

**NUCLEAR DATA AND MEASUREMENTS SERIES**

**ANL/NDM-6**  
**Evaluated Neutronic Cross Section File for Niobium**

by

R. Howerton, A. Smith, P. Guenther, and J. Whalen

May 1974

**ARGONNE NATIONAL LABORATORY,  
ARGONNE, ILLINOIS 60439, U.S.A.**

# NUCLEAR DATA AND MEASUREMENTS SERIES

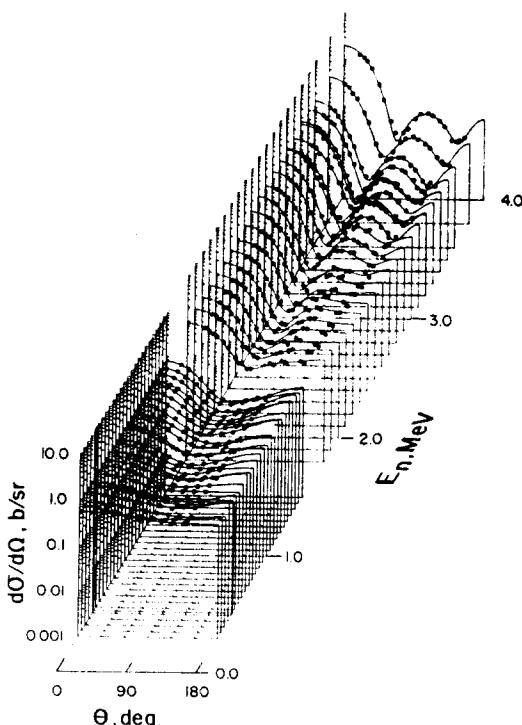
ANL/NDM-6

## EVALUATED NEUTRONIC CROSS SECTION FILE FOR NIOBIUM

R. Howerton  
Lawrence Livermore Laboratory

and

A. Smith, P. Guenther and J. Whalen  
Argonne National Laboratory



ARGONNE NATIONAL LABORATORY,  
ARGONNE, ILLINOIS 60439, U.S.A.

The facilities of Argonne National Laboratory are owned by the United States Government. Under the terms of a contract (W-31-109-Eng-38) between the U. S. Atomic Energy Commission, Argonne Universities Association and The University of Chicago, the University employs the staff and operates the Laboratory in accordance with policies and programs formulated, approved and reviewed by the Association.

#### MEMBERS OF ARGONNE UNIVERSITIES ASSOCIATION

The University of Arizona	Kansas State University	The Ohio State University
Carnegie-Mellon University	The University of Kansas	Ohio University
Case Western Reserve University	Loyola University	The Pennsylvania State University
The University of Chicago	Marquette University	Purdue University
University of Cincinnati	Michigan State University	Saint Louis University
Illinois Institute of Technology	The University of Michigan	Southern Illinois University
University of Illinois	University of Minnesota	The University of Texas at Austin
Indiana University	University of Missouri	Washington University
Iowa State University	Northwestern University	Wayne State University
The University of Iowa	University of Notre Dame	The University of Wisconsin

#### NOTICE

This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Atomic Energy Commission, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately-owned rights.

**ANL/NDM-6**

**EVALUATED NEUTRONIC CROSS  
SECTION FILE FOR NIOBIUM**

**R. Howerton  
Lawrence Livermore Laboratory**

**and**

**A. Smith, P. Guenther and J. Whalen  
Argonne National Laboratory**

**\*This work supported by the U.S. Atomic Energy Commission.**

## TABLE OF CONTENTS

	<u>Page</u>
<b>ABSTRACT . . . . .</b>	3
<b>I. INTRODUCTION . . . . .</b>	4
<b>II. OUTLINE OF EVALUATION. . . . .</b>	5
A. Total Neutron Cross Sections. . . . .	6
B. Elastic Scattering Cross Sections . . . . .	8
C. Inelastic Scattering Cross Sections . . . . .	11
D. Neutron Radiative Capture . . . . .	13
E. The $(n;2n)$ Cross Section. . . . .	13
F. The $(n;3n)$ Cross Section. . . . .	15
G. The $(n;p$ Cross Section. . . . .	16
H. The $(n;d)$ Cross Section . . . . .	16
I. The $(n;2p)$ Cross Section. . . . .	17
J. The $(n;^3\text{He})$ Cross Section . . . . .	17
K. The $(n;\text{T})$ Cross Section . . . . .	17
L. The $(n;\alpha)$ Cross Section . . . . .	18
M. The $(n;\alpha,n')$ Cross Section. . . . .	18
N. Gamma-Ray Production Cross Sections . . . . .	18
<b>III. SUMMARY REMARK . . . . .</b>	19
<b>APPENDIX A: Numerical File. . . . .</b>	24

**Evaluated Neutronic Cross Section File for Niobium**

by

R. Howerton  
Lawrence Livermore Laboratory

and

A. Smith, P. Guenther and J. Whalen  
Argonne National Laboratory

**Abstract**

The formulation of an evaluated neutronic data file for niobium in the ENDF format is outlined and the complete numerical file presented. This file represents an updating, extension and revision of the previously available file (defined in AP/CTR/TM-4) particularly including: improved high-energy cross section files, gamma-ray production files and corrections to the previous file where indicated. Qualitative uncertainty estimates are given. The present file should be particularly suitable for high energy applied calculations such as are encountered in CTR technology problems.

## I. INTRODUCTION

As a part of a continuing program for the provision of microscopic data for applied calculations, this evaluated neutronic file for niobium was prepared. The endeavor correlates experimental and theoretical effort on an inter-laboratory basis with the objective of providing the "best" contemporary information. The work represents a revision and updating of the prior file (defined in AP/CTR/TM-4, Ref. 1 and 2). The latter had shortcomings; particularly the omission of gamma-ray production files and an over-simplified temperature model of high energy neutron emission. In addition certain errors were noted as the previous file was used. This document outlines the revised file. In doing so, portions of the prior document (AP/CTR/TM-4) are essentially restated so as to provide a complete reference for the applied user.

The file has been verified by new experimental information made available during the past year. In particular, the recent fast neutron capture cross section measurements of W. Poenitz (3) give assurance of the file's accuracy in this area. In addition there has been new information in the areas of elastic neutron scattering and  $(n;n'\gamma)$  processes as noted in subsequent and pertinent sections. The larger body of experimental and theoretical information and its use in formulating the file is described in Refs. 1 and 2 and is not restated here. The reader interested in this background information is referred thereto.

This evaluation gives primary emphasis to fast neutron induced reactions wherein there is a prompt emission of particles or quanta. No attention is given to gamma-ray induced processes nor to properties associated with a residual activity of measurable lifetime. Experimental information is often incomplete in the latter areas and recourse must be made to theoretical calculation (e.g. isomer-ratio calculations). At incident

neutron energies of - 100 keV this evaluation is explicitly identical to that of Allen and Drake given in ENDF/B MAT-1164 (4). From 100 keV to 8.0 MeV this evaluation is primarily based on recent experimental results (1). Above 8.0 MeV it is founded on experimental results where available. However, the experimental information is limited, particularly as energies approach 20.0 MeV and a large number of reaction channels open. Thus in the difficult high-energy region a major reliance was placed upon physical understanding, associated calculational models and on available systematic experimental knowledge. The latter is not without some question particularly in this region near the N=50 shell. The result should be an improved evaluated file for neutronic calculations; particularly where high-energy processes are important (e.g. in CTR applications). The use of the file in specialized calculations emphasizing minority charged-particle-emitting reactions should be circumspect as the latter are not well known and this uncertainty is reflected in the evaluation.

## II. OUTLINE OF THE EVALUATION

The present evaluation considers the particular reactions defined in Table 1 and gamma-ray production cross sections. The respective Q-values were calculated from the mass tabulations of Wapstra et al. (5) or from observed experimental values as was judged most suitable. The particle emission in all reactions other than elastic neutron scattering was assumed to be isotropic. In the case of discrete inelastic neutron excitation cross sections, this assumption was justified by experimental evidence. However, other reactions, particularly at the higher energies, will result in anisotropic particle emission as direct-reaction mechanisms are a contributing factor. Evidence of such anisotropy is conclusive but uncertainties inherent in the deduction of the angle-integrated cross sections transcend those that can be expected from any reasonable anisotropy.

Subsequent portions of this Section outline the basis of and procedures employed in this evaluation. This outline should be considered the support documentation for the numerical file given in Appendix A.

#### A. Total Neutron Cross Sections

The evaluated total neutron cross sections were deduced from the weighted averages of experimental values available from 0.1 to 15.0 MeV and extended to 20.0 MeV using the model described in Ref. 1. The available experimental information is summarized in Fig. 1. The experimental weighting factors were estimates based upon: the stated experimental errors (when available), the estimated validity of the technique in the respective energy regions, evidence of systematic errors in sets of measurements and collaborating evidence such as concurrent measurement of a standard cross section. The experimental information was obtained from the open literature and the files of the National Neutron Cross Section Center (6).

From 0.1 to 0.5 MeV the evaluation was based upon the experimental results of Miller et al. (7), Uttley (8), Langsdorf et al. (9) and of Ref. 2. The latter two sources were not given large weight as the Langsdorf measurements were not direct total cross section determinations (total scattering cross sections were measured) and the techniques employed in the work of Ref. 2 were least reliable at these lower neutron energies. The evaluation assumed a smooth energy dependence of the total cross section. This may be an over simplification as Seth (10) has reported considerable structure in the total cross section and the elastic scattering cross sections reported by Reitmann et al. (11) show a tendency toward such structure.

The evaluation from 0.5 to 1.0 MeV was based primarily upon the results of Uttley (8) and those of Ref. 2. Though the measurements were made using different techniques, the agreement is excellent. The results of Miller et al. (12) and of Langsdorf et al. (9) were utilized with reduced weighting. The Miller values

appear consistently higher than the others in this region and, again, the Langsdorf measurements were not a direct determination of the total cross sections. The resulting evaluated total neutron cross section is 5% to 8% lower than the total elastic scattering cross section reported by Reitmann et al. (11). However, this comparison is influenced by possible structure, as noted above, and the Reitmann measurements are indirectly related to the results of Langsdorf et al. (9) which also tend to be higher than the present evaluation in this energy range.

From 1.0 to 5.0 MeV the agreement between the experimental results of: Miller et al. (7), Langsdorf et al. (9), Carlson and Barschall (12), Foster and Glasgow (13) and Ref. 2 is excellent. A simple average yields an evaluated total neutron cross section with an estimated uncertainty of a few per cent. From 5.0 to 15.0 MeV the evaluation relies upon the experimental results of Foster and Glasgow and of Carlson and Barschall. These measurements are parts of comprehensive experimental programs which have been shown to provide energy-averaged total neutron cross sections consistent with a number of other values. Above 15.0 MeV the evaluation relies entirely upon results calculated with the model outlined above, slightly renormalized to smoothly join the experimental values near 15 MeV. This model was descriptive of measurements at energies below 15.0 MeV and Engelbrecht and Fiedeldey (14) have shown this particular potential energy dependence to be valid to 100.0 MeV and above.

The primary differences between the present evaluation and that of ENDF (MAT-1164) are below energies of 2.0 MeV. The differences are both positive and negative and amount to as much as 10% in some energy ranges. Comparisons at energies of  $\leq 100$  keV are, of course, meaningless as the present evaluation explicitly employs the ENDF MAT-1164 values in this lower energy range.

The uncertainties in the above total cross sections are indicated by the consistency of the experimental results obtained for a number of independent measurements. Conservative error

estimates are: < 10% at  $E_n < 0.5$  MeV and  $\sim 5\%$  for  $E_n > 0.5$  MeV.  
 These uncertain estimates and the entire total cross section remain identical to those given in Ref. 1.

### B. Elastic Scattering Cross Section

The model calculations described in Ref. 1 are in excellent agreement with a number of experimental results at energies of  $\sim 5.0$  MeV and in reasonable agreement with the observed distribution at 8.05 MeV. At 14.0 MeV the Model-calculated result is less descriptive of the measured distributions of Western et al. (15) and Kammerdiener (16). Calculations based upon other models were little, if any, more suitable. The difference between calculation and measurement at 14.0 MeV is in the character of the diffraction pattern where the cross sections are relatively small. The difference is not so appreciable in the important regions of large cross sections where the measurements give poor definition. The above considerations justify the use of the Model for the determination of the relative shape of elastic-scattering angular distributions for the present evaluation. Furthermore, this procedure assures a reasonably systematic and physically licit behavior. The indicated file employs  $f_\ell$  coefficients defined by:

$$\frac{d\sigma}{d\Omega} = \frac{\sigma}{2\pi} \left[ \sum_{\ell=0}^n \frac{2\ell+1}{2} f_\ell P_\ell \right] \quad (1)$$

where  $\sigma$  is the elastic scattering cross section and  $P_\ell$  the legendre polynomials. The expansion was terminated by judgements based on the magnitudes of the contributions from various angular momenta in the model calculations.

At neutron energies of  $\sim 5.0$  MeV the evaluated angle-integrated elastic scattering cross sections were based upon the firm experimental foundation described in Ref. 1. At energies of  $\sim 2.5$  MeV, the non-elastic cross section can be reasonably deduced from experimental information. At these energies, the consistency between measured total, elastic and non-elastic cross

sections was good. However, in the evaluation process small adjustments of the elastic cross section were made to assure the exact consistency required of the numerical file. The adjustments were well within the uncertainties of the measured elastic cross sections. At 8.05 MeV, the angle-integrated elastic cross section calculated from the Model is in good agreement with the measured value of Holmqvist et al. (17). Thus the Model was used to interpolate the elastic cross section from  $\approx$  5.0 to 8.05 MeV. The non-elastic cross sections at energies of 2.5 to 8.0 MeV, deduced from the evaluated total and elastic scattering cross sections, tend to be smaller than those reported by Thomson from measurements (18) though not generally outside the errors of the latter measured values.

Measured elastic scattering results at energies above  $\approx$  8.0 MeV are limited to the two 14 MeV results of Refs. 15 and 16. Neither measurement gives good definition at the very forward angles that heavily contribute to the angle-integrated elastic scattering cross section. An attempt was made to numerically deduce the 14.0 MeV angle-integrated elastic scattering cross section from the differential measurements of Western et al. (15). "Wick's Limit" was used as a zero-degree point. The measured distribution was smoothly interpolated between measured values and extrapolated from the last measured point at  $\approx$  140 deg. to 180 deg. Numerical integration of this extrapolated distribution resulted in an angle-integrated cross section of 2.05 b. Furthermore, it was noted that 85% of the cross section was obtained from the angular interval 0 to 30 deg. and explicitly involved only three of the Western et al. differential measurements. The Model calculations of Ref. 1 lead to a calculated 14.0 MeV elastic cross section of 2.9 b. The two potentials proposed by Holmqvist et al. (17) and based upon the analysis of high energy elastic scattering gave 2.30 and 2.34 b. All three calculations gave total cross sections in good agreement with the experimental 14.0 MeV value. Several other potentials gave 14.0 MeV elastic scattering cross sections in the range 2.3-3.0 b

but an inferior description of the measured total cross section from these considerations a 14.0 MeV elastic scattering cross section of 2.3 b was chosen for the present evaluation. It is consistent with: a) the lower values predicted by calculations giving reasonable agreement with the measured total cross section, b) the measured elastic scattering at 8.05 MeV and c) the present re-interpretation of the Western et al. measurements with a reasonable uncertainty estimate. The evaluation implies a 14.0 MeV non-elastic cross section of  $\approx$  1.65 b. The latter is a critical value as it sets an upper limit on the sum of partial non-elastic cross sections. The present evaluation employs the potential of Holmqvist et al. to interpolate the elastic cross section between 8.05 and 14.0 MeV and extrapolate it to 20.0 MeV. The resulting evaluated elastic scattering cross section over the energy range 0.1 to 20.0 MeV is shown in Fig. 2. Generally, the present evaluation differs from that of ENDF-III MAT-1164 by 10% or more over much of the energy range. There are some small fluctuations in the present evaluated results near 2.0 MeV. These are reflections of similar artifacts in the total inelastic cross section arising from detailed channel competition in the discrete inelastic processes. The present evaluated discrete inelastic cross sections are smooth curves not reflecting these detailed effects. These discrete inelastic cross sections, combined with the linear interpolation scheme employed in the file, lead to the above small fluctuations. "Cosmetic" treatment could have removed these artifacts with no significant physical change in an applied context. Such manipulations were felt unwarranted and would have appreciably increased the numerical volume of the file.

At energies  $\approx$  8.0 MeV, the present evaluated elastic scattering cross sections are judged reliable to better than  $\pm$  10 percent. The various measurements and model calculations are generally consistent with this estimate. Above 8.0 MeV the uncertainty increases and may be as large as 20 percent at 14 MeV and above. This is a substantive matter; as the elastic uncertainty has an impact on important non-elastic cross sections (e.g. (n;2n)). An

improved measurement of the 14 MeV elastic scattering cross sections with emphasis on the angular region 0 to 45 degrees would contribute appreciably to the quality of the evaluated file.

### C. Inelastic Scattering Cross Sections

The evaluation of discrete inelastic neutron excitation cross sections was largely based upon the neutron detection measurements described in Refs. 1 and 2. The corresponding reaction Q-values are given in Table 1. The Q-value selection was such as to group the individual excitations in a manner comparable to the experimental resolutions of the neutron measurements and did not fully represent the detailed structure observed in  $(n;n',\gamma)$  studies (for example in new work of Ref. 19). However, the latter detail is not usually critical to neutronic calculation (e.g. the distinction between the excitation of 809 and 80 keV states is relatively unimportant) and, at present, the energetics and cross sections for the excitation of the detailed structure are not unambiguous. Model calculations were of little assistance in the inelastic evaluation due to uncertainties in excited structure and therefore the procedure was essentially empirical. Exceptions were the deduction of the cross sections for the excitation of the 29 keV state, which were based entirely upon calculation, and the behavior of some of the cross sections near threshold where model-determined shapes offer guidance. The resulting evaluated discrete inelastic excitation cross sections are shown in Fig. 3 and given numerically in Appendix A. As noted above, the evaluated discrete inelastic excitation cross sections were smooth curves not reflecting the detailed onset of competing channels and, as a consequence, their summation shows small fluctuations.

The onset of the continuum inelastic excitation cross section is at  $\approx 2.5$  MeV (i.e. the energy of the last discretely observed excited state) and becomes the entire inelastic cross section at 6.0 MeV. Throughout this evaluation the continuum inelastic

scattering cross section was treated as a free parameter adjusted to assure consistency with the evaluation of non-elastic and other partial cross sections. The previous evaluation of Ref. 1 employed a simple Weisskopf temperature distribution to describe the emission of continuum-inelastic neutrons. This was noted as an over simplification which does not properly account for the high energy component such as is expected from pre-compound processes. The present revised file uses a point-wise distribution inclusive of a high energy tail consistent with the expected contributions from pre-compound processes. The spectral distributions at 14 MeV were determined from the work of Kammerdiener (16) and are consistent with the systematic results of an extensive integral test program based upon 14 MeV pulsed-sphere experiments carried out at Lawrence Livermore Laboratory (20). The file distributions are consistent with measured "temperature" results (18, 21) extended to include an expected pre-compound contribution. It is unfortunate that neither microscopic or integral niobium measurements are explicitly available to verify the present evaluated file.

The inelastic scattering cross sections of the present evaluation are appreciably different from those given in ENDF-III MAT-1164. The discrete inelastic cross sections of ENDF-III bear little resemblance to those of the present evaluation and are truncated at 1.4 MeV. The continuum inelastic cross section of the present evaluation is based largely upon the measured total and elastic scattering cross sections to 8.05 MeV as discussed above. It differs from that of ENDF-III by 20% or more over much of the energy range including the region below 8.0 MeV where experimental results give good guidance. Above  $\approx$  9.0 MeV both evaluations become more speculative but a very large difference remains.

The uncertainties associated with the inelastic scattering portions of the file are complex and difficult to quantitatively assay. Some guidelines are as follows. The discrete inelastic components are probably known within 10 to 15 percent in the prominent contributions and cumulative total at energies  $\approx$  5.0 MeV.

This is exclusive of uncertain components corresponding to excitations of  $\sim$  2.5 MeV. The magnitude of the continuum distribution is probably known within 10 to 20% to  $\sim$  6.0 MeV, i.e. the onset of uncertain processes such as (n;p,n). At higher energies the continuum uncertainty becomes larger, particularly, as the magnitude is treated as a free parameter and as a consequence will reflect uncertainties in other partial cross sections such as the elastic cross section noted above.

D. Neutron Radiative Capture;  $^{93}\text{Nb}(n;\gamma)^{94}\text{Nb}$  Cross Sections

The initial (n;γ) evaluated cross sections of Ref. 1 at energies of  $\sim$  0.1 MeV were taken directly from ENDF-III MAT-1164. Values at energies  $\geq$  0.1 MeV were deduced from the references of BNL-325 (22) and from the results of later work by Kompe (23), Macklin and Gibbons (24) and Rigaud et al. (25). The resulting cross sections are relatively small, and do not differ appreciably from the values given in ENDF-III below several MeV. Near 14.0 MeV the present evaluation is approximately a factor of two higher than ENDF-III due to the new measurements of Rigaud et al. The (n;γ,n') process was not considered; as theoretical estimates indicated a small value (26) and the present file system makes no explicit provision for this quantity.

Subsequent to the above W. Poenitz (3) has reported an extensive set of (n,γ) measurements extending to 2.5 MeV. These new results compare very favorably with the initial file of Ref. 1; therefore no revisions were made. These new measurements indicate that the present file is accurate to within  $\pm$  10 percent to 2.5 MeV. The uncertainties are larger at higher energies but the cross sections become very small.

E. The  $^{93}\text{Nb}(n;2n')^{92}\text{Nb}$  Cross Section

A number of measurements have determined the cross section for the activation of the  $\sim$  10 day isomer of  $^{92}\text{Nb}$  by means of the (n;2n') process (27-37). These results are relatively consistent and are summarized in Fig. 4. For this evaluation we emphasize

the values of Paulsen and Widera (27) as they are precise, detailed, extend over a wide energy range and are reasonably representative of a number of other measurements. The only appreciable discrepancies appear toward the threshold energy and are not large.

There have been three recent measurements of the total  $(n;2n')$  cross section. Mather et al., using coincidence techniques, report  $0.977 \pm 0.079$  b at 12.4 MeV and  $1.312 \pm 0.083$  b at 14.3 MeV (38). Paulsen and Widera obtain a value of 1.38 b  $\pm$  13% at 16.8 MeV relative to the  $^{59}\text{Co}(n;2n')$  cross section of 0.78 b (27). They used time-of-flight techniques that may not have been entirely free of perturbations from  $(n;n')$ ,  $(n;p,n')$  and  $(n;a,n')$  processes. The total  $(n;2n')$  cross section results of Mather et al. and of Paulsen and Widera are shown in Fig. 4.

Paulsen and Widera discuss the interpretation of the isomer activation cross sections in terms of the statistical model of Blittner et al. (39) and of the isomer-ratio formalism of Huizenga and Vandenbosch (40). The present evaluation utilizes the latter interpretation. The isomer-ratio calculations depend on the  $^{92}\text{Nb}$  spin and parity assignments involved and the spin cutoff factor. The spin and parity of the 135 keV isomeric state of  $^{92}\text{Nb}$  is apparently  $2^+$  (41). The ground state is probably  $7^+$  with an alternative of  $5^+$ . Results calculated by Paulsen and Widera using both ground state assumptions are shown in Fig. 4. A comparison of measured and calculated values suggests that the ground state is  $5^+$ . In either case the isomer ratio calculations lead to total  $(n;2n')$  cross sections that are essentially an energy independent multiple of the observed isomer-activation cross sections. Thus it was assumed in this evaluation that the total  $(n;2n')$  cross section could be obtained by suitably renormalizing the measured isomer-activation values. Over the relatively narrow energy range involved this assumption is physically reasonable. A normalization factor of 2.88 was chosen by comparing the measured isomer-activation values with the three total  $(n;2n')$  measurements.

The comparison gave greater weight to the values of Mather et al. as they were felt to be less subject to perturbation from other processes. The resulting evaluated total ( $n;2n'$ ) cross section is shown in Fig. 4. It differs from any of the three measured total ( $n;2n'$ ) cross sections by no more than one standard deviation and has the energy dependent shape of the Paulsen and Widera isomer-activation results. The shape is not particularly similar to that given in ENDF-III and there is a difference in the magnitudes of the two evaluations over large portions of the comparable energy range.

The 14.0 MeV evaluated cross section of 1.24 b is reasonably consistent with a number of estimates based upon systematics and theory; e.g. Adam and Jéki  $\approx$  1.08 b (42), Pearlstein 1.29 b (43), Blow 1.1-1.2 b (44), and Carter ( $n;2n'$ ) + ( $n;p,n'$ )  $\approx$  1.5 b (46). Furthermore, the evaluation is consistent with the non-elastic cross section deduced above throughout the energy range, threshold to 20.0 MeV. The present revised file uses a point-wise presentation of the ( $n;2n$ ) emission spectrum consistent with systematics and the results of integral tests.

The magnitudes of the evaluated ( $n;2n$ ) cross sections of the file are probably known to within  $\pm$  15 to 20% in the energy range 12 to 14 MeV. At both higher and lower energies the uncertainties increase due to uncertainties in isomer-ratio corrections, lack of direct measurements and uncertain competition from other exit channels.

#### F. The $^{93}\text{Nb}(n;3n')$ $^{91}\text{Nb}$ Cross Section

The systematics of this cross section, based upon a statistical model, are discussed by Liskien (46). He concludes that the total reaction cross section is  $\approx$  180 mb at an incident neutron energy of  $\approx$  19 MeV. Liskien also attempted to observe the activation of the  $^{91}\text{Nb}$  metastable state by the ( $n;3n'$ ) process and concluded that the respective cross section was  $\approx$  60 mb. This evaluation accepts the systematic value of Liskien as consistent with the experimental upper limit of the cross section for the activation of the metastable state and a reasonable isomer activation ratio.

The cross section is smoothly interpolated from threshold at 16.89 MeV to 20.0 MeV and the emission spectrum is given by a point-wise distribution. The uncertainties are relatively large but due to the high energy-threshold and relatively small cross section, this reaction will not be a factor in most neutronic calculations. There is no ENDF-III value for comparison.

G. The  $^{93}\text{Nb}(\text{n};\text{p})^{93}\text{Zr}$  Cross Section

$^{93}\text{Zr}$  is essentially a stable nucleus (i.e.,  $t_{1/2} = 9.5 \times 10^5$  y) and as a consequence conventional activation techniques have not been productive of ( $\text{n};\text{p}$ ) cross sections. Verbinski et al. have measured the emitted proton spectrum at emission energies of  $\sim$  6.0 MeV and an incident neutron energy of 14.0 MeV (47). They deduce a cross section for the emission of the observed protons of  $22 \pm 8$  mb which must be considered a lower limit of the total ( $\text{n};\text{p}$ ) reaction cross section. Further, they note the importance of direct reaction mechanisms. Chatterjee has reviewed the systematics of the ( $\text{n};\text{p}$ ) processes and correlated them with predictions based upon statistical theory (48). His conclusions indicate that the ( $\text{n};\text{p}$ ) cross section of  $^{93}\text{Nb}$  at an incident energy of 14.0 MeV is  $\sim 40$  mb. This value is 30% larger than that given in ENDF-III MAT-1164. The present evaluation uses the energy dependence of the reaction as given in MAT-1164, renormalized to the 40 mb value at 14.0 MeV suggested by Chatterjee. This procedure is consistent with the body of experimental knowledge of the ( $\text{n};\text{p}$ ) processes and with the reported direct observation of the proton product. The evaluated result is subject to large uncertainties.

H. The  $^{93}\text{Nb}(\text{n};\text{d})^{92}\text{Zr}$  and  $^{93}\text{Nb}(\text{n};\text{p},\text{n}')^{92}\text{Zr}$  Cross Sections

Both of these processes result in a stable nucleus. Consequently they are difficult to experimentally study and apparently no measured values have been reported. The  $^{93}\text{Nb}(\text{n};\text{d})^{92}\text{Zr}$  cross sections will probably be small and are not considered in the

present evaluation. The  $^{93}\text{Nb}(\text{n};\text{p},\text{n}')$   $^{92}\text{Zr}$  reaction is energetically less favorable than the  $(\text{n};\text{alpha},\text{n}')$  process and the latter is not large. However, from statistical arguments Carter has concluded that the  $(\text{n};\text{p},\text{n}')$  cross section at an incident energy of 14.0 MeV is 336 mb (45). This large value is not particularly consistent with fragmentary knowledge of the  $(\text{n};\text{p})$  cross section deduced from direct observation of the emitted protons (47) or with the partial cross sections and the non-elastic cross sections of the present evaluation. The  $(\text{n};\text{p},\text{n}')$  reaction in the present evaluation is included with the  $(\text{n};\text{n}')$  cross section and, in this sense, the latter may be considered a "neutron production" cross section. The combining of the two cross sections will not appreciably effect the use of the file in neutronic calculations as the emitted neutron spectra from the two reactions will probably not grossly differ.

I. The  $^{93}\text{Nb}(\text{n};2\text{p})^{92}\text{Y}$  Cross Section

Bramlitt and Fink set an upper experimental limit of 0.5 mb at 14.7 MeV on the cross section for this reaction (49). Due to this small value and the experimental uncertainty, this reaction was not considered in the present evaluation.

J. The  $^{93}\text{Nb}(\text{n};^3\text{He})^{91}\text{Y}$  Cross Section

The cross section for the process  $^{93}\text{Nb}(\text{n};^3\text{He})^{91m}\text{Y}$  at an incident energy of 14.7 MeV has been measured by Bramlitt and Fink (49) to be  $\sim 0.06$  mb. Even allowing for substantial enhancement due to corrections for the isomer ratio; the resulting total reaction cross section will likely be only a few tenths of a millibarn. Therefore, this cross section was ignored in the present evaluation.

K. The  $^{93}\text{Nb}(\text{n};T)^{91}\text{Zr}$  Cross Section

This process should be similar to the  $^{93}\text{Nb}(\text{n};^3\text{He})^{91}\text{Y}$  reaction which is small. Therefore, this reaction is not considered in the present evaluation.

L. The  $^{93}\text{Nb}(\text{n};\alpha)^{90}\text{Y}$  Cross Section

A number of experimental values of the cross section for the activation of both the ground and metastable state of  $^{90}\text{Y}$  by  $\sim 14.0$  MeV neutrons have been reported (50-53). The experimental values are generally consistent with a total reaction cross section of 9-10 mb. This value is in agreement with that given in the existing ENDF-III MAT-1164 file and the latter was accepted and extrapolated to 20.0 MeV for this re-evaluation.

M. The  $^{93}\text{Nb}(\text{n};\alpha,\text{n}')^{89}\text{Y}$  Cross Section

This reaction is energetically much less favorable than the  $^{93}\text{Nb}(\text{n};\alpha)^{90}\text{Y}$  process. The cross section for the excitation of the 16 sec. isomer of  $^{90}\text{Y}$  with 14.7 MeV neutrons is reported by Bramlitt and Fink (49) to be  $2.5 \pm 1.1$  mb. Even assuming a large  $\times 3-4$  factor for the isomer correction, the total reaction cross section will be  $\sim 10$  mb. In view of the relatively large error associated with the above measured quantity and the relatively small upper limit to the cross section, the evaluation smoothly interpolates the total reaction cross section from zero at threshold to 5 mb at 20.0 MeV and assumes an energy independent neutron "temperature" of 0.5 MeV. These are rather gross approximations but they will have little effect on most neutronic calculations.

N. Gamma-Ray Production Cross Sections

There have been a number of studies of gamma-ray emission as a result of low-energy neutron capture. For neutron energies less than 100 keV the only photon producing reaction is the  $(\text{n},\gamma)$  reaction. This evaluation assumes a constant photon spectrum from neutron capture for all neutron energies and adjusts the multiplicity to conserve energy. For neutron energies less than 100 keV photon production from neutron capture is presented explicitly. For neutron energies  $\geq 100$  keV the capture reaction is included with all other reactions as described below. A number of measurements dealing with the  $(\text{n};\text{n}',\gamma)$  process at incident energies of  $\sim$

3.0 MeV have been reported (see those cited in Ref. 1 and also the recent results of Ref. 19). Some of these are indicated in Fig. 3. However, the above results are localized and apparently there has not been a comprehensive experimental study of gamma-ray production processes in niobium extending over the broad energy range of the present evaluation. Therefore for energies  $\geq$  100 keV the present evaluation relies upon gamma-ray production files calculated from the formalism of Howerton and Plechaty (54) as modified by Perkins, Haight and Howerton (55). This is essentially an empirical-physical formalism based upon the systematics of measured gamma-ray production cross sections for  $A > 20$ . The calculations included contributions from all photon producing processes and were consistent with the known energetics. The emission spectra are complexes of exponential forms reducing in the limiting case of very large incident energies to a single exponential. The spectra are known to be complex at even rather low energies ( $\sim 1.0$  MeV) with no dominant single line thus the simple continuum distribution should be reasonably suitable for most fast neutron applications, since the neutron interaction data are energetically consistent. The overall uncertainty in gamma-ray production files generated by the above formalism is estimated to be 15 to 20 percent (54) based upon systematic comparisons with experiments over a wide mass range.

### III. SUMMARY REMARK

This evaluated file should provide an improved basis for applied neutronic calculations; particularly at relatively high energies such as associated with CTR technology. In some regions appreciable uncertainties remain. A major problem in the construction of the file was uncertain and contradictory knowledge of high energy elastic neutron scattering (e.g. at 14.0 MeV). Some charged-particle emitting processes of importance in radiation-damage studies are essentially unknown and reliance must be placed upon

systematics. In addition, gamma-ray production cross sections and associated emission spectra are largely unknown experimentally. Alleviating these uncertainties will require improvements in basic experimental and theoretical results. Work toward those objectives is now in progress and it is the intent to again revise and update the niobium file when the new information becomes available in substantive quantities.

## References

1. Fast Neutron Processes in Niobium--Measurements and Evaluation, A. Smith et al., Argonne National Laboratory Report AP/CTR/TM-4 (1973).
2. A. Smith et al., Zeits. Phys., 264 379 (1973).
3. W. Poenitz, to be published.
4. M. S. Allen and M. K. Drake, Gulf General Atomic Report GA-8133 (1967), See also ENDF-III, MAT-1164, National Neutron Cross Section Center, Brookhaven National Laboratory.
5. A. H. Wapstra and N. B. Gove, Nuclear Data, A9 267 (1971).
6. National Neutron Cross Section Center, Brookhaven National Laboratory, This compilation and evaluation center maintains numerical files used herein particularly ENDF-III, MAT-1164 niobium evaluated file.
7. D. Miller, R. K. Adair, C. K. Bockelman and S. E. Darden, Phys. Rev., 88 83 (1952).
8. C. A. Uttley, numerical data from the National Neutron Cross Section Center, Brookhaven National Laboratory.
9. A. Langsdorf, Jr., R. O. Lane and J. E. Monahan, Argonne National Laboratory Report ANL-5567 (Rev), (1961).
10. K. Seth, Proc. Conf. on Nuclear Structure Study with Neutrons, p.540 North-Holland Pub. Co. (1966) Amsterdam.
11. D. Reitmann, C. A. Engelbrecht and A. B. Smith, Nucl. Phys., 48 593 (1963).
12. A. D. Carlson and H. H. Barschall, Phys. Rev., 158 1142 (1967).
13. D. G. Foster, Jr. and D. W. Glasgow, Phys. Rev., 3C 576 (1971).
14. C. A. Engelbrecht and H. Fiedeldey, Ann. Phys., 42 262 (1967).
15. G. T. Western, F. L. Gibbons, J. R. Williams and H. G. Carter, General Dynamics Report AFWL-TR-65-216 Vol. 2 (1966).
16. J. L. Kammerdiener, Neutron Spectra Emitted by Pu-239, U-238, U-235, Pb, Nb, Ni, AL and C Irradiated by 14 MeV Neutrons, Lawrence Livermore Laboratory Report, UCRL-51232 (1972).
17. B. Holmqvist and T. Wiedling. Akliebolaget Atomenergi Report AE-430 (1971).
18. D. B. Thomson, Phys. Rev., 129 1649 (1965).

19. I. van Heerden and W. McMurray, *Zeits. Phys.*, 260 9 (1973).
20. C. Wong et al., Livermore Pulsed Sphere Program; Program Summary Through July 1971, Lawrence Livermore Report, UCRL-51144 Rev. 1, (1972).
21. R. E. Coles, Atomic Weapons Research Establishment Report AWRE-0-66/71, (1971), Aldermaston.
22. M. D. Goldberg, S. F. Mughabghab, S. N. Purohit, B. A. Magurno and V. M. May, Brookhaven National Laboratory Report, BNL-325, 2nd. Ed., Suppl. No. 2 (1966), and preceding editions.
23. D. Kompe, *Nucl. Phys.*, A133 513 (1969).
24. D. Macklin and J. Gibbons, *Phys. Rev.*, 159 1007 (1967).
25. F. Rigaud, J. L. Irigaray and G. Y. Petit, *Nucl. Phys.*, A173 551 (1971).
26. P. A. Moldauer, Private Communication.
27. A. Paulsen and R. Widera, *Z. Physik*, 238 23 (1970).
28. P. Strohal, N. Cindro and B. Eman, *Nucl. Phys.*, 30 49 (1962).
29. H. Vonach and H. Munzer, *Oster. Akad. Wiss.*, 6 120 (1959).
30. R. Rieder and H. Munzer, *Acta. Phys. Austr.*, 23 42 (1966).
31. L. Husain, A. Bari and P. K. Kuroda, *Phys. Rev.*, C1 1233 (1970).
32. H. Tewes et al., Univ. Calif. Rad. Lab. Report UCRL-6028T (1961).
33. V. Glagolev and P. Yampol'skii, *JETP*, 13 520 (1961).
34. E. Bramlitt and R. Fink, *Phys. Rev.*, 131 2649 (1963).
35. W. Alford et al., Redstone Arsenal Report RR-Tr-62-1 (1962).
36. M. Bormann, H. Bissem, E. Magiera and R. Warnemünde, *Nucl. Phys.*, A157 481 (1970).
37. W. Lu, N. Ranakumar and R. W. Fink, *Rev.*, C1 350 (1970).
38. D. S. Mather, P. F. Bampton, R. E. Coles, G. James and P. J. Nind, Atomic Weapons Research Establishment Report AWRE-0-72/72 (1972).
39. H. Büttner, A. Lindner and H. Meldner, *Nucl. Phys.*, 63 615 (1965).
40. J. Huizenga and R. Vandenbosch, *Phys. Rev.*, 120 1305 (1960).
41. Nuclear Data Sheets for A=93. Prepared by D. C. Kocher, to be published.
42. A. Adam and L. Jéki, *Acta. Physica Acad. Sci. Hungary*, 26 335 (1969).
43. S. Pearlstein, to be published.
44. S. Blow, *J. Nucl. Energy*, 26 9 (1972).
45. H. G. Carter, Proc. of Conf. on Neutron Cross Section Technology, Washington, p. 682, Vol. 2, CONF - 660303 (1966).
46. H. Liskien, *Nucl. Phys.*, A118 379 (1968).
47. V. Verbinski, T. Hurlimann, W. Stephens and E. Winhold, *Phys. Rev.*, 108 779 (1957).

48. A. Chatterjee, Nucl. Phys., 60 273 (1964).
49. E. T. Bramlett and R. W. Fink, Phys. Rev., 131 2649 (1963).
50. H. Blosser, C. Goodman and T. Handley, Phys. Rev., 110 531 (1958).
51. U. Facchini, E. Saetta-Menickella, F. Tonolini and L. Tonolini-Severgnini, Nucl. Phys., 51 460 (1964).
52. E. Saetta-Menickella, F. Tonolini and L. Tonolini-Severgnini, Nucl. Phys., 51 449 (1964).
53. P. Kulisev, V. Ajdacic, N. Cindro, B. Lalovic and P. Strohal, Nucl. Phys., 54 17 (1964).
54. R. Howerton and E. Plechaty, Nucl. Sci. and Eng., 32 178 (1968).
55. S. Perkins, R. Haight and R. Howerton, to be published (1974).

Table 1. Particle Reactions and Processes Contributing to this Evaluation

<u>Reaction-Process</u>	<u>Q(MeV)</u>	<u>Threshold (MeV)</u>
$^{93}\text{Nb}(\text{Total Cross Section})$	---	---
$^{93}\text{Nb}(\text{n};\gamma) ^{94}\text{Nb}$	---	---
$^{93}\text{Nb}(\text{n};\text{n}') ^{93}\text{Nb}$		
a	0.0 (elastic)	0.0
b	-0.029	0.02931
c	-0.740	0.74792
d	-0.810	0.81867
e	-0.959	0.96926
f	-1.070	1.08145
g	-1.315	1.32917
h	-1.488	1.50392
i	-1.674	1.69191
j	-1.947	1.96783
k	-2.159	2.18210
l	-2.335	2.35998
m	-2.519	2.54595
n	---	2.54595
		(Onset of continuum distribution)
$^{93}\text{Nb}(\text{n};2\text{n}') ^{92}\text{Nb}$	-8.826	8.9204
$^{93}\text{Nb}(\text{n};3\text{n}') ^{91}\text{Nb}$	-16.718	16.8968
$^{93}\text{Nb}(\text{n};\text{p}) ^{93}\text{Zr}$	+0.719	0.0
$^{93}\text{Nb}(\text{n};\text{p},\text{n}') ^{92}\text{Zr}$	-6.039	6.1036
$^{93}\text{Nb}(\text{n};\text{d}) ^{92}\text{Zr}$	-3.815	3.8558
$^{93}\text{Nb}(\text{n};\text{T}) ^{91}\text{Zr}$	-6.192	6.25825
$^{93}\text{Nb}(\text{n};2\text{p}) ^{92}\text{Y}$	-8.880	8.969
$^{93}\text{Nb}(\text{n};^3\text{He}) ^{91}\text{Y}$	-7.718	7.8005
$^{93}\text{Nb}(\text{n};\alpha) ^{90}\text{Y}$	+4.914	0.0
$^{93}\text{Nb}(\text{n};\alpha,\text{n}') ^{89}\text{Y}$	-1.946	1.9668
$^{93}\text{Nb}(\text{n};\text{x},\gamma)$ , gamma-ray production processes		

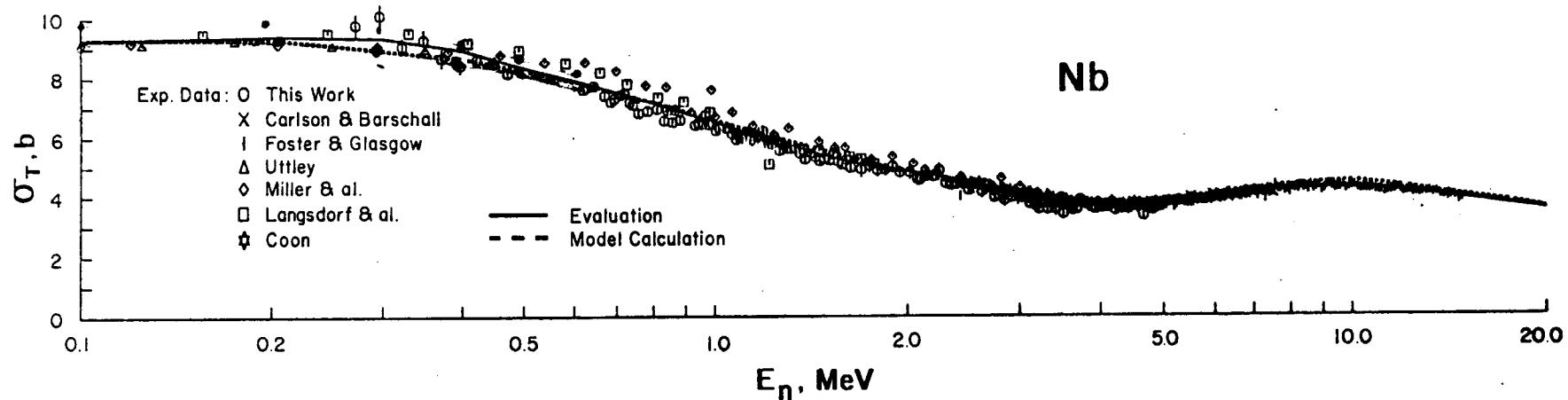


Fig. 1. Comparison of measured, calculated and evaluated total neutron cross sections of niobium from 0.1 to 20.0 MeV. Experimental data points are defined in Ref. 1.

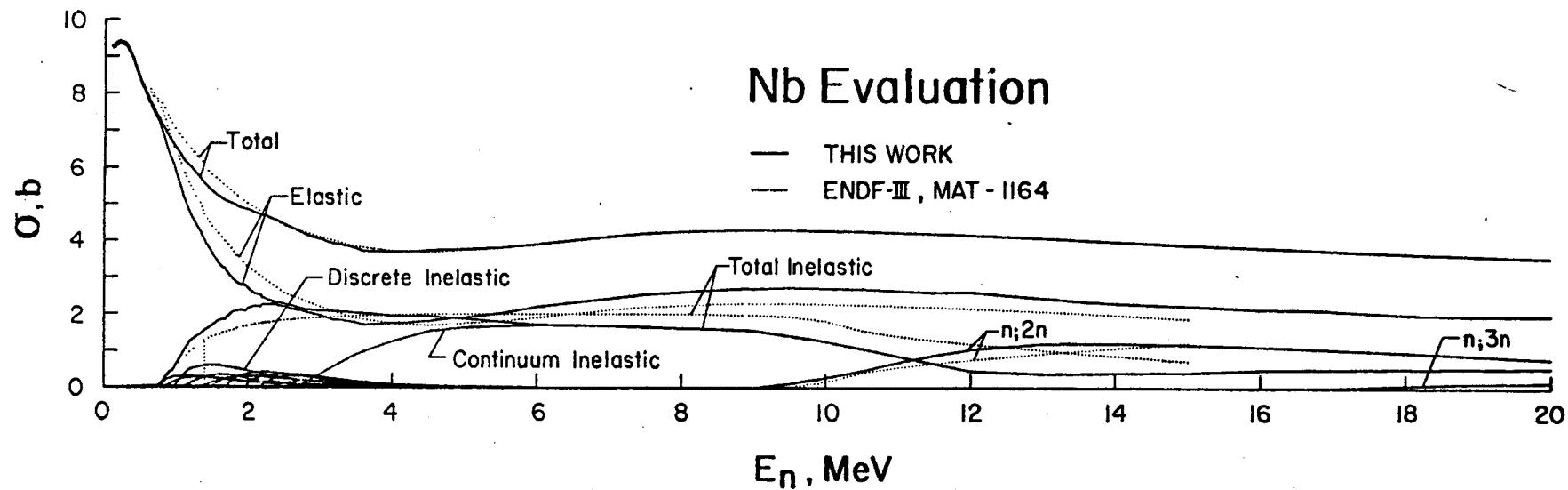


Fig. 2. Summary comparison of the results of the present evaluation with those of ENDF-III, MAT-1164.

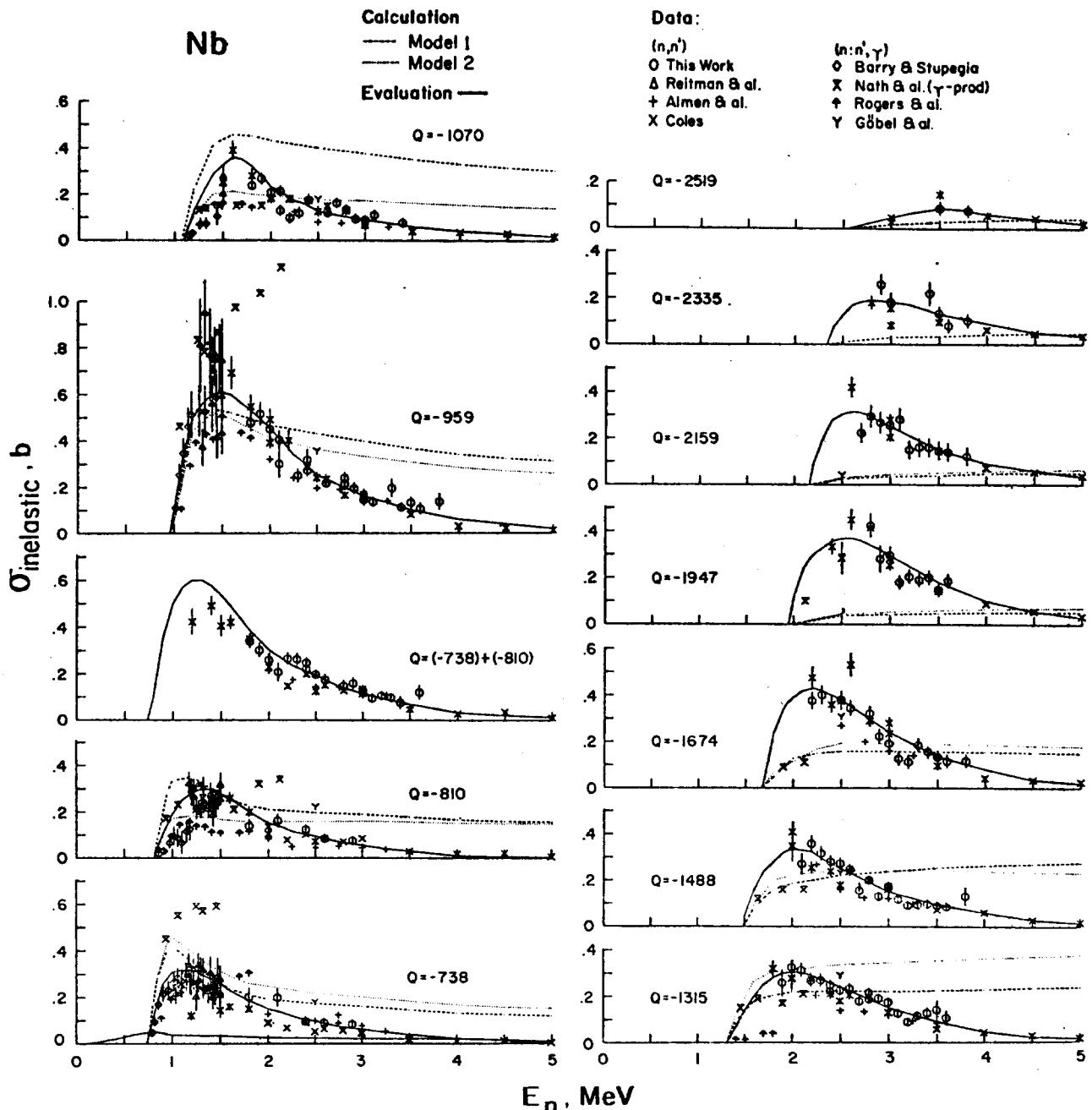


Fig. 3. Comparison of measured, calculated and evaluated discrete inelastic excitation cross sections of niobium. Curves indicate calculation and evaluation as described in Ref. 1. Data points indicate measured values as defined in Ref. 1.

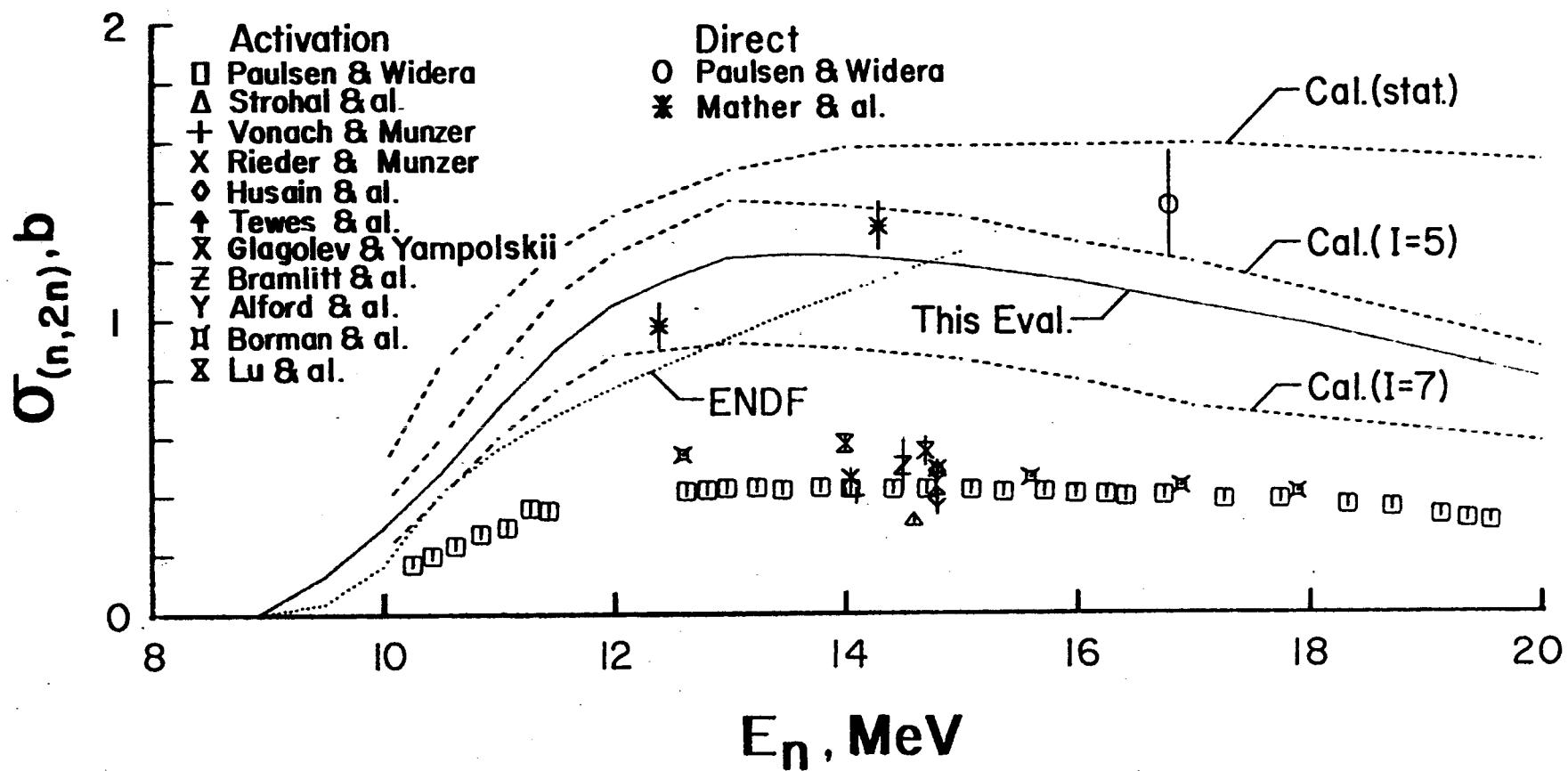


Fig. 4. Comparison of measured, calculated and evaluated  $(n;2n')$  cross sections of niobium. Data points indicate measured values and dotted curves calculated values as defined in Ref. 1. Solid curve denotes the present evaluation.

4.10930+ 4	9.21051+ 1	1	0	0	547094	1451	1
0.00000+ 0	0.00000+ 0	0	0	10	07094	1451	2
NIOBIUM-93 EVALUATION BY R. HØWERTØN AND A. SMITH, MAY-1974					7094	1451	3
*****					7094	1451	4
ALL VALUES FØR NEUTRØN ENERGIES ØF LESS THAN 100 KEV TAKEN					7094	1451	5
DIRECTLY FRØM EVALUATION ØF ALLEN + DRAKE GIVEN IN MAT-1164.					7094	1451	6
VALUES AT ENERGIES ABØVE 100 KEV ARE ESSENTIALLY BASED UPØN					7094	1451	7
EXPERIMENT AND THEORECTICAL CALCULATION AS DESCRIBED IN DETAIL					7094	1451	8
BY A. B. SMITH IN AP/CTR/TM-4 (1973), GAMMA RAY FILES COMPUTED BY R. HØWERTØN. HIGH ENERGY NEUTRØN EMISSION PROPERTIES					7094	1451	9
PREPARED BY R. HØWERTØN.					7094	1451	10
*****					7094	1451	11
*****					7094	1451	12
1	451	66	7094	1451	13		
2	151	241	7094	1451	14		
3	1	51	7094	1451	15		
3	2	39	7094	1451	16		
3	4	29	7094	1451	17		
3	16	9	7094	1451	18		
3	17	5	7094	1451	19		
3	22	6	7094	1451	20		
3	51	12	7094	1451	21		
3	52	12	7094	1451	22		
3	53	12	7094	1451	23		
3	54	11	7094	1451	24		
3	55	11	7094	1451	25		
3	56	9	7094	1451	26		
3	57	9	7094	1451	27		
3	58	10	7094	1451	28		
3	59	10	7094	1451	29		
3	60	9	7094	1451	30		
3	61	8	7094	1451	31		
3	62	6	7094	1451	32		
3	91	11	7094	1451	33		
3	102	28	7094	1451	34		
3	103	13	7094	1451	35		
3	107	12	7094	1451	36		
3	251	14	7094	1451	37		
3	252	14	7094	1451	38		
3	253	14	7094	1451	39		
4	2	161	7094	1451	40		
4	16	10	7094	1451	41		
4	17	10	7094	1451	42		
4	22	10	7094	1451	43		
4	51	10	7094	1451	44		
4	52	10	7094	1451	45		
4	53	10	7094	1451	46		
4	54	10	7094	1451	47		
4	55	10	7094	1451	48		
4	56	10	7094	1451	49		
4	57	10	7094	1451	50		
4	58	10	7094	1451	51		
4	59	10	7094	1451	52		
4	60	10	7094	1451	53		
4	61	10	7094	1451	54		
4	62	10	7094	1451	55		
4	91	10	7094	1451	56		
5	16	141	7094	1451	57		
5	17	47	7094	1451	58		
5	22	160	7094	1451	59		

5	91	208	7094	1451	60
12	102	4	7094	1451	61
13	3	9	7094	1451	62
14	3	1	7094	1451	63
14	102	1	7094	1451	64
15	3	398	7094	1451	65
15	102	22	7094	1451	66
			7094	1	67
4.10930+	4	9.21051+	1	0	7094 0 68
4.10930+	4	1.00000+	0	0	07094 2151 69
1.00000-	5	7.50000+	3	1	07094 2151 70
4.50000+	0	7.02400-	1	0	07094 2151 71
9.21051+	1	0.00000+	0	0	07094 2151 72
1.05800+	2	4.50000+	0	1.45450-	1 4.50000- 4 1.45000- 1 0.00000+ 07094 2151 73
1.19200+	2	4.50000+	0	1.49000-	1 4.00000- 3 1.45000- 1 0.00000+ 07094 2151 74
1.93800+	2	4.50000+	0	1.86000-	1 3.60000- 2 1.50000- 1 0.00000+ 07094 2151 75
3.35500+	2	4.50000+	0	1.95600-	1 1.56000- 2 1.80000- 1 0.00000+ 07094 2151 76
3.78400+	2	4.50000+	0	3.00000-	1 1.05000- 1 1.95000- 1 0.00000+ 07094 2151 77
4.60300+	2	4.50000+	0	1.87700-	1 7.70000- 3 1.80000- 1 0.00000+ 07094 2151 78
6.04400+	2	4.50000+	0	1.74650-	1 3.40000- 3 1.71250- 1 0.00000+ 07094 2151 79
6.40800+	2	4.50000+	0	1.76550-	1 5.30000- 3 1.71250- 1 0.00000+ 07094 2151 80
7.41400+	2	4.50000+	0	3.65250-	1 1.94000- 1 1.71250- 1 0.00000+ 07094 2151 81
9.12300+	2	4.50000+	0	1.74750-	1 3.50000- 3 1.71250- 1 0.00000+ 07094 2151 82
9.34700+	2	4.50000+	0	6.60000-	1 4.30000- 1 2.30000- 1 0.00000+ 07094 2151 83
1.00900+	3	4.50000+	0	6.91250-	1 5.20000- 1 1.71250- 1 0.00000+ 07094 2151 84
1.10770+	3	4.50000+	0	2.13300-	1 9.30000- 3 2.04000- 1 0.00000+ 07094 2151 85
1.12720+	3	4.50000+	0	2.19000-	1 1.50000- 2 2.04000- 1 0.00000+ 07094 2151 86
1.14770+	3	4.50000+	0	3.27000-	1 1.82000- 1 1.45000- 1 0.00000+ 07094 2151 87
1.17530+	3	4.50000+	0	4.44250-	1 2.73000- 1 1.71250- 1 0.00000+ 07094 2151 88
1.19390+	3	4.50000+	0	2.16250-	1 4.50000- 2 1.71250- 1 0.00000+ 07094 2151 89
1.22890+	3	4.50000+	0	2.13250-	1 4.20000- 2 1.71250- 1 0.00000+ 07094 2151 90
1.39310+	3	4.50000+	0	3.52250-	1 1.81000- 1 1.71250- 1 0.00000+ 07094 2151 91
1.45200+	3	4.50000+	0	1.02925+	0 8.58000- 1 1.71250- 1 0.00000+ 07094 2151 92
1.52930+	3	4.50000+	0	2.17900-	1 1.39000- 2 2.04000- 1 0.00000+ 07094 2151 93
1.53990+	3	4.50000+	0	2.31000-	1 2.70000- 2 2.04000- 1 0.00000+ 07094 2151 94
1.57620+	3	4.50000+	0	3.70250-	1 1.99000- 1 1.71250- 1 0.00000+ 07094 2151 95
1.65380+	3	4.50000+	0	2.49000-	1 4.50000- 2 2.04000- 1 0.00000+ 07094 2151 96
1.81000+	3	4.50000+	0	2.60250-	1 8.90000- 2 1.71250- 1 0.00000+ 07094 2151 97
1.83200+	3	4.50000+	0	8.86250-	1 7.15000- 1 1.71250- 1 0.00000+ 07094 2151 98
1.99000+	3	4.50000+	0	2.25000-	1 2.10000- 2 2.04000- 1 0.00000+ 07094 2151 99
2.02100+	3	4.50000+	0	8.86250-	1 7.15000- 1 1.71250- 1 0.00000+ 07094 2151 100
2.06800+	3	4.50000+	0	2.64000-	1 6.00000- 2 2.04000- 1 0.00000+ 07094 2151 101
2.07400+	3	4.50000+	0	3.44250-	1 1.73000- 1 1.71250- 1 0.00000+ 07094 2151 102
2.14600+	3	4.50000+	0	2.59000-	1 5.50000- 2 2.04000- 1 0.00000+ 07094 2151 103
2.15400+	3	4.50000+	0	4.61250-	1 2.90000- 1 1.71250- 1 0.00000+ 07094 2151 104
2.22900+	3	4.50000+	0	3.46250-	1 1.75000- 1 1.71250- 1 0.00000+ 07094 2151 105
2.33500+	3	4.50000+	0	2.91000-	1 8.70000- 2 2.04000- 1 0.00000+ 07094 2151 106
2.34100+	3	4.50000+	0	6.63000-	1 4.65000- 1 2.04000- 1 0.00000+ 07094 2151 107
2.41900+	3	4.50000+	0	2.23125+	0 2.06000+ 0 1.71250- 1 0.00000+ 07094 2151 108
2.45100+	3	4.50000+	0	2.29000-	1 2.50000- 2 2.04000- 1 0.00000+ 07094 2151 109
2.46300+	3	4.50000+	0	2.99000-	1 9.50000- 2 2.04000- 1 0.00000+ 07094 2151 110
2.63700+	3	4.50000+	0	2.48125+	0 2.31000+ 0 1.71250- 1 0.00000+ 07094 2151 111
2.68600+	3	4.50000+	0	2.49000-	1 4.50000- 2 2.04000- 1 0.00000+ 07094 2151 112
2.70900+	3	4.50000+	0	2.39000-	1 3.50000- 2 2.04000- 1 0.00000+ 07094 2151 113
2.92400+	3	4.50000+	0	3.66250-	1 1.95000- 1 1.71250- 1 0.00000+ 07094 2151 114
2.95000+	3	4.50000+	0	5.41250-	1 3.70000- 1 1.71250- 1 0.00000+ 07094 2151 115
3.14300+	3	4.50000+	0	2.44000-	1 4.00000- 2 2.04000- 1 0.00000+ 07094 2151 116
3.22400+	3	4.50000+	0	2.27000-	1 2.30000- 2 2.04000- 1 0.00000+ 07094 2151 117
3.27200+	3	4.50000+	0	2.49000-	1 4.50000- 2 2.04000- 1 0.00000+ 07094 2151 118

3.35500+	3	4.50000+	0	4.01250-	1	2.30000-	1	1.71250-	1	0.00000+	07094	2151	120
3.37300+	3	4.50000+	0	2.59000-	1	5.50000-	2	2.04000-	1	0.00000+	07094	2151	121
3.39200+	3	4.50000+	0	1.16125+	0	9.90000-	1	1.71250-	1	0.00000+	07094	2151	122
3.52200+	3	4.50000+	0	1.12125+	0	9.50000-	1	1.71250-	1	0.00000+	07094	2151	123
3.58700+	3	4.50000+	0	2.49000-	1	4.50000-	2	2.04000-	1	0.00000+	07094	2151	124
3.60700+	3	4.50000+	0	2.84000-	1	8.00000-	2	2.04000-	1	0.00000+	07094	2151	125
3.66900+	3	4.50000+	0	3.84000-	1	1.80000-	1	2.04000-	1	0.00000+	07094	2151	126
3.76000+	3	4.50000+	0	6.01250-	1	4.30000-	1	1.71250-	1	0.00000+	07094	2151	127
3.83900+	3	4.50000+	0	3.34000-	1	1.30000-	1	2.04000-	1	0.00000+	07094	2151	128
3.92500+	3	4.50000+	0	3.04000-	1	1.00000-	1	2.04000-	1	0.00000+	07094	2151	129
3.94000+	3	4.50000+	0	2.84000-	1	8.00000-	2	2.04000-	1	0.00000+	07094	2151	130
3.97400+	3	4.50000+	0	7.84000-	1	5.80000-	1	2.04000-	1	0.00000+	07094	2151	131
4.03600+	3	4.50000+	0	2.74000-	1	7.00000-	2	2.04000-	1	0.00000+	07094	2151	132
4.06600+	3	4.50000+	0	1.06125+	0	8.90000-	1	1.71250-	1	0.00000+	07094	2151	133
4.55300+	3	4.50000+	0	5.14390-	1	3.10390-	1	2.04000-	1	0.00000+	07094	2151	134
4.59500+	3	4.50000+	0	2.37315+	0	2.16915+	0	2.04000-	1	0.00000+	07094	2151	135
4.80700+	3	4.50000+	0	2.78880-	1	7.48800-	2	2.04000-	1	0.00000+	07094	2151	136
4.82500+	3	4.50000+	0	2.79019-	1	7.50190-	2	2.04000-	1	0.00000+	07094	2151	137
5.04300+	3	4.50000+	0	3.74434-	1	1.70434-	1	2.04000-	1	0.00000+	07094	2151	138
5.06300+	3	4.50000+	0	3.17848-	1	1.13848-	1	2.04000-	1	0.00000+	07094	2151	139
5.15000+	3	4.50000+	0	3.50514+	0	3.30114+	0	2.04000-	1	0.00000+	07094	2151	140
5.46500+	3	4.50000+	0	3.14890-	1	1.10890-	1	2.04000-	1	0.00000+	07094	2151	141
5.50900+	3	4.50000+	0	2.78223-	1	7.42230-	2	2.04000-	1	0.00000+	07094	2151	142
5.54300+	3	4.50000+	0	4.86910-	1	2.82910-	1	2.04000-	1	0.00000+	07094	2151	143
5.57100+	3	4.50000+	0	7.26473-	1	5.22473-	1	2.04000-	1	0.00000+	07094	2151	144
5.65200+	3	4.50000+	0	5.04720-	1	3.00720-	1	2.04000-	1	0.00000+	07094	2151	145
5.68700+	3	4.50000+	0	2.01389+	0	1.80989+	0	2.04000-	1	0.00000+	07094	2151	146
5.78800+	3	4.50000+	0	5.53960-	1	3.49960-	1	2.04000-	1	0.00000+	07094	2151	147
5.85500+	3	4.50000+	0	9.69180-	1	7.65180-	1	2.04000-	1	0.00000+	07094	2151	148
5.89800+	3	4.50000+	0	1.12558+	0	9.21576-	1	2.04000-	1	0.00000+	07094	2151	149
5.99900+	3	4.50000+	0	3.61193+	0	3.40793+	0	2.04000-	1	0.00000+	07094	2151	150
6.04400+	3	4.50000+	0	8.25940-	1	6.21940-	1	2.04000-	1	0.00000+	07094	2151	151
6.10800+	3	4.50000+	0	9.85540-	1	7.81540-	1	2.04000-	1	0.00000+	07094	2151	152
6.16800+	3	4.50000+	0	2.25990-	1	2.19900-	2	2.04000-	1	0.00000+	07094	2151	153
6.20800+	3	4.50000+	0	3.30066-	1	1.26066-	1	2.04000-	1	0.00000+	07094	2151	154
6.22100+	3	4.50000+	0	3.45971-	1	1.41971-	1	2.04000-	1	0.00000+	07094	2151	155
6.40600+	3	4.50000+	0	2.60511+	0	2.40111+	0	2.04000-	1	0.00000+	07094	2151	156
6.49800+	3	4.50000+	0	3.08793-	1	1.04793-	1	2.04000-	1	0.00000+	07094	2151	157
6.53500+	3	4.50000+	0	1.09323+	0	8.89230-	1	2.04000-	1	0.00000+	07094	2151	158
6.56500+	3	4.50000+	0	4.47080-	1	2.43080-	1	2.04000-	1	0.00000+	07094	2151	159
6.63000+	3	4.50000+	0	1.18110+	0	9.77100-	1	2.04000-	1	0.00000+	07094	2151	160
6.71100+	3	4.50000+	0	4.49763-	1	2.45763-	1	2.04000-	1	0.00000+	07094	2151	161
6.73400+	3	4.50000+	0	4.33770-	1	2.29770-	1	2.04000-	1	0.00000+	07094	2151	162
6.79500+	3	4.50000+	0	9.45890-	1	7.41890-	1	2.04000-	1	0.00000+	07094	2151	163
6.90400+	3	4.50000+	0	7.85630-	1	5.81630-	1	2.04000-	1	0.00000+	07094	2151	164
6.92700+	3	4.50000+	0	4.53687-	1	2.49687-	1	2.04000-	1	0.00000+	07094	2151	165
7.03900+	3	4.50000+	0	8.75190-	1	6.71190-	1	2.04000-	1	0.00000+	07094	2151	166
7.23700+	3	4.50000+	0	2.24570+	0	2.04170+	0	2.04000-	1	0.00000+	07094	2151	167
7.32200+	3	4.50000+	0	3.92250-	1	1.88250-	1	2.04000-	1	0.00000+	07094	2151	168
9.21051+	1	0.00000+	0		1	0	738			1237094	2151	169	
3.58000+	1	4.50000+	0	2.10110-	1	1.10000-	4	2.10000-	1	0.00000+	07094	2151	170
4.23000+	1	4.50000+	0	2.00088-	1	8.80000-	5	2.00000-	1	0.00000+	07094	2151	171
9.43000+	1	4.50000+	0	2.05350-	1	3.50000-	4	2.05000-	1	0.00000+	07094	2151	172
1.84300+	2	4.50000+	0	2.50200-	1	2.00000-	4	2.50000-	1	0.00000+	07094	2151	173
2.43700+	2	4.50000+	0	2.52200-	1	2.20000-	3	2.50000-	1	0.00000+	07094	2151	174
3.19000+	2	4.50000+	0	2.22000-	1	2.00000-	3	2.20000-	1	0.00000+	07094	2151	175
3.62600+	2	4.50000+	0	2.04270-	1	2.70000-	4	2.04000-	1	0.00000+	07094	2151	176
3.65000+	2	4.50000+	0	2.04500-	1	5.00000-	4	2.04000-	1	0.00000+	07094	2151	177
3.92500+	2	4.50000+	0	2.02600-	1	2.60000-	3	2.00000-	1	0.00000+	07094	2151	178
5.00600+	2	4.50000+	0	2.30100-	1	5.10000-	3	2.25000-	1	0.00000+	07094	2151	179

5.99300+	2	4.50000+	0	2.05200-	1	1.20000-	3	2.04000-	1	0.00000+	07094	2151	180
6.17700+	2	4.50000+	0	2.05400-	1	1.40000-	3	2.04000-	1	0.00000+	07094	2151	181
6.72000+	2	4.50000+	0	2.28800-	1	8.80000-	3	2.20000-	1	0.00000+	07094	2151	182
6.78200+	2	4.50000+	0	2.22200-	1	2.20000-	3	2.20000-	1	0.00000+	07094	2151	183
7.21300+	2	4.50000+	0	2.34700-	1	1.47000-	2	2.20000-	1	0.00000+	07094	2151	184
7.57300+	2	4.50000+	0	2.22000-	1	2.00000-	3	2.20000-	1	0.00000+	07094	2151	185
9.52700+	2	4.50000+	0	2.33300-	1	1.33000-	2	2.20000-	1	0.00000+	07094	2151	186
1.01640+	3	4.50000+	0	2.29200-	1	9.20000-	3	2.20000-	1	0.00000+	07094	2151	187
1.23300+	3	4.50000+	0	2.07511-	1	3.51140-	3	2.04000-	1	0.00000+	07094	2151	188
1.24300+	3	4.50000+	0	2.34200-	1	1.42000-	2	2.20000-	1	0.00000+	07094	2151	189
1.28360+	3	4.50000+	0	2.31000-	1	1.10000-	2	2.20000-	1	0.00000+	07094	2151	190
1.35040+	3	4.50000+	0	2.52800-	1	3.28000-	2	2.20000-	1	0.00000+	07094	2151	191
1.35390+	3	4.50000+	0	2.31000-	1	1.10000-	2	2.20000-	1	0.00000+	07094	2151	192
1.46680+	3	4.50000+	0	2.58000-	1	3.80000-	2	2.20000-	1	0.00000+	07094	2151	193
1.55600+	3	4.50000+	0	2.19000-	1	1.50000-	2	2.04000-	1	0.00000+	07094	2151	194
1.61600+	3	4.50000+	0	2.50000-	1	3.00000-	2	2.20000-	1	0.00000+	07094	2151	195
1.67850+	3	4.50000+	0	2.24600-	1	4.60000-	3	2.20000-	1	0.00000+	07094	2151	196
1.71200+	3	4.50000+	0	2.73000-	1	5.30000-	2	2.20000-	1	0.00000+	07094	2151	197
1.76700+	3	4.50000+	0	2.20000-	1	1.60000-	2	2.04000-	1	0.00000+	07094	2151	198
1.85700+	3	4.50000+	0	2.06586-	1	2.58600-	3	2.04000-	1	0.00000+	07094	2151	199
1.94600+	3	4.50000+	0	2.25400-	1	5.40000-	3	2.20000-	1	0.00000+	07094	2151	200
1.98100+	3	4.50000+	0	2.12000-	1	8.00000-	3	2.04000-	1	0.00000+	07094	2151	201
2.09900+	3	4.50000+	0	2.05833-	1	1.83300-	3	2.04000-	1	0.00000+	07094	2151	202
2.11700+	3	4.50000+	0	2.61000-	1	4.10000-	2	2.20000-	1	0.00000+	07094	2151	203
2.18640+	3	4.50000+	0	2.42000-	1	2.20000-	2	2.20000-	1	0.00000+	07094	2151	204
2.23700+	3	4.50000+	0	2.04060-	1	6.00000-	5	2.04000-	1	0.00000+	07094	2151	205
2.31000+	3	4.50000+	0	2.06900-	1	2.90000-	3	2.04000-	1	0.00000+	07094	2151	206
2.36100+	3	4.50000+	0	2.43000-	1	3.90000-	2	2.04000-	1	0.00000+	07094	2151	207
2.39200+	3	4.50000+	0	2.09900-	1	5.90000-	3	2.04000-	1	0.00000+	07094	2151	208
2.50900+	3	4.50000+	0	2.38000-	1	3.40000-	2	2.04000-	1	0.00000+	07094	2151	209
2.54500+	3	4.50000+	0	2.54000-	1	5.00000-	2	2.04000-	1	0.00000+	07094	2151	210
2.57600+	3	4.50000+	0	2.39000-	1	3.50000-	2	2.04000-	1	0.00000+	07094	2151	211
2.66100+	3	4.50000+	0	2.72000-	1	5.20000-	2	2.20000-	1	0.00000+	07094	2151	212
2.69600+	3	4.50000+	0	2.19577-	1	1.55770-	2	2.04000-	1	0.00000+	07094	2151	213
2.83200+	3	4.50000+	0	2.22000-	1	1.80000-	2	2.04000-	1	0.00000+	07094	2151	214
2.85400+	3	4.50000+	0	2.28000-	1	2.40000-	2	2.04000-	1	0.00000+	07094	2151	215
2.88400+	3	4.50000+	0	2.14000-	1	1.00000-	2	2.04000-	1	0.00000+	07094	2151	216
2.96750+	3	4.50000+	0	2.10537-	1	6.53700-	3	2.04000-	1	0.00000+	07094	2151	217
2.98400+	3	4.50000+	0	2.17000-	1	1.30000-	2	2.04000-	1	0.00000+	07094	2151	218
3.02000+	3	4.50000+	0	2.10595-	1	6.59500-	3	2.04000-	1	0.00000+	07094	2151	219
3.07500+	3	4.50000+	0	2.08436-	1	4.43600-	3	2.04000-	1	0.00000+	07094	2151	220
3.18700+	3	4.50000+	0	2.07387-	1	3.38700-	3	2.04000-	1	0.00000+	07094	2151	221
3.25400+	3	4.50000+	0	2.25000-	1	2.10000-	2	2.04000-	1	0.00000+	07094	2151	222
3.28100+	3	4.50000+	0	2.26000-	1	2.20000-	2	2.04000-	1	0.00000+	07094	2151	223
3.30500+	3	4.50000+	0	2.09749-	1	5.74900-	3	2.04000-	1	0.00000+	07094	2151	224
3.40600+	3	4.50000+	0	2.14000-	1	1.00000-	2	2.04000-	1	0.00000+	07094	2151	225
3.42500+	3	4.50000+	0	2.12000-	1	8.00000-	3	2.04000-	1	0.00000+	07094	2151	226
3.44200+	3	4.50000+	0	2.08694-	1	4.69400-	3	2.04000-	1	0.00000+	07094	2151	227
3.45900+	3	4.50000+	0	2.08705-	1	4.70500-	3	2.04000-	1	0.00000+	07094	2151	228
3.50000+	3	4.50000+	0	2.07550-	1	3.55000-	3	2.04000-	1	0.00000+	07094	2151	229
3.56400+	3	4.50000+	0	2.09970-	1	5.97000-	3	2.04000-	1	0.00000+	07094	2151	230
3.57500+	3	4.50000+	0	2.09979-	1	5.97900-	3	2.04000-	1	0.00000+	07094	2151	231
3.62800+	3	4.50000+	0	2.11228-	1	7.22800-	3	2.04000-	1	0.00000+	07094	2151	232
3.65000+	3	4.50000+	0	2.07625-	1	3.62500-	3	2.04000-	1	0.00000+	07094	2151	233
3.71600+	3	4.50000+	0	2.10096-	1	6.09600-	3	2.04000-	1	0.00000+	07094	2151	234
3.73200+	3	4.50000+	0	2.10109-	1	6.10900-	3	2.04000-	1	0.00000+	07094	2151	235
3.91800+	3	4.50000+	0	2.16519-	1	1.25190-	2	2.04000-	1	0.00000+	07094	2151	236
3.95800+	3	4.50000+	0	2.06517-	1	2.51700-	3	2.04000-	1	0.00000+	07094	2151	237
3.98500+	3	4.50000+	0	2.24000-	1	2.00000-	2	2.04000-	1	0.00000+	07094	2151	238
4.00000+	3	4.50000+	0	2.29298-	1	2.52980-	2	2.04000-	1	0.00000+	07094	2151	239

4.02100+	3	4.50000+	0	2.64000-	1	6.00000-	2	2.04000-	1	0.00000+	07094	2151	240
4.12000+	3	4.50000+	0	2.20689-	1	1.66890-	2	2.04000-	1	0.00000+	07094	2151	241
4.13800+	3	4.50000+	0	2.29731-	1	2.57310-	2	2.04000-	1	0.00000+	07094	2151	242
4.19000+	3	4.50000+	0	2.10473-	1	6.47300-	3	2.04000-	1	0.00000+	07094	2151	243
4.22800+	3	4.50000+	0	2.17005-	1	1.30050-	2	2.04000-	1	0.00000+	07094	2151	244
4.25200+	3	4.50000+	0	2.17041-	1	1.30410-	2	2.04000-	1	0.00000+	07094	2151	245
4.29100+	3	4.50000+	0	2.43304-	1	3.93040-	2	2.04000-	1	0.00000+	07094	2151	246
4.32000+	3	4.50000+	0	2.14516-	1	1.05160-	2	2.04000-	1	0.00000+	07094	2151	247
4.34600+	3	4.50000+	0	2.30370-	1	2.63700-	2	2.04000-	1	0.00000+	07094	2151	248
4.36500+	3	4.50000+	0	2.10603-	1	6.60300-	3	2.04000-	1	0.00000+	07094	2151	249
4.38000+	3	4.50000+	0	2.10607-	1	6.60700-	3	2.04000-	1	0.00000+	07094	2151	250
4.40100+	3	4.50000+	0	2.17268-	1	1.32680-	2	2.04000-	1	0.00000+	07094	2151	251
4.44900+	3	4.50000+	0	2.24010-	1	2.00100-	2	2.04000-	1	0.00000+	07094	2151	252
4.48000+	3	4.50000+	0	2.06677-	1	2.67700-	3	2.04000-	1	0.00000+	07094	2151	253
4.53900+	3	4.50000+	0	2.17474-	1	1.34740-	2	2.04000-	1	0.00000+	07094	2151	254
4.60600+	3	4.50000+	0	2.17574-	1	1.35740-	2	2.04000-	1	0.00000+	07094	2151	255
4.64700+	3	4.50000+	0	2.17634-	1	1.36340-	2	2.04000-	1	0.00000+	07094	2151	256
4.72800+	3	4.50000+	0	2.17752-	1	1.35720-	2	2.04000-	1	0.00000+	07094	2151	257
4.74000+	3	4.50000+	0	2.24654-	1	2.06540-	2	2.04000-	1	0.00000+	07094	2151	258
4.78000+	3	4.50000+	0	2.10914-	1	6.91400-	3	2.04000-	1	0.00000+	07094	2151	259
4.84000+	3	4.50000+	0	2.10957-	1	6.95700-	3	2.04000-	1	0.00000+	07094	2151	260
4.86800+	3	4.50000+	0	2.10977-	1	6.97700-	3	2.04000-	1	0.00000+	07094	2151	261
4.88500+	3	4.50000+	0	2.08194-	1	4.19400-	3	2.04000-	1	0.00000+	07094	2151	262
4.91000+	3	4.50000+	0	2.11007-	1	7.00700-	3	2.04000-	1	0.00000+	07094	2151	263
4.93200+	3	4.50000+	0	2.25068-	1	2.10680-	2	2.04000-	1	0.00000+	07094	2151	264
4.95500+	3	4.50000+	0	2.11039-	1	7.03900-	3	2.04000-	1	0.00000+	07094	2151	265
5.08500+	3	4.50000+	0	2.25393-	1	2.13930-	2	2.04000-	1	0.00000+	07094	2151	266
5.10500+	3	4.50000+	0	2.18290-	1	1.42900-	2	2.04000-	1	0.00000+	07094	2151	267
5.16500+	3	4.50000+	0	2.32747-	1	2.87470-	2	2.04000-	1	0.00000+	07094	2151	268
5.17800+	3	4.50000+	0	2.18392-	1	1.43920-	2	2.04000-	1	0.00000+	07094	2151	269
5.22900+	3	4.50000+	0	2.32925-	1	2.89250-	2	2.04000-	1	0.00000+	07094	2151	270
5.26500+	3	4.50000+	0	2.11256-	1	7.25600-	3	2.04000-	1	0.00000+	07094	2151	271
5.29200+	3	4.50000+	0	3.05844-	1	1.01844-	1	2.04000-	1	0.00000+	07094	2151	272
5.33500+	3	4.50000+	0	2.18608-	1	1.46080-	2	2.04000-	1	0.00000+	07094	2151	273
5.38700+	3	4.50000+	0	2.18679-	1	1.46790-	2	2.04000-	1	0.00000+	07094	2151	274
5.48000+	3	4.50000+	0	2.18805-	1	1.48050-	2	2.04000-	1	0.00000+	07094	2151	275
5.60000+	3	4.50000+	0	2.18967-	1	1.49670-	2	2.04000-	1	0.00000+	07094	2151	276
5.71600+	3	4.50000+	0	2.19121-	1	1.51210-	2	2.04000-	1	0.00000+	07094	2151	277
5.73500+	3	4.50000+	0	2.34292-	1	3.02920-	2	2.04000-	1	0.00000+	07094	2151	278
5.83000+	3	4.50000+	0	2.80354-	1	7.63540-	2	2.04000-	1	0.00000+	07094	2151	279
5.87400+	3	4.50000+	0	2.22394-	1	1.83940-	2	2.04000-	1	0.00000+	07094	2151	280
5.93600+	3	4.50000+	0	2.11705-	1	7.70500-	3	2.04000-	1	0.00000+	07094	2151	281
6.06900+	3	4.50000+	0	2.50742-	1	4.67420-	2	2.04000-	1	0.00000+	07094	2151	282
6.14500+	3	4.50000+	0	2.19678-	1	1.56780-	2	2.04000-	1	0.00000+	07094	2151	283
6.27500+	3	4.50000+	0	2.59451-	1	5.54510-	2	2.04000-	1	0.00000+	07094	2151	284
6.35000+	3	4.50000+	0	2.27906-	1	2.39060-	2	2.04000-	1	0.00000+	07094	2151	285
6.44500+	3	4.50000+	0	2.52169-	1	4.81690-	2	2.04000-	1	0.00000+	07094	2151	286
6.78000+	3	4.50000+	0	2.78107-	1	7.41070-	2	2.04000-	1	0.00000+	07094	2151	287
6.84100+	3	4.50000+	0	2.53626-	1	4.96260-	2	2.04000-	1	0.00000+	07094	2151	288
6.86000+	3	4.50000+	0	2.20565-	1	1.65650-	2	2.04000-	1	0.00000+	07094	2151	289
6.88000+	3	4.50000+	0	2.37178-	1	3.31780-	2	2.04000-	1	0.00000+	07094	2151	290
7.07100+	3	4.50000+	0	2.46045-	1	4.20450-	2	2.04000-	1	0.00000+	07094	2151	291
7.12900+	3	4.50000+	0	2.63103-	1	5.91030-	2	2.04000-	1	0.00000+	07094	2151	292
7.50000+	3	1.00000+	5	2	1	0				07094	2151	293	
4.50000+	0	7.02400-	1	0	0	3				07094	2151	294	
9.21051+	1	0.00000+	0	0	0	12				27094	2151	295	
1.55100+	2	4.00000+	0	1.00000+	0	1.93400-	3	2.00000-	1	0.00000+	07094	2151	296
1.26900+	2	5.00000+	0	1.00000+	0	2.36400-	3	2.00000-	1	0.00000+	07094	2151	297
9.21051+	1	0.00000+	0	1	0	24				47094	2151	298	
3.49600+	2	3.00000+	0	1.00000+	0	1.14400-	2	2.40000-	1	0.00000+	07094	2151	299

2.71900	2	4.00000	+ 0	2.00000	+ 0	1.47100	- 2	2.40000	- 1	0.00000	+ 0	07094	2151	300	
2.22500	2	5.00000	+ 0	2.00000	+ 0	1.79800	- 2	2.40000	- 1	0.00000	+ 0	07094	2151	301	
1.38300	2	6.00000	+ 0	1.00000	+ 0	2.12400	- 2	2.40000	- 1	0.00000	+ 0	07094	2151	302	
9.21051	1	0.00000	+ 0			2		0		36		67094	2151	303	
4.89500	2	2.00000	+ 0	1.00000	+ 0	1.43000	- 3	2.20000	- 1	0.00000	+ 0	07094	2151	304	
3.49600	2	3.00000	+ 0	2.00000	+ 0	2.00200	- 3	2.20000	- 1	0.00000	+ 0	07094	2151	305	
2.71900	2	4.00000	+ 0	2.00000	+ 0	2.57400	- 3	2.20000	- 1	0.00000	+ 0	07094	2151	306	
2.22500	2	5.00000	+ 0	2.00000	+ 0	3.14600	- 3	2.20000	- 1	0.00000	+ 0	07094	2151	307	
1.88300	2	6.00000	+ 0	2.00000	+ 0	3.71700	- 3	2.20000	- 1	0.00000	+ 0	07094	2151	308	
1.63200	2	7.00000	+ 0	1.00000	+ 0	4.28900	- 3	2.20000	- 1	0.00000	+ 0	07094	2151	309	
										7094	2	0	310		
										7094	0	0	311		
4.10930	4	9.21051	+ 1			0		99		0		07094	3	1	312
0.00000	0	0.00000	+ 0			0		0		2		1437094	3	1	313
7	5	143				2						7094	3	1	314
.10000E-04	.53025E	02	.10000E-02	.53025E	01	.10000E-01	.16768E	017094	3	1	315				
.25300E-01	.10542E	01	.10000E	.00	.53025E	00	.10000E	01	.16768E	007094	3	1	316		
.96000E	03	.54120E	-02	.96000E	03	.10000E	00	.12000E	04	.10800E	007094	3	1	317	
.15000E	04	.12100E	00	.20000E	04	.13800E	00	.25000E	04	.15200E	007094	3	1	318	
.30000E	04	.16500E	00	.40000E	04	.18800E	00	.50000E	04	.20800E	007094	3	1	319	
.60000E	04	.22800E	00	.70000E	04	.24200E	00	.75000E	04	.24900E	007094	3	1	320	
.75000E	04	.12900E	00	.80000E	04	.12500E	00	.90000E	04	.11500E	007094	3	1	321	
.10000E	05	.10500E	00	.12000E	05	.92000E	-01	.14000E	05	.84000E-01	7094	3	1	322	
.16000E	05	.79000E	-01	.18000E	05	.65000E	-01	.20000E	05	.58000E-01	7094	3	1	323	
.25000E	05	.43000E	-01	.28000E	05	.35000E	-01	.29310E	05	.31725E-01	7094	3	1	324	
.30000E	05	.30000E	-01	.35000E	05	.23100E	-01	.40000E	05	.14200E-01	7094	3	1	325	
.50000E	05	.84000E	-02	.60000E	05	.11600E	-01	.70000E	05	.24700E-01	7094	3	1	326	
.80000E	05	.31800E	-0	.90000E	05	.35000E	-01	.95000E	05	.35100E-01	7094	3	1	327	
.10000E	06	.35200E	-01	.10000E	06	.93000E	01	.12000E	06	.93260E	017094	3	1	328	
.13000E	06	.93390E	01	.14000E	06	.93520E	01	.16000E	06	.93780E	017094	3	1	329	
.18000E	06	.94040E	01	.20000E	06	.94300E	01	.25000E	06	.93950E	017094	3	1	330	
.30000E	06	.93600E	01	.35000E	06	.91550E	01	.40000E	06	.89500E	017094	3	1	331	
.45000E	06	.86500E	01	.50000E	06	.83500E	01	.60000E	06	.79200E	017094	3	1	332	
.70000E	06	.75000E	01	.74790E	06	.73323E	01	.75000E	06	.73250E	017094	3	1	333	
.80000E	06	.71500E	01	.81870E	06	.70845E	01	.85000E	06	.69750E	017094	3	1	334	
.90000E	06	.68000E	01	.96930E	06	.65921E	01	.10000E	07	.65000E	017094	3	1	335	
.10810E	07	.62651E	01	.11000E	07	.62100E	01	.12000E	07	.60000E	017094	3	1	336	
.13000E	07	.58000E	01	.13290E	07	.57275E	01	.14000E	07	.55500E	017094	3	1	337	
.15000E	07	.53500E	01	.15040E	07	.53440E	01	.16000E	07	.52000E	017094	3	1	338	
.16920E	07	.50896E	01	.17000E	07	.50800E	01	.18000E	07	.50000E	017094	3	1	339	
.19000E	07	.49000E	01	.19470E	07	.48765E	01	.19668E	07	.48666E	017094	3	1	340	
.19680E	07	.48660E	01	.20000E	07	.48500E	01	.21000E	07	.47700E	017094	3	1	341	
.21590E	07	.47287E	01	.21820E	07	.47126E	01	.22000E	07	.47000E	017094	3	1	342	
.22500E	07	.46625E	01	.23000E	07	.46250E	01	.23350E	07	.45987E	017094	3	1	343	
.23600E	07	.45800E	01	.24000E	07	.45500E	01	.25000E	07	.44550E	017094	3	1	344	
.25490E	07	.44084E	01	.26000E	07	.43600E	01	.27000E	07	.42650E	017094	3	1	345	
.27500E	07	.42175E	01	.28000E	07	.41700E	01	.29000E	07	.41000E	017094	3	1	346	
.30000E	07	.40500E	01	.30500E	07	.40150E	01	.31000E	07	.39800E	017094	3	1	347	
.32000E	07	.39200E	01	.32500E	07	.39000E	01	.33000E	07	.38900E	017094	3	1	348	
.34000E	07	.38500E	01	.35000E	07	.37900E	01	.36000E	07	.37200E	017094	3	1	349	
.37500E	07	.37050E	01	.38000E	07	.37000E	01	.40000E	07	.37000E	017094	3	1	350	
.42000E	07	.37100E	01	.44000E	07	.37300E	01	.45000E	07	.37450E	017094	3	1	351	
.46000E	07	.37600E	01	.48000E	07	.37700E	01	.50000E	07	.37800E	017094	3	1	352	
.55000E	07	.38200E	01	.60000E	07	.39100E	01	.65000E	07	.40200E	017094	3	1	353	
.70000E	07	.41200E	01	.75000E	07	.42100E	01	.80000E	07	.42500E	017094	3	1	354	
.85000E	07	.42750E	01	.89000E	07	.42950E	01	.89200E	07	.42960E	017094	3	1	355	
.90000E	07	.43000E	01	.95000E	07	.42900E	01	.10000E	08	.42800E	017094	3	1	356	
.10500E	08	.42550E	01	.11000E	08	.42300E	01	.11500E	08	.41950E	017094	3	1	357	
.12000E	08	.41600E	01	.12500E	08	.41200E	01	.13000E	08	.40800E	017094	3	1	358	
.13500E	08	.40300E	01	.14000E	08	.39800E	01	.14500E	08	.39350E	017094	3	1	359	

.15000E 08	.33900E 01	.16000E 08	.38140E 01	.16896E 08	.37459E 01	7094 3	1	360
,17000E 08	.37380E 01	.17500E 08	.37000E 01	.18000E 08	.36684E 01	7094 3	1	361
.19000E 08	.36052E 01	.20000E 08	.35420E 01	.00000E 00	.00000E 00	07094 3	1	362
						7094 3	0	363
4.10930+ 4	9.21051+ 1	0	99	0		07094 3	2	364
0.00000+ 0	0.00000+ 0	0	0	1		1067094 3	2	365
106	2					7094 3	2	366
1.00000- 5	0.00000+ 0	7.50000+ 3	0.00000+ 0	1.00000+ 5	0.00000+ 0	07094 3	2	367
1.00000+ 5	9.18710+ 0	1.20000+ 5	9.22430+ 0	1.30000+ 5	9.23930+ 0	07094 3	2	368
1.40000+ 5	9.25530+ 0	1.60000+ 5	9.28530+ 0	1.80000+ 5	9.31350+ 0	07094 3	2	369
2.00000+ 5	9.34170+ 0	2.50000+ 5	9.31060+ 0	3.00000+ 5	9.27950+ 0	07094 3	2	370
3.50000+ 5	9.07540+ 0	4.00000+ 5	8.87130+ 0	4.50000+ 5	8.56850+ 0	07094 3	2	371
5.00000+ 5	8.26610+ 0	6.00000+ 5	7.82890+ 0	7.00000+ 5	7.40570+ 0	07094 3	2	372
7.47900+ 5	7.23650+ 0	7.50000+ 5	7.20900+ 0	8.00000+ 5	6.95240+ 0	07094 3	2	373
8.18700+ 5	6.85990+ 0	8.50000+ 5	6.65500+ 0	9.00000+ 5	6.35740+ 0	07094 3	2	374
9.69300+ 5	6.05840+ 0	1.00000+ 6	5.82580+ 0	1.08100+ 6	5.34580+ 0	07094 3	2	375
1.10000+ 6	5.22510+ 0	1.20000+ 6	4.70980+ 0	1.30000+ 6	4.36880+ 0	07094 3	2	376
1.32900+ 6	4.27180+ 0	1.40000+ 6	3.97380+ 0	1.50000+ 6	3.64180+ 0	07094 3	2	377
1.50400+ 6	3.62990+ 0	1.60000+ 6	3.34870+ 0	1.69200+ 6	3.21020+ 0	07094 3	2	378
1.70000+ 6	3.15860+ 0	1.80000+ 6	2.92350+ 0	1.90000+ 6	2.78840+ 0	07094 3	2	379
1.94700+ 6	2.78240+ 0	1.96680+ 6	2.78960+ 0	1.96800+ 6	2.79010+ 0	07094 3	2	380
2.00000+ 6	2.68130+ 0	2.10000+ 6	2.54900+ 0	2.15900+ 6	2.52320+ 0	07094 3	2	381
2.18200+ 6	2.52220+ 0	2.20000+ 6	2.43170+ 0	2.25000+ 6	2.40760+ 0	07094 3	2	382
2.30000+ 6	2.35750+ 0	2.33500+ 6	2.33540+ 0	2.36000+ 6	2.32390+ 0	07094 3	2	383
2.40000+ 6	2.23020+ 0	2.50000+ 6	2.18090+ 0	2.54900+ 6	2.16440+ 0	07094 3	2	384
2.60000+ 6	2.12700+ 0	2.70000+ 6	2.09620+ 0	2.75000+ 6	2.07480+ 0	07094 3	2	385
2.80000+ 6	2.04740+ 0	2.90000+ 6	1.99560+ 0	3.00000+ 6	1.95780+ 0	07094 3	2	386
3.05000+ 6	1.92490+ 0	3.10000+ 6	1.89300+ 0	3.20000+ 6	1.83920+ 0	07094 3	2	387
3.25000+ 6	1.83230+ 0	3.30000+ 6	1.82500+ 0	3.40000+ 6	1.80050+ 0	07094 3	2	388
3.50000+ 6	1.75590+ 0	3.60000+ 6	1.70140+ 0	3.75000+ 6	1.70960+ 0	07094 3	2	389
3.80000+ 6	1.71480+ 0	4.00000+ 6	1.75540+ 0	4.20000+ 6	1.76810+ 0	07094 3	2	390
4.40000+ 6	1.79080+ 0	4.50000+ 6	1.80720+ 0	4.60000+ 6	1.83530+ 0	07094 3	2	391
4.80000+ 6	1.87150+ 0	5.00000+ 6	1.90780+ 0	5.50000+ 6	2.02470+ 0	07094 3	2	392
6.00000+ 6	2.19170+ 0	6.50000+ 6	2.31510+ 0	7.00000+ 6	2.42710+ 0	07094 3	2	393
7.50000+ 6	2.54410+ 0	8.00000+ 6	2.60980+ 0	8.50000+ 6	2.66270+ 0	07094 3	2	394
8.90000+ 6	2.70620+ 0	8.92000+ 6	2.70840+ 0	9.00000+ 6	2.69710+ 0	07094 3	2	395
9.50000+ 6	2.72220+ 0	1.00000+ 7	2.69740+ 0	1.05000+ 7	2.68240+ 0	07094 3	2	396
1.10000+ 7	2.63740+ 0	1.15000+ 7	2.59840+ 0	1.20000+ 7	2.60930+ 0	07094 3	2	397
1.25000+ 7	2.51300+ 0	1.30000+ 7	2.43700+ 0	1.35000+ 7	2.35860+ 0	07094 3	2	398
1.40000+ 7	2.29650+ 0	1.45000+ 7	2.25950+ 0	1.50000+ 7	2.22740+ 0	07094 3	2	399
1.60000+ 7	2.13710+ 0	1.68960+ 7	2.11870+ 0	1.70000+ 7	2.09270+ 0	07094 3	2	400
1.75000+ 7	2.04210+ 0	1.80000+ 7	1.9970+ 0	1.90000+ 7	1.96480+ 0	07094 3	2	401
2.00000+ 7	1.96690+ 0					7094 3	2	402
						7094 3	0	403
4.10930+ 4	9.21051+ 1	0	99	0		07094 3	4	404
0.00000+ 0	-2.90000+ 4	0	0	1		777094 3	4	405
77	2					7094 3	4	406
2.93100+ 4	0.00000+ 0	3.50000+ 4	1.00000- 4	4.00000+ 4	2.00000- 4	47094 3	4	407
5.00000+ 4	4.00000- 4	6.00000+ 4	6.00000- 4	7.00000+ 4	7.00000- 4	47094 3	4	408
8.00000+ 4	8.00000- 4	9.00000+ 4	1.00000- 3	1.00000+ 5	2.90000- 3	37094 3	4	409
1.30000+ 5	5.52000- 3	1.60000+ 5	8.54000- 3	2.00000+ 5	1.21000- 2	27094 3	4	410
4.00000+ 5	2.05000- 2	6.00000+ 5	3.99000- 2	7.47900+ 5	4.91400- 2	27094 3	4	411
7.50000+ 5	6.92700- 2	8.00000+ 5	1.52400- 1	8.18700+ 5	1.80000- 1	17094 3	4	412
8.50000+ 5	2.76300- 1	9.000000+ 5	4.00200- 1	9.69300+ 5	4.95700- 1	17094 3	4	413
1.00000+ 6	6.38000- 1	1.08100+ 6	8.88000- 1	1.10000+ 6	9.54700- 1	17094 3	4	414
1.20000+ 6	1.26500+ 0	1.30000+ 6	1.41000+ 0	1.32900+ 6	1.43600+ 0	07094 3	4	415
1.40000+ 6	1.56000+ 0	1.50000+ 6	1.69400+ 0	1.50400+ 6	1.70000+ 0	07094 3	4	416
1.60000+ 6	1.83800+ 0	1.69200+ 6	1.86700+ 0	1.70000+ 6	1.90900+ 0	07094 3	4	417
1.80000+ 6	2.06500+ 0	1.90000+ 6	2.10100+ 0	1.94700+ 6	2.08400+ 0	07094 3	4	418
1.96800+ 6	2.06600+ 0	2.00000+ 6	2.15900+ 0	2.10000+ 6	2.21200+ 0	07094 3	4	419

2.15900+	6	2.19700+	0	2.18200+	6	2.18200+	0	2.20000+	6	2.26000+	07094	3	4	420
2.25000+	6	2.24700+	0	2.30000+	6	2.26000+	0	2.33500+	6	2.25600+	07094	3	4	421
2.36000+	6	2.24900+	0	2.40000+	6	2.31300+	0	2.50000+	6	2.26800+	07094	3	4	422
2.54900+	6	2.23800+	0	2.60000+	6	2.22700+	0	2.70000+	6	2.16300+	07094	3	4	423
2.75000+	6	2.13700+	0	2.80000+	6	2.11700+	0	2.90000+	6	2.09900+	07094	3	4	424
3.00000+	6	2.08700+	0	3.05000+	6	2.08500+	0	3.20000+	6	2.07600+	07094	3	4	425
3.25000+	6	2.06800+	0	3.50000+	6	2.03000+	0	3.75000+	6	1.99100+	07094	3	4	426
4.00000+	6	1.94000+	0	4.50000+	6	1.93300+	0	5.00000+	6	1.86700+	07094	3	4	427
6.00000+	6	1.71000+	0	7.00000+	6	1.68000+	0	8.00000+	6	1.62000+	07094	3	4	428
9.00000+	6	1.55500+	0	1.00000+	7	1.25800+	0	1.10000+	7	8.51000-	17094	3	4	429
1.20000+	7	5.00000-	1	1.30000+	7	4.20000-	1	1.40000+	7	4.16000-	17094	3	4	430
1.50000+	7	4.10000-	1	1.60000+	7	4.08000-	1	1.70000+	7	4.06000-	17094	3	4	431
1.80000+	7	4.04000-	1	2.00000+	7	4.00000-	1			7094	3	4	432	
										7094	3	0		
4.10930+	4	9.21051+	1		0		99		0		07094	3	16	434
0.00000+	0	-8.82600+	6		0		0		1		187094	3	16	435
	18	2								7094	3	16		
8.92000+	6	0.00000+	0	9.00000+	6	2.00000-	2	9.50000+	6	1.30000-	17094	3	16	436
1.00000+	7	2.90000-	1	1.05000+	7	4.80000-	1	1.10000+	7	7.00000-	17094	3	16	437
1.15000+	7	8.80000-	1	1.20000+	7	1.01000+	0	1.25000+	7	1.11000+	07094	3	16	438
1.30000+	7	1.16500+	0	1.35000+	7	1.20000+	0	1.40000+	7	1.21500+	07094	3	16	439
1.45000+	7	1.23000+	0	1.50000+	7	1.23000+	0	1.60000+	7	1.22000+	07094	3	16	440
1.70000+	7	1.17000+	0	1.80000+	7	1.12000+	0	2.00000+	7	9.60000-	17094	3	16	441
										7094	3	16		
4.10930+	4	9.21051+	1		0		99		0		7094	3	0	443
0.00000+	0	-1.67180+	7		0		0		1		07094	3	17	444
	5	2								57094	3	17	445	
1.68960+	7	0.00000+	0	1.70000+	7	2.40000-	2	1.80000+	7	1.00000-	17094	3	17	447
1.90000+	7	1.50000-	1	2.00000+	7	1.65000-	1			7094	3	17	448	
										7094	3	0		
4.10930+	4	9.21051+	1		0		99		0		07094	3	22	449
0.00000+	0	-1.94600+	6		0		0		1		97094	3	22	450
	9	2								7094	3	22	451	
1.96680+	6	0.00000+	0	5.00000+	6	1.00000-	6	6.00000+	6	2.00000-	47094	3	22	452
8.00000+	6	6.00000-	4	1.00000+	7	1.25000-	3	1.20000+	7	1.90000-	37094	3	22	453
1.40000+	7	2.50000-	3	1.75000+	7	2.80000-	3	2.00000+	7	3.00000-	37094	3	22	454
										7094	3	22		
4.10930+	4	9.21051+	1		0		1		0		7094	3	0	456
0.00000+	0	-2.90000+	4		0		0		1		07094	3	51	457
	27	2								277094	3	51	458	
										7094	3	51		
2.93100+	4	0.00000+	0	3.50000+	4	1.00000-	4	4.00000+	4	2.00000-	47094	3	51	459
5.00000+	4	4.00000-	4	6.00000+	4	6.00000-	4	7.00000+	4	7.00000-	47094	3	51	460
8.00000+	4	8.00000-	4	9.00000+	4	1.00000-	3	1.00000+	5	2.90000-	37094	3	51	461
1.30000+	5	5.52000-	3	1.60000+	5	8.54000-	3	2.00000+	5	1.21000-	27094	3	51	462
4.00000+	5	2.05000-	2	6.00000+	5	3.99000-	2	8.00000+	5	5.24000-	27094	3	51	463
1.00000+	6	3.80000-	2	1.20000+	6	3.54000-	2	1.40000+	6	3.50000-	27094	3	51	464
1.50000+	6	3.45000-	2	2.00000+	6	2.70000-	2	2.50000+	6	2.50000-	27094	3	51	465
3.00000+	6	2.30000-	2	3.50000+	6	2.20000-	2	4.00000+	6	2.10000-	27094	3	51	466
4.50000+	6	1.50000-	2	5.00000+	6	1.00000-	2	6.00000+	6	0.00000+	07094	3	51	467
										7094	3	51		
4.10930+	4	9.21051+	1		0		2		0		7094	3	0	469
0.00000+	0	-7.40000+	5		0		0		1		277094	3	52	470
	27	2								7094	3	52	471	
										7094	3	52		
7.47920+	5	0.00000+	0	7.50000+	5	2.00000-	2	8.00000+	5	1.00000-	17094	3	52	472
9.00000+	5	2.55000-	1	1.00000+	6	3.10000-	1	1.10000+	6	3.20000-	17094	3	52	473
1.20000+	6	3.20000-	1	1.30000+	6	3.00000-	1	1.40000+	6	2.80000-	17094	3	52	474
1.50000+	6	2.60000-	1	1.60000+	6	2.30000-	1	1.70000+	6	2.08000-	17094	3	52	475
1.80000+	6	1.85000-	1	1.94700+	6	1.60300-	1	2.00000+	6	1.50000-	17094	3	52	477
2.15900+	6	1.34000-	1	2.25000+	6	1.20000-	1	2.33500+	6	1.10000-	17094	3	52	478
2.50000+	6	9.80000-	2	2.75000+	6	7.50000-	2	3.05000+	6	6.00000-	27094	3	52	479

3.25000+	6	5.00000-	2	3.50000+	6	4.00000-	2	4.00000+	6	2.25000-	27094	3	52	480	
4.50000+	6	1.63000-	2	5.00000+	6	1.00000-	2	6.00000+	6	0.00000+	07094	3	52	481	
											7094	3	0	482	
4.10930+	4	9.21051+	1		0		3		0		07094	3	53	493	
0.00000+	0	-8.10000+	5		0		0		1		267094	3	53	484	
											7094	3	53	485	
26				2											
8.18670+	5	0.00000+	0	8.50000+	5	5.00000-	2	9.00000+	5	1.00000-	17094	3	53	486	
1.00000+	6	1.90000-	1	1.10000+	6	2.50000-	1	1.20000+	6	2.80000-	17094	3	53	487	
1.30000+	6	3.00000-	1	1.40000+	6	2.95000-	1	1.50000+	6	2.75000-	17094	3	53	488	
1.60000+	6	2.60000-	1	1.70000+	6	2.30000-	1	1.80000+	6	2.00000-	17094	3	53	489	
1.94700+	6	1.63000-	1	2.00000+	6	1.52000-	1	2.15900+	6	1.32000-	17094	3	53	490	
2.25000+	6	1.15000-	1	2.33500+	6	1.08000-	1	2.50000+	6	9.50000-	27094	3	53	491	
2.75000+	6	7.00000-	2	3.00000+	6	5.50000-	2	3.25000+	6	4.00000-	27094	3	53	492	
3.50000+	6	3.00000-	2	4.00000+	6	1.00000-	2	4.50000+	6	5.00000-	37094	3	53	493	
5.00000+	6	3.00000-	3	6.00000+	6	0.00000+	0				7094	3	53	494	
											7094	3	0	495	
4.10930+	4	9.21051+	1		0		4		0		07094	3	54	496	
0.00000+	0	-9.59000+	5		0		0		1		247094	3	54	497	
											7094	3	54	498	
24				2											
9.69260+	5	0.00000+	0	1.00000+	6	1.00000-	1	1.10000+	6	3.40000-	17094	3	54	499	
1.20000+	6	5.00000-	1	1.30000+	6	5.60000-	1	1.40000+	6	6.00000-	17094	3	54	500	
1.50000+	6	6.05000-	1	1.60000+	6	5.95000-	1	1.70000+	6	5.50000-	17094	3	54	501	
1.80000+	6	5.30000-	1	1.94700+	6	4.73000-	1	2.00000+	6	4.50000-	17094	3	54	502	
2.15900+	6	3.83000-	1	2.25000+	6	3.38000-	1	2.33500+	6	3.13000-	17094	3	54	503	
2.50000+	6	2.50000-	1	2.75000+	6	2.05000-	1	3.00000+	6	1.60000-	17094	3	54	504	
3.25000+	6	1.32000-	1	3.50000+	6	1.00000-	1	4.00000+	6	6.00000-	27094	3	54	505	
4.50000+	6	4.00000-	2	5.00000+	6	2.00000-	2	6.00000+	6	0.00000+	07094	3	54	506	
											7094	3	0	507	
4.10930+	4	9.21051+	1		0		5		0		07094	3	55	508	
0.00000+	0	-1.07000+	6		0		0		1		237094	3	55	509	
											7094	3	55	510	
23				2											
1.08150+	6	0.00000+	0	1.10000+	6	8.00000-	3	1.20000+	6	1.30000-	17094	3	55	511	
1.30000+	6	2.15000-	1	1.40000+	6	2.90000-	1	1.50000+	6	3.30000-	17094	3	55	512	
1.60000+	6	3.60000-	1	1.70000+	6	3.50000-	1	1.80000+	6	3.20000-	17094	3	55	513	
1.94700+	6	2.58000-	1	2.00000+	6	2.30000-	1	2.15900+	6	1.95000-	17094	3	55	514	
2.25000+	6	1.70000-	1	2.33500+	6	1.62000-	1	2.50000+	6	1.25000-	17094	3	55	515	
2.75000+	6	1.05000-	1	3.00000+	6	9.00000-	2	3.25000+	6	7.50000-	27094	3	55	516	
3.50000+	6	6.00000-	2	4.00000+	6	4.00000-	2	4.50000+	6	3.00000-	27094	3	55	517	
5.00000+	6	1.80000-	2	6.00000+	6	0.00000+	0				7094	3	55	518	
												7094	3	0	519
4.10930+	4	9.21051+	1		0		6		0		07094	3	56	520	
0.00000+	0	-1.31500+	6		0		0		1		187094	3	56	521	
											7094	3	56	522	
18				2											
1.32920+	6	0.00000+	0	1.40000+	6	6.00000-	2	1.50000+	6	1.40000-	17094	3	56	523	
1.60000+	6	2.00000-	1	1.70000+	6	2.50000-	1	1.80000+	6	2.80000-	17094	3	56	524	
1.90000+	6	3.00000-	1	2.00000+	6	3.05000-	1	2.10000+	6	3.00000-	17094	3	56	525	
2.15900+	6	2.95000-	1	2.20000+	6	2.90000-	1	2.50000+	6	2.40000-	17094	3	56	526	
3.00000+	6	1.50000-	1	3.50000+	6	9.00000-	2	4.00000+	6	4.50000-	27094	3	56	527	
4.50000+	6	2.20000-	2	5.00000+	6	1.50000-	2	6.00000+	6	0.00000+	07094	3	56	528	
											7094	3	0	529	
4.10930+	4	9.21051+	1		0		7		0		07094	3	57	530	
0.00000+	0	-1.48840+	6		0		0		1		177094	3	57	531	
											7094	3	57	532	
17				2											
1.50390+	6	0.00000+	0	1.60000+	6	1.60000-	1	1.70000+	6	2.40000-	17094	3	57	533	
1.80000+	6	2.80000-	1	1.90000+	6	3.20000-	1	1.94700+	6	3.30000-	17094	3	57	534	
2.00000+	6	3.35000-	1	2.10000+	6	3.30000-	1	2.20000+	6	3.25000-	17094	3	57	535	
2.33500+	6	2.87000-	1	2.50000+	6	2.50000-	1	3.00000+	6	1.50000-	17094	3	57	536	
3.50000+	6	9.50000-	2	4.00000+	6	6.00000-	2	4.50000+	6	3.00000-	27094	3	57	537	
5.00000+	6	1.50000-	2	6.00000+	6	0.00000+	0				7094	3	57	538	
											7094	3	0	539	

4.10930+	4	9.21051+	1		0	8	0	07094	3	58	540			
0.00000+	0	-1.67400+	6		0	0	1	197094	3	58	541			
	19		2					7094	3	58	542			
1.69190+	6	0.00000+	0	1.70000+	6	4.00000-	2	1.80000+	6	2.40000-	17094	3	58	543
1.90000+	6	3.40000-	1	1.94700+	6	3.70000-	1	2.00000+	6	3.90000-	17094	3	58	544
2.10000+	6	4.20000-	1	2.15900+	6	4.25000-	1	2.20000+	6	4.30000-	17094	3	58	545
2.30000+	6	4.20000-	1	2.40000+	6	4.00000-	1	2.50000+	6	3.80000-	17094	3	58	546
2.75000+	6	3.10000-	1	3.00000+	6	2.40000-	1	3.50000+	6	1.35000-	17094	3	58	547
4.00000+	6	8.00000-	2	4.50000+	6	3.50000-	2	5.00000+	6	2.00000-	27094	3	58	548
6.00000+	6	0.00000+	0						7094	3	58	549		
								7094	3	0	550			
4.10930+	4	9.21051+	1		0	9	0	07094	3	59	551			
0.00000+	0	-1.94700+	6		0	0	1	197094	3	59	552			
	19		2					7094	3	59	553			
1.96780+	6	0.00000+	0	2.00000+	6	1.20000-	1	2.10000+	6	2.40000-	17094	3	59	554
2.15900+	6	2.80000-	1	2.20000+	6	3.00000-	1	2.30000+	6	3.30000-	17094	3	59	555
2.33500+	6	3.40000-	1	2.40000+	6	3.60000-	1	2.50000+	6	3.70000-	17094	3	59	556
2.60000+	6	3.70000-	1	2.70000+	6	3.60000-	1	2.80000+	6	3.40000-	17094	3	59	557
2.90000+	6	3.20000-	1	3.00000+	6	2.95000-	1	3.50000+	6	1.80000-	17094	3	59	558
4.00000+	6	1.00000-	1	4.50000+	6	5.50000-	2	5.00000+	6	3.00000-	27094	3	59	559
6.00000+	6	0.00000+	0						7094	3	59	560		
								7094	3	0	561			
4.10930+	4	9.21051+	1		0	10	0	07094	3	60	562			
0.00000+	0	-2.15900+	6		0	0	1	177094	3	60	563			
	17		2					7094	3	60	564			
2.18210+	6	0.00000+	0	2.20000+	6	9.00000-	2	2.30000+	6	2.00000-	17094	3	60	565
2.33500+	6	2.30000-	1	2.40000+	6	2.80000-	1	2.50000+	6	3.05000-	17094	3	60	566
2.60000+	6	3.15000-	1	2.70000+	6	3.10000-	1	2.80000+	6	2.95000-	17094	3	60	567
2.90000+	6	2.70000-	1	3.00000+	6	2.50000-	1	3.20000+	6	2.10000-	17094	3	60	568
3.50000+	6	1.50000-	1	4.00000+	6	9.00000-	2	4.50000+	6	6.00000-	27094	3	60	569
5.00000+	6	3.50000-	2	6.00000+	6	0.00000+	0				7094	3	60	570
								7094	3	0	571			
4.10930+	4	9.21051+	1		0	11	0	07094	3	61	572			
0.00000+	0	-2.33500+	6		0	0	1	147094	3	61	573			
	14		2					7094	3	61	574			
2.35990+	6	0.00000+	0	2.40000+	6	7.50000-	2	2.50000+	6	1.30000-	17094	3	61	575
2.60000+	6	1.70000-	1	2.70000+	6	1.85000-	1	2.80000+	6	1.90000-	17094	3	61	576
2.90000+	6	1.87000-	1	3.00000+	6	1.82000-	1	3.20000+	6	1.70000-	17094	3	61	577
3.50000+	6	1.30000-	1	4.00000+	6	9.00000-	2	4.50000+	6	5.00000-	27094	3	61	578
5.00000+	6	3.50000-	2	6.00000+	6	0.00000+	0				7094	3	61	579
								7094	3	0	580			
4.10930+	4	9.21051+	1		0	12	0	07094	3	62	581			
0.00000+	0	-2.51900+	6		0	0	1	97094	3	62	582			
	9		2					7094	3	62	583			
2.54950+	6	0.00000+	0	3.00000+	6	5.00000-	2	3.20000+	6	7.00000-	27094	3	62	584
3.50000+	6	9.00000-	2	3.75000+	6	8.20000-	2	4.00000+	6	6.20000-	27094	3	62	585
4.50000+	6	4.10000-	2	5.00000+	6	2.20000-	2	6.00000+	6	0.00000+	07094	3	62	586
								7094	3	0	587			
4.10930+	4	9.21051+	1		0	99	0	07094	3	91	588			
0.00000+	0	2.54950+	6		0	0	1	247094	3	91	589			
	24		2					7094	3	91	590			
2.54950+	6	0.00000+	0	2.60000+	6	1.50000-	2	2.70000+	6	5.10000-	27094	3	91	591
2.80000+	6	1.31000-	1	2.90000+	6	2.51000-	1	3.00000+	6	3.80000-	17094	3	91	592
3.50000+	6	9.08000-	1	4.00000+	6	1.26000+	0	4.50000+	6	1.53400+	07094	3	91	593
5.00000+	6	1.63400+	0	6.00000+	6	1.71000+	0	7.00000+	6	1.68000+	07094	3	91	594
8.00000+	6	1.62000+	0	9.00000+	6	1.55500+	0	1.00000+	7	1.25800+	07094	3	91	595
1.10000+	7	8.51000-	1	1.20000+	7	5.00000-	1	1.30000+	7	4.20000-	17094	3	91	596
1.40000+	7	4.16000-	1	1.50000+	7	4.10000-	1	1.60000+	7	4.08000-	17094	3	91	597
1.70000+	7	4.06000-	1	1.80000+	7	4.04000-	1	2.00000+	7	4.00000-	17094	3	91	598
								7094	3	0	599			

4.10930+ 4	9.21051+ 1	0	99	0	07094	3102	600	
0.00000+ 0	7.21390+ 6	0	0	2	737094	3102	601	
		73	2		7094	3102	602	
1.00000- 5	5.30250+ 1	1.00000- 3	5.30250+ 0	1.00000- 2	1.67680+	07094	3102	603
2.53000- 2	1.05420+ 0	1.00000- 1	5.30250- 1	1.00000+ 0	1.67680-	17094	3102	604
9.60000+ 2	5.41200- 3	9.60000+ 2	1.00000- 1	1.20000+ 3	1.08000-	17094	3102	605
1.50000+ 3	1.21000- 1	2.00000+ 3	1.38000- 1	2.50000+ 3	1.52000-	17094	3102	606
3.00000+ 3	1.65000- 1	4.00000+ 3	1.88000- 1	5.00000+ 3	2.08000-	17094	3102	607
6.00000+ 3	2.28000- 1	7.00000+ 3	2.42000- 1	7.50000+ 3	2.49000-	17094	3102	608
7.50000+ 3	1.29000- 1	8.00000+ 3	1.25000- 1	9.00000+ 3	1.15000-	17094	3102	609
1.00000+ 4	1.05000- 1	1.20000+ 4	9.20000- 2	1.40000+ 4	8.40000-	27094	3102	610
1.60000+ 4	7.90000- 2	1.80000+ 4	6.50000- 2	2.00000+ 4	5.80000-	27094	3102	611
2.50000+ 4	4.30000- 2	2.80000+ 4	3.50000- 2	3.00000+ 4	3.00000-	27094	3102	612
3.50000+ 4	2.30000- 2	4.00000+ 4	1.40000- 2	5.00000+ 4	8.00000-	37094	3102	613
6.00000+ 4	1.10000- 2	7.00000+ 4	2.40000- 2	1.00000+ 5	3.40000-	27094	3102	614
1.00000+ 5	1.10000- 1	1.20000+ 5	9.80000- 2	1.40000+ 5	9.00000-	27094	3102	615
1.60000+ 5	8.40000- 2	1.80000+ 5	8.00000- 2	2.00000+ 5	7.60000-	27094	3102	616
2.50000+ 5	7.00000- 2	3.00000+ 5	6.40000- 2	3.50000+ 5	6.10000-	27094	3102	617
4.00000+ 5	5.80000- 2	4.50000+ 5	5.60000- 2	5.00000+ 5	5.35000-	27094	3102	618
6.00000+ 5	5.10000- 2	7.00000+ 5	4.80000- 2	8.00000+ 5	4.50000-	27094	3102	619
9.00000+ 5	4.20000- 2	1.00000+ 6	3.60000- 2	1.10000+ 6	3.00000-	27094	3102	620
1.20000+ 6	2.50000- 2	1.30000+ 6	2.10000- 2	1.40000+ 6	1.60000-	27094	3102	621
1.50000+ 6	1.40000- 2	2.00000+ 6	9.50000- 3	2.50000+ 6	6.00000-	37094	3102	622
3.00000+ 6	5.10000- 3	3.50000+ 6	4.00000- 3	4.00000+ 6	3.20000-	37094	3102	623
5.00000+ 6	2.30000- 3	6.00000+ 6	2.00000- 3	7.00000+ 6	1.80000-	37094	3102	624
8.00000+ 6	1.60000- 3	9.00000+ 6	1.40000- 3	1.00000+ 7	1.20000-	37094	3102	625
1.20000+ 7	1.00000- 3	1.40000+ 7	8.00000- 4	1.60000+ 7	7.50000-	47094	3102	626
2.00000+ 7	7.00000- 4					7094	3102	627
						7094	3	628
4.10930+ 4	9.21051+ 1	0	99	0	07094	3103	629	
0.00000+ 0	7.19000+ 5	0	0	1	297094	3103	630	
		29	2		7094	3103	631	
1.00000- 5	0.00000+ 0	3.00000+ 6	0.00000+ 0	3.50000+ 6	0.00000+ 07094	3103	632	
4.00000+ 6	1.33000- 3	4.50000+ 6	2.00000- 3	5.00000+ 6	2.66000-	37094	3103	633
5.50000+ 6	4.00000- 3	6.00000+ 6	5.32000- 3	6.50000+ 6	6.65000-	37094	3103	634
7.00000+ 6	9.31000- 3	7.50000+ 6	1.19700- 2	8.00000+ 6	1.59600-	27094	3103	635
8.50000+ 6	2.00000- 2	8.90000+ 6	2.20800- 2	9.00000+ 6	2.26100-	27094	3103	636
9.50000+ 6	2.53000- 2	1.00000+ 7	2.79300- 2	1.05000+ 7	3.05900-	27094	3103	637
1.10000+ 7	3.33000- 2	1.15000+ 7	3.45800- 2	1.20000+ 7	3.59100-	27094	3103	638
1.25000+ 7	3.74000- 2	1.30000+ 7	3.85700- 2	1.35000+ 7	4.00000-	27094	3103	639
1.40000+ 7	4.00000- 2	1.45000+ 7	4.00000- 2	1.50000+ 7	4.00000-	27094	3103	640
1.75000+ 7	3.80000- 2	2.00000+ 7	3.70000- 2			7094	3103	641
						7094	3	642
4.10930+ 4	9.21051+ 1	0	99	0	07094	3107	643	
0.00000+ 0	4.91400+ 6	0	0	1	257094	3107	644	
		25	2		7094	3107	645	
1.00000- 5	0.00000+ 0	4.00000+ 6	0.00000+ 0	4.50000+ 6	0.00000+ 07094	3107	646	
5.00000+ 6	2.00000- 4	5.50000+ 6	5.00000- 4	6.00000+ 6	7.00000-	47094	3107	647
6.50000+ 6	1.00000- 3	7.00000+ 6	1.30000- 3	7.50000+ 6	1.70000-	37094	3107	648
8.00000+ 6	2.00000- 3	8.50000+ 6	2.50000- 3	8.90000+ 6	2.90000-	37094	3107	649
9.00000+ 6	3.00000- 3	9.50000+ 6	3.60000- 3	1.00000+ 7	4.20000-	37094	3107	650
1.05000+ 7	4.90000- 3	1.10000+ 7	5.60000- 3	1.15000+ 7	6.20000-	37094	3107	651
1.20000+ 7	6.90000- 3	1.25000+ 7	7.60000- 3	1.30000+ 7	8.30000-	37094	3107	652
1.40000+ 7	9.20000- 3	1.50000+ 7	9.20000- 3	1.75000+ 7	9.40000-	37094	3107	653
2.00000+ 7	9.40000- 3					7094	3107	654
						7094	3	655
4.10930+ 4	9.21051+ 1	0	0	0	07094	3251	656	
0.00000+ 0	0.00000+ 0	0	0	1	337094	3251	657	
		33	2		7094	3251	658	
1.00000- 5	7.23280- 3	1.00000+ 4	7.23280- 3	1.00000+ 5	7.30360-	27094	3251	659

2.00000+	5	1.49110-	1	3.00000+	5	2.10210-	1	4.00000+	5	2.57710-	17094	3251	660
5.00000+	5	2.93090-	1	6.00000+	5	3.19550-	1	7.00000+	5	3.38410-	17094	3251	661
8.00000+	5	3.61590-	1	9.00000+	5	3.93790-	1	1.00000+	6	4.20970-	17094	3251	662
1.20000+	6	4.81970-	1	1.40000+	6	5.08390-	1	1.60000+	6	5.19840-	17094	3251	663
1.80000+	6	5.10710-	1	2.00000+	6	5.08220-	1	2.50000+	6	5.34800-	17094	3251	664
3.00000+	6	5.36270-	1	3.50000+	6	5.53510-	1	4.00000+	6	5.48920-	17094	3251	665
4.50000+	6	5.61580-	1	5.00000+	6	5.78510-	1	6.00000+	6	6.27160-	17094	3251	666
7.00000+	6	6.83030-	1	8.00000+	6	7.29290-	1	9.00000+	6	7.62660-	17094	3251	667
1.00000+	7	7.87440-	1	1.20000+	7	8.28169-	1	1.40000+	7	8.67003-	17094	3251	668
1.60000+	7	8.04402-	1	1.80000+	7	7.85546-	1	2.00000+	7	7.76984-	17094	3251	669
											7094	3	0
4.10930+	4	9.21051+	1		0		0		0		07094	3252	670
0.00000+	0	0.00000+	0		0		0		1		337094	3252	671
	33		2								7094	3252	672
1.00000-	5	2.15420-	2	1.00000+	4	2.15420-	2	1.00000+	5	2.01140-	27094	3252	673
2.00000+	5	1.84630-	2	3.00000+	5	1.71370-	2	4.00000+	5	1.61070-	27094	3252	674
5.00000+	5	1.53390-	2	6.00000+	5	1.47650-	2	7.00000+	5	1.43560-	27094	3252	675
8.00000+	5	1.38520-	2	9.00000+	5	1.31540-	2	1.00000+	6	1.25640-	27094	3252	676
1.20000+	6	1.12400-	2	1.40000+	6	1.06670-	2	1.60000+	6	1.04190-	27094	3252	677
1.80000+	6	1.06170-	2	2.00000+	6	1.06710-	2	2.50000+	6	1.00940-	27094	3252	678
3.00000+	6	1.00620-	2	3.50000+	6	9.68850-	3	4.00000+	6	9.78790-	37094	3252	680
4.50000+	6	9.51320-	3	5.00000+	6	9.14590-	3	6.00000+	6	8.09030-	37094	3252	681
7.00000+	6	6.87790-	3	8.00000+	6	5.87420-	3	9.00000+	6	5.15000-	37094	3252	682
1.00000+	7	4.61230-	3	1.20000+	7	3.73152-	3	1.40000+	7	2.88819-	37094	3252	683
1.60000+	7	4.24766-	3	1.80000+	7	4.65715-	3	2.00000+	7	4.84308-	37094	3252	684
											7094	3	0
4.10930+	4	9.21051+	1		0		0		0		07094	3253	685
0.00000+	0	0.00000+	0		0		0		1		337094	3253	686
	33		2								7094	3253	687
1.00000-	5	1.44140-	2	1.00000+	4	1.44140-	2	1.00000+	5	1.40380-	27094	3253	688
2.00000+	5	1.35040-	2	3.00000+	5	1.30380-	2	4.00000+	5	1.26590-	27094	3253	689
5.00000+	5	1.23770-	2	6.00000+	5	1.21790-	2	7.00000+	5	1.20630-	27094	3253	690
8.00000+	5	1.18950-	2	9.00000+	5	1.16210-	2	1.00000+	6	1.13970-	27094	3253	692
1.20000+	6	1.08180-	2	1.40000+	6	1.07520-	2	1.60000+	6	1.09500-	27094	3253	693
1.80000+	6	1.14140-	2	2.00000+	6	1.17740-	2	2.50000+	6	1.21040-	27094	3253	694
3.00000+	6	1.24870-	2	3.50000+	6	1.23550-	2	4.00000+	6	1.22750-	27094	3253	695
4.50000+	6	1.20040-	2	5.00000+	6	1.17920-	2	6.00000+	6	1.14400-	27094	3253	696
7.00000+	6	1.11080-	2	8.00000+	6	1.07840-	2	9.00000+	6	1.05090-	27094	3253	697
1.00000+	7	1.02510-	2	1.20000+	7	1.00568-	2	1.40000+	7	9.92264-	37094	3253	698
1.60000+	7	1.22132-	2	1.80000+	7	1.23768-	1	2.00000+	7	1.18056-	27094	3253	699
											7094	3	0
											7094	0	0
4.10930+	4	9.21051+	1		1		1		0		07094	4	2
0.00000+	0	9.21051+	1		0		2		441		207094	4	2
1.00000+	0	7.23811-	3	2.35641-	5	-2.03616-10	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	9.99929-	1	1.30282-	27094	4	2
8.07795-	5	2.43504-	7	-9.95243-	9	-1.52963-10	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
-3.64850-	8	-1.39514-11	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
9.99639-	1	2.41227-	2	2.85627-	4	2.08715-	6	-6.49777-	8	-1.98753-	97094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2
4.32540-	4	4.00562-	6	-7.38832-	8	-6.66531-10	0	0.00000+	0	0.00000+	07094	4	2

0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	720
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	7.71868-	9-1.94985-	67094	4	2	721			
2.80583-	4-2.41162-	2	9.99108-	1	3.50614-	2	6.08992-	4	6.80688-	67094	4	2	722			
-1.31325-	7-4.94224-	9	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	723	
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	724
0.00000+	0-8.22792-	11	2.30944-	8-3.87720-	6	4.28477-	4-2.95920-	27094	4	2	725					
9.98755-	1	4.05082-	2	8.14842-	4	1.06412-	5-1.11301-	7-6.41590-	97094	4	2	726				
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	727
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	8.81865-13-2.70027-	107094	4	2	728				
5.10005-	8-6.68003-	6	6.05553-	4-3.50479-	2	9.98343-	1	4.59452-	27094	4	2	729				
1.05019-	3	1.56773-	5-1.19813-	8-4.40058-	9	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	730
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	731
0.00000+	0-9.48336-	15	3.12718-12-6.49702-	10	9.67030-	8-1.05198-	57094	4	2	732						
8.11890-	4-4.04902-	2	9.97872-	1	5.13740-	2	1.31498-	3	2.20743-	57094	4	2	733			
6.26413-	8-6.32615-	9	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	734	
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	1.02205-16-3.59479-	147094	4	2	735				
8.09129-12-1.33403-	9	1.66288-	7-1.55566-	5	1.04751-	3-4.59221-	27094	4	2	736						
9.97342-	1	5.67953-	2	1.60907-	3	2.99834-	5	2.05617-	7-5.04969-	97094	4	2	737			
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	738
0.00000+	0-1.10317-	18	4.10853-16-9.90718-	14	1.77872-11-2.47062-	97094	4	2	739							
2.66697-	7-2.19501-	5	1.31241-	3-5.13451-	2	9.96753-	1	6.22095-	27094	4	2	740				
1.93250-	3	3.95711-	5	3.76290-	7-8.91059-	9	0.00000+	0	0.00000+	07094	4	2	741			
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	1.19203-20-2.93963-	187094	4	2	742				
1.19735-15-2.31202-	13	3.51270-11-4.24696-	9	4.05728-	7-2.98592-	57094	4	2	743							
1.60658-	3-5.67601-	2	9.96106-	1	6.76168-	2	2.28518-	3	5.09872-	57094	4	2	744			
6.92780-	7	4.21640-	9	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	745		
0.00000+	0	0.00000+	0	2.44663-20-9.50171-	18	2.94696-15-4.83200-	137094	4	2	746						
6.41542-11-6.89513-	9	5.92039-	7-3.94429-	5	1.92998-	3-6.21673-	27094	4	2	747						
9.95400-	1	7.30170-	2	2.66718-	3	6.44122-	5	9.66552-	7-5.94949-	97094	4	2	748			
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	749		
8.43478-20-2.32578-	17	6.47960-15-9.31271-	13	1.10299-10-1.06965-	87094	4	2	750								
8.35150-	7-5.08596-	5	2.28258-	3-6.75669-	2	9.94636-	1	7.84099-	27094	4	2	751				
3.07825-	3	7.99627-	5	1.48836-	6	2.03411-	8	0.00000+	0	0.00000+	07094	4	2	752		
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	2.11616-19-4.99696-	177094	4	2	753				
1.31082-14-1.68522-	12	1.80660-10-1.59865-	8	1.14543-	6-6.42676-	57094	4	2	754							
2.66435-	3-7.29588-	2	9.93813-	1	8.37953-	2	3.51864-	3	9.78571-	57094	4	2	755			
1.91465-	6	2.22029-	8	1.14675-	8	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	756		
0.00000+	0	0.00000+	0	4.58091-19-9.86296-	17	2.48458-14-2.89847-	127094	4	2	757						
2.84307-10-2.31590-	8	1.53412-	6-7.98248-	5	3.07523-	3-7.83428-	27094	4	2	758						
9.92932-	1	8.91729-	2	3.98792-	3	1.18190-	4	2.50919-	6	2.96635-	87094	4	2	759		
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	760		
9.04141-19-1.82760-	16	4.46684-14-4.77938-	12	4.32613-10-3.26711-	87094	4	2	761								
2.01330-	6-9.76888-	5	3.51519-	3-8.37187-	2	9.91993-	1	9.45424-	27094	4	2	762				
4.48630-	3	1.41149-	4	3.27019-	6	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	763		
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	1.66979-18-4.98567-	167094	4	2	764				
7.68509-14-7.60465-	12	6.39612-10-4.50480-	8	2.59590-	6-1.18017-	47094	4	2	765							
3.98417-	3-8.90861-	2	9.90995-	1	9.99032-	2	5.01370-	3	1.66898-	47094	4	2	766			
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	767		
0.00000+	0-1.59186-	20	3.91433-18-1.02867-	15	1.27375-13-1.17349-	117094	4	2	768							
9.22375-10-6.08870-	8	3.29572-	6-1.40966-	4	4.48211-	3-9.44447-	27094	4	2	769						
9.89939-	1	1.05255-	1	5.56996-	3	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	770		
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0-3.62267-	207094	4	2	771			
7.62560-18-1.89189-	15	2.04430-13-1.76324-	11	1.30142-	9-8.03626-	87094	4	2	772							
4.12737-	6-1.66692-	4	5.00895-	3-9.97941-	2	9.88825-	1	1.10598-	17094	4	2	773				
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	07094	4	2	774		
0.00000+	0	0.00000+	0	0.00000+	0	0.00000+	0	1.35847-17-3.25817-	157094	4	2	775				
3.19011-13-2.58804-	11	1.80113-	9-1.05731-	7	5.10635-	6-1.95351-	47094	4	2	776						
5.56464-	3-1.05134-	1	9.87654-	1					7094	4	2	777				
0.00000+	0	0.00000+	0		0		0	1	337094	4	2	778				
	33		2						7094	4	2	779				

0.00000+	0	1.00000-	5	0	0	1	07094	4	2	7				
0.00000+	0	1.00000-	4	0	0	1	7094	4	2	7				
0.00000+	0	1.00000-	5	0	0	2	07094	4	2	7				
6.59330-	2	1.73040-	2	0	0	2	07094	4	2	7				
0.00000+	0	2.00000-	5	0	0	2	07094	4	2	7				
1.42130-	1	3.40200-	2	0	0	2	7094	4	2	7				
0.00000+	0	3.00000-	5	0	0	4	07094	4	2	7				
2.03370-	1	5.16200-	2	1.46570-	3	1.73330-	4	7094	4	2	7			
0.00000+	0	4.00000-	5	0	0	4	07094	4	2	7				
2.51000-	1	6.90200-	2	3.10000-	3	3.92780-	4	7094	4	2	7			
0.00000+	0	5.00000-	5	0	0	4	07094	4	2	7				
2.86500-	1	8.52800-	2	5.58860-	3	9.20220-	4	7094	4	2	7			
0.00000+	0	6.00000-	5	0	0	4	07094	4	2	7				
3.13070-	1	1.00460-	1	8.84290-	3	1.66000-	3	7094	4	2	7			
0.00000+	0	7.00000-	5	0	0	4	07094	4	2	7				
3.32030-	1	1.14460-	1	1.29010-	2	2.71000-	3	7094	4	2	7			
0.00000+	0	8.00000-	5	0	0	4	07094	4	2	7				
3.55330-	1	1.30240-	1	1.78000-	2	4.60330-	3	7094	4	2	7			
0.00000+	0	9.00000-	5	0	0	4	07094	4	2	8				
3.87670-	1	1.50640-	1	2.47430-	2	7.25890-	3	7094	4	2	8			
0.00000+	0	1.00000-	6	0	0	4	07094	4	2	8				
4.15000-	1	1.70340-	1	3.28000-	2	1.06170-	2	7094	4	2	8			
0.00000+	0	1.20000-	6	0	0	4	07094	4	2	8				
4.76330-	1	2.15200-	1	5.41860-	2	2.11440-	2	7094	4	2	8			
0.00000+	0	1.40000-	6	0	0	6	07094	4	2	8				
5.03000-	1	2.50400-	1	7.38710-	2	3.44890-	2	3.94910-	3	1.06000-	37094	4	2	8
0.00000+	0	1.60000-	6	0	0	6	07094	4	2	8				
5.14670-	1	2.81000-	1	9.52710-	2	5.09890-	2	7.44000-	3	2.15230-	37094	4	2	8
0.00000+	0	1.80000-	6	0	0	6	07094	4	2	8				
5.05670-	1	2.99200-	1	1.14290-	1	7.27000-	2	1.31450-	2	4.05620-	37094	4	2	8
0.00000+	0	2.00000-	6	0	0	6	07094	4	2	8				
5.03330-	1	3.20400-	1	1.33430-	1	9.50330-	2	2.16640-	2	7.29150-	37094	4	2	8
0.00000+	0	2.50000-	6	0	0	6	07094	4	2	8				
5.30330-	1	3.78400-	1	1.86000-	1	1.62330-	1	5.29730-	2	1.73690-	27094	4	2	8
0.00000+	0	3.00000-	6	0	0	6	07094	4	2	8				
5.32000-	1	4.05400-	1	2.21140-	1	2.22440-	1	1.01820-	1	3.68770-	27094	4	2	8
0.00000+	0	3.50000-	6	0	0	8	07094	4	2	8				
5.49330-	1	4.19400-	1	2.58290-	1	2.72330-	1	1.54450-	1	6.31540-	27094	4	2	8
6.04530-	3	1.50180-	3				7094	4	2	8				
0.00000+	0	4.00000-	6	0	0	8	07094	4	2	8				
5.44670-	1	4.08800-	1	2.75140-	1	2.91440-	1	1.96000-	1	8.78460-	27094	4	2	8
1.10200-	2	2.34240-	3				7094	4	2	8				
0.00000+	0	4.50000-	6	0	0	8	07094	4	2	8				
5.57330-	1	4.09000-	1	2.98290-	1	3.04560-	1	2.26450-	1	1.06920-	17094	4	2	8
1.95070-	2	6.35290-	3				7094	4	2	8				
0.00000+	0	5.00000-	6	0	0	8	07094	4	2	8				
5.74330-	1	4.19400-	1	3.19860-	1	3.11780-	1	2.47910-	1	1.26000-	17094	4	2	8
3.12870-	2	1.09000-	2				7094	4	2	8				
0.00000+	0	6.00000-	6	0	0	10	07094	4	2	8				
6.23330-	1	4.67800-	1	3.63570-	1	3.25780-	1	2.70730-	1	1.61620-	17094	4	2	8
5.86730-	2	2.44590-	2	7.58420-	3	1.34480-	3			7094	4	2	8	
0.00000+	0	7.00000-	6	0	0	10	07094	4	2	8				
6.79670-	1	5.32400-	1	4.11140-	1	3.49780-	1	2.87640-	1	1.92620-	17094	4	2	8
9.08000-	2	4.21710-	2	1.45110-	2	3.21330-	3			7094	4	2	8	
0.00000+	0	8.00000-	6	0	0	10	07094	4	2	8				
7.26330-	1	5.88000-	1	4.55570-	1	3.79110-	1	3.04000-	1	2.17920-	17094	4	2	8
1.17800-	1	5.85880-	2	2.27530-	2	5.87620-	3			7094	4	2	8	
0.00000+	0	9.00000-	6	0	0	12	07094	4	2	8				

7.60000- 1	6.29400- 1	4.94140- 1	4.07560- 1	3.19910- 1	2.37380- 1	7094 4	2	840
1.37270- 1	7.15290- 2	2.90840- 2	8.48570- 3	3.68000- 3	4.74400- 4	7094 4	2	841
0.00000+ 0	1.00000+ 7	0	0	12	0	7094 4	2	842
.78922E 00	.66604E 00	.53134E 00	.43741E 00	.34212E 00	.25680E 00	7094 4	2	843
.15516E 00	.83906E-01	.38188E-01	.13057E-01	.67732E-02	.13638E-02	7094 4	2	844
.00000E 00	.12000E 08	0	0	12	0	7094 4	2	845
.82616E 00	.72033E 00	.60149E 00	.49949E 00	.38980E 00	.29380E 00	7094 4	2	846
.19270E 00	.11255E 00	.59709E-01	.30904E-01	.17887E-01	.29439E-02	7094 4	2	847
.00000E 00	.14000E 08	0	0	12	0	7094 4	2	848
.86543E 00	.78093E 00	.68039E 00	.57714E 00	.46011E 00	.35122E 00	7094 4	2	849
.24600E 00	.15909E 00	.97938E-01	.58453E-01	.32956E-01	.76685E-02	7094 4	2	850
.00000E 00	.16000E 08	0	0	14	0	7094 4	2	851
.80254E 00	.74143E 00	.66424E 00	.58405E 00	.47621E 00	.38074E 00	7094 4	2	852
.28181E 00	.20067E 00	.13787E 00	.96866E-01	.58804E-01	.23758E-01	7094 4	2	853
.19945E-01	.84093E-02	.00000E 00	.00000E 00	.00000E 00	.00000E 00	7094 4	2	854
.00000E 00	.18000E 08	0	0	14	0	7094 4	2	855
.78354E 00	.72170E 00	.65936E 00	.59820E 00	.50678E 00	.42032E 00	7094 4	2	856
.32598E 00	.24468E 00	.17459E 00	.12355E 00	.79283E-01	.42379E-01	7094 4	2	857
.37154E-01	.10927E-01	.00000E 00	.00000E 00	.00000E 00	.00000E 00	7094 4	2	858
.00000E 00	.20000E 08	0	0	14	0	7094 4	2	859
.77477E 00	.69276E 00	.62802E 00	.58047E 00	.50567E 00	.43109E 00	7094 4	2	860
.34334E 00	.26551E 00	.19339E 00	.14039E 00	.98566E-01	.65504E-01	7094 4	2	861
.49873E-01	.13320E-01	.00000E 00	.00000E 00	.00000E 00	.00000E 00	7094 4	2	862
						7094 4	0	863
4.10930+ 4	9.21051+ 1	0	2	0	0	7094 4	16	864
0.00000+ 0	9.21051+ 1	0	1	0	0	7094 4	16	865
0.00000+ 0	0.00000+ 0	0	0	1	0	7094 4	16	866
2	2					7094 4	16	867
0.00000+ 0	8.92000+ 6	0	0	1	0	7094 4	16	868
2	2					7094 4	16	869
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	0	0	7094 4	16	870
0.00000+ 0	2.00000+ 7	0	0	1	0	7094 4	16	871
2	2					7094 4	16	872
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	0	0	7094 4	16	873
4.10930+ 4	9.21051+ 1	0	2	0	0	7094 4	0	874
0.00000+ 0	9.21051+ 1	0	1	0	0	7094 4	17	875
0.00000+ 0	0.00000+ 0	0	0	1	0	7094 4	17	876
2	2					7094 4	17	877
0.00000+ 0	1.68960+ 7	0	0	1	0	7094 4	17	878
2	2					7094 4	17	879
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	0	0	7094 4	17	880
0.00000+ 0	2.00000+ 7	0	0	1	0	7094 4	17	881
2	2					7094 4	17	882
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	0	0	7094 4	17	883
4.10930+ 4	9.21051+ 1	0	2	0	0	7094 4	17	884
0.00000+ 0	9.21051+ 1	0	1	0	0	7094 4	0	885
0.00000+ 0	0.00000+ 0	0	0	1	0	7094 4	22	886
2	2					7094 4	22	887
0.00000+ 0	1.96686+ 7	0	0	1	0	7094 4	22	888
2	2					7094 4	22	889
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	0	0	7094 4	22	890
0.00000+ 0	2.00000+ 7	0	0	1	0	7094 4	22	891
2	2					7094 4	22	892
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	0	0	7094 4	22	893
4.10930+ 4	9.21051+ 1	0	2	0	0	7094 4	22	894
0.00000+ 0	9.21051+ 1	0	2	0	0	7094 4	22	895
0.00000+ 0	0.00000+ 0	0	2	0	0	7094 4	51	896
4.10930+ 4	9.21051+ 1	0	2	0	0	7094 4	51	897
0.00000+ 0	0.00000+ 0	0	2	0	0	7094 4	51	898
						7094 4	51	899

0.00000+	0	2.93100+	4	2				7094	4	51	90
	2	2		0	0	1	27094	4	51	90	
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	51	90
0.00000+	0	2.00000+	7	0	0	1	7094	4	51	90	
	2	2				27094	4	51	90		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	51	90
	2	2				7094	4	51	90		
4.10930+	4	9.21051+	1	0	2	0	07094	4	52	90	
0.00000+	0	9.21051+	1	0	2	0	07094	4	52	90	
0.00000+	0	0.00000+	0	0	0	1	27094	4	52	91	
	2	2				7094	4	52	91		
0.00000+	0	7.47920+	5	0	0	1	27094	4	52	91	
	2	2				7094	4	52	91		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	52	91
0.00000+	0	2.00000+	7	0	0	1	27094	4	52	91	
	2	2				7094	4	52	91		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	52	91
	2	2				7094	4	52	91		
4.10930+	4	9.21051+	1	0	2	0	07094	4	53	91	
0.00000+	0	9.21051+	1	0	2	0	07094	4	53	92	
0.00000+	0	0.00000+	0	0	0	1	27094	4	53	92	
	2	2				7094	4	53	92		
0.00000+	0	8.18670+	5	0	0	1	27094	4	53	92	
	2	2				7094	4	53	92		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	53	92
0.00000+	0	2.00000+	7	0	0	1	27094	4	53	92	
	2	2				7094	4	53	92		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	53	92
	2	2				7094	4	53	92		
4.10930+	4	9.21051+	1	0	2	0	07094	4	54	93	
0.00000+	0	9.21051+	1	0	2	0	07094	4	54	93	
0.00000+	0	0.00000+	0	0	0	1	27094	4	54	93	
	2	2				7094	4	54	93		
0.00000+	0	9.69260+	5	0	0	1	27094	4	54	93	
	2	2				7094	4	54	93		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	54	93
0.00000+	0	2.00000+	7	0	0	1	27094	4	54	93	
	2	2				7094	4	54	93		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	54	93
	2	2				7094	4	54	93		
4.10930+	4	9.21051+	1	0	2	0	07094	4	55	94	
0.00000+	0	9.21051+	1	0	2	0	07094	4	55	94	
0.00000+	0	0.00000+	0	0	0	1	27094	4	55	94	
	2	2				7094	4	55	94		
0.00000+	0	1.08150+	6	0	0	1	27094	4	55	94	
	2	2				7094	4	55	94		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	55	94
0.00000+	0	2.00000+	7	0	0	1	27094	4	55	94	
	2	2				7094	4	55	94		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	55	95
	2	2				7094	4	55	95		
4.10930+	4	9.21051+	1	0	2	0	07094	4	56	95	
0.00000+	0	9.21051+	1	0	2	0	07094	4	56	95	
0.00000+	0	0.00000+	0	0	0	1	27094	4	56	95	
	2	2				7094	4	56	95		
0.00000+	0	1.32920+	6	0	0	1	27094	4	56	95	
	2	2				7094	4	56	95		
-1.00000+	0	5.00000-	1	1.00000+	0	5.00000-	1	7094	4	56	95
0.00000+	0	2.00000+	7	0	0	1	27094	4	56	95	

-1.000000+ 0	5.00000- 2	1.00000+ 0	5.00000- 1	7094	4	56	96
4.10930+ 4	9.21051+ 1	0	2	7094	4	56	96
0.00000+ 0	9.21051+ 1	0	2	7094	4	57	96
0.00000+ 0	0.00000+ 0	0	0	07094	4	57	96
2	2	0	1	07094	4	57	96
0.00000+ 0	1.50390+ 6	0	0	27094	4	57	96
2	2	0	1	27094	4	57	96
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	57	96
0.00000+ 0	2.00000+ 7	0	0	7094	4	57	97
2	2	0	1	27094	4	57	97
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	57	97
4.10930+ 4	9.21051+ 1	0	2	7094	4	57	97
0.00000+ 0	9.21051+ 1	0	2	07094	4	58	97
0.00000+ 0	0.00000+ 0	0	0	07094	4	58	97
2	2	0	1	27094	4	58	97
0.00000+ 0	1.69190+ 6	0	0	7094	4	58	97
2	2	0	1	27094	4	58	97
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	58	97
0.00000+ 0	2.00000+ 7	0	0	7094	4	58	98
2	2	0	1	27094	4	58	98
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	58	98
4.10930+ 4	9.21051+ 1	0	2	7094	4	58	98
0.00000+ 0	9.21051+ 1	0	2	07094	4	59	98
0.00000+ 0	0.00000+ 0	0	0	07094	4	59	98
2	2	0	1	27094	4	59	98
0.00000+ 0	1.96780+ 6	0	0	7094	4	59	98
2	2	0	1	27094	4	59	98
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	59	99
0.00000+ 0	2.00000+ 7	0	0	7094	4	59	99
2	2	0	1	27094	4	59	99
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	59	99
4.10930+ 4	9.21051+ 1	0	2	7094	4	60	99
0.00000+ 0	9.21051+ 1	0	2	07094	4	60	99
0.00000+ 0	0.00000+ 0	0	0	07094	4	60	99
2	2	0	1	27094	4	60	99
0.00000+ 0	2.18210+ 6	0	0	7094	4	60	100
2	2	0	1	27094	4	60	100
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	60	1001
0.00000+ 0	2.00000+ 7	0	0	7094	4	60	1002
2	2	0	1	27094	4	60	1003
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	60	1004
4.10930+ 4	9.21051+ 1	0	2	7094	4	60	1005
0.00000+ 0	9.21051+ 1	0	2	07094	4	61	1007
0.00000+ 0	0.00000+ 0	0	0	07094	4	61	1008
2	2	0	1	27094	4	61	1009
0.00000+ 0	2.35990+ 6	0	0	7094	4	61	1010
2	2	0	1	27094	4	61	1011
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	61	1012
0.00000+ 0	2.00000+ 7	0	0	7094	4	61	1013
2	2	0	1	27094	4	61	1014
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1	7094	4	61	1015
4.10930+ 4	9.21051+ 1	0	2	7094	4	61	1016
0.00000+ 0	9.21051+ 1	0	2	07094	4	62	1017

0.00000+ 0	0.00000+ 0	0	0	1	27094	4	62	102	
2	2				7094	4	62	102	
0.00000+ 0	2.54950+ 6	0	0	1	27094	4	62	102	
2	2				7094	4	62	102	
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1		7094	4	62	102	
0.00000+ 0	2.00000+ 7	0	0	1	7094	4	62	102	
2	2				27094	4	62	102	
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1		7094	4	62	102	
4.10930+ 4	9.21051+ 1	0	2	0	7094	4	0	102	
0.00000+ 0	9.21051+ 1	0	2	0	07094	4	91	102	
0.00000+ 0	0.00000+ 0	0	0	1	07094	4	91	103	
2	2				27094	4	91	103	
0.00000+ 0	2.54950+ 6	0	0	1	7094	4	91	103	
2	2				27094	4	91	103	
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1		7094	4	91	103	
0.00000+ 0	2.00000+ 7	0	0	1	7094	4	91	103	
2	2				27094	4	91	103	
-1.00000+ 0	5.00000- 1	1.00000+ 0	5.00000- 1		7094	4	91	103	
4.10930+ 4	9.2108E+01				7094	4	0	104	
0.		0	1	1	7094	5	16	104	
2	2				27094	5	16	104	
8.9200E+06	1.0000E+00	2.0000E+07	1.0000E+00		7094	5	16	104	
					7094	5	16	104	
0.	8.9200E+06	0		1	77094	5	16	104	
10	2				7094	5	16	104	
1.0000E+04	0.	2.0000E+04	8.2130E-06	3.0000E+04	1.1147E-05	7094	5	16	104
4.0000E+04	1.3448E-05	5.0000E+04	1.5211E-05	6.0000E+04	1.6516E-05	7094	5	16	105
7.0000E+04	1.7435E-05	8.0000E+04	1.8030E-05	9.0000E+04	0.	7094	5	16	105
1.0000E+05	0.				7094	5	16	105	
0.	1.0000E+07	0		1	307094	5	16	105	
30	2				7094	5	16	105	
1.0000E+04	0.	2.0000E+04	2.9187E-07	3.0000E+04	4.2129E-07	7094	5	16	105
4.0000E+04	5.4050E-07	5.0000E+04	6.5015E-07	6.0000E+04	7.5075E-07	7094	5	16	105
7.0000E+04	8.4285E-07	9.0000E+04	1.0035E-06	1.1000E+05	1.1357E-06	7094	5	16	105
1.4000E+05	1.2878E-06	1.6000E+05	1.3628E-06	1.8000E+05	1.4196E-06	7094	5	16	105
2.2000E+05	1.4877E-06	2.6000E+05	1.5075E-06	3.1000E+05	1.4830E-06	7094	5	16	105
3.8000E+05	1.3887E-06	4.4000E+05	1.2767E-06	5.9000E+05	9.6140E-06	7094	5	16	105
6.7000E+05	8.0260E-07	7.5000E+05	6.6045E-07	8.3000E+05	5.3735E-07	7094	5	16	106
9.1000E+05	4.3309E-07	9.5000E+05	3.8766E-07	9.9000E+05	3.4638E-07	7094	5	16	106
1.0300E+06	3.0898E-07	1.0800E+06	2.6730E-07	1.1200E+06	2.3767E-07	7094	5	16	106
1.1700E+06	2.0485E-07	1.1800E+06	9.6460E-08	1.1900E+06	0.	7094	5	16	106
0.	1.2000E+07	0		1	517094	5	16	106	
51	2				7094	5	16	106	
1.0000E+04	0.	2.0000E+04	9.9365E-08	3.0000E+04	1.4571E-07	7094	5	16	106
4.0000E+04	1.3990E-07	5.0000E+04	2.3205E-07	6.0000E+04	2.7220E-07	7094	5	16	106
8.0000E+04	3.4680E-07	1.0000E+05	4.1423E-07	1.3000E+05	5.0300E-07	7094	5	16	106
1.6000E+05	5.7830E-07	1.9000E+05	6.4145E-07	2.4000E+05	7.2325E-07	7094	5	16	106
2.7000E+05	7.6000E-07	3.0000E+05	7.8880E-07	3.3000E+05	8.1050E-07	7094	5	16	107
3.7000E+05	8.2975E-07	4.4000E+05	8.4160E-07	4.9000E+05	8.3655E-07	7094	5	16	107
5.4000E+05	8.2290E-07	6.5000E+05	7.7140E-07	7.6000E+05	7.0245E-07	7094	5	16	107
1.1000E+06	4.6947E-07	1.2100E+06	4.0218E-07	1.3200E+06	3.4170E-07	7094	5	16	107
1.4100E+06	2.9747E-07	1.5100E+06	2.5381E-07	1.6100E+06	2.1561E-07	7094	5	16	107
1.7100E+06	1.8244E-07	1.7700E+06	1.6477E-07	1.8400E+06	1.4610E-07	7094	5	16	107
1.9000E+06	1.3163E-07	1.9700E+06	1.1640E-07	2.0400E+06	1.0281E-07	7094	5	16	107
2.1100E+06	9.0695E-08	2.1900E+06	7.8485E-08	2.2700E+06	6.7830E-08	7094	5	16	107
2.3600E+06	5.7475E-08	2.4500E+06	4.8628E-08	2.5500E+06	4.0323E-08	7094	5	16	107

2.6000E+06	3.6697E-08	2.6600E+06	3.2759E-08	2.7200E+06	2.9227E-08	7094	5	16	1080
2.7800E+06	2.6064E-08	2.8400E+06	2.3233E-08	2.9000E+06	2.1699E-08	7094	5	16	1081
2.9600E+06	1.8435E-08	3.0300E+06	1.6095E-08	3.1000E+06	1.4744E-08	7094	5	16	1082
3.1700E+06	1.2249E-08	3.1800E+06	5.8895E-09	3.1900E+06	0.	7094	5	16	1083
0.	1.4000E+07	0	0	1	637094	5	16	1084	
63	2				7094	5	16	1085	
1.0000E+04	0.	2.0000E+04	6.1650E-08	3.0000E+04	9.0841E-08	7094	5	16	1086
4.0000E+04	1.1398E-07	6.0000E+04	1.7221E-07	8.0000E+04	2.2155E-07	7094	5	16	1087
1.0000E+05	2.6722E-07	1.3000E+05	3.2927E-07	1.7000E+05	4.0089E-07	7094	5	16	1088
2.0000E+05	4.4704E-07	2.4000E+05	4.9947E-07	2.7000E+05	5.3260E-07	7094	5	16	1089
3.1000E+05	5.6935E-07	3.5000E+05	5.9850E-07	3.9000E+05	6.2090E-07	7094	5	16	1090
4.7000E+05	6.4365E-07	5.6000E+05	6.5816E-07	6.3000E+05	6.4500E-07	7094	5	16	1091
8.3000E+05	6.0230E-07	9.6000E+05	5.5230E-07	1.2700E+06	4.2006E-07	7094	5	16	1092
1.4200E+06	3.5931E-07	1.5900E+06	2.9698E-07	1.7500E+06	2.456E-07	7094	5	16	1093
1.9100E+06	2.0146E-07	2.0700E+06	1.6408E-07	2.1500E+06	1.4774E-07	7094	5	16	1094
2.2400E+06	1.3107E-07	2.3200E+06	1.1768E-07	2.4100E+06	1.0409E-07	7094	5	16	1095
2.5200E+06	8.9436E-08	2.6300E+06	7.6691E-08	2.7400E+06	6.5551E-08	7094	5	16	1096
2.8600E+06	5.5305E-08	2.9800E+06	4.6513E-08	3.1100E+06	3.8486E-08	7094	5	16	1097
3.1800E+06	3.4728E-08	3.2500E+06	3.1322E-08	3.3200E+06	2.8237E-08	7094	5	16	1098
3.4000E+06	2.5068E-08	3.4700E+06	2.2577E-08	3.5500E+06	2.0023E-08	7094	5	16	1099
3.6300E+06	1.7749E-08	3.7100E+06	1.5726E-08	3.7900E+06	1.3926E-08	7094	5	16	1100
3.8800E+06	1.2141E-08	3.9700E+06	1.0577E-08	4.0700E+06	9.0706E-09	7094	5	16	1101
4.1800E+06	7.6541E-09	4.3000E+06	6.3550E-09	4.4200E+06	5.2725E-09	7094	5	16	1102
4.4800E+06	4.8011E-09	4.5500E+06	4.3032E-09	4.6200E+06	3.8560E-09	7094	5	16	1103
4.6900E+06	3.4545E-09	4.7600E+06	3.0941E-09	4.8400E+06	2.7272E-09	7094	5	16	1104
4.9200E+06	2.4033E-09	5.0000E+06	2.1172E-09	5.0800E+06	1.8647E-09	7094	5	16	1105
5.1700E+06	1.6160E-09	5.1800E+06	7.8266E-10	5.1900E+06	0.	7094	5	16	1106
0.	1.5000E+07	0	0	1	727094	5	16	1107	
72	2				7094	5	16	1108	
1.0000E+04	0.	2.0000E+04	4.4589E-08	3.0000E+04	6.2880E-08	7094	5	16	1109
5.0000E+04	1.0651E-07	7.0000E+04	1.4468E-07	9.0000E+04	1.8045E-07	7094	5	16	1110
1.2000E+05	2.2993E-07	1.6000E+05	2.8853E-07	2.0000E+05	3.3945E-07	7094	5	16	1111
2.4000E+05	3.8340E-07	2.8000E+05	4.2099E-07	3.2000E+05	4.5284E-07	7094	5	16	1112
3.6000E+05	4.7949E-07	4.0000E+05	5.0145E-07	4.5000E+05	5.2295E-07	7094	5	16	1113
5.5000E+05	5.4930E-07	6.6000E+05	5.5800E-07	8.0000E+05	5.4705E-07	7094	5	16	1114
9.7000E+05	5.1270E-07	1.1300E+06	4.5858E-07	1.5100E+06	3.5214E-07	7094	5	16	1115
1.7000E+06	2.9728E-07	1.9100E+06	2.4298E-07	2.1100E+06	1.9825E-07	7094	5	16	1116
2.2100E+06	1.7845E-07	2.3200E+06	1.5855E-07	2.4300E+06	1.4059E-07	7094	5	16	1117
2.5400E+06	1.2440E-07	2.6500E+06	1.0986E-07	2.7700E+06	9.5745E-08	7094	5	16	1118
2.8900E+06	8.3285E-08	3.0100E+06	7.2325E-08	3.1500E+06	6.1220E-08	7094	5	16	1119
3.2900E+06	5.1720E-08	3.4500E+06	4.2560E-08	3.6100E+06	3.4947E-08	7094	5	16	1120
3.6900E+06	3.1644E-08	3.7800E+06	2.8283E-08	3.8700E+06	2.5265E-08	7094	5	16	1121
3.9600E+06	2.2557E-08	4.0600E+06	1.9875E-08	4.1600E+06	1.7502E-08	7094	5	16	1122
4.2600E+06	1.5402E-08	4.3700E+06	1.5875E-08	4.4700E+06	1.1757E-08	7094	5	16	1123
4.5800E+06	1.0197E-08	4.7000E+06	8.7250E-09	4.8200E+06	7.4600E-09	7094	5	16	1124
4.9500E+06	6.2915E-09	5.0800E+06	5.3025E-09	5.2300E+06	4.3492E-09	7094	5	16	1125
5.3800E+06	3.5644E-09	5.5300E+06	2.9190E-09	5.6100E+06	2.6231E-09	7094	5	16	1126
5.6900E+06	2.3558E-09	5.7700E+06	2.1171E-09	5.8600E+06	1.8761E-09	7094	5	16	1127
5.9500E+06	1.5620E-09	6.0500E+06	1.4524E-09	6.1500E+06	1.2518E-09	7094	5	16	1128
6.2800E+06	1.0639E-09	6.4100E+06	8.9135E-10	6.5400E+06	7.4725E-10	7094	5	16	1129
6.6800E+06	6.1740E-10	6.7500E+06	5.6110E-10	6.8300E+06	5.0290E-10	7094	5	16	1130
6.9100E+06	4.5073E-10	6.9900E+06	4.0389E-10	7.0800E+06	3.5694E-10	7094	5	16	1131
7.1700E+06	3.1540E-10	7.1800E+06	1.5342E-10	7.1900E+06	0.	7094	5	16	1132
0.	1.8000E+07	0	0	1	667094	5	16	1133	
66	2				7094	5	16	1134	
1.0000E+04	0.	2.0000E+04	3.4533E-08	4.0000E+04	6.7445E-08	7094	5	16	1135
6.0000E+04	9.3505E-08	9.0000E+04	1.4174E-07	1.1000E+05	1.6895E-07	7094	5	16	1136
1.4000E+05	2.0659E-07	1.8900E+05	2.5182E-07	2.3000E+05	3.0102E-07	7094	5	16	1137
2.7000E+05	3.3502E-07	3.2000E+05	3.7145E-07	3.7000E+05	4.0179E-07	7094	5	16	1138
4.2000E+05	4.2667E-07	5.2000E+05	4.6832E-07	6.3000E+05	4.8371E-07	7094	5	16	1139

7.5000E+05	4.9070E-07	9.1000E+05	4.8100E-07	1.1000E+06	4.5131E-077094	5	16	1140	
1.2800E+06	4.1310E-07	1.7200E+06	3.0874E-07	1.9500E+06	2.5759E-077094	5	16	1141	
2.2000E+06	2.0823E-07	2.4400E+06	1.6770E-07	2.5600E+06	1.4993E-077094	5	16	1142	
2.6900E+06	1.3247E-07	2.8200E+06	1.1678E-07	2.9600E+06	1.0171E-077094	5	16	1143	
3.1000E+06	8.8375E-08	3.2400E+06	7.6635E-08	3.3900E+06	6.5650E-087094	5	16	1144	
3.5500E+06	5.5540E-08	3.7200E+06	4.6397E-08	3.8900E+06	3.8678E-087094	5	16	1145	
3.9900E+06	3.4719E-08	4.0800E+06	3.1488E-08	4.1800E+06	2.8233E-087094	5	16	1146	
4.2800E+06	2.5300E-08	4.3800E+06	2.2660E-08	4.4900E+06	2.0060E-087094	5	16	1147	
4.6000E+06	1.7747E-08	4.7200E+06	1.5518E-08	4.8400E+06	1.3560E-087094	5	16	1148	
4.9700E+06	1.1708E-08	5.1000E+06	1.0102E-08	5.2400E+06	8.6120E-097094	5	16	1149	
5.3700E+06	7.4210E-09	5.5100E+06	6.3180E-09	5.6600E+06	5.3135E-097094	5	16	1150	
5.8200E+06	4.4141E-09	5.9800E+06	3.6642E-09	6.0700E+06	3.2987E-097094	5	16	1151	
6.1600E+06	2.9691E-09	6.2500E+06	2.6718E-09	6.3500E+06	2.3757E-097094	5	16	1152	
6.4500E+06	2.1119E-09	6.5600E+06	1.8549E-09	6.6500E+06	1.6678E-097094	5	16	1153	
6.7400E+06	1.4992E-09	6.8300E+06	1.3474E-09	6.9300E+06	1.1965E-097094	5	16	1154	
7.0300E+06	1.0623E-09	7.1300E+06	9.4285E-10	7.2400E+06	8.2680E-107094	5	16	1155	
7.3500E+06	7.2485E-10	9.1800E+06	3.6243E-10	9.1900E+06	0.	7094	5	16	1156
0.	2.0000E+07	0	1	677094	5	16	1157		
67	2			7094	5	16	1158		
1.0000E+04	0.	2.0000E+04	2.8347E-08	3.0000E+04	4.2011E-087094	5	16	1159	
5.0000E+04	6.8350E-08	7.0000E+04	9.3410E-08	1.0000E+05	1.2872E-077094	5	16	1160	
1.3000E+05	1.6138E-07	1.6000E+05	1.9158E-07	2.1000E+05	2.3675E-077094	5	16	1161	
2.6000E+05	2.7597E-07	3.1000E+05	3.0981E-07	3.6000E+05	3.3875E-077094	5	16	1162	
4.1000E+05	3.6324E-07	4.7000E+05	3.8735E-07	5.8000E+05	4.1868E-077094	5	16	1163	
7.0000E+05	4.3728E-07	8.3000E+05	4.4332E-07	1.0000E+06	4.3520E-077094	5	16	1164	
1.2100E+06	4.0888E-07	1.4100E+06	3.7443E-07	1.9100E+06	2.7769E-077094	5	16	1165	
2.1700E+06	2.3065E-07	2.4500E+06	1.8585E-07	2.5900E+06	1.6597E-077094	5	16	1166	
2.7300E+06	1.4779E-07	2.8800E+06	1.3014E-07	3.0300E+06	1.1427E-077094	5	16	1167	
3.1900E+06	9.9210E-08	3.3500E+06	8.5920E-08	3.5200E+06	7.3560E-087094	5	16	1168	
3.6900E+06	6.2830E-08	3.8700E+06	5.3050E-08	4.0500E+06	4.4694E-087094	5	16	1169	
4.2400E+06	3.7217E-08	4.4500E+06	3.0329E-08	4.5600E+06	2.7220E-087094	5	16	1170	
4.6700E+06	2.4417E-08	4.7800E+06	2.1890E-08	4.9000E+06	1.9419E-087094	5	16	1171	
5.0200E+06	1.7216E-08	5.1500E+06	1.5102E-08	5.2800E+06	1.3239E-087094	5	16	1172	
5.4200E+06	1.1480E-08	5.5700E+06	9.8470E-09	5.7200E+06	8.4405E-097094	5	16	1173	
5.8800E+06	7.1550E-09	6.0500E+06	5.9985E-09	6.2100E+06	5.0775E-097094	5	16	1174	
6.3800E+06	4.2505E-09	6.5600E+06	3.5184E-09	6.7500E+06	2.8796E-097094	5	16	1175	
6.8500E+06	2.5905E-09	6.9500E+06	2.3301E-09	7.0600E+06	2.0731E-097094	5	16	1176	
7.1700E+06	1.8441E-09	7.2800E+06	1.6399E-09	7.4000E+06	1.4426E-097094	5	16	1177	
7.5300E+06	1.2552E-09	7.6600E+06	1.0917E-09	7.8300E+06	9.0925E-107094	5	16	1178	
8.0100E+06	7.4880E-10	8.1100E+06	6.7210E-10	8.2100E+06	6.0315E-107094	5	16	1179	
8.3100E+06	5.4120E-10	8.4200E+06	4.8030E-10	1.1180E+07	2.4015E-107094	5	16	1180	
1.1190E+07	0.			7094	5	16	1181		
4.1093E+04	9.2108E+01			7094	5	0	1182		
0.		0	1	1	7094	5	17	1183	
2	2			27094	5	17	1184		
1.6890E+07	1.0000E+00	2.0000E+07	1.0000E+00		7094	5	17	1185	
3	2			1	37094	5	17	1186	
0.	1.6890E+07	0		1	7094	5	17	1187	
15	2			1	157094	5	17	1188	
0.	1.6890E+07			1	7094	5	17	1189	
2.0000E+04	0.	2.0000E+04	3.3031E-06	3.0000E+04	4.4833E-067094	5	17	1190	
4.0000E+04	5.4087E-06	5.0000E+04	6.1177E-06	6.0000E+04	6.6423E-067094	5	17	1191	
7.0000E+04	7.0120E-06	8.0000E+04	7.2510E-06	9.0000E+04	7.3813E-067094	5	17	1192	
1.0000E+05	7.4210E-06	1.1000E+05	7.3863E-06	1.3000E+05	7.1466E-067094	5	17	1193	
1.6000E+05	6.5163E-06	1.7000E+05	3.0010E-06	1.8000E+05	0.	7094	5	17	1194
0.	1.8000E+07	0		1	347094	5	17	1195	
34	2			1	7094	5	17	1196	
1.0000E+04	0.	2.0000E+04	3.0725E-07	3.0000E+04	4.4280E-077094	5	17	1197	
4.0000E+04	5.6727E-07	5.0000E+04	6.8127E-07	6.0000E+04	7.8546E-077094	5	17	1198	
					7094	5	17	1199	

7.0000E+04	8.8046E-07	8.0000E+04	9.6680E-07	1.0000E+05	1.1155E-06	7094	5	17	1200
1.1000E+05	1.1790E-06	1.3000E+05	1.2862E-06	1.5000E+05	1.3700E-06	7094	5	17	1201
1.7000E+05	1.4333E-06	1.9000E+05	1.4788E-06	2.1000E+05	1.5088E-06	7094	5	17	1202
2.5000E+05	1.5306E-06	3.0000E+05	1.5038E-06	3.7000E+05	1.4017E-06	7094	5	17	1203
4.3000E+05	1.2814E-06	5.7000E+05	9.7026E-07	6.5000E+05	8.0346E-07	7094	5	17	1204
7.3000E+05	6.5523E-07	8.1000E+05	5.2793E-07	8.6000E+05	4.5893E-07	7094	5	17	1205
9.1000E+05	3.9757E-07	9.6000E+05	3.4340E-07	1.0200E+06	2.8700E-07	7094	5	17	1206
1.0800E+06	2.3905E-07	1.1400E+06	1.9849E-07	1.2000E+06	1.6435E-07	7094	5	17	1207
1.2300E+06	1.4941E-07	1.2700E+06	1.3147E-07	1.2800E+06	6.1633E-08	7094	5	17	1208
1.2900E+06	0.					7094	5	17	1209
0.	2.0000E+07		0		1	527094	5	17	1210
52	2					7094	5	17	1211
1.0000E+04	0.	2.0000E+04	1.1926E-07	3.0000E+04	1.7447E-07	7094	5	17	1212
4.0000E+04	2.2689E-07	5.0000E+04	2.7661E-07	7.0000E+04	3.6836E-07	7094	5	17	1213
9.0000E+04	4.5050E-07	1.2000E+05	5.5730E-07	1.4000E+05	6.1846E-07	7094	5	17	1214
1.7000E+05	6.9673E-07	1.9000E+05	7.4070E-07	2.2000E+05	7.9569E-07	7094	5	17	1215
2.5000E+05	8.3886E-07	2.8000E+05	8.7163E-07	3.4000E+05	9.1099E-07	7094	5	17	1216
4.0000E+05	9.2246E-07	4.4000E+05	9.1813E-07	4.9000E+05	9.0233E-07	7094	5	17	1217
5.9000E+05	8.4616E-07	6.9000E+05	7.7070E-07	1.0100E+06	5.0690E-07	7094	5	17	1218
1.1200E+06	4.2696E-07	1.2300E+06	3.5613E-07	1.3300E+06	2.9992E-07	7094	5	17	1219
1.4300E+06	2.5114E-07	1.5400E+06	2.0544E-07	1.6500E+06	1.6719E-07	7094	5	17	1220
1.7200E+06	1.4630E-07	1.7900E+06	1.2781E-07	1.8600E+06	1.1149E-07	7094	5	17	1221
1.9300E+06	9.7113E-08	2.0100E+06	8.2803E-08	2.0900E+06	7.0493E-08	7094	5	17	1222
2.1700E+06	5.9923E-08	2.2600E+06	4.9833E-08	2.3400E+06	4.2246E-08	7094	5	17	1223
2.4300E+06	3.5030E-08	2.4800E+06	3.1551E-08	2.5300E+06	2.8404E-08	7094	5	17	1224
2.5800E+06	2.5562E-08	2.6300E+06	2.2996E-08	2.7000E+06	1.9818E-08	7094	5	17	1225
2.7700E+06	1.7068E-08	2.8400E+06	1.4690E-08	2.9200E+06	1.2366E-08	7094	5	17	1226
3.0000E+06	1.0402E-08	3.0800E+06	8.7429E-09	3.1700E+06	7.1856E-09	7094	5	17	1227
3.2200E+06	6.4413E-09	3.2700E+06	5.7726E-09	3.2800E+06	2.7623E-09	7094	5	17	1228
3.2900E+06	0.					7094	5	17	1229
4.1093E+04	9.2108E+01				1	7094	5	22	1231
0.		0	1	1	1	27094	5	22	1232
2	2					7094	5	22	1233
1.9610E+06	1.0000E+00	2.0000E+07	1.0000E+00			7094	5	22	1234
				1		87094	5	22	1235
8	2					7094	5	22	1236
0.	1.9670E+06		0	1		37094	5	22	1237
3	2					7094	5	22	1238
1.0000E+03	0.	2.0000E+03	1.0000E-03	3.0000E+03	0.	7094	5	22	1239
0.	3.0000E+06		0	1		267094	5	22	1240
26	2					7094	5	22	1241
1.0000E+04	0.	2.0000E+04	3.2103E-07	3.0000E+04	4.6267E-07	7094	5	22	1242
4.0000E+04	5.9270E-07	5.0000E+04	7.1182E-07	6.0000E+04	8.2069E-07	7094	5	22	1243
8.0000E+04	1.0101E-06	9.0000E+04	1.0918E-06	1.1000E+05	1.2319E-06	7094	5	22	1244
1.4000E+05	1.3905E-06	1.7000E+05	1.4975E-06	1.9000E+05	1.5450E-06	7094	5	22	1245
2.1000E+05	1.5764E-06	2.5000E+05	1.5992E-06	3.0000E+05	1.5712E-06	7094	5	22	1246
3.7000E+05	1.4646E-06	4.3000E+05	1.3389E-06	6.3000E+05	8.8140E-07	7094	5	22	1247
7.0000E+05	7.4017E-07	7.7000E+05	6.1534E-07	8.3000E+05	5.2177E-07	7094	5	22	1248
9.0000E+05	4.2760E-07	9.7000E+05	3.4831E-07	1.0400E+06	2.8224E-07	7094	5	22	1249
1.0500E+06	1.3278E-07	1.0600E+06	0.			7094	5	22	1250
0.	5.0000E+06		0		1	487094	5	22	1251
48	2					7094	5	22	1252
1.0000E+04	0.	2.0000E+04	1.0401E-07	3.0000E+04	1.5244E-07	7094	5	22	1253
4.0000E+04	1.9857E-07	6.0000E+04	2.8433E-07	8.0000E+04	3.6188E-07	7094	5	22	1254
1.1000E+05	4.6404E-07	1.3000E+05	5.2349E-07	1.5000E+05	5.7658E-07	7094	5	22	1255
1.7000E+05	6.2376E-07	2.0000E+05	6.8438E-07	2.5000E+05	7.6157E-07	7094	5	22	1256
2.3000E+05	7.9548E-07	3.1000E+05	8.2135E-07	3.7000E+05	8.5265E-07	7094	5	22	1257
4.3000E+05	8.6187E-07	4.8000E+05	8.5647E-07	5.3000E+05	8.4188E-07	7094	5	22	1258
6.4000E+05	7.8714E-07	7.4000E+05	7.2128E-07	1.0700E+06	4.8413E-07	7094	5	22	1259

1.1800E+06	4.1339E-07	1.2800E+06	3.5538E-07	1.3700E+06	3.0853E-07	7094	5	22	1260
1.4700E+06	2.6236E-07	1.5600E+06	2.2584E-07	1.6600E+06	1.9046E-07	7094	5	22	1261
1.7800E+06	1.5450E-07	1.8400E+06	1.3890E-07	1.9100E+06	1.2253E-07	7094	5	22	1262
1.9800E+06	1.0794E-07	2.0500E+06	9.4961E-08	2.1200E+06	8.3450E-08	7094	5	22	1263
2.1900E+06	7.3255E-08	2.2800E+06	6.1863E-08	2.3700E+06	5.2161E-08	7094	5	22	1264
2.4600E+06	4.3916E-08	2.5600E+06	3.6219E-08	2.6100E+06	3.2873E-08	7094	5	22	1265
2.6700E+06	2.9249E-08	2.7200E+06	2.6526E-08	2.7800E+06	2.3580E-08	7094	5	22	1266
2.8400E+06	2.0952E-08	2.9000E+06	1.8608E-08	2.9700E+06	1.6194E-08	7094	5	22	1267
3.0400E+06	1.4086E-08	3.0500E+06	6.7670E-09	3.0600E+06	0.	7094	5	22	1268
0.	8.0000E+06	0.	0.	0.	0.	7094	5	22	1269
62	2	1	627094	5	22	1270			
1.0000E+04	0.	2.0000E+04	5.2092E-08	3.0000E+04	7.6868E-08	7094	5	22	1271
5.0000E+04	1.2398E-07	6.0000E+04	1.4636E-07	8.0000E+04	1.8885E-07	7094	5	22	1272
1.1000E+05	2.4720E-07	1.4000E+05	2.9953E-07	1.7000E+05	3.4625E-07	7094	5	22	1273
2.1000E+05	4.0057E-07	2.4000E+05	4.3584E-07	2.8000E+05	4.7620E-07	7094	5	22	1274
3.5000E+05	5.3071E-07	4.3000E+05	5.7188E-07	5.2000E+05	5.9671E-07	7094	5	22	1275
6.1000E+05	6.0397E-07	7.4000E+05	5.9205E-07	9.0000E+05	5.5394E-07	7094	5	22	1276
1.0500E+06	5.0537E-07	1.3900E+06	3.8316E-07	1.5600E+06	3.2542E-07	7094	5	22	1277
1.7400E+06	2.7022E-07	1.9200E+06	2.2199E-07	2.1000E+06	1.8075E-07	7094	5	22	1278
2.1900E+06	1.6264E-07	2.2900E+06	1.4435E-07	2.3900E+06	1.2788E-07	7094	5	22	1279
2.4900E+06	1.1309E-07	2.5900E+06	9.9841E-08	2.7000E+06	8.6907E-08	7094	5	22	1280
2.8200E+06	7.4560E-08	2.9400E+06	6.3851E-08	3.0700E+06	5.3877E-08	7094	5	22	1281
3.2100E+06	4.4782E-08	3.3600E+06	3.6655E-08	3.5100E+06	2.9944E-08	7094	5	22	1282
3.5900E+06	2.6862E-08	3.6700E+06	2.4085E-08	3.7600E+06	2.1292E-08	7094	5	22	1283
3.8500E+06	1.8811E-08	3.9400E+06	1.6609E-08	4.0300E+06	1.4659E-08	7094	5	22	1284
4.1200E+06	1.2930E-08	4.2200E+06	1.1241E-08	4.3200E+06	9.7679E-09	7094	5	22	1285
4.4300E+06	8.3639E-09	4.5500E+06	7.0564E-09	4.6700E+06	5.9491E-09	7094	5	22	1286
4.7800E+06	5.0844E-09	4.9000E+06	4.2814E-09	5.0300E+06	3.5514E-09	7094	5	22	1287
5.1600E+06	2.9439E-09	5.2500E+06	2.5844E-09	5.3500E+06	2.2354E-09	7094	5	22	1288
5.4500E+06	1.9329E-09	5.5600E+06	1.6465E-09	5.6700E+06	1.4020E-09	7094	5	22	1289
5.7900E+06	1.1760E-09	5.9100E+06	9.8604E-10	6.0400E+06	8.1431E-10	7094	5	22	1290
6.0500E+06	3.9533E-10	6.0600E+06	0.	0.	0.	7094	5	22	1291
0.	1.0000E+07	0.	0.	0.	0.	7094	5	22	1292
65	2	1	657094	5	22	1293			
1.0000E+04	0.	2.0000E+04	3.8595E-08	3.0000E+04	5.7083E-08	7094	5	22	1294
5.0000E+04	9.2496E-08	7.0000E+04	1.2589E-07	9.0000E+04	1.5737E-07	7094	5	22	1295
1.2000E+05	2.0115E-07	1.6000E+05	2.5350E-07	2.0000E+05	2.9952E-07	7094	5	22	1296
2.4000E+05	3.3974E-07	2.8000E+05	3.7464E-07	3.2000E+05	4.0471E-07	7094	5	22	1297
3.6000E+05	4.3036E-07	4.1000E+05	4.5681E-07	5.0000E+05	4.9075E-07	7094	5	22	1298
6.1000E+05	5.1154E-07	7.1000E+05	5.1844E-07	8.6000E+05	5.0838E-07	7094	5	22	1299
1.0400E+06	4.7711E-07	1.2100E+06	4.3690E-07	1.6200E+06	3.2834E-07	7094	5	22	1300
1.8300E+06	2.7594E-07	2.0600E+06	2.2467E-07	2.2800E+06	1.8240E-07	7094	5	22	1301
2.3900E+06	1.6376E-07	2.5100E+06	1.4524E-07	2.6300E+06	1.2852E-07	7094	5	22	1302
2.7500E+06	1.1349E-07	2.8800E+06	9.8965E-08	3.0100E+06	8.6126E-08	7094	5	22	1303
3.1400E+06	7.4813E-08	3.2800E+06	6.4164E-08	3.4300E+06	5.4319E-08	7094	5	22	1304
3.5900E+06	4.5383E-08	3.7600E+06	3.7411E-08	3.8500E+06	3.3746E-08	7094	5	22	1305
3.9400E+06	3.0423E-08	4.0300E+06	2.7413E-08	4.1300E+06	2.4403E-08	7094	5	22	1306
4.2300E+06	2.1710E-08	4.3300E+06	1.9303E-08	4.4400E+06	1.6953E-08	7094	5	22	1307
4.5500E+06	1.4879E-08	4.6700E+06	1.2898E-08	4.7900E+06	1.1172E-08	7094	5	22	1308
4.9100E+06	9.6707E-09	5.0300E+06	8.3664E-09	5.1600E+06	7.1467E-09	7094	5	22	1309
5.3000E+06	6.0269E-09	5.4500E+06	5.0172E-09	5.6000E+06	4.1735E-09	7094	5	22	1310
5.7600E+06	3.4266E-09	5.8500E+06	3.0658E-09	5.9400E+06	2.7424E-09	7094	5	22	1311
6.0200E+06	2.4832E-09	6.1100E+06	2.2203E-09	6.2000E+06	1.9847E-09	7094	5	22	1312
6.3000E+06	1.7518E-09	6.4000E+06	1.5458E-09	6.5100E+06	1.3467E-09	7094	5	22	1313
6.6200E+06	1.1729E-09	6.7300E+06	1.0212E-09	6.7400E+06	1.0084E-09	7094	5	22	1314
8.0500E+06	5.0423E-10	8.0600E+06	0.	0.	0.	7094	5	22	1315
66	2	1	667094	5	22	1316			
1.0000E+04	0.	2.0000E+04	2.4155E-08	4.0000E+04	4.7249E-08	7094	5	22	1317
6.0000E+04	6.9315E-08	8.0000E+04	9.0389E-08	1.1000E+05	1.2021E-07	7094	5	22	1318

1.5000E+05	1.5680E-07	2.0000E+05	1.9777E-07	2.5000E+05	2.3385E-077094	5	22	1320	
3.0000E+05	2.6545E-07	3.5000E+05	2.9296E-07	4.0000E+05	3.1671E-077094	5	22	1321	
4.5000E+05	3.3705E-07	5.1000E+05	3.5735E-07	6.3000E+05	3.8634E-077094	5	22	1322	
7.6000E+05	4.0337E-07	9.0000E+05	4.0896E-07	1.0900E+06	4.0094E-077094	5	22	1323	
1.3200E+06	3.7605E-07	1.5300E+06	3.4516E-07	2.0700E+06	2.5628E-077094	5	22	1324	
2.3400E+06	2.1462E-07	2.6400E+06	1.7351E-07	2.9300E+06	1.3952E-077094	5	22	1325	
3.0800E+06	1.2415E-07	3.2400E+06	1.0932E-07	3.4000E+06	9.6038E-087094	5	22	1326	
3.5600E+06	8.4179E-08	3.7300E+06	7.3018E-08	3.9000E+06	6.3205E-087094	5	22	1327	
4.0800E+06	5.4136E-08	4.2700E+06	4.5874E-08	4.4700E+06	3.8454E-087094	5	22	1328	
4.6900E+06	3.1597E-08	4.9100E+06	2.5905E-08	5.0300E+06	2.3226E-087094	5	22	1329	
5.1500E+06	2.0811E-08	5.2800E+06	1.8468E-08	5.4100E+06	1.6377E-087094	5	22	1330	
5.5400E+06	1.4515E-08	5.6800E+06	1.2738E-08	5.8300E+06	1.1067E-087094	5	22	1331	
5.9800E+06	9.6092E-09	6.1400E+06	8.2594E-09	6.3000E+06	7.0944E-097094	5	22	1332	
6.4600E+06	6.0896E-09	6.6300E+06	5.1742E-09	6.8100E+06	4.3513E-097094	5	22	1333	
7.0000E+06	3.6214E-09	7.2000E+06	2.9827E-09	7.3000E+06	2.7061E-097094	5	22	1334	
7.4100E+06	2.4308E-09	7.5200E+06	2.1831E-09	7.6400E+06	1.9411E-097094	5	22	1335	
7.7600E+06	1.7255E-09	7.8900E+06	1.5184E-09	7.9900E+06	1.3760E-097094	5	22	1336	
8.1100E+06	1.2345E-09	8.2100E+06	1.1072E-09	8.3200E+06	9.9298E-107094	5	22	1337	
8.4400E+06	8.8157E-10	8.5600E+06	7.8249E-10	8.6900E+06	6.8754E-107094	5	22	1338	
8.8300E+06	5.9797E-10	1.1050E+07	2.9898E-10	1.1060E+07	0.	7094	5	22	1339
0.	1.6000E+07	0		1	687094	5	22	1340	
68	2				7094	5	22	1341	
1.0000E+04	0.	2.0000E+04	2.2157E-08	4.0000E+04	4.3382E-087094	5	22	1342	
6.0000E+04	6.3702E-08	8.0000E+04	8.3148E-08	1.1000E+05	1.1074E-077094	5	22	1343	
1.6000E+05	1.5273E-07	2.1000E+05	1.9007E-07	2.6000E+05	2.2314E-077094	5	22	1344	
3.1000E+05	2.5227E-07	3.6000E+05	2.7778E-07	4.2000E+05	3.0404E-077094	5	22	1345	
4.8000E+05	3.2599E-07	5.4000E+05	3.4406E-07	6.6000E+05	3.7012E-077094	5	22	1346	
7.9000E+05	3.8580E-07	9.4000E+05	3.9134E-07	1.1400E+06	3.8365E-077094	5	22	1347	
1.3700E+06	3.6098E-07	1.6000E+06	3.3009E-07	2.1700E+06	2.4413E-077094	5	22	1348	
2.4700E+06	2.0195E-07	2.8100E+06	1.6002E-07	2.9700E+06	1.4265E-077094	5	22	1349	
3.1400E+06	1.2587E-07	3.3200E+06	1.0990E-07	3.5000E+06	9.5663E-087094	5	22	1350	
5.6900E+06	8.2398E-08	3.8800E+06	7.0785E-08	4.0800E+06	6.0168E-087094	5	22	1351	
4.2900E+06	5.0599E-08	4.5000E+06	4.2449E-08	4.7300E+06	3.4934E-087094	5	22	1352	
4.9600E+06	2.8682E-08	5.0800E+06	2.5856E-08	5.2100E+06	2.3092E-087094	5	22	1353	
5.3400E+06	2.0611E-08	5.4700E+06	1.8386E-08	5.6100E+06	1.6247E-087094	5	22	1354	
5.7500E+06	1.4348E-08	5.9000E+06	1.2551E-08	6.0500E+06	1.0973E-087094	5	22	1355	
6.2100E+06	9.4996E-09	6.3800E+06	8.1449E-09	6.5600E+06	6.9153E-097094	5	22	1356	
6.7400E+06	5.8668E-09	6.9300E+06	4.9283E-09	7.1400E+06	4.0610E-097094	5	22	1357	
7.3300E+06	3.4062E-09	7.5400E+06	2.8022E-09	7.6500E+06	2.5291E-097094	5	22	1358	
7.7600E+06	2.2822E-09	7.8800E+06	2.0397E-09	8.0000E+06	1.8226E-097094	5	22	1359	
8.1200E+06	1.6282E-09	8.2500E+06	1.4406E-09	8.3900E+06	1.2623E-097094	5	22	1360	
8.5300E+06	1.1059E-09	8.6800E+06	9.5930E-10	8.8300E+06	8.3194E-107094	5	22	1361	
8.9900E+06	7.1445E-10	9.1500E+06	6.1335E-10	9.3100E+06	5.2640E-107094	5	22	1362	
9.4800E+06	4.4733E-10	9.6500E+06	3.8002E-10	9.8400E+06	3.1659E-107094	5	22	1363	
1.4050E+07	1.5829E-10	1.4060E+07	0.		7094	5	22	1364	
0.	2.0000E+07	0		1	727094	5	22	1365	
72	2				7094	5	22	1366	
1.0000E+04	0.	2.0000E+04	1.7464E-08	4.0000E+04	3.4276E-087094	5	22	1367	
7.0000E+04	5.8309E-08	9.0000E+04	7.3563E-08	1.2000E+05	9.5352E-087094	5	22	1368	
1.7000E+05	1.2886E-07	2.3000E+05	1.6474E-07	2.9000E+05	1.9629E-077094	5	22	1369	
3.5000E+05	2.2386E-07	4.1000E+05	2.4781E-07	4.7000E+05	2.6845E-077094	5	22	1370	
5.3000E+05	2.8605E-07	6.0000E+05	3.0314E-07	7.4000E+05	3.2762E-077094	5	22	1371	
8.9000E+05	3.4203E-07	1.0600E+06	3.4700E-07	1.2800E+06	3.4048E-077094	5	22	1372	
1.5400E+06	3.2054E-07	1.7900E+06	2.9430E-07	2.4600E+06	2.1496E-077094	5	22	1373	
2.3100E+06	1.7649E-07	3.2000E+06	1.3912E-07	3.3900E+06	1.2320E-077094	5	22	1374	
3.5900E+06	1.0803E-07	3.8000E+06	9.3799E-08	4.0200E+06	8.0631E-087094	5	22	1375	
4.2500E+06	6.3617E-08	4.4800E+06	5.8221E-08	4.7200E+06	4.8913E-087094	5	22	1376	
4.9800E+06	4.0381E-08	5.2500E+06	3.2999E-08	5.3900E+06	2.9686E-087094	5	22	1377	
5.5300E+06	2.6690E-08	5.6600E+06	2.4164E-08	5.8000E+06	2.1697E-087094	5	22	1378	
5.9400E+06	1.9472E-08	6.0900E+06	1.7329E-08	6.2400E+06	1.5413E-087094	5	22	1379	

6.4000E+06	1.3594E-08	6.5700E+06	1.1887E-08	6.7400E+06	1.0387E-08	7094	5	22	1380
6.9200E+06	8.9995E-09	7.1100E+06	7.7292E-09	7.3100E+06	6.5802E-09	7094	5	22	1381
7.5100E+06	5.5979E-09	7.7300E+06	4.6819E-09	7.9600E+06	3.8809E-09	7094	5	22	1382
8.2000E+06	3.1878E-09	8.3300E+06	2.8646E-09	8.4600E+06	2.5735E-09	7094	5	22	1383
8.7000E+06	2.1103E-09	8.8200E+06	1.9104E-09	8.9500E+06	1.7148E-09	7094	5	22	1384
9.0800E+06	1.5389E-09	9.2200E+06	1.3693E-09	9.3600E+06	1.2181E-09	7094	5	22	1385
9.5100E+06	1.0743E-09	9.6600E+06	9.4728E-10	9.8200E+06	8.2805E-10	7094	5	22	1386
9.9900E+06	7.1756E-10	1.0160E+07	6.2164E-10	1.0350E+07	5.2934E-10	7094	5	22	1387
1.0540E+07	4.5061E-10	1.0740E+07	3.8021E-10	1.0960E+07	3.1527E-10	7094	5	22	1388
1.1080E+07	2.8461E-10	1.1210E+07	2.5472E-10	1.1340E+07	2.2793E-10	7094	5	22	1389
1.1480E+07	2.0220E-10	1.8050E+07	1.0109E-10	1.8060E+07	0.	7094	5	22	1390
4.1093E+04	9.2108E+01					7094	5	0	1391
0.				1		7094	5	91	1392
2	2	0	1	1		27094	5	91	1393
2.5500E+06	1.0000E+00	2.0000E+07	1.0000E+00			7094	5	91	1394
						7094	5	91	1395
0.	14	2			1	147094	5	91	1396
0.	2.5500E+06		0		1	7094	5	91	1397
40	2				1	407094	5	91	1398
1.0000E+04	0.	2.0000E+04	1.2064E-07	3.0000E+04	1.7650E-07	7094	5	91	1399
4.0000E+04	2.2952E-07	5.0000E+04	2.7982E-07	7.0000E+04	3.7263E-07	7094	5	91	1400
9.0000E+04	4.5574E-07	1.2000E+05	5.6374E-07	1.4000E+05	6.2562E-07	7094	5	91	1401
1.7000E+05	7.0479E-07	1.9000E+05	7.4929E-07	2.2000E+05	8.0491E-07	7094	5	91	1402
2.5000E+05	8.4858E-07	2.8000E+05	8.8174E-07	3.4000E+05	9.2155E-07	7094	5	91	1403
4.0000E+05	9.3315E-07	4.8000E+05	9.1680E-07	5.7000E+05	8.6934E-07	7094	5	91	1404
6.7000E+05	7.9583E-07	9.5000E+05	5.6036E-07	1.1000E+06	4.4594E-07	7094	5	91	1405
1.1900E+06	3.8522E-07	1.2800E+06	3.3087E-07	1.3700E+06	2.8278E-07	7094	5	91	1406
1.4600E+06	2.4064E-07	1.5500E+06	2.0400E-07	1.6500E+06	1.6912E-07	7094	5	91	1407
1.7500E+06	1.3969E-07	1.8500E+06	1.1501E-07	1.9200E+06	1.0020E-07	7094	5	91	1408
1.9900E+06	8.7182E-08	2.0700E+06	7.4248E-08	2.1500E+06	6.3138E-08	7094	5	91	1409
2.2300E+06	5.3617E-08	2.3200E+06	4.4542E-08	2.4100E+06	3.6947E-08	7094	5	91	1410
2.4600E+06	3.3282E-08	2.5100E+06	2.9969E-08	2.5200E+06	1.4367E-08	7094	5	91	1411
2.5300E+06	0.					7094	5	91	1412
0.	3.0000E+06		0		1	467094	5	91	1413
46	2					7094	5	91	1414
1.0000E+04	0.	2.0000E+04	1.0414E-07	3.0000E+04	1.5263E-07	7094	5	91	1415
4.0000E+04	1.9883E-07	5.0000E+04	2.4282E-07	7.0000E+04	3.2450E-07	7094	5	91	1416
9.0000E+04	3.9326E-07	1.2000E+05	4.9523E-07	1.5000E+05	5.7731E-07	7094	5	91	1417
1.8000E+05	6.4609E-07	2.0000E+05	6.8525E-07	2.3000E+05	7.3493E-07	7094	5	91	1418
2.5000E+05	7.7481E-07	2.9000E+05	8.0597E-07	3.2000E+05	8.2941E-07	7094	5	91	1419
3.6000E+05	8.5020E-07	4.3000E+05	8.6296E-07	5.1000E+05	8.4975E-07	7094	5	91	1420
6.1000E+05	8.0548E-07	7.3000E+05	7.2920E-07	1.0500E+06	4.9833E-07	7094	5	91	1421
1.2100E+06	3.9584E-07	1.3100E+06	3.3963E-07	1.4200E+06	2.8505E-07	7094	5	91	1422
1.5300E+06	2.3781E-07	1.6400E+06	1.9737E-07	1.7600E+06	1.6023E-07	7094	5	91	1423
1.8200E+06	1.4412E-07	1.8800E+06	1.2948E-07	1.9400E+06	1.1621E-07	7094	5	91	1424
2.0100E+06	1.0231E-07	2.0800E+06	8.9972E-08	2.1500E+06	7.9028E-08	7094	5	91	1425
2.2300E+06	6.8053E-08	2.3200E+06	5.7429E-08	2.4100E+06	4.8391E-08	7094	5	91	1426
2.5100E+06	3.9941E-08	2.6100E+06	3.2915E-08	2.6600E+06	2.9863E-08	7094	5	91	1427
2.7200E+06	2.6560E-08	2.7800E+06	2.3610E-08	2.8400E+06	2.0979E-08	7094	5	91	1428
2.9000E+06	1.8632E-08	2.9600E+06	1.6541E-08	2.9700E+06	7.9476E-09	7094	5	91	1429
2.9800E+06	0.					7094	5	91	1430
0.	4.0000E+06		0		1	497094	5	91	1431
49	2					7094	5	91	1432
1.0000E+04	0.	2.0000E+04	7.7144E-08	3.0000E+04	1.1342E-08	7094	5	91	1433
5.0000E+04	1.8163E-07	7.0000E+04	2.4431E-07	9.0000E+04	3.0180E-07	7094	5	91	1434
1.2000E+05	3.7896E-07	1.5000E+05	4.4611E-07	1.8000E+05	5.0416E-07	7094	5	91	1435
2.1000E+05	5.5393E-07	2.4000E+05	5.9620E-07	2.7000E+05	6.3167E-07	7094	5	91	1436
3.0000E+05	6.6098E-07	3.4000E+05	6.9152E-07	3.8000E+05	7.1345E-07	7094	5	91	1437
4.2000E+05	7.2792E-07	5.0000E+05	7.3845E-07	6.1000E+05	7.2299E-07	7094	5	91	1438

7.4000E+05	6.7627E-07	8.6000E+05	6.1824E-07	1.2500E+06	4.1193E-077094	5	91	1440
1.3900E+06	3.4620E-07	1.5200E+06	2.9190E-07	1.6400E+06	2.4774E-077094	5	91	1441
1.7700E+06	2.0616E-07	1.9000E+06	1.7064E-07	2.0300E+06	1.4057E-077094	5	91	1442
2.1100E+06	1.2451E-07	2.1900E+06	1.1012E-07	2.2800E+06	9.5763E-087094	5	91	1443
2.3700E+06	8.3145E-08	2.4600E+06	7.2086E-08	2.5600E+06	6.1418E-087094	5	91	1444
2.6600E+06	5.2249E-08	2.7700E+06	4.3665E-08	2.8700E+06	3.7040E-087094	5	91	1445
2.9700E+06	3.1382E-08	3.0800E+06	2.6118E-08	3.2000E+06	2.1346E-087094	5	91	1446
3.2800E+06	1.8645E-08	3.3600E+06	1.6275E-08	3.4500E+06	1.3958E-087094	5	91	1447
3.5400E+06	1.1963E-08	3.6400E+06	1.0072E-08	3.7400E+06	8.4722E-097094	5	91	1448
3.8500E+06	6.9990E-09	3.9600E+06	5.7773E-09	3.9700E+06	2.7894E-097094	5	91	1449
3.9800E+06	0.							
0.	5.0000E+06		0			1	467094	5 91 1450
46	2						7094	5 91 1451
1.0000E+04	0.	2.0000E+04	6.1455E-08	3.0000E+04	9.0551E-087094	5	91	1452
4.0000E+04	1.1d60E-07	6.0000E+04	1.7165E-07	8.0000E+04	2.2085E-077094	5	91	1453
1.0000E+05	2.6637E-07	1.3000E+05	3.2822E-07	1.7000E+05	3.9962E-077094	5	91	1454
2.0000E+05	4.4562E-07	2.4000E+05	4.9788E-07	2.7000E+05	5.3090E-077094	5	91	1455
3.1000E+05	5.6753E-07	3.5000E+05	5.9659E-07	3.9000E+05	6.1894E-077094	5	91	1456
4.7000E+05	6.4660E-07	5.6000E+05	6.5605E-07	6.8000E+05	6.4297E-077094	5	91	1457
8.3000E+05	6.0039E-07	9.6000E+05	5.5056E-07	1.2700E+06	4.1872E-077094	5	91	1458
1.4200E+06	3.5816E-07	1.5800E+06	2.9948E-07	1.7400E+06	2.4784E-077094	5	91	1459
1.8900E+06	2.0595E-07	2.0500E+06	1.6787E-07	2.2100E+06	1.3600E-077094	5	91	1460
2.2900E+06	1.2216E-07	2.3800E+06	1.0811E-07	2.4800E+06	9.4229E-087094	5	91	1461
2.5900E+06	8.0859E-08	2.7000E+06	6.9260E-08	2.8100E+06	5.9227E-087094	5	91	1462
2.9300E+06	4.9845E-08	3.0500E+06	4.1877E-08	3.1800E+06	3.4617E-087094	5	91	1463
3.2500E+06	3.1223E-08	3.3200E+06	2.8147E-08	3.4500E+06	2.3190E-087094	5	91	1464
3.5800E+06	1.9078E-08	3.6500E+06	1.7166E-08	3.7200E+06	1.5439E-087094	5	91	1465
3.8000E+06	1.3672E-08	3.8800E+06	1.2101E-08	4.9700E+06	6.0506E-097094	5	91	1466
4.9800E+06	0.						7094	5 91 1467
0.	6.0000E+06		0			1	477094	5 91 1468
47	2						7094	5 91 1469
1.0000E+04	0.	2.0000E+04	5.1853E-08	3.0000E+04	7.6515E-087094	5	91	1470
5.0000E+04	1.2341E-07	7.0000E+04	1.6721E-07	9.0000E+04	2.0804E-077094	5	91	1471
1.1000E+05	2.4607E-07	1.4000E+05	2.9816E-07	1.8000E+05	3.5901E-077094	5	91	1472
2.2000E+05	4.1093E-07	2.6000E+05	4.5483E-07	3.0000E+05	4.9149E-077094	5	91	1473
3.4000E+05	5.2167E-07	4.2000E+05	5.6521E-07	5.1000E+05	5.9218E-077094	5	91	1474
6.1000E+05	6.0120E-07	7.4000E+05	5.8934E-07	9.0000E+05	5.5140E-077094	5	91	1475
1.0500E+06	5.0306E-07	1.3900E+06	3.8139E-07	1.5600E+06	3.2393E-077094	5	91	1476
1.7400E+06	2.6898E-07	1.9200E+06	2.2096E-07	2.1000E+06	1.7993E-077094	5	91	1477
2.2800E+06	1.4543E-07	2.3700E+06	1.3043E-07	2.4700E+06	1.1538E-077094	5	91	1478
2.5700E+06	1.0190E-07	2.6800E+06	8.8730E-08	2.8000E+06	7.6148E-087094	5	91	1479
2.9200E+06	6.5230E-08	3.0500E+06	5.5057E-08	3.1900E+06	4.5775E-087094	5	91	1480
3.3400E+06	3.7479E-08	3.4900E+06	3.0629E-08	3.5700E+06	2.7476E-087094	5	91	1481
3.6500E+06	2.4639E-08	3.7300E+06	2.2084E-08	3.8200E+06	1.9515E-087094	5	91	1482
3.9600E+06	1.6082E-08	4.1000E+06	1.3236E-08	4.1700E+06	1.2002E-087094	5	91	1483
4.2500E+06	1.0729E-08	4.3300E+06	9.5872E-09	4.4200E+06	8.4440E-097094	5	91	1484
5.9700E+06	4.2220E-09	5.9800E+06	0.				7094	5 91 1485
0.	7.0000E+06		0			1	467094	5 91 1486
46	2						7094	5 91 1487
1.0000E+04	0.	2.0000E+04	3.8205E-08	4.0000E+04	7.4288E-087094	5	91	1488
6.0000E+04	1.0833E-07	8.0000E+04	1.4044E-07	1.0000E+05	1.7067E-077094	5	91	1489
1.3000E+05	2.1269E-07	1.7000E+05	2.6289E-07	2.1000E+05	3.0696E-077094	5	91	1490
2.5000E+05	3.4542E-07	3.0000E+05	3.8631E-07	3.4000E+05	4.1384E-077094	5	91	1491
3.9000E+05	4.4242E-07	4.4000E+05	4.6520E-07	4.9000E+05	4.8284E-077094	5	91	1492
5.9000E+05	5.0499E-07	7.1000E+05	5.1321E-07	8.6000E+05	5.0324E-077094	5	91	1493
1.0500E+06	4.7017E-07	1.2200E+06	4.2997E-07	1.6100E+06	3.2760E-077094	5	91	1494
1.3100E+06	2.7788E-07	2.0300E+06	2.2861E-07	2.2400E+06	1.8767E-077094	5	91	1495
2.4500E+06	1.5271E-07	2.5600E+06	1.3666E-07	2.6700E+06	1.2208E-077094	5	91	1496
2.7800E+06	1.0887E-07	2.8900E+06	9.6931E-08	3.0100E+06	8.5257E-087094	5	91	1497
3.1300E+06	7.4869E-08	3.2700E+06	6.4220E-08	3.4100E+06	5.4985E-087094	5	91	1499

3.5600E+06	4.6471E-08	3.7200E+06	3.8762E-08	3.8900E+06	3.1903E-087094	5	91	150	
3.9800E+06	2.8755E-08	4.0700E+06	2.5904E-08	4.1600E+06	2.3325E-087094	5	91	150	
4.2600E+06	2.0748E-08	4.3600E+06	1.8445E-08	4.4600E+06	1.6390E-087094	5	91	150	
4.5900E+06	1.4045E-08	4.7300E+06	1.1883E-08	6.9700E+06	5.9415E-097094	5	91	150	
6.9800E+06	0.								
U.	9.0000E+06	0		1	7094	5	91	150	
41	2				417094	5	91	150	
1.0000E+04	0.	2.0000E+04	3.3392E-08	4.0000E+04	6.5027E-087094	5	91	150	
6.0000E+04	9.4974E-08	9.0000E+04	1.3688E-07	1.1000E+05	1.6289E-077094	5	91	150	
1.4000E+05	1.9919E-07	1.8000E+05	2.4279E-07	2.3000E+05	2.9022E-077094	5	91	150	
2.7000E+05	3.2301E-07	3.2000E+05	3.5813E-07	3.7000E+05	3.8738E-077094	5	91	150	
4.2000E+05	4.1138E-07	5.2000E+05	4.4574E-07	6.3000E+05	4.6637E-077094	5	91	151	
7.5000E+05	4.7311E-07	9.1000E+05	4.6376E-07	1.1000E+06	4.3513E-077094	5	91	151	
1.2800E+06	3.9830E-07	1.7200E+06	2.9768E-07	1.9400E+06	2.5039E-077094	5	91	151	
2.1900E+06	2.0254E-07	2.4300E+06	1.6319E-07	2.5500E+06	1.4592E-077094	5	91	151	
2.6800E+06	1.2896E-07	2.8100E+06	1.1370E-07	2.9500E+06	9.9040E-087094	5	91	151	
3.0900E+06	8.6072E-08	3.2300E+06	7.4651E-08	3.3800E+06	6.3958E-087094	5	91	151	
3.5300E+06	5.4688E-08	3.6500E+06	4.8186E-08	3.7800E+06	4.1961E-087094	5	91	151	
3.9200E+06	3.6105E-08	4.0600E+06	3.1028E-08	4.2100E+06	2.6341E-087094	5	91	151	
4.3600E+06	2.2335E-08	4.5200E+06	1.8707E-08	4.6900E+06	1.5473E-087094	5	91	151	
8.9700E+06	7.7366E-09	8.9800E+06	0.		7094	5	91	151	
0.	1.1000E+07	0		1	337094	5	91	152	
33	2				7094	5	91	152	
1.0000E+04	0.	2.0000E+04	2.2377E-08	3.0000E+04	3.3164E-087094	5	91	152	
5.0000E+04	5.3957E-08	7.0000E+04	7.3741E-08	1.0000E+05	1.0161E-077094	5	91	152	
1.3000E+05	1.2740E-07	1.6000E+05	1.5123E-07	2.1000E+05	1.8689E-077094	5	91	152	
2.6000E+05	2.1786E-07	3.1000E+05	2.4457E-07	3.6000E+05	2.6741E-077094	5	91	152	
4.1000E+05	2.8674E-07	4.7000E+05	3.0578E-07	5.8000E+05	3.3051E-077094	5	91	152	
7.0000E+05	3.4520E-07	8.3000E+05	3.4996E-07	1.0100E+06	3.4283E-077094	5	91	152	
1.2200E+06	3.2154E-07	1.4200E+06	2.9412E-07	1.8900E+06	2.2221E-077094	5	91	152	
2.1300E+06	1.3754E-07	2.3900E+06	1.5385E-07	2.6400E+06	1.2574E-077094	5	91	153	
2.9000E+06	1.0098E-07	3.0300E+06	9.0207E-08	3.1600E+06	8.0440E-087094	5	91	153	
3.3000E+06	7.0965E-08	3.4400E+06	6.2493E-08	3.5800E+06	5.4941E-087094	5	91	153	
3.7300E+06	4.7779E-08	1.0970E+07	2.3890E-08	1.0980E+07	0.	7094	5	91	153
0.	1.2000E+07	0		1	297094	5	91	153	
29	2				7094	5	91	153	
1.0000E+04	0.	2.0000E+04	1.5079E-08	3.0000E+04	2.2361E-087094	5	91	153	
5.0000E+04	3.6420E-08	7.0000E+04	4.9829E-08	1.0000E+05	6.8770E-087094	5	91	153	
1.3000E+05	8.5375E-08	1.6000E+05	1.0270E-07	2.1000E+05	1.2727E-077094	5	91	153	
2.6000E+05	1.4877E-07	3.1000E+05	1.6747E-07	3.7000E+05	1.8657E-077094	5	91	153	
4.2000E+05	1.9995E-07	4.8000E+05	2.1329E-07	5.4000E+05	2.2396E-077094	5	91	154	
6.0000E+05	2.3226E-07	7.3000E+05	2.4336E-07	8.7000E+05	2.4692E-077094	5	91	154	
1.0500E+06	2.4231E-07	1.2600E+06	2.2842E-07	1.4700E+06	2.0933E-077094	5	91	154	
2.0200E+06	1.5287E-07	2.3200E+06	1.2437E-07	2.4900E+06	1.0979E-077094	5	91	154	
2.6500E+06	9.7213E-08	2.8200E+06	8.5085E-08	2.9900E+06	7.4206E-087094	5	91	154	
1.1970E+07	3.7102E-08	1.1980E+07	0.		7094	5	91	154	
0.	1.3000E+07	0		1	247094	5	91	154	
24	2				7094	5	91	154	
1.0000E+04	0.	2.0000E+04	9.9320E-09	4.0000E+04	1.9427E-087094	5	91	154	
6.0000E+04	2.8500E-08	8.0000E+04	3.7166E-08	1.1000E+05	4.9428E-087094	5	91	154	
1.4000E+05	6.0845E-08	1.7000E+05	7.1460E-08	2.2000E+05	8.7483E-087094	5	91	154	
2.8000E+05	1.0416E-07	3.3000E+05	1.1612E-07	3.9000E+05	1.2839E-077094	5	91	155	
4.4000E+05	1.3702E-07	5.0000E+05	1.4566E-07	6.2000E+05	1.5808E-077094	5	91	155	
7.2000E+05	1.6550E-07	9.0000E+05	1.6811E-07	1.1000E+06	1.6453E-077094	5	91	155	
1.3300E+06	1.5407E-07	1.5400E+06	1.4127E-07	2.0700E+06	1.0538E-077094	5	91	155	
2.3500E+06	8.7648E-08	1.2970E+07	4.3822E-08	1.2980E+07	0.	7094	5	91	155
0.	1.4000E+07	0		1	257094	5	91	155	
25	2				7094	5	91	155	
1.0000E+04	0.	2.0000E+04	9.0169E-09	4.0000E+04	1.7654E-087094	5	91	155	
6.0000E+04	2.5924E-08	9.0000E+04	3.7665E-08	1.2000E+05	4.8641E-087094	5	91	155	

1.5000E+05	5.8892E-08	1.8000E+05	6.8450E-08	2.3000E+05	8.2933E-087094	5	91	1560		
2.9000E+05	9.8104E-08	3.4000E+05	1.0906E-07	4.0000E+05	1.2037E-077094	5	91	1561		
4.6000E+05	1.2987E-07	5.2000E+05	1.3773E-07	5.8000E+05	1.4412E-077094	5	91	1562		
6.5000E+05	1.4993E-07	7.9000E+05	1.5700E-07	9.4000E+05	1.5926E-077094	5	91	1563		
1.1400E+06	1.5613E-07	1.3900E+06	1.4591E-07	1.6000E+06	1.3433E-077094	5	91	1564		
2.1800E+06	9.8751E-08	2.4900E+06	8.1106E-08	1.3970E+07	4.0553E-087094	5	91	1565		
1.3980E+07	0.					7094	5	91	1566	
0.	1.5000E+07		0			1	247094	5	91	1567
24	2						7094	5	91	1568
1.0000E+04	0.		2.0000E+04	8.3517E-09	4.0000E+04	1.6362E-087094	5	91	1569	
7.0000E+04	2.7762E-08	1.0000E+05	3.8452E-08	1.3000E+05	4.8467E-087094	5	91	1570		
1.6000E+05	5.7832E-08	1.9000E+05	6.6584E-08	2.4000E+05	7.9884E-087094	5	91	1571		
3.0000E+05	9.3861E-08	3.6000E+05	1.0588E-07	4.2000E+05	1.1612E-077094	5	91	1572		
4.8000E+05	1.2474E-07	5.4000E+05	1.3192E-07	6.7000E+05	1.4315E-077094	5	91	1573		
8.1000E+05	1.4980E-07	9.7000E+05	1.5211E-07	1.1800E+06	1.4902E-077094	5	91	1574		
1.4400E+06	1.3910E-07	1.6800E+06	1.2671E-07	2.3100E+06	9.1002E-087094	5	91	1575		
2.6100E+06	7.5468E-08	1.4970E+07	3.7734E-08	1.4980E+07	0.	7094	5	91	1576	
0.	1.7500E+07		0			1	267094	5	91	1577
26	2						7094	5	91	1578
1.0000E+04	0.		2.0000E+04	7.2229E-09	4.0000E+04	1.4168E-087094	5	91	1579	
7.0000E+04	2.4083E-08	1.0000E+05	3.3416E-08	1.3000E+05	4.2195E-087094	5	91	1580		
1.6000E+05	5.0442E-08	2.0000E+05	6.0650E-08	2.6000E+05	7.4381E-087094	5	91	1581		
3.2000E+05	8.6367E-08	3.8000E+05	9.6758E-08	4.4000E+05	1.0569E-077094	5	91	1582		
5.0000E+05	1.1331E-07	5.7000E+05	1.2069E-07	6.4000E+05	1.2660E-077094	5	91	1583		
7.1000E+05	1.3122E-07	8.6000E+05	1.3741E-07	1.0300E+06	1.3953E-077094	5	91	1584		
1.1400E+06	1.3879E-07	1.2600E+06	1.3653E-07	1.5300E+06	1.2755E-077094	5	91	1585		
1.7900E+06	1.1594E-07	2.5000E+06	8.1273E-08	2.9000E+06	6.3935E-087094	5	91	1586		
1.7470E+07	3.1968E-08	1.7480E+07	0.			7094	5	91	1587	
0.	2.0000E+07		0			1	287094	5	91	1588
28	2						7094	5	91	1589
1.0000E+04	0.		2.0000E+04	6.1309E-09	3.0000E+04	9.1134E-097094	5	91	1590	
5.0000E+04	1.4918E-08	8.0000E+04	2.3233E-08	1.1000E+05	3.1093E-087094	5	91	1591		
1.5000E+05	4.0897E-08	1.8000E+05	4.7769E-08	2.2000E+05	5.6317E-087094	5	91	1592		
2.8000E+05	6.7907E-08	3.5000E+05	7.9694E-08	4.1000E+05	8.8446E-087094	5	91	1593		
4.8000E+05	9.7218E-08	5.5000E+05	1.0459E-07	6.2000E+05	1.1069E-077094	5	91	1594		
6.9000E+05	1.1566E-07	7.7000E+05	1.2009E-07	9.3000E+05	1.2558E-077094	5	91	1595		
1.1100E+06	1.2745E-07	1.2300E+06	1.2675E-07	1.3600E+06	1.2466E-077094	5	91	1596		
1.6500E+06	1.1647E-07	1.9200E+06	1.0627E-07	2.7200E+06	7.3226E-087094	5	91	1597		
2.9700E+06	6.3831E-08	3.2100E+06	5.5575E-08	1.9970E+07	2.7787E-087094	5	91	1598		
1.9980E+07	0.					7094	5	91	1599	
						7094	5	0	1600	
4.1093E+04	9.2108E+01		1			1	7094	0	0	1601
0.	0.					1	709412102	1602		
3	2					1	3709412102	1603		
1.0000E+05	2.8500E+00	9.9000E+04	2.8500E+00	1.0000E+05	0.		709412102	1604		
							709412102	1605		
							709412	0	1606	
4.1093E+04	9.2108E+01					1	7094	0	0	1607
0.	0.					1	709413	3	1608	
16	2					1	16709413	3	1609	
1.0000E+05	4.5421E-01	1.0000E+06	1.8865E+00	2.0000E+06	6.0267E+00709413		709413	3	1610	
3.0000E+06	5.5582E+00	4.0000E+06	4.6137E+00	5.0000E+06	4.5768E+00709413		709413	3	1611	
6.0000E+06	4.6239E+00	7.0000E+06	4.9108E+00	8.0000E+06	5.1742E+00709413		709413	3	1612	
9.0000E+06	5.4931E+00	1.0000E+07	4.7217E+00	1.2000E+07	4.7611E+00709413		709413	3	1613	
1.4000E+07	4.6392E+00	1.5000E+07	4.7782E+00	1.7000E+07	5.1639E+00709413		709413	3	1614	
2.0000E+07	5.8398E+00						709413	3	1615	
							709413	3	1616	
							709413	0	1617	
4.1093E+04	9.2108E+01		1			1	7094	0	0	1618
							709414	3	1619	

4.1093E+04	9.2108E+01		1		1	709414	0	1620
						709414102		1621
4.1093E+04	9.2108E+01					709414	0	1622
0.						7094	0	1623
2	2	0	1	1		709415	3	1624
1.0000E+05	1.0000E+00	2.0000E+07	1.0000E+00			2709415	3	1625
0.	16	2			1	709415	3	1626
0.	36	1.0000E+05	0			709415	3	1627
0.	0.	1.4655E+04	1.3418E-08	4.3965E+04	3.9138E-08709415	709415	3	1628
7.3275E+04	6.3420E-08	1.0258E+05	8.6325E-08	1.6120E+05	1.2823E-07709415	709415	3	1629
2.1982E+05	1.6529E-07	2.7844E+05	1.9791E-07	3.3706E+05	2.2647E-07709415	709415	3	1630
4.5430E+05	2.7275E-07	5.8620E+05	3.1007E-07	7.1809E+05	3.3467E-07709415	709415	3	1631
8.6464E+05	3.5009E-07	1.0405E+06	3.5584E-07	1.2310E+06	3.5063E-07709415	709415	3	1632
1.4655E+06	3.3328E-07	1.7586E+06	3.0185E-07	2.5646E+06	2.0304E-07709415	709415	3	1633
2.9603E+06	1.6030E-07	3.2094E+06	1.3682E-07	3.4732E+06	1.1494E-07709415	709415	3	1634
3.7370E+06	9.6007E-08	4.0008E+06	7.9789E-08	4.2939E+06	6.4632E-08709415	709415	3	1635
4.5870E+06	5.2111E-08	4.9094E+06	4.0927E-08	5.2611E+06	3.1290E-08709415	709415	3	1636
5.4663E+06	2.6699E-08	5.6861E+06	2.2488E-08	5.9206E+06	1.8696E-08709415	709415	3	1637
6.1551E+06	1.5519E-08	6.4042E+06	1.2713E-08	6.6827E+06	1.0154E-08709415	709415	3	1638
6.9758E+06	7.9994E-09	7.2982E+06	6.1413E-09	7.3128E+06	0.	709415	3	1639
0.	1.0000E+06	0				709415	3	1640
60	2			1		60709415	3	1641
0.	0.	1.9827E+03	9.1930E-08	5.9480E+03	2.6798E-07709415	709415	3	1642
9.9133E+03	4.3403E-07	1.3879E+04	5.9082E-07	1.9827E+04	8.0812E-07709415	709415	3	1643
2.7757E+04	1.0696E-06	4.1636E+04	1.4519E-06	5.7497E+04	1.7903E-06709415	709415	3	1644
7.3359E+04	2.0428E-06	9.5168E+04	2.2668E-06	1.1698E+05	2.3874E-06709415	709415	3	1645
1.4275E+05	2.4267E-06	1.6258E+05	2.4061E-06	1.9628E+05	2.2905E-06709415	709415	3	1646
3.3111E+05	1.5055E-06	3.9852E+05	1.1382E-06	4.5800E+05	8.7029E-07709415	709415	3	1647
4.8972E+05	7.4900E-07	5.2541E+05	6.3116E-07	5.6109E+05	5.3125E-07709415	709415	3	1648
6.0471E+05	4.2860E-07	6.5031E+05	3.4250E-07	6.9988E+05	2.6973E-07709415	709415	3	1649
7.6134E+05	1.9355E-07	7.8514E+05	1.6824E-07	8.4462E+05	1.1212E-07709415	709415	3	1650
8.6841E+05	9.4503E-08	9.0211E+05	7.4426E-08	9.3185E+05	6.1231E-08709415	709415	3	1651
9.5961E+05	5.1062E-08	9.7349E+05	3.8896E-08	9.8935E+05	2.6900E-08709415	709415	3	1652
1.0357E+06	2.7014E-08	1.2658E+06	2.6471E-08	1.5289E+06	2.4837E-08709415	709415	3	1653
2.6139E+06	1.4985E-08	2.9098E+06	1.2556E-08	3.1728E+06	1.0636E-08709415	709415	3	1654
3.4194E+06	9.0465E-09	3.6824E+06	7.5684E-09	3.9455E+06	6.2994E-09709415	709415	3	1655
4.2085E+06	5.2200E-09	4.5537E+06	4.0549E-09	4.9154E+06	3.0930E-09709415	709415	3	1656
5.2935E+06	2.3170E-09	5.5072E+06	1.9635E-09	5.7209E+06	1.6613E-09709415	709415	3	1657
5.9182E+06	1.4221E-09	6.1319E+06	1.2001E-09	6.3620E+06	9.9832E-10709415	709415	3	1658
6.5922E+06	8.2938E-10	6.9374E+06	6.2660E-10	7.1183E+06	5.4046E-10709415	709415	3	1659
7.3155E+06	4.5962E-10	7.5128E+06	3.9058E-10	7.7265E+06	3.2717E-10709415	709415	3	1660
7.9567E+06	2.7013E-10	8.1868E+06	2.2284E-10	8.2033E+06	0.	709415	3	1661
0.	2.0000E+06	0		1		65709415	3	1662
65	2					709415	3	1663
0.	0.	3.9653E+03	9.4650E-08	7.9307E+03	1.8491E-07709415	709415	3	1664
1.5861E+04	3.5331E-07	1.9827E+04	4.3185E-07	2.7757E+04	5.7864E-07709415	709415	3	1665
3.9653E+04	7.7432E-07	5.9480E+04	1.0415E-06	8.3272E+04	1.2808E-06709415	709415	3	1666
1.0706E+05	1.4479E-06	1.3482E+05	1.5736E-06	1.6258E+05	1.6391E-06709415	709415	3	1667
1.9430E+05	1.6595E-06	2.3792E+05	1.6243E-06	2.8947E+05	1.5250E-06709415	709415	3	1668
4.9170E+05	9.9006E-07	5.9877E+05	7.4855E-07	6.9393E+05	5.8000E-07709415	709415	3	1669
7.9307E+05	4.4129E-07	8.4858E+05	3.7778E-07	9.2789E+05	3.0318E-07709415	709415	3	1670
1.0151E+06	2.3660E-07	1.0984E+06	1.8731E-07	1.1936E+06	1.4312E-07709415	709415	3	1671
1.2927E+06	1.0904E-07	1.3879E+06	8.3223E-08	1.4513E+06	6.9503E-08709415	709415	3	1672
1.5385E+06	5.3176E-08	1.5901E+06	4.4993E-08	1.6734E+06	3.4267E-08709415	709415	3	1673
1.7130E+06	2.8325E-08	1.7606E+06	2.2331E-08	1.8122E+06	1.6963E-08709415	709415	3	1674
1.8518E+06	1.3583E-08	1.8915E+06	1.0752E-08	1.9470E+06	7.5023E-09709415	709415	3	1675

1.9628E+06	4.6026E-09	1.9787E+06	1.9039E-09	2.6344E+06	1.3573E-09	709415	3	1680
2.9291E+06	1.1372E-09	3.2239E+06	9.4321E-10	3.5002E+06	7.8544E-10	709415	3	1681
3.7949E+06	6.4171E-10	4.0897E+06	5.2111E-10	4.4029E+06	4.1535E-10	709415	3	1682
4.7897E+06	3.1167E-10	4.9924E+06	2.6742E-10	5.1950E+06	2.2908E-10	709415	3	1683
5.4161E+06	1.9316E-10	5.6556E+06	1.6028E-10	5.8951E+06	1.3275E-10	709415	3	1684
6.1530E+06	1.0817E-10	6.4109E+06	8.7985E-11	6.6688E+06	7.1452E-11	709415	3	1685
6.9635E+06	5.6222E-11	7.2767E+06	4.3496E-11	7.4609E+06	3.7368E-11	709415	3	1686
7.6636E+06	3.1597E-11	7.8846E+06	2.6292E-11	8.1057E+06	2.1861E-11	709415	3	1687
8.3452E+06	1.7884E-11	8.6031E+06	1.4393E-11	8.8794E+06	1.1394E-11	709415	3	1688
9.1742E+06	8.8711E-12	9.1926E+06	0.			709415	3	1689
0.	3.0000E+06	0		1	709415	3	1690	
79	2				709415	3	1691	
0.	0.	5.9480E+03	7.9272E-08	1.1896E+04	1.5409E-07	709415	3	1692
1.7844E+04	2.2469E-07	2.3792E+04	2.9070E-07	3.5688E+04	4.1256E-07	709415	3	1693
4.7584E+04	5.1976E-07	5.9480E+04	6.1560E-07	7.7324E+04	7.3803E-07	709415	3	1694
1.0112E+05	8.6721E-07	1.3086E+05	9.8528E-07	1.6654E+05	1.0747E-06	709415	3	1695
2.0818E+05	1.1293E-06	2.4982E+05	1.1443E-06	2.9740E+05	1.1303E-06	709415	3	1696
3.7472E+05	1.0664E-06	6.4833E+05	7.3223E-07	8.0298E+05	5.6809E-07	709415	3	1697
9.3384E+05	4.5426E-07	1.0947E+06	3.4183E-07	1.2074E+06	2.7882E-07	709415	3	1698
1.3086E+06	2.3167E-07	1.4097E+06	1.9220E-07	1.5227E+06	1.5517E-07	709415	3	1699
1.6357E+06	1.2551E-07	1.7666E+06	9.7102E-08	1.8796E+06	7.7902E-08	709415	3	1700
2.0345E+06	5.6733E-08	2.1353E+06	4.5999E-08	2.2424E+06	3.5691E-08	709415	3	1701
2.3441E+06	2.7690E-08	2.4506E+06	2.0462E-08	2.5653E+06	1.4305E-08	709415	3	1702
2.6231E+06	1.1741E-08	2.6869E+06	9.2883E-09	2.7532E+06	7.2020E-09	709415	3	1703
2.8196E+06	5.4613E-09	2.8970E+06	3.8226E-09	2.9681E+06	2.6244E-09	709415	3	1704
3.0518E+06	2.2328E-09	3.1292E+06	1.9299E-09	3.2066E+06	1.6723E-09	709415	3	1705
3.2951E+06	1.4261E-09	3.3946E+06	1.2011E-09	3.4941E+06	1.0170E-09	709415	3	1706
3.6047E+06	8.5199E-10	3.6599E+06	7.8377E-10	3.7263E+06	7.1068E-10	709415	3	1707
3.8479E+06	5.9720E-10	3.9143E+06	5.4532E-10	4.0691E+06	4.4935E-10	709415	3	1708
4.2238E+06	3.7317E-10	4.3234E+06	3.3575E-10	4.5777E+06	2.5793E-10	709415	3	1709
4.7747E+06	2.1450E-10	4.9992E+06	1.7602E-10	5.2236E+06	1.4571E-10	709415	3	1710
5.4512E+06	1.2098E-10	5.6929E+06	9.9957E-11	5.9378E+06	8.2416E-11	709415	3	1711
6.2234E+06	6.5663E-11	6.5091E+06	5.2205E-11	6.8152E+06	4.0743E-11	709415	3	1712
7.1417E+06	3.1208E-11	7.4885E+06	2.3456E-11	7.6722E+06	2.0147E-11	709415	3	1713
7.8762E+06	1.7003E-11	8.0599E+06	1.4587E-11	8.2435E+06	1.2508E-11	709415	3	1714
8.4476E+06	1.0537E-11	8.6720E+06	8.7206E-12	8.9985E+06	6.6142E-12	709415	3	1715
9.1617E+06	5.7575E-12	9.3454E+06	4.9236E-12	9.5290E+06	4.2089E-12	709415	3	1716
9.7330E+06	3.5343E-12	9.9371E+06	2.9665E-12	1.0162E+07	2.4454E-12	709415	3	1717
1.0182E+07	0.				709415	3	1718	
0.	4.0000E+06	0		1	709415	3	1719	
78	2				709415	3	1720	
0.	0.	7.9307E+03	5.1662E-08	1.5861E+04	1.0005E-07	709415	3	1721
3.1723E+04	1.8735E-07	4.7584E+04	2.6344E-07	6.5199E+04	3.3648E-07	709415	3	1722
7.9307E+04	3.8664E-07	1.0310E+05	4.6064E-07	1.4275E+05	5.5121E-07	709415	3	1723
1.8256E+05	6.1321E-07	2.2999E+05	6.5844E-07	2.9992E+05	6.9019E-07	709415	3	1724
3.5688E+05	6.9387E-07	4.8248E+05	6.7136E-07	5.8679E+05	6.3369E-07	709415	3	1725
9.4375E+05	4.8154E-07	1.2689E+06	3.5769E-07	1.4910E+06	2.8949E-07	709415	3	1726
1.7604E+06	2.1929E-07	2.0303E+06	1.6462E-07	2.1907E+06	1.3765E-07	709415	3	1727
2.3993E+06	1.0870E-07	2.6210E+06	8.3925E-08	2.7678E+06	7.0802E-08	709415	3	1728
2.8788E+06	6.1973E-08	3.1557E+06	4.2423E-08	3.2730E+06	3.5601E-08	709415	3	1729
3.4419E+06	2.7674E-08	3.5208E+06	2.4424E-08	3.6512E+06	1.9953E-08	709415	3	1730
3.7946E+06	1.5925E-08	3.9574E+06	1.2310E-08	4.0945E+06	9.8739E-09	709415	3	1731
4.2640E+06	7.5032E-09	4.4336E+06	5.6661E-09	4.5248E+06	4.8578E-09	709415	3	1732
4.6292E+06	4.0628E-09	4.7237E+06	3.4500E-09	4.8508E+06	2.7512E-09	709415	3	1733
4.9682E+06	2.2241E-09	5.0856E+06	1.7897E-09	5.2160E+06	1.3966E-09	709415	3	1734
5.3464E+06	1.0814E-09	5.4246E+06	9.2319E-10	5.5680E+06	6.8486E-10	709415	3	1735
5.6593E+06	5.6152E-10	5.7506E+06	4.5770E-10	5.8419E+06	3.6976E-10	709415	3	1736
5.9331E+06	2.9539E-10	6.0375E+06	2.2564E-10	6.0896E+06	1.9564E-10	709415	3	1737
6.1939E+06	1.4404E-10	6.2591E+06	1.1731E-10	6.3113E+06	9.8390E-11	709415	3	1738
6.4026E+06	6.9814E-11	6.4678E+06	5.2506E-11	6.5069E+06	4.3344E-11	709415	3	1739

6.8282E+06	3.3368E-11	7.1640E+06	2.5361E-11	7.3431E+06	2.1889E-11	7.09415	3	1740
7.5222E+06	1.8881E-11	7.7236E+06	1.5977E-11	7.9251E+06	1.3510E-11	7.09415	3	1741
8.1490E+06	1.1205E-11	8.3953E+06	9.1136E-12	8.6191E+06	7.5472E-12	7.09415	3	1742
8.8654E+06	6.1284E-12	9.1341E+06	4.8788E-12	9.4027E+06	3.8805E-12	7.09415	3	1743
9.5818E+06	3.3298E-12	9.7609E+06	2.8562E-12	9.9624E+06	2.4024E-12	7.09415	3	1744
1.0164E+07	2.0199E-12	1.0388E+07	1.6652E-12	1.0612E+07	1.3721E-12	7.09415	3	1745
1.0880E+07	1.0870E-12	1.1149E+07	8.6066E-13	1.1171E+07	0.	7.09415	3	1746
0.	5.0000E+06	0		1	83709415	3	1747	
83	2				709415	3	1748	
0.	0.	9.9133E+03	3.1076E-08	1.9827E+04	6.0167E-08	7.09415	3	1749
2.9740E+04	8.7350E-08	3.9653E+04	1.1261E-07	4.9567E+04	1.3616E-07	7.09415	3	1750
6.9393E+04	1.7901E-07	8.9220E+04	2.1615E-07	1.1896E+05	2.6447E-07	7.09415	3	1751
1.3879E+05	2.9114E-07	1.6525E+05	3.2298E-07	2.0818E+05	3.6386E-07	7.09415	3	1752
2.5538E+05	3.9785E-07	3.4552E+05	4.4057E-07	4.5068E+05	4.6688E-07	7.09415	3	1753
5.5583E+05	4.7724E-07	6.3445E+05	4.7652E-07	6.7602E+05	4.7670E-07	7.09415	3	1754
8.1122E+05	4.6554E-07	9.9149E+05	4.3944E-07	1.6159E+06	3.1164E-07	7.09415	3	1755
2.0124E+06	2.3591E-07	2.3285E+06	1.8322E-07	2.5538E+06	1.5169E-07	7.09415	3	1756
2.8550E+06	1.1711E-07	3.0195E+06	1.0067E-07	3.2599E+06	8.0808E-08	7.09415	3	1757
3.5153E+06	6.3656E-08	3.9810E+06	3.9216E-08	4.1012E+06	3.3688E-08	7.09415	3	1758
4.2213E+06	2.8883E-08	4.3866E+06	2.3294E-08	4.5518E+06	1.8709E-08	7.09415	3	1759
4.7321E+06	1.4658E-08	4.9124E+06	1.1422E-08	5.0175E+06	9.8487E-09	7.09415	3	1760
5.1227E+06	8.4748E-09	5.2278E+06	7.2755E-09	5.3480E+06	6.0929E-09	7.09415	3	1761
5.4682E+06	5.0849E-09	5.6034E+06	4.1296E-09	5.7386E+06	3.3359E-09	7.09415	3	1762
5.8738E+06	2.6781E-09	6.0240E+06	2.0809E-09	6.1743E+06	1.6001E-09	7.09415	3	1763
6.2644E+06	1.3588E-09	6.3545E+06	1.1479E-09	6.4447E+06	9.6405E-10	7.09415	3	1764
6.5348E+06	8.0426E-10	6.6249E+06	6.6542E-10	6.7301E+06	5.2673E-10	7.09415	3	1765
6.8353E+06	4.1012E-10	6.9554E+06	2.9977E-10	7.0155E+06	2.5256E-10	7.09415	3	1766
7.0756E+06	2.1005E-10	7.1357E+06	1.7195E-10	7.2108E+06	1.2980E-10	7.09415	3	1767
7.2709E+06	1.0011E-10	7.3460E+06	6.7513E-11	7.3761E+06	5.5744E-11	7.09415	3	1768
7.4309E+06	3.6069E-11	7.4662E+06	2.4441E-11	7.4963E+06	1.5254E-11	7.09415	3	1769
7.6232E+06	1.3695E-11	7.8397E+06	1.1442E-11	8.0561E+06	9.5513E-12	7.09415	3	1770
8.2725E+06	7.9678E-12	8.5130E+06	6.5090E-12	8.7776E+06	5.2062E-12	7.09415	3	1771
9.0421E+06	4.1602E-12	9.3307E+06	3.2543E-12	9.6433E+06	2.4913E-12	7.09415	3	1772
9.8116E+06	2.1566E-12	9.9800E+06	1.8662E-12	1.0172E+07	1.5814E-12	7.09415	3	1773
1.0389E+07	1.3121E-12	1.0605E+07	1.0881E-12	1.0846E+07	8.8337E-13	7.09415	3	1774
1.1110E+07	7.0197E-13	1.1375E+07	5.5751E-13	1.1663E+07	4.3333E-13	7.09415	3	1775
1.1976E+07	3.2958E-13	1.2000E+07	0.		709415	3	1776	
0.	6.0000E+06	0		1	73709415	3	1777	
73	2				709415	3	1778	
0.	0.	1.7005E+04	2.1449E-08	4.0011E+04	4.9050E-08	7.09415	3	1779
8.5026E+04	9.9071E-08	1.3604E+05	1.4941E-07	1.8706E+05	1.9368E-07	7.09415	3	1780
2.3807E+05	2.3244E-07	2.8909E+05	2.6619E-07	3.9112E+05	3.2050E-07	7.09415	3	1781
5.1016E+05	3.6510E-07	6.2919E+05	3.9354E-07	7.6524E+05	4.1052E-07	7.09415	3	1782
9.0128E+05	4.1487E-07	1.0883E+06	4.0608E-07	1.3264E+06	3.7908E-07	7.09415	3	1783
2.2787E+06	2.2475E-07	2.5508E+06	1.8570E-07	2.8059E+06	1.5367E-07	7.09415	3	1784
3.0609E+06	1.2612E-07	3.3330E+06	1.0137E-07	3.6051E+06	8.0938E-08	7.09415	3	1785
3.8942E+06	6.3327E-08	4.0983E+06	5.3076E-08	4.3023E+06	4.4376E-08	7.09415	3	1786
4.4894E+06	3.7584E-08	4.8295E+06	2.6719E-08	4.9995E+06	2.1821E-08	7.09415	3	1787
5.1696E+06	1.7760E-08	5.3566E+06	1.4099E-08	5.5607E+06	1.0901E-08	7.09415	3	1788
5.7818E+06	8.1930E-09	5.9008E+06	7.0024E-09	6.0369E+06	5.8341E-09	7.09415	3	1789
6.1729E+06	4.8436E-09	6.3259E+06	3.9107E-09	6.4790E+06	3.1402E-09	7.09415	3	1790
6.6320E+06	2.5058E-09	6.8021E+06	1.9336E-09	6.9721E+06	1.4764E-09	7.09415	3	1791
7.0742E+06	1.2483E-09	7.1592E+06	1.0811E-09	7.2612E+06	9.0477E-10	7.09415	3	1792
7.3803E+06	7.2871E-10	7.4993E+06	5.8029E-10	7.6183E+06	4.5558E-10	7.09415	3	1793
7.7374E+06	3.5135E-10	7.8734E+06	2.5336E-10	7.9414E+06	2.1175E-10	7.09415	3	1794
8.0095E+06	1.7444E-10	8.0775E+06	1.4109E-10	8.1625E+06	1.0445E-10	7.09415	3	1795
8.2305E+06	7.8749E-11	8.3156E+06	5.0694E-11	8.3496E+06	4.0638E-11	7.09415	3	1796
8.4006E+06	2.6686E-11	8.4346E+06	1.8096E-11	8.4686E+06	1.0045E-11	7.09415	3	1797
8.4856E+06	6.2126E-12	8.7776E+06	4.8448E-12	9.0421E+06	3.8713E-12	7.09415	3	1798
9.3307E+06	3.0280E-12	9.6433E+06	2.3180E-12	9.8116E+06	2.0065E-12	7.09415	3	1799

9.9800E+06	1.7363E-12	1.0172E+07	1.4713E-12	1.0389E+07	1.2207E-12	709415	3 1800
1.0605E+07	1.0124E-12	1.0846E+07	8.2187E-13	1.1110E+07	6.5310E-13	709415	3 1801
1.1375E+07	5.1869E-13	1.1663E+07	4.0316E-13	1.1976E+07	3.0664E-13	709415	3 1802
1.2000E+07	0.					709415	3 1803
0.	7.0000E+06		0		1	70709415	3 1804
70	2					709415	3 1805
0.	0.	1.8988E+04	2.1065E-08	4.5959E+04	4.9404E-08	709415	3 1806
9.4939E+04	9.6845E-08	1.3292E+05	1.3002E-07	1.8988E+05	1.7454E-07	709415	3 1807
2.4684E+05	2.1327E-07	3.0381E+05	2.4672E-07	4.1773E+05	2.9999E-07	709415	3 1808
5.3166E+05	3.3787E-07	6.6458E+05	3.6651E-07	7.9749E+05	3.8195E-07	709415	3 1809
9.4939E+05	3.8720E-07	1.1583E+06	3.7907E-07	1.4051E+06	3.5483E-07	709415	3 1810
2.4494E+06	2.0753E-07	2.7343E+06	1.7207E-07	3.0191E+06	1.4115E-07	709415	3 1811
3.3039E+06	1.1475E-07	3.6077E+06	9.1259E-08	3.9115E+06	7.2067E-08	709415	3 1812
4.2343E+06	5.5706E-08	4.4242E+06	4.7743E-08	4.6141E+06	4.0843E-08	709415	3 1813
4.8229E+06	3.4333E-08	5.0318E+06	2.8807E-08	5.2596E+06	2.3741E-08	709415	3 1814
5.6774E+06	1.5672E-08	5.9052E+06	1.2085E-08	6.1521E+06	9.0618E-09	709415	3 1815
6.3989E+06	6.7470E-09	6.5318E+06	5.7380E-09	6.6837E+06	4.7537E-09	709415	3 1816
6.8356E+06	3.9247E-09	6.9875E+06	3.2283E-09	7.1584E+06	2.5785E-09	709415	3 1817
7.3483E+06	1.9946E-09	7.5382E+06	1.5298E-09	7.7471E+06	1.1292E-09	709415	3 1818
7.8420E+06	9.7901E-10	7.9559E+06	8.2112E-10	8.0699E+06	6.8471E-10	709415	3 1819
8.2028E+06	5.4932E-10	8.3357E+06	4.3590E-10	8.4686E+06	3.4126E-10	709415	3 1820
8.6015E+06	2.6262E-10	8.7534E+06	1.8924E-10	8.8294E+06	1.5826E-10	709415	3 1821
8.9243E+06	1.2418E-10	9.0003E+06	1.0025E-10	9.0952E+06	7.4106E-11	709415	3 1822
9.1901E+06	5.1673E-11	9.2851E+06	3.2492E-11	9.3307E+06	2.4378E-11	709415	3 1823
9.3800E+06	1.6205E-11	9.4180E+06	1.0424E-11	9.4370E+06	7.6779E-12	709415	3 1824
9.4750E+06	2.4627E-12	9.6433E+06	2.1137E-12	9.8116E+06	1.8294E-12	709415	3 1825
9.9800E+06	1.5829E-12	1.0172E+07	1.3412E-12	1.0389E+07	1.1125E-12	709415	3 1826
1.0605E+07	9.2254E-13	1.0846E+07	7.4889E-13	1.1110E+07	5.9505E-13	709415	3 1827
1.1375E+07	4.7255E-13	1.1663E+07	3.6728E-13	1.1976E+07	2.7933E-13	709415	3 1828
1.2000E+07	0.					709415	3 1829
0.	8.0000E+06		0		1	68709415	3 1830
68	2					709415	3 1831
0.	0.	2.0971E+04	2.0927E-08	5.1907E+04	5.0052E-08	709415	3 1832
1.0485E+05	9.5790E-08	1.4679E+05	1.2832E-07	2.0971E+05	1.7170E-07	709415	3 1833
3.1456E+05	2.3105E-07	4.4038E+05	2.8416E-07	5.6621E+05	3.2128E-07	709415	3 1834
6.9203E+05	3.4552E-07	8.3882E+05	3.6110E-07	1.0066E+06	3.6604E-07	709415	3 1835
1.2163E+06	3.5848E-07	1.4889E+06	3.3437E-07	2.6003E+06	1.9409E-07	709415	3 1836
2.9149E+06	1.5943E-07	3.2295E+06	1.2947E-07	3.5440E+06	1.0415E-07	709415	3 1837
3.8586E+06	8.3123E-08	4.1941E+06	6.4878E-08	4.5506E+06	4.9514E-08	709415	3 1838
4.7603E+06	4.2112E-08	4.9910E+06	3.5162E-08	5.2426E+06	2.8812E-08	709415	3 1839
5.4943E+06	2.3554E-08	5.7459E+06	1.9215E-08	5.9976E+06	1.5646E-08	709415	3 1840
6.5009E+06	9.8982E-09	6.7525E+06	7.5127E-09	6.8783E+06	6.5308E-09	709415	3 1841
7.0251E+06	5.5352E-09	7.1719E+06	4.6809E-09	7.3397E+06	3.8534E-09	709415	3 1842
7.5075E+06	3.1614E-09	7.6752E+06	2.5842E-09	7.8640E+06	2.0498E-09	709415	3 1843
8.0737E+06	1.5736E-09	8.2834E+06	1.1982E-09	8.3882E+06	1.0418E-09	709415	3 1844
8.5140E+06	8.7761E-10	8.6189E+06	7.5831E-10	8.7447E+06	6.3350E-10	709415	3 1845
8.8705E+06	5.2635E-10	9.0173E+06	4.2056E-10	9.1641E+06	3.3258E-10	709415	3 1846
9.3109E+06	2.5962E-10	9.4787E+06	1.9174E-10	9.6465E+06	1.3753E-10	709415	3 1847
9.7303E+06	1.1480E-10	9.8352E+06	8.9918E-11	9.9191E+06	7.2557E-11	709415	3 1848
1.0024E+07	5.3671E-11	1.0129E+07	3.7561E-11	1.0234E+07	2.3890E-11	709415	3 1849
1.0276E+07	1.9035E-11	1.0338E+07	1.2351E-11	1.0401E+07	6.3371E-12	709415	3 1850
1.0422E+07	4.4743E-12	1.0443E+07	2.6780E-12	1.0464E+07	9.4638E-13	709415	3 1851
1.0605E+07	8.3431E-13	1.0846E+07	6.7701E-13	1.1110E+07	5.3775E-13	709415	3 1852
1.1375E+07	4.2692E-13	1.1591E+07	3.5551E-13	1.1663E+07	3.3172E-13	709415	3 1853
1.1976E+07	2.5222E-13	1.2000E+07	0.			709415	3 1854
0.	9.0000E+06		0		1	67709415	3 1855
67	2					709415	3 1856
0.	0.	2.2953E+04	2.1501E-08	4.5906E+04	4.2021E-08	709415	3 1857
9.1813E+04	8.0248E-08	1.3772E+05	1.1494E-07	2.0658E+05	1.6093E-07	709415	3 1858
2.5249E+05	1.8786E-07	3.2135E+05	2.2326E-07	4.5906E+05	2.7815E-07	709415	3 1859

5.7383E+05	3.1040E-07	7.1155E+05	3.3603E-07	8.7222E+05	3.5177E-07709415	3 1860
1.0329E+06	3.5603E-07	1.2624E+06	3.4790E-07	1.5149E+06	3.2666E-07709415	3 1861
2.6855E+06	1.8693E-07	3.0298E+06	1.5139E-07	3.3512E+06	1.2293E-07709415	3 1862
3.6725E+06	9.8916E-08	4.0168E+06	7.7712E-08	4.3841E+06	5.9602E-08709415	3 1863
4.7743E+06	4.4619E-08	4.9808E+06	3.8173E-08	5.2104E+06	3.2032E-08709415	3 1864
5.4629E+06	2.6353E-08	5.7154E+06	2.1635E-08	5.9908E+06	1.7406E-08709415	3 1865
6.2892E+06	1.3720E-08	6.5876E+06	1.0790E-08	6.9319E+06	8.1573E-09709415	3 1866
7.4139E+06	5.2218E-09	7.5516E+06	4.5016E-09	7.7123E+06	3.7783E-09709415	3 1867
7.8959E+06	3.0843E-09	8.0795E+06	2.5096E-09	8.2861E+06	1.9819E-09709415	3 1868
8.5156E+06	1.5159E-09	8.6304E+06	1.3225E-09	8.7681E+06	1.1199E-09709415	3 1869
8.8829E+06	9.7293E-10	9.0206E+06	8.1943E-10	9.1583E+06	6.8780E-10709415	3 1870
9.2961E+06	5.7511E-10	9.4567E+06	4.6424E-10	9.6174E+06	3.7222E-10709415	3 1871
9.7781E+06	2.9609E-10	9.9617E+06	2.2532E-10	1.0054E+07	1.9548E-10709415	3 1872
1.0168E+07	1.6265E-10	1.0260E+07	1.3961E-10	1.0375E+07	1.1437E-10709415	3 1873
1.0490E+07	9.2646E-11	1.0604E+07	7.3987E-11	1.0719E+07	5.8027E-11709415	3 1874
1.0857E+07	4.1948E-11	1.0995E+07	2.8754E-11	1.1063E+07	2.3094E-11709415	3 1875
1.1132E+07	1.7995E-11	1.1201E+07	1.3412E-11	1.1293E+07	8.0268E-12709415	3 1876
1.1362E+07	4.4821E-12	1.1408E+07	2.3371E-12	1.1431E+07	1.3260E-12709415	3 1877
1.1454E+07	3.5396E-13	1.1663E+07	2.9268E-13	1.1976E+07	2.2231E-13709415	3 1878
1.2000E+07	0.					
0.	1.0000E+07	0			709415	3 1879
63	2				63709415	3 1880
0.	0.				709415	3 1881
9.6192E+04	8.3314E-08	2.4048E+04	2.2377E-08	4.8096E+04	4.3699E-08709415	3 1882
2.6453E+05	1.9398E-07	1.4429E+05	1.1915E-07	2.1643E+05	1.6641E-07709415	3 1883
5.7715E+05	3.1106E-07	3.3667E+05	2.2989E-07	4.5691E+05	2.7714E-07709415	3 1884
1.0341E+06	3.5627E-07	7.2144E+05	3.3748E-07	8.6573E+05	3.5161E-07709415	3 1885
2.6934E+06	1.8582E-07	1.2505E+06	3.4895E-07	1.5150E+06	3.2687E-07709415	3 1886
3.7034E+06	9.6534E-08	4.0301E+06	1.5107E-07	3.3667E+06	1.2135E-07709415	3 1887
4.6172E+05	4.9975E-08	4.0641E+06	7.4871E-08	4.4248E+06	5.7622E-08709415	3 1888
5.2906E+06	2.9981E-08	4.8337E+06	4.2492E-08	5.0501E+06	3.6058E-08709415	3 1889
6.1082E+06	5.5551E-06	2.4416E-08	5.8196E+06	1.9839E-08709415	3 1890	
6.8778E+06	1.5782E-08	6.3968E+06	1.2527E-08	6.7094E+06	9.7307E-09709415	3 1891
7.7916E+06	8.4851E-09	7.0701E+06	7.2504E-09	7.4068E+06	5.4965E-09709415	3 1892
8.3447E+06	3.8671E-09	7.9599E+06	3.2394E-09	8.1523E+06	2.6401E-09709415	3 1893
8.9218E+06	2.1461E-09	8.5611E+06	1.6945E-09	8.8016E+06	1.2975E-09709415	3 1894
9.3307E+06	1.1332E-09	9.0661E+06	9.6162E-10	9.1864E+06	8.3735E-10709415	3 1895
9.8116E+06	7.0776E-10	9.4749E+06	5.9684E-10	9.6433E+06	4.8756E-10709415	3 1896
1.0341E+07	3.9677E-10	9.9800E+06	3.2147E-10	1.0148E+07	2.5918E-10709415	3 1897
1.0774E+07	2.0124E-10	1.0557E+07	1.4980E-10	1.0677E+07	1.2643E-10709415	3 1898
1.1110E+07	1.1002E-10	1.0870E+07	9.5413E-11	1.0990E+07	7.9428E-11709415	3 1899
1.1567E+07	6.5662E-11	1.1230E+07	5.3845E-11	1.1399E+07	4.0095E-11709415	3 1900
1.1856E+07	2.9092E-11	1.1663E+07	2.3841E-11	1.1760E+07	1.9250E-11709415	3 1901
0.	1.2000E+07	1.0957E-11	1.2000E+07	0.	709415	3 1902
72	2				72709415	3 1903
0.	0.				709415	3 1904
2.4419E+04	2.2597E-07	3.6628E+04	6.0677E-08	1.2209E+04	1.1850E-07709415	3 1905
7.3256E+04	5.5947E-07	1.0378E+05	4.8837E+04	4.1058E-07709415	3 1906	
1.7093E+05	8.9247E-07	2.0756E+05	7.0355E-07	1.3430E+05	8.0844E-07709415	3 1907
2.9913E+05	9.5642E-07	3.6017E+05	9.4119E-07	2.4419E+05	9.6224E-07709415	3 1908
7.2035E+05	5.1769E-07	7.9971E+05	9.1549E-07	6.4099E+05	5.9801E-07709415	3 1909
9.7674E+05	3.2766E-07	1.0683E+06	4.4692E-07	8.8517E+05	3.8357E-07709415	3 1910
1.2820E+06	2.1170E-07	1.3796E+06	2.8327E-07	1.1721E+06	2.4346E-07709415	3 1911
1.5994E+06	1.5059E-07	1.7154E+06	1.8837E-07	1.4956E+06	1.6618E-07709415	3 1912
2.1244E+06	1.0590E-07	2.5823E+06	1.3697E-07	1.8436E+06	1.2519E-07709415	3 1913
3.3427E+06	5.0068E-08	3.7034E+06	8.1408E-08	3.0301E+06	6.1442E-08709415	3 1914
4.4248E+06	2.3179E-08	4.6172E+06	2.0077E-08	4.0641E+06	3.0187E-08709415	3 1915
5.0501E+06	1.4454E-08	5.2906E+06	1.2005E-08	5.5551E+06	1.7051E-08709415	3 1916
5.8196E+06	7.9271E-09	6.1082E+06	6.3002E-09	6.3968E+06	9.7655E-09709415	3 1917
6.7094E+06	3.8787E-09	6.8778E+06	3.3813E-09	7.0701E+06	2.8884E-09709415	3 1918
						3 1919

7.2385E+06	2.5151E-09	7.4309E+06	2.1457E-09	7.7675E+06	1.5940E-09	7.09415	3	1920
7.9359E+06	1.3507E-09	8.1283E+06	1.1161E-09	8.3447E+06	8.9871E-10	7.09415	3	1921
8.5611E+06	7.2206E-10	8.8016E+06	5.6485E-10	9.0661E+06	4.2986E-10	7.09415	3	1922
9.3307E+06	3.2605E-10	9.4749E+06	2.8002E-10	9.6433E+06	2.3412E-10	7.09415	3	1923
9.8116E+06	1.9544E-10	9.9800E+06	1.6292E-10	1.0148E+07	1.3564E-10	7.09415	3	1924
1.0341E+07	1.0976E-10	1.0533E+07	8.8598E-11	1.0725E+07	7.1320E-11	7.09415	3	1925
1.0846E+07	6.2180E-11	1.0990E+07	5.2665E-11	1.1134E+07	4.4517E-11	7.09415	3	1926
1.1279E+07	3.7555E-11	1.1447E+07	3.0709E-11	1.1615E+07	2.5026E-11	7.09415	3	1927
1.1784E+07	2.0321E-11	1.1976E+07	1.5930E-11	1.2000E+07	0.	7.09415	3	1928
0.	1.4000E+07	0	1	64709415	3	1929		
64	2			709415	3	1930		
0.	0.	1.0070E+04	1.9510E-08	3.0210E+04	5.6920E-08	7.09415	3	1931
6.0420E+04	1.0880E-07	9.0630E+04	1.5618E-07	1.3091E+05	2.1255E-07	7.09415	3	1932
2.0140E+05	2.9471E-07	2.7189E+05	3.5889E-07	3.5245E+05	4.1335E-07	7.09415	3	1933
4.5691E+05	4.5934E-07	5.7715E+05	4.8732E-07	7.2144E+05	4.9477E-07	7.09415	3	1934
9.2644E+05	4.7531E-07	1.2505E+06	4.0642E-07	1.7421E+06	2.8871E-07	7.09415	3	1935
1.9133E+06	2.5221E-07	2.1162E+06	2.1406E-07	2.3866E+06	1.7019E-07	7.09415	3	1936
2.6934E+06	1.3021E-07	3.0512E+06	9.0294E-08	3.1519E+06	8.1387E-08	7.09415	3	1937
3.3667E+06	6.5010E-08	3.4943E+06	5.7295E-08	3.7034E+06	4.6375E-08	7.09415	3	1938
3.8467E+06	4.0529E-08	4.0641E+06	3.2792E-08	4.3905E+06	2.4317E-08	7.09415	3	1939
4.6172E+06	1.9804E-08	4.8337E+06	1.6386E-08	5.0501E+06	1.3632E-08	7.09415	3	1940
5.3868E+06	1.0539E-08	5.5551E+06	9.1938E-09	5.8196E+06	7.4568E-09	7.09415	3	1941
6.1082E+06	5.9214E-09	6.3968E+06	4.6923E-09	6.7094E+06	3.6390E-09	7.09415	3	1942
6.8778E+06	3.1711E-09	7.0701E+06	2.7076E-09	7.2385E+06	2.3565E-09	7.09415	3	1943
7.4309E+06	2.0095E-09	7.5867E+06	1.7688E-09	7.8397E+06	1.4295E-09	7.09415	3	1944
8.1042E+06	1.1454E-09	8.4168E+06	8.7052E-10	8.6333E+06	7.0570E-10	7.09415	3	1945
8.8737E+06	5.5798E-10	9.1383E+06	4.3007E-10	9.4028E+06	3.3079E-10	7.09415	3	1946
9.5471E+06	2.8644E-10	9.6914E+06	2.4782E-10	9.8597E+06	2.0915E-10	7.09415	3	1947
1.0028E+07	1.7635E-10	1.0196E+07	1.4847E-10	1.0365E+07	1.2483E-10	7.09415	3	1948
1.0533E+07	1.0485E-10	1.0725E+07	8.5781E-11	1.0990E+07	6.4930E-11	7.09415	3	1949
1.1134E+07	5.5706E-11	1.1279E+07	4.7750E-11	1.1447E+07	3.9843E-11	7.09415	3	1950
1.1615E+07	3.3198E-11	1.1784E+07	2.7620E-11	1.1976E+07	2.2349E-11	7.09415	3	1951
1.2000E+07	0.			709415	3	1952		
0.	1.5000E+07	0	1	62709415	3	1953		
62	2			709415	3	1954		
0.	0.	1.2053E+04	1.6219E-08	3.6158E+04	4.7388E-08	7.09415	3	1955
6.0263E+04	7.6701E-08	8.4368E+04	1.0440E-07	1.2053E+05	1.4292E-07	7.09415	3	1956
1.6874E+05	1.8891E-07	2.5311E+05	2.5674E-07	3.4953E+05	3.1625E-07	7.09415	3	1957
4.4595E+05	3.6020E-07	5.7715E+05	3.9889E-07	7.2144E+05	4.2079E-07	7.09415	3	1958
8.6573E+05	4.2602E-07	1.0341E+06	4.1817E-07	1.2505E+06	3.9277E-07	7.09415	3	1959
1.9766E+06	2.6854E-07	2.3864E+06	2.0359E-07	2.7601E+06	1.5399E-07	7.09415	3	1960
3.1457E+06	1.1376E-07	3.3386E+06	9.7169E-08	3.6881E+06	7.0737E-08	7.09415	3	1961
3.8207E+06	6.1822E-08	4.0617E+06	4.7963E-08	4.3148E+06	3.6988E-08	7.09415	3	1962
4.4715E+06	3.1317E-08	4.6403E+06	2.6266E-08	4.8337E+06	2.1482E-08	7.09415	3	1963
5.0501E+06	1.7188E-08	5.2906E+06	1.3433E-08	5.5551E+06	1.0261E-08	7.09415	3	1964
5.8196E+06	7.8667E-09	6.0143E+06	6.5174E-09	6.1082E+06	6.0113E-09	7.09415	3	1965
6.3968E+06	4.7631E-09	6.7094E+06	3.6937E-09	6.8778E+06	3.2183E-09	7.09415	3	1966
7.0701E+06	2.7475E-09	7.2625E+06	2.3442E-09	7.4549E+06	1.9986E-09	7.09415	3	1967
7.6713E+06	1.6692E-09	7.8878E+06	1.3931E-09	8.1042E+06	1.1617E-09	7.09415	3	1968
8.3447E+06	9.4882E-10	8.5852E+06	7.7426E-10	8.9218E+06	5.7223E-10	7.09415	3	1969
9.1864E+06	4.4274E-10	9.4509E+06	3.4195E-10	9.7395E+06	2.5740E-10	7.09415	3	1970
9.9078E+06	2.1789E-10	1.0076E+07	1.8430E-10	1.0220E+07	1.5956E-10	7.09415	3	1971
1.0389E+07	1.3476E-10	1.0557E+07	1.1373E-10	1.0749E+07	9.3579E-11	7.09415	3	1972
1.1014E+07	7.1439E-11	1.1110E+07	6.4843E-11	1.1303E+07	5.2996E-11	7.09415	3	1973
1.1447E+07	4.5593E-11	1.1615E+07	3.8216E-11	1.1735E+07	3.3771E-11	7.09415	3	1974
1.1976E+07	2.6081E-11	1.2000E+07	0.		709415	3	1975	
0.	1.7000E+07	0	1	60709415	3	1976		
60	2			709415	3	1977		
0.	0.	1.6018E+04	1.6946E-08	4.8054E+04	4.9298E-08	7.09415	3	1978
9.6108E+04	9.3796E-08	1.4416E+05	1.3385E-07	1.9222E+05	1.6952E-07	7.09415	3	1979

2.8832E+05	2.3028E-07	4.0045E+05	2.8436E-07	5.1258E+05	3.2419E-07709415	3	1980
6.4072E+05	3.5480E-07	7.8488E+05	3.7444E-07	9.2904E+05	3.8174E-07709415	3	1981
1.1373E+06	3.7656E-07	1.3775E+06	3.5571E-07	2.6269E+06	1.8703E-07709415	3	1982
2.8832E+06	1.5768E-07	3.1235E+06	1.3338E-07	3.3798E+06	1.1075E-07709415	3	1983
3.6361E+06	9.1628E-08	3.9084E+06	7.4538E-08	4.2608E+06	5.6602E-08709415	3	1984
4.4370E+06	4.9056E-08	4.6292E+06	4.2016E-08	4.8695E+06	3.4556E-08709415	3	1985
5.2906E+06	2.3749E-08	5.4781E+06	1.9535E-08	5.6543E+06	1.6228E-08709415	3	1986
5.8626E+06	1.2992E-08	6.1082E+06	9.9685E-09	6.3968E+06	7.2796E-09709415	3	1987
6.5674E+06	6.0515E-09	6.7115E+06	5.1320E-09	6.8557E+06	4.3704E-09709415	3	1988
7.0159E+06	3.6527E-09	7.1761E+06	3.0468E-09	7.3522E+06	2.4907E-09709415	3	1989
7.4549E+06	2.2079E-09	7.6886E+06	1.6858E-09	7.8969E+06	1.3198E-09709415	3	1990
7.9930E+06	1.1808E-09	8.1042E+06	1.0703E-09	8.3447E+06	8.7393E-10709415	3	1991
8.5852E+06	7.1299E-10	8.8978E+06	5.3910E-10	9.1623E+06	4.1964E-10709415	3	1992
9.4269E+06	3.2619E-10	9.7154E+06	2.4737E-10	9.8838E+06	2.1035E-10709415	3	1993
1.0052E+07	1.7876E-10	1.0172E+07	1.5972E-10	1.0437E+07	1.2298E-10709415	3	1994
1.0653E+07	9.9512E-11	1.0870E+07	8.0439E-11	1.1110E+07	6.3427E-11709415	3	1995
1.1375E+07	4.8768E-11	1.1519E+07	4.2234E-11	1.1663E+07	3.6547E-11709415	3	1996
1.1808E+07	3.1621E-11	1.1976E+07	2.6679E-11	1.2000E+07	0.	709415	3 1997
0.	2.0000E+07	0	0	1	65709415	3	1998
65	2	0	0	1	709415	3	1999
0.	0.	6.1503E+03	3.6225E-08	1.2301E+04	6.9406E-08709415	3	2000
1.8451E+04	9.9768E-08	2.4601E+04	1.2746E-07	3.6902E+04	1.7544E-07709415	3	2001
4.3052E+04	1.9627E-07	5.5353E+04	2.3182E-07	6.7654E+04	2.6078E-07709415	3	2002
8.6105E+04	2.9421E-07	1.0456E+05	3.1721E-07	1.2301E+05	3.3264E-07709415	3	2003
1.4761E+05	3.4420E-07	1.7836E+05	3.4880E-07	2.4163E+05	3.4185E-07709415	3	2004
3.8132E+05	3.1399E-07	4.3667E+05	3.1029E-07	4.3932E+05	3.1033E-07709415	3	2005
4.9818E+05	3.0727E-07	5.7715E+05	3.1032E-07	5.9043E+05	3.1029E-07709415	3	2006
8.5667E+05	3.2448E-07	1.0324E+06	3.2732E-07	1.2521E+06	3.2050E-07709415	3	2007
1.5376E+06	2.9875E-07	2.6798E+06	1.7362E-07	3.0093E+06	1.4202E-07709415	3	2008
3.3169E+06	1.1651E-07	3.6464E+06	9.3319E-08	3.9758E+06	7.4168E-08709415	3	2009
4.3273E+06	5.7581E-08	4.6172E+06	4.6594E-08	4.8337E+06	3.9526E-08709415	3	2010
5.0501E+06	3.3540E-08	5.2906E+06	2.7893E-08	5.5551E+06	2.2700E-08709415	3	2011
5.8196E+06	1.8442E-08	6.1505E+06	1.4101E-08	6.4360E+06	1.1252E-08709415	3	2012
6.7655E+06	8.6101E-09	7.0730E+06	6.6921E-09	7.4025E+06	5.1046E-09709415	3	2013
7.7979E+06	3.5528E-09	7.9517E+06	3.0259E-09	8.1713E+06	2.3996E-09709415	3	2014
8.4130E+06	1.8520E-09	8.6326E+06	1.4574E-09	8.8737E+06	1.1087E-09709415	3	2015
9.1383E+06	8.1580E-10	9.4014E+06	5.9507E-10	9.5552E+06	4.9513E-10709415	3	2016
9.7090E+06	4.0716E-10	9.8847E+06	3.2546E-10	1.0060E+07	2.5860E-10709415	3	2017
1.0220E+07	2.0841E-10	1.0413E+07	1.5931E-10	1.0629E+07	1.1603E-10709415	3	2018
1.0870E+07	7.9618E-11	1.0961E+07	6.8822E-11	1.1110E+07	5.9308E-11709415	3	2019
1.1375E+07	4.5988E-11	1.1663E+07	3.4808E-11	1.1808E+07	3.0270E-11709415	3	2020
1.1976E+07	2.5696E-11	1.2000E+07	0.	0	709415	3	2021
0.	0.	0.	0.	1	709415	0	2022
4.1093E+04	9.2108E+01	0	0	1	709415102	2023	
0.	0.	0.	0.	1	2709415102	2024	
2	2	0	0	1	709415102	2025	
1.0000E-05	1.00000E+00	1.00000E+05	1.00000E+00	1	709415102	2026	
2	2	0	0	1	2709415102	2027	
0.	1.0000E-05	0	0	1	709415102	2028	
16	2	0	0	1	16709415102	2029	
0.	0.	1.2500E+05	5.7408E-08	3.7500E+05	6.4296E-07709415102	2030	
6.2500E+05	4.1533E-08	8.7500E+05	1.3678E-07	1.1250E+06	8.2667E-08709415102	2031	
1.3750E+06	1.3578E-07	2.1250E+06	3.1749E-07	2.8750E+06	2.0267E-07709415102	2032	
4.3750E+06	8.8857E-08	4.6250E+06	1.1432E-07	4.8750E+06	7.8873E-08709415102	2033	
5.1250E+06	1.1382E-07	6.0000E+06	2.9952E-08	7.1250E+06	1.4976E-08709415102	2035	
7.2140E+06	0.	0.	0.	0.	709415102	2036	
0.	1.00000E+05	0	0	1	16709415102	2037	
16	2	0	0	1	709415102	2038	
0.	0.	1.2500E+05	5.7408E-08	3.7500E+05	6.4296E-07709415102	2039	

