0.99872 0.00037	
6.40 0.99493 0.00037	6.00 1.00260 0.00037	
6.45 0.99838 0.00035	6.05 1.00738 0.00039	
6.50 1.00233 0.00035	6.10 1.01122 0.00038	
6.55 1.00599 0.00036	6.15 1.01474 0.00036	
6.60 1.00967 0.00036	6.20 1.01982 0.00038	
6.65 1.01319 0.00036		
6.70 1.01619 0.00036		

60	70	80
4.30 0.92282 0.00041	4.00 0.91210 0.00043	3.90 0.92180 0.00044
4.35 0.92988 0.00041	4.05 0.91927 0.00044	3.95 0.92941 0.00043
4.40 0.93665 0.00042	4.10 0.92619 0.00043	4.00 0.93578 0.00045
4.45 0.94261 0.00043	4.15 0.93376 0.00043	4.05 0.94332 0.00045

4.50 0.94871 0.00042	4.20 0.93974 0.00043	4.10 0.95196 0.00045
4.55 0.95623 0.00042	4.25 0.94696 0.00044	4.15 0.95755 0.00045
4.60 0.96194 0.00042	4.30 0.95408 0.00044	4.20 0.96481 0.00044
4.65 0.96813 0.00042	4.35 0.96016 0.00043	4.25 0.97136 0.00043
4.70 0.97401 0.00043	4.40 0.96769 0.00043	4.30 0.97890 0.00045
4.75 0.98060 0.00042	4.45 0.97414 0.00044	4.35 0.98528 0.00046
4.80 0.98615 0.00043	4.50 0.98048 0.00043	4.40 0.99228 0.00044
4.85 0.99184 0.00042	4.55 0.98660 0.00044	4.45 0.99851 0.00044
4.90 0.99702 0.00042	4.60 0.99225 0.00043	4.50 1.00542 0.00044
4.95 1.00339 0.00042	4.65 0.99946 0.00044	4.55 1.01193 0.00042
5.00 1.00866 0.00042	4.70 1.00549 0.00043	4.60 1.01758 0.00046
5.05 1.01465 0.00042	4.75 1.01097 0.00043	4.65 1.02380 0.00044
5.10 1.01934 0.00042	4.80 1.01660 0.00042	4.70 1.03039 0.00043
	4.85 1.02257 0.00043	
	4.90 1.02913 0.00044	

90	100	118
3.80 0.92436 0.00043	3.60 0.90780 0.00046	3.50 0.91276 0.00047
3.85 0.93260 0.00044	3.65 0.91623 0.00045	3.55 0.92151 0.00046
3.90 0.94100 0.00045	3.70 0.92401 0.00046	3.60 0.92937 0.00046
3.95 0.94865 0.00046	3.75 0.93176 0.00045	3.65 0.93720 0.00046
4.00 0.95497 0.00045	3.80 0.94017 0.00046	3.70 0.94548 0.00045
4.05 0.96285 0.00046	3.85 0.94727 0.00045	3.75 0.95371 0.00046
4.10 0.96968 0.00047	3.90 0.95515 0.00046	3.80 0.96153 0.00046
4.15 0.97748 0.00045	3.95 0.96284 0.00048	3.85 0.96963 0.00047
4.20 0.98348 0.00045	4.00 0.97106 0.00045	3.90 0.97704 0.00046
4.25 0.99071 0.00046	4.05 0.97930 0.00047	3.95 0.98426 0.00046
4.30 0.99753 0.00045	4.10 0.98515 0.00045	4.00 0.99133 0.00047
4.35 1.00471 0.00045	4.15 0.99219 0.00047	4.05 1.00029 0.00047
4.40 1.01121 0.00045	4.20 0.99917 0.00046	4.10 1.00726 0.00046
4.45 1.01787 0.00046	4.25 1.00613 0.00046	4.15 1.01456 0.00046
4.50 1.02530 0.00045	4.30 1.01326 0.00046	4.20 1.02136 0.00047
	4.35 1.02013 0.00045	
	4.40 1.02735 0.00046	

130	150	200
3.40 0.90692 0.00046	3.40 0.92050 0.00047	3.20 0.90823 0.00048
3.45 0.91539 0.00047	3.45 0.92933 0.00047	3.25 0.91670 0.00049
3.50 0.92442 0.00047	3.50 0.93784 0.00048	3.30 0.92545 0.00048
3.55 0.93301 0.00047	3.55 0.94576 0.00049	3.35 0.93503 0.00048
3.60 0.94065 0.00047	3.60 0.95466 0.00045	3.40 0.94281 0.00048
3.65 0.94990 0.00046	3.65 0.96300 0.00047	3.45 0.95244 0.00047
3.70 0.95678 0.00047	3.70 0.97234 0.00047	3.50 0.96023 0.00049
3.75 0.96577 0.00047	3.75 0.97899 0.00048	3.55 0.96908 0.00049
3.80 0.97329 0.00047	3.80 0.98644 0.00048	3.60 0.97730 0.00049
3.85 0.98076 0.00047	3.85 0.99557 0.00048	3.65 0.98544 0.00048
3.90 0.98796 0.00047	3.90 1.00357 0.00048	3.70 0.99362 0.00049

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3.95 0.99680 0.00049	3.95 1.01013 0.00048	3.75 1.00182 0.00049
4.00 1.00368 0.00048	4.00 1.01815 0.00050	3.80 1.00954 0.00049
4.05 1.01094 0.00048		3.85 1.01807 0.00049
4.10 1.01940 0.00047		3.90 1.02539 0.00048

235	250	353
3.20 0.91699 0.00049	3.20 0.91897 0.00048	3.10 0.90831 0.00049
3.25 0.92468 0.00047	3.25 0.92781 0.00048	3.15 0.91659 0.00049
3.30 0.93380 0.00049	3.30 0.93649 0.00049	3.20 0.92657 0.00049
3.35 0.94312 0.00050	3.35 0.94590 0.00047	3.25 0.93478 0.00049
3.55 0.97786 0.00050	3.40 0.95359 0.00048	3.30 0.94388 0.00049
3.60 0.98587 0.00050	3.45 0.96260 0.00048	3.35 0.95248 0.00049
3.65 0.99389 0.00047	3.50 0.97088 0.00049	3.40 0.96070 0.00048
3.70 1.00122 0.00050	3.55 0.97922 0.00050	3.45 0.96896 0.00049
3.75 1.01035 0.00049	3.60 0.98805 0.00048	3.50 0.97754 0.00050
3.80 1.01716 0.00050	3.65 0.99641 0.00049	3.55 0.98584 0.00049
3.85 1.02559 0.00050	3.70 1.00321 0.00049	3.60 0.99409 0.00048
3.90 1.03265 0.00051	3.75 1.01263 0.00049	3.65 1.00295 0.00050
	3.80 1.01997 0.00048	3.70 1.01004 0.00050
		3.75 1.01729 0.00050
		3.80 1.02599 0.00049

470	500	600
3.20 0.92282 0.00049	3.20 0.92050 0.00049	3.20 0.91270 0.00049
3.25 0.93235 0.00050	3.25 0.92964 0.00050	3.25 0.92120 0.00050
3.30 0.94037 0.00049	3.30 0.93839 0.00049	3.30 0.92902 0.00049
3.35 0.94931 0.00049	3.35 0.94574 0.00048	3.35 0.93725 0.00051
3.40 0.95741 0.00049	3.40 0.95497 0.00050	3.40 0.94521 0.00049
3.45 0.96501 0.00050	3.45 0.96240 0.00049	3.45 0.95352 0.00049
3.50 0.97379 0.00049	3.50 0.97052 0.00050	3.50 0.96273 0.00048
3.55 0.98305 0.00048	3.55 0.97875 0.00050	3.55 0.97054 0.00050
3.60 0.98992 0.00050	3.60 0.98646 0.00050	3.60 0.97793 0.00047
3.65 0.99794 0.00048	3.65 0.99495 0.00049	3.65 0.98594 0.00049
3.70 1.00590 0.00049	3.70 1.00263 0.00050	3.70 0.99324 0.00049
3.75 1.01373 0.00048	3.75 1.00949 0.00050	3.75 0.99960 0.00050
3.80 1.02117 0.00050	3.80 1.01745 0.00051	3.80 1.00798 0.00050
	3.85 1.02551 0.00049	3.85 1.01487 0.00049
	3.90 1.03257 0.00049	3.90 1.02288 0.00050

605	610	615
3.20 0.91173 0.00048	3.20 0.91134 0.00048	3.20 0.91096 0.00050
3.25 0.92081 0.00048	3.25 0.92045 0.00050	3.25 0.91889 0.00049
3.30 0.92943 0.00048	3.30 0.92876 0.00049	3.30 0.92743 0.00050
3.35 0.93786 0.00049	3.35 0.93694 0.00049	3.35 0.93592 0.00048
3.40 0.94608 0.00049	3.40 0.94489 0.00049	3.40 0.94393 0.00048

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3.45 0.95387 0.00048	3.45 0.95338 0.00051	3.45 0.95192 0.00049
3.50 0.96095 0.00050	3.50 0.96129 0.00049	3.50 0.96023 0.00050
3.55 0.96968 0.00049	3.55 0.96939 0.00050	3.55 0.96808 0.00049
3.60 0.97647 0.00049	3.60 0.97703 0.00050	3.60 0.97632 0.00049
3.65 0.98513 0.00049	3.65 0.98475 0.00049	3.65 0.98382 0.00050
3.70 0.99245 0.00048	3.70 0.99278 0.00049	3.70 0.99168 0.00049
3.75 1.00018 0.00049	3.75 0.99994 0.00051	3.75 0.99874 0.00049
3.80 1.00676 0.00050	3.80 1.00686 0.00051	3.80 1.00567 0.00050
3.85 1.01459 0.00050	3.85 1.01398 0.00049	3.85 1.01284 0.00049
3.90 1.02175 0.00049	3.90 1.02145 0.00051	3.90 1.02060 0.00049

620	625	629
3.20 0.90993 0.00049	3.20 0.91087 0.00051	3.20 0.91000 0.00048
3.25 0.91884 0.00048	3.25 0.91808 0.00048	3.25 0.91762 0.00049
3.30 0.92728 0.00048	3.30 0.92684 0.00049	3.30 0.92625 0.00049
3.35 0.93578 0.00050	3.35 0.93518 0.00049	3.35 0.93513 0.00048
3.40 0.94423 0.00048	3.40 0.94438 0.00048	3.40 0.94248 0.00050
3.45 0.95251 0.00050	3.45 0.95174 0.00049	3.45 0.95125 0.00049
3.50 0.95949 0.00050	3.50 0.95911 0.00051	3.50 0.95940 0.00049
3.55 0.96725 0.00050	3.55 0.96764 0.00050	3.55 0.96632 0.00048
3.60 0.97625 0.00049	3.60 0.97588 0.00049	3.60 0.97509 0.00049
3.65 0.98370 0.00049	3.65 0.98297 0.00049	3.65 0.98276 0.00050
3.75 0.99797 0.00049	3.70 0.99099 0.00050	3.70 0.98953 0.00049
3.80 1.00523 0.00049	3.75 0.99806 0.00047	3.75 0.99765 0.00050
3.85 1.01310 0.00049	3.80 1.00477 0.00050	3.80 1.00453 0.00050
3.90 1.02068 0.00049	3.85 1.01259 0.00050	3.85 1.01185 0.00049
	3.90 1.01978 0.00050	3.90 1.01943 0.00049

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12	15	20
34.50 0.92958 0.00013	12.70 0.92672 0.00020	7.70 0.92629 0.00025
39.20 0.93507 0.00012	13.20 0.93429 0.00021	7.80 0.93045 0.00027
43.90 0.93918 0.00012	13.70 0.94093 0.00020	7.90 0.93441 0.00026
48.60 0.94233 0.00011	14.20 0.94767 0.00019	8.00 0.93824 0.00026
53.30 0.94480 0.00011	14.70 0.95331 0.00019	8.10 0.94202 0.00026
58.00 0.94648 0.00011	15.20 0.95839 0.00019	8.20 0.94545 0.00025
62.70 0.94809 0.00011	15.70 0.96317 0.00019	8.30 0.94879 0.00026
67.40 0.94927 0.00011	16.20 0.96789 0.00019	8.40 0.95252 0.00026
72.10 0.95022 0.00010	16.70 0.97252 0.00018	8.50 0.95538 0.00026
76.80 0.95085 0.00010	17.20 0.97659 0.00018	8.60 0.95922 0.00025
81.50 0.95176 0.00010	17.70 0.98054 0.00018	8.70 0.96282 0.00025
86.20 0.95227 0.00010	18.20 0.98409 0.00018	8.80 0.96617 0.00025
90.90 0.95283 0.00010	18.70 0.98797 0.00017	9.00 0.97196 0.00025
95.60 0.95330 0.00010	19.20 0.99114 0.00018	9.20 0.97822 0.00025
100.30 0.95366 0.00010	19.70 0.99428 0.00018	9.30 0.98156 0.00025
105.00 0.95356 0.00010	20.20 0.99707 0.00017	9.40 0.98396 0.00026
109.70 0.95431 0.00010	20.70 0.99976 0.00017	9.50 0.98689 0.00025
114.40 0.95455 0.00010	21.20 1.00230 0.00017	9.60 0.98916 0.00025
119.10 0.95509 0.00010	21.70 1.00482 0.00017	9.70 0.99263 0.00024
123.80 0.95500 0.00010	22.20 1.00735 0.00016	9.80 0.99487 0.00024
128.50 0.95498 0.00010	22.70 1.00969 0.00017	9.90 0.99813 0.00024
129.50 0.95529 0.00010	23.20 1.01114 0.00016	10.00 1.00012 0.00024
		10.10 1.00249 0.00024
		10.20 1.00554 0.00024
		10.30 1.00751 0.00025
		10.40 1.01060 0.00024
		10.50 1.01295 0.00024

25	30	32
5.90 0.92344 0.00030	5.00 0.92383 0.00032	4.70 0.92027 0.00033
6.00 0.92933 0.00029	5.05 0.92791 0.00031	4.75 0.92484 0.00033
6.10 0.93568 0.00029	5.10 0.93145 0.00032	4.80 0.92901 0.00033
6.20 0.94106 0.00029	5.15 0.93506 0.00032	4.85 0.93256 0.00032
6.30 0.94618 0.00029	5.20 0.93891 0.00031	4.90 0.93691 0.00032
6.40 0.95228 0.00029	5.25 0.94294 0.00032	4.95 0.94044 0.00032
6.50 0.95759 0.00030	5.30 0.94584 0.00031	5.00 0.94524 0.00033
6.60 0.96274 0.00029	5.35 0.95044 0.00032	5.05 0.94849 0.00033
6.70 0.96836 0.00029	5.40 0.95389 0.00031	5.10 0.95301 0.00033
6.80 0.97292 0.00029	5.45 0.95661 0.00031	5.15 0.95747 0.00033
6.90 0.97811 0.00029	5.50 0.96059 0.00032	5.20 0.96108 0.00033
7.00 0.98324 0.00028	5.55 0.96437 0.00031	5.25 0.96446 0.00033
7.10 0.98766 0.00029	5.60 0.96726 0.00032	5.30 0.96788 0.00032
7.20 0.99293 0.00029	5.65 0.97086 0.00032	5.35 0.97207 0.00032
7.30 0.99719 0.00028	5.70 0.97445 0.00032	5.40 0.97566 0.00033
7.40 1.00240 0.00029	5.75 0.97755 0.00032	5.45 0.97897 0.00033
7.50 1.00631 0.00028	5.80 0.98132 0.00032	5.50 0.98324 0.00032

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7.60 1.01117 0.00028	5.85 0.98489 0.00033	5.55 0.98655 0.00032
7.70 1.01474 0.00028	5.90 0.98763 0.00032	5.60 0.98940 0.00032
	6.00 0.99361 0.00031	5.65 0.99309 0.00031
	6.05 0.99660 0.00031	5.70 0.99713 0.00032
	6.10 0.99955 0.00032	5.75 1.00028 0.00032
	6.25 1.00922 0.00030	5.80 1.00308 0.00032
	6.30 1.01161 0.00031	5.85 1.00624 0.00032
	6.35 1.01499 0.00031	5.90 1.01004 0.00032
	6.40 1.01775 0.00031	5.95 1.01333 0.00032
		6.00 1.01613 0.00031

35	40	50
4.40 0.92117 0.00033	4.00 0.92182 0.00035	3.50 0.92526 0.00037
4.45 0.92600 0.00034	4.05 0.92699 0.00035	3.55 0.93172 0.00036
4.50 0.93139 0.00033	4.10 0.93227 0.00035	3.60 0.93756 0.00037
4.55 0.93571 0.00034	4.15 0.93686 0.00035	3.65 0.94386 0.00038
4.60 0.94021 0.00033	4.20 0.94223 0.00034	3.70 0.94938 0.00037
4.65 0.94432 0.00034	4.25 0.94738 0.00035	3.75 0.95524 0.00037
4.70 0.94847 0.00033	4.30 0.95254 0.00035	3.80 0.96153 0.00036
4.75 0.95362 0.00033	4.35 0.95732 0.00036	3.85 0.96672 0.00037
4.80 0.95704 0.00033	4.40 0.96209 0.00035	3.90 0.97242 0.00038
4.85 0.96147 0.00033	4.45 0.96736 0.00034	3.95 0.97781 0.00038
4.90 0.96593 0.00034	4.50 0.97186 0.00036	4.00 0.98375 0.00036
4.95 0.97027 0.00034	4.55 0.97569 0.00035	4.05 0.98892 0.00038
5.00 0.97359 0.00034	4.60 0.98098 0.00034	4.10 0.99390 0.00037
5.05 0.97783 0.00033	4.65 0.98531 0.00035	4.15 0.99916 0.00037
5.10 0.98216 0.00034	4.70 0.98990 0.00034	4.20 1.00422 0.00037
5.15 0.98596 0.00033	4.75 0.99447 0.00035	4.25 1.00987 0.00036
5.20 0.98976 0.00033	4.80 0.99849 0.00035	4.30 1.01429 0.00038
5.25 0.99343 0.00034	5.00 1.01579 0.00034	4.35 1.02019 0.00037
5.30 0.99723 0.00033		4.40 1.02438 0.00037
5.35 1.00112 0.00033		
5.40 1.00524 0.00033		
5.45 1.00857 0.00032		
5.50 1.01217 0.00033		
5.55 1.01558 0.00032		
5.60 1.01967 0.00032		

60	70	80
3.10 0.91783 0.00039	2.90 0.92229 0.00038	2.70 0.91961 0.00039
3.15 0.92453 0.00038	2.95 0.92951 0.00039	2.75 0.92691 0.00040
3.20 0.93158 0.00038	3.00 0.93706 0.00039	2.80 0.93486 0.00040
3.25 0.93815 0.00038	3.05 0.94434 0.00040	2.85 0.94263 0.00041
3.30 0.94453 0.00037	3.10 0.95140 0.00039	2.90 0.95029 0.00040
3.35 0.95143 0.00039	3.15 0.95904 0.00039	2.95 0.95741 0.00041
3.40 0.95759 0.00038	3.20 0.96568 0.00039	3.00 0.96533 0.00040
3.45 0.96477 0.00038	3.25 0.97286 0.00039	3.05 0.97171 0.00039

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3.50 0.97068 0.00039	3.30 0.97924 0.00040	3.10 0.97874 0.00040
3.55 0.97651 0.00037	3.35 0.98621 0.00040	3.15 0.98653 0.00041
3.60 0.98267 0.00039	3.40 0.99209 0.00040	3.20 0.99253 0.00040
3.65 0.98841 0.00038	3.45 0.99859 0.00039	3.25 1.00013 0.00041
3.70 0.99477 0.00038	3.50 1.00466 0.00039	3.30 1.00648 0.00041
3.75 1.00080 0.00038	3.55 1.01157 0.00040	3.35 1.01376 0.00041
3.80 1.00763 0.00039	3.60 1.01782 0.00040	3.40 1.01992 0.00039
3.85 1.01244 0.00039		
3.90 1.01837 0.00039		

90	100	118
2.50 0.90806 0.00039	2.40 0.90969 0.00040	2.30 0.91906 0.00042
2.55 0.91673 0.00039	2.45 0.91846 0.00042	2.35 0.92695 0.00043
2.60 0.92485 0.00040	2.50 0.92634 0.00042	2.40 0.93565 0.00041
2.65 0.93345 0.00041	2.55 0.93521 0.00041	2.45 0.94436 0.00041
2.70 0.94076 0.00041	2.60 0.94262 0.00042	2.50 0.95301 0.00043
2.75 0.94943 0.00041	2.65 0.95144 0.00042	2.55 0.96177 0.00042
2.80 0.95679 0.00041	2.70 0.96020 0.00042	2.60 0.97009 0.00042
2.85 0.96427 0.00041	2.75 0.96690 0.00041	2.65 0.97719 0.00043
2.90 0.97199 0.00042	2.80 0.97501 0.00040	2.70 0.98553 0.00043
2.95 0.97966 0.00040	2.85 0.98326 0.00042	2.75 0.99285 0.00043
3.00 0.98675 0.00042	2.90 0.99058 0.00042	2.80 1.00102 0.00043
3.05 0.99380 0.00040	2.95 0.99793 0.00043	2.85 1.00884 0.00043
3.10 1.00099 0.00041	3.00 1.00544 0.00042	2.90 1.01547 0.00042
3.15 1.00717 0.00042	3.05 1.01220 0.00042	2.95 1.02441 0.00042
3.20 1.01565 0.00041	3.10 1.01884 0.00042	3.00 1.03186 0.00043
3.25 1.02191 0.00041		
3.30 1.02929 0.00041		

130	150	200
2.20 0.91513 0.00042	2.25 0.94308 0.00044	1.90 0.90977 0.00043
2.25 0.92378 0.00043	2.30 0.95048 0.00043	1.95 0.91941 0.00042
2.30 0.93209 0.00044	2.35 0.96001 0.00042	2.00 0.92781 0.00043
2.35 0.94167 0.00042	2.40 0.96851 0.00044	2.05 0.93776 0.00044
2.40 0.94959 0.00043	2.45 0.97728 0.00044	2.10 0.94678 0.00044
2.45 0.95899 0.00043	2.50 0.98552 0.00043	2.15 0.95568 0.00044
2.50 0.96689 0.00043	2.55 0.99354 0.00044	2.20 0.96416 0.00044
2.55 0.97508 0.00042	2.60 1.00123 0.00044	2.25 0.97333 0.00044
2.60 0.98353 0.00041	2.65 1.00939 0.00043	2.30 0.98219 0.00044
2.65 0.99071 0.00042	2.70 1.01753 0.00043	2.35 0.99117 0.00045
2.70 0.99908 0.00042		2.40 0.99986 0.00045
2.75 1.00747 0.00043		2.45 1.00816 0.00045
2.80 1.01477 0.00042		2.50 1.01623 0.00044
2.85 1.02143 0.00043		
2.90 1.03062 0.00042		

235	250	353
1.90 0.92311 0.00044	1.80 0.90897 0.00044	1.70 0.91106 0.00045
1.95 0.93315 0.00045	1.85 0.91772 0.00044	1.75 0.92114 0.00044
2.00 0.94241 0.00044	1.90 0.92882 0.00045	1.80 0.92987 0.00044
2.05 0.95117 0.00044	1.95 0.93754 0.00044	1.85 0.93936 0.00045
2.10 0.96056 0.00044	2.00 0.94646 0.00045	1.90 0.94845 0.00044
2.15 0.96988 0.00045	2.05 0.95597 0.00045	1.95 0.95758 0.00045
2.20 0.97841 0.00045	2.10 0.96464 0.00044	2.00 0.96671 0.00046
2.25 0.98730 0.00045	2.15 0.97369 0.00045	2.05 0.97627 0.00045
2.30 0.99571 0.00045	2.20 0.98306 0.00045	2.10 0.98466 0.00045
2.35 1.00365 0.00044	2.25 0.99117 0.00044	2.15 0.99332 0.00046
2.40 1.01220 0.00043	2.30 1.00022 0.00045	2.20 1.00163 0.00045
2.45 1.02041 0.00044	2.35 1.00873 0.00044	2.25 1.01065 0.00044
2.50 1.02839 0.00043	2.40 1.01726 0.00044	2.30 1.01814 0.00045

470	500	600
1.70 0.92265 0.00044	1.70 0.92310 0.00044	1.70 0.92540 0.00044
1.75 0.93094 0.00045	1.75 0.93149 0.00044	1.75 0.93359 0.00045
1.80 0.94049 0.00045	1.80 0.94085 0.00044	1.80 0.94219 0.00044
1.85 0.94946 0.00044	1.85 0.94950 0.00046	1.85 0.95078 0.00045
1.90 0.95765 0.00045	1.90 0.95879 0.00044	1.90 0.95891 0.00044
1.95 0.96722 0.00045	1.95 0.96757 0.00044	1.95 0.96772 0.00044
2.00 0.97510 0.00045	2.00 0.97558 0.00044	2.00 0.97589 0.00046
2.05 0.98381 0.00046	2.05 0.98417 0.00045	2.05 0.98390 0.00044
2.10 0.99247 0.00046	2.10 0.99286 0.00045	2.10 0.99269 0.00045
2.15 1.00083 0.00045	2.15 1.00028 0.00045	2.15 0.99974 0.00045
2.20 1.00911 0.00046	2.20 1.00916 0.00045	2.20 1.00780 0.00044
2.25 1.01651 0.00045	2.25 1.01674 0.00045	2.25 1.01535 0.00046
2.30 1.02450 0.00045	2.30 1.02395 0.00047	2.30 1.02406 0.00044

605	610	615
1.70 0.92505 0.00044	1.70 0.92485 0.00043	1.70 0.92540 0.00046
1.75 0.93404 0.00045	1.75 0.93388 0.00045	1.75 0.93334 0.00045
1.80 0.94139 0.00045	1.85 0.95237 0.00045	1.80 0.94266 0.00047
1.85 0.95106 0.00045	1.90 0.95892 0.00044	1.85 0.95058 0.00045
1.90 0.95910 0.00046	1.95 0.96751 0.00044	1.90 0.95984 0.00046
1.95 0.96734 0.00044	2.00 0.97540 0.00044	1.95 0.96771 0.00045
2.00 0.97619 0.00047	2.05 0.98464 0.00044	2.00 0.97571 0.00044
2.05 0.98381 0.00045	2.10 0.99283 0.00045	2.05 0.98452 0.00045
2.10 0.99257 0.00045	2.15 1.00064 0.00045	2.10 0.99148 0.00045
2.15 0.99950 0.00046	2.20 1.00849 0.00045	2.15 0.99979 0.00046
2.20 1.00802 0.00045	2.25 1.01642 0.00045	2.20 1.00728 0.00044
2.25 1.01609 0.00045	2.30 1.02289 0.00047	2.25 1.01552 0.00046
2.30 1.02325 0.00046		2.30 1.02234 0.00046

620	625	629
1.70 0.92488 0.00043	1.70 0.92482 0.00044	1.70 0.92529 0.00045
1.75 0.93433 0.00046	1.75 0.93357 0.00045	1.75 0.93296 0.00045
1.80 0.94180 0.00044	1.80 0.94282 0.00044	1.80 0.94279 0.00045
1.85 0.95116 0.00044	1.85 0.95129 0.00046	1.85 0.95098 0.00046
1.90 0.95949 0.00045	1.90 0.95978 0.00045	1.90 0.95970 0.00045
1.95 0.96779 0.00045	1.95 0.96805 0.00045	1.95 0.96694 0.00045
2.00 0.97523 0.00045	2.00 0.97560 0.00046	2.00 0.97525 0.00044
2.05 0.98349 0.00045	2.05 0.98396 0.00045	2.05 0.98318 0.00045
2.10 0.99174 0.00045	2.10 0.99136 0.00044	2.10 0.99202 0.00046
2.15 0.99927 0.00044	2.15 0.99954 0.00046	2.15 0.99942 0.00046
2.20 1.00715 0.00045	2.20 1.00721 0.00045	2.20 1.00687 0.00043
2.25 1.01464 0.00047	2.25 1.01485 0.00044	2.25 1.01527 0.00044
2.30 1.02237 0.00046	2.30 1.02254 0.00046	2.30 1.02209 0.00044