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ENDF 111

LOS ALAMOS SCIENTIFIC LABORATORY
of the
University of California
LOS ALAMOS • NEW MEXICO

ENDF/B Format Requirements
for Shielding Applications

UNITED STATES
ATOMIC ENERGY COMMISSION
CONTRACT W-7405-ENG. 36

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Printed in the United States of America. Available from
Clearinghouse for Federal Scientific and Technical Information
National Bureau of Standards, U. S. Department of Commerce
Springfield, Virginia 22151

Price: Printed Copy \$3.00; Microfiche \$0.65

LA-3801
UC-80, REACTOR
TECHNOLOGY
TID-4500

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LOS ALAMOS SCIENTIFIC LABORATORY
of the
University of California
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Report written: April 1967

Report distributed: December 11, 1967

ENDF/B Format Requirements
for Shielding Applications

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89897

IN REPLY
REFER TO:

January 9, 1968

TO: Holders of LA-3801

SUBJECT: ERRATA TO LA-3801

Page 8, Line 2: Change "increasing" to "decreasing."

Appendix A: In file 14 of the sample data, all values of E_1 , EG, and ES should be multiplied by 10^6 to convert from MeV to eV.

ENDF/B FORMAT REQUIREMENTS FOR SHIELDING APPLICATIONS

compiled and edited by

Donald J. Dudziak

ABSTRACT

The present (April 1967) Evaluated Nuclear Data File/B (ENDF/B) format has been designed primarily to satisfy the requirements of nuclear reactor core neutronics calculations. This paper proposes extensions of the format specifications to include data of interest for shielding calculations for reactor and other applications. Alternate methods of presenting the necessary data are discussed, and the correspondence of ENDF/B to the United Kingdom Atomic Energy Authority Nuclear Data File (UK) is maintained wherever practical. In the case of photon interactions, detailed formats are recommended for cross sections for secondary angular, energy, and energy-angle distributions, and for incoherent and coherent scattering atomic form factors. Format recommendations for photon production data include those for photon angular distributions, photon production multiplicities, and photon energy-angle distributions.

1. INTRODUCTION

At its inception, the Evaluated Nuclear Data File/B (ENDF/B) was intended primarily to store data of interest to nuclear reactor core designers. An ENDF/B tape now exists with such data. However, the data are also of considerable interest for analysis of nuclear reactor and weapons shielding, as well as for other shielding applications. With this fact in mind, the Cross Section Evaluation Working Group (CSEWG), which is charged with the responsibility for implementing the ENDF/B, formed a Shielding Subcommittee. This Subcommittee was charged with several tasks, among which were to:

- a. Recommend additional types of data to be added to ENDF/B for shielding and specify the detailed formats for storing such data. The formats should conform as nearly as possible to the existing ENDF/B formats.
- b. Examine data presently on the ENDF/B tape to determine its completeness from the point of view of shielding calculations.

- c. Recommend a list of priorities for data on materials of interest to shielders, to be evaluated and translated to the ENDF/B format.
- d. Recommend data checking and processing codes required for shielding data to be placed on the ENDF/B tape.
- e. Recommend calculational and experimental programs for testing the shielding data.

The Shielding Subcommittee held its initial meeting on February 6, 1967, at Oak Ridge National Laboratory. At this meeting, a cooperative effort with the Department of Defense (Defense Atomic Support Agency) was explored. As a result of the meeting, the Los Alamos Scientific Laboratory accepted the first task listed above: to recommend types of shielding data to be included on the ENDF/B and to devise formats for these data. The completion of this task is documented in this paper, a rough draft of which was submitted to the Shielding Subcommittee at its second meeting on April 7, 1967, at the U.S. Naval Radiological Defense Laboratory.

Two general classifications of shielding data are presented for the ENDF/B in this report. Section 2 contains the data types and formats for photon interactions (i.e., reactions in which a photon is the primary, which include the ordinary atomic interactions as well as photonuclear reactions). Section 3 contains the data types and formats for photon production induced by neutron reactions. The discussions in these sections assume a familiarity on the part of the reader with the present ENDF/B format and terminology.

2. PHOTON INTERACTIONS

Five files, the first four of which are analogous to Files 3 through 6, are allowed for photon interactions:

<u>File</u>	<u>Description</u>
23	"Smooth" cross sections
24	Secondary angular distributions
25	Secondary energy distributions
26	Secondary energy-angle distributions
27	Form factor data for incoherent and coherent scattering.

Optionally, some of the photon interaction data could have been included in Files 3 through 6. The format of these files seems to be adequate to handle the data, so the choice was based primarily upon (1) convenience in handling the data with processing codes, and (2) a desire not to "clutter" Files 3 through 6 with photon data of no interest for core neutronic calculations. An arbitrary decision was thus made to include the photon interaction data in separate files.

For Compton scatter at the higher energies (≥ 1 MeV), the energy and angular distribution files are not essential because a simple analytical representation of these distributions is available. However, they have been included for the convenience of those who prefer to have the data tabulated and for possible use in other (γ, x) reactions, such as (γ, f) and (γ, n) . Also, the format is thus kept as consistent as possible with the United Kingdom Atomic Energy Authority data file (UK).¹ If data for incoherent and coherent scatter energy-angle distributions are to be given, they should be presented as form factors in any event (see discussion of File 27 in Section 2.5).

It is recommended, again consistent with UK, that all total and partial cross sections be specified at the same energy points wherever the energy ranges intersect. The total cross section must be given at all energy points for which one of its partial components is given. It is further recommended that the minimum energy range considered for the primarily "atomic" interactions (i.e., photoelectric, Compton, pair production, and perhaps Rayleigh effects) be that used by Grodstein² and the UK Photon Data Library,³ viz., 0.01 to 20 MeV. For those materials given by Hubbell and Berger,⁴ their data up to 100 MeV, and in some cases 10 GeV, should be used. Sources of data, scope of data, and other general information should be included in File 1, MT = 451.

2.1 File 23: "Smooth" Cross Sections

Recommended reaction-type numbers:

<u>MT</u>	<u>Symbol</u>	<u>Description</u>
501		total
502		elastic or coherent (Rayleigh) scatter
503		nonelastic = total-elastic
504		inelastic or incoherent (Compton) scatter
516	$(\gamma, 2\gamma)$	pair production
602	(γ, e^-)	photoelectric effect
531		energy "absorption" (or kerma)
518	(γ, f)	photofission
532	(γ, n)	photoneutron
533		total photonuclear
etc.		

Choosing the 500 and 600 series of reaction-type numbers for photon interactions departs from the UK system, in order to have an internally consistent scheme. Following the UK analogy with neutron reactions would give the following system in ENDF/B:

<u>MT</u>	<u>Photon Interaction Symbol</u>	<u>Analogous Neutron Reaction Symbol</u>	<u>Photon Interaction Description</u>
1			total
2			elastic
3			nonelastic
16	$(\gamma, 2\gamma)$	$(n, 2n)$	pair production
102	(γ, e^-)	(n, γ)	photoelectric

Logical perplexities then occur in trying to find an analogy for the energy absorption cross section (kerma cross section) or in deciding on a neutron analogy for the (γ, n) reaction. Hopefully, the scheme adopted will also simplify the processing codes. The last two digits of the 500 series might

be kept in some approximate relation to the analogous neutron reaction-type numbers, however, for purely mnemonic purposes. The correspondence is:

<u>Neutron Reactions</u>	<u>Photon Interactions</u>
1-100	501-600
101-150	601-650

If the kerma is desired for each partial cross section, the UK system could be used; that is, add 200 to the MT number of an interaction for its kerma cross section MT number.

The structure of File 23 is identical to File 3, which is reproduced here for illustrative purposes.

Structure of a File 23 Section

```
[MA1, 23, MT/ZA, AWR; 0, LP3, 0, 0]H0AD
[MAT, 23, MT/T, Q; LT, 0; NR, NP/E int/σ(E)]TAB1
[MAT, 23, 0/0.0, 0.0; 0, 0; 0, 0]SEND
```

2.2 File 24: Secondary Angular Distributions

The general structure of File 4 appears to be adequate for photon interactions. The angular distribution for Compton scatter can be represented by its energy-dependent Legendre coefficients, if desired for photon slowing-down or transport calculations. A transfer matrix from the (C) to (L) system (or its inverse) need not be provided because the processing codes should have subroutines to construct such matrices.

For the case where the secondary particle is a photon, the following convention is adopted:

- (1) LCT = 1 [data is given in (L) system]
- (2) LVT = 0 [transformation matrix not given].

2.3 File 25: Secondary Energy Distributions

Again, the structure of the analogous File 5 appears to be entirely adequate.

2.4 File 26: Secondary Energy-Angular Distributions

This file is analogous to File 6, the secondary energy-angular distribution file for neutrons. It is not completely necessary for Compton scatter, since the energy-angular relationships can be generated analytically. Again, in the case where the secondary particle is a photon, the convention is adopted that LCT = 1. Where a secondary particle

other than a photon is emitted, either the (L) or the (C) system may be used. Doing this will require the processing codes to provide an energy-independent transfer matrix from either system to the other. It is recommended that this requirement on the processing codes be incorporated in File 6 also.

2.5 File 27: Form Factors for Coherent and Incoherent Scattering

The present ENDF/B system allows two alternatives for storing angular distribution data. One is by probability per unit $\cos \theta$ vs $\cos \theta$, and the other is by Legendre coefficients. Actually, neither of these is a "natural" method for photons. The natural method for storing photon distributions would be atomic form factors. We discuss these briefly below.

2.5.1 Incoherent Scattering. The cross section for incoherent scattering is given by

$$\frac{d\sigma_i}{d\mu} = Z K(q;Z) \frac{d\sigma_c}{d\mu},$$

where $d\sigma_c/d\mu$ is the Klein-Nishina cross section, which can be written in closed form. The factor $K(q;Z)$ is the form factor. The quantity q is the momentum of the recoil electron (in units of $m_0 c$),

$$q = \alpha \left[1 + \left(\frac{\alpha'}{\alpha} \right)^2 - \left(2\mu \frac{\alpha'}{\alpha} \right) \right]^{\frac{1}{2}}$$

where

$$\alpha = E/m_0 c^2$$

and

$$\mu = \cos \theta.$$

Obviously, the angular distribution can easily be calculated, given a table of $K(q;Z)$. Since K is a smoothly varying function of q , it can be represented by a reasonably small array of numbers. The quantities $K(q;Z)$ will be tabulated as a function of q in File 27. The user presumably will have subroutines available for calculating q for energies and angles of interest and for calculating Klein-Nishina cross sections. He will then generate his cross sections for the appropriate cases by calculating q 's, looking up the appropriate values of K , and substituting them into the above formula.

2.5.2. Coherent Scattering. The coherent scattering cross section is given by

$$\frac{d\sigma_{\text{coh}}}{d\mu} = \pi r_0^2 Z^2 (1 - \mu^2) G(q;Z),$$

where

$q = \alpha[2(1 - \mu)]^{1/2}$, the recoil momentum of the atom (in units of $m_0 c$), and
 $r_0 = e^2/m_0 c^2$, the classical radius of the electron.

The quantity $G(q;Z)$ is another form factor, which also is easily tabulated. At high (≥ 1 MeV) energies, G approaches zero.

An alternative way of presenting the photon scattering data, then, would be to tabulate form factors and provide processing codes to generate the cross sections from this information. The calculation is quite straightforward and allows the user to generate all his scattering data from a relatively small table of numbers. The computation required to translate the form factors into cross sections is quite straightforward. The incoherent and coherent scattering data should always be presented as form factors, regardless of whether data are included in Files 24, 25, or 26.

2.5.3. Section Structure. The structure of a section is then very similar to File 3 (and 23), as follows:

```
[MAT, 27, MT/ZA, AWR; 0, 0; 0, 0]HEAD
[MAT, 27, MT/0.0, Z; 0, 0; NR, NP/q int/H(q;Z)]TAB1
[MAT, 27, 0/0.0, 0.0; 0, 0; 0, 0]SEND
```

Here, $H(q;Z)$ can be either $G(q;Z)$ or $K(q;Z)$ for incoherent and coherent scattering, respectively.

Z is entered in floating-point format. Values of G and K should be entered for the respective entire energy range for which integrated incoherent and coherent cross sections are given in File 23.

3. PHOTON PRODUCTION DATA

Three files analogous to Files 4, 5, and 6 are allotted to photon production data, a system somewhat consistent with the UK data file. The files are allotted as follows:

File	Description
14	photon angular distributions
15	photon production multiplicities
16	photon energy-angle distributions

In general, the formats follow the record types used for the neutron interaction files already in existence (i.e., CONT, HEAD, LIST, TAB1, TAB2, etc.).

Thus, the descriptions of Files 4 and 5 have been used as much as possible in the discussions to follow.

Reaction-type (MT) numbers for photon production data are the same as those assigned for Files 1 through 7. In order to maintain as closely as possible a one-one correspondence of MT number with corresponding PCN numbers in the UK file, MT numbers 5 to 15 are activated as follows:

MT	(n,n') to the	1st excited state
5	"	1st
6	"	2nd
7	"	3rd
8	"	4th
9	"	5th
10	"	6th
11	"	7th
12	"	8th
13	"	9th
14	"	10th
15	(n,n') to the	continuum

Reaction-type (MT) numbers 51 through 80 are assigned for excitation to states 11 through 40, respectively; MT = 4 remains the total inelastic scatter cross section. For MT = 15, the word "continuum" is used loosely to include everything not accounted for in MT = 5 through 14 and 51 through 80. Data are not required to be given for MT = 5 through 15 and 51 through 80, but their inclusion is an aid to the evaluator. Data for MT = 4 must be included, however, regardless of whether data are present for MT = 5 through 15 and 51 through 80.

Since photon production data are given as multiplicities instead of cross sections, the corresponding neutron cross sections must be given in Files 2 and/or 3 for every MT number used in the photon data.

A sample set of photon production data is given in Appendix A. These data are translations of sodium data evaluated by Drake et al.⁵ They placed the data in their extension of the UK format. The information for File 15 was deduced from the de-excitation diagram in Vol. II of their report. All the data are from a preliminary release and are included for illustrative purposes only.

3.1 File 14: Photon Angular Distributions

In general, the format follows that of File 4, with the principal exception being that angular distributions must be given separately for each discrete photon energy, for the continuous spectrum, or for both. Angular distributions are always given as normalized probability densities, either in tabular form or as Legendre coefficients $a_\ell(E)$. In the Legendre expansion

$$\frac{d\sigma(E_Y, E, \mu)}{d\mu} = \sigma(E_Y + E) \sum_{\ell=0}^{NL} \frac{2\ell+1}{2} a_\ell(E) P_\ell(\mu),$$

E is the neutron energy and $\sigma(E_Y + E)$ is the cross section to produce a photon of energy E_Y . It is understood that $a_0(E) = 1$. The function $\sigma(E_Y + E)$ is generated from Files 2, 3, and 15; it may be a delta function in E_Y . For photons there is, of course, no distinction made between the laboratory and center-of-mass coordinate systems. This file assumes separability of the photon energy and angular distributions for the continuous spectrum. If this is not the case, a File 16 (analogous to File 6) must be used instead of Files 14 and 15. (Note that File 14 implicitly specifies an energy-angle distribution for discrete photons, and therefore File 16 is required only for the continuous spectrum.)

As usual, sections are ordered by increasing reaction-type (MT) numbers. Let us define the following quantities:

LTT = 1, data are given as Legendre coefficients.

= 2, data are given as a tabulation.

LI = 0, distribution is not isotropic.

= 1, distribution is isotropic.

ND = number of discrete photon energies for which an angular distribution is given.

NC = number (0 or 1) of continuous photon energy spectra for which an angular distribution is given. The continuous spectrum must appear last in the section. If NC = 1, a continuous spectrum must necessarily appear in File 15.

NE = number of neutron energy points given.

NP = number of tabulated points for $p(\mu, E_1)$ as a function of μ .

NL = highest value of ℓ required at each and every photon energy.

NR = number of interpolates.

ES = energy of the state excited to produce the photon of energy EG_i . If all levels which contain EG_i in their cascade are considered,

ES = 0.0 is used. Thus, for MT = 4, one will usually have ES = 0.0. For MT = 5 through 14, ES will be the energy of the respective excited level. (Note that ES must be constant throughout any section.) For radiative capture, ES may be used for the excitation energy.

EG_i = i th discrete photon energy.

If LI = 1, then all photons for the reaction type (MT) in question are assumed to be isotropic. This is a flag which processing codes can sense, thus avoiding the necessity to enter needless data on the tape. In this case, the section is composed of the single card in addition to the SEND card:

[MAT, 14, MT/ZA, AWR; LI, LTT, ND, NC]HEAD

where LI = 1 and LTT = 1 or 2. Depending upon the value of LTT, the processing codes can easily construct an isotropic distribution either as a trivial Legendre expansion or as a short tabulation.

If LI = 0, there are two possible structures for a section, depending upon the value of LTT, but the section always starts with HEAD and TAB2 records of the form:

[MAT, 14, MT/ZA, AWR; LI, LTT; ND, NC]HEAD

[MAT, 14, MT/ES, EG_1 ; 0, 0; NR, NE/E int]TAB2

Here LI = 0. For a continuous spectrum, $EG_1 \triangleq 0.0$.

3.1.1. Legendre Coefficients (LTT = 1). The structure of a section is

[MAT, 14, MT/ZA, AWR; 0, 1; ND, NC]HEAD

Then ND sets of records as follows:

[MAT, 14, MT/ES, EG_1 ; 0, 0; NR, NE/E int]TAB2

[MAT, 14, MT/0.0, E_1 ; 0, 0; NL, 0/ $a_\ell(E_1)$]LIST

[MAT, 14, MT/0.0, E_2 ; 0, 0; NL, 0/ $a_\ell(E_2)$]LIST

.

.

[MAT, 14, MT/0.0, E_{NE} ; 0, 0; NL, 0/ $a_\ell(E_{NE})$]LIST

If NC = 1, there is then a set of records for the continuous spectrum, as follows:

[MAT, 14, MT/0.0, 0.0; 0, 0; NR, NE/E int]TAB2

[MAT, 14, MT/0.0, E_1 ; 0, 0; NL, 0/ $a_\ell(E_1)$]LIST

.

.

[MAT, 14, MT/0.0, E_{NE} ; 0, 0; NL, 0/ $a_\ell(E_{NE})$]LIST

and finally

[MAT, 14, 0/0.0, 0.0; 0, 0; 0, 0]SEND

Note that the ND sets of data for discrete photons should be ordered in increasing magnitude of EG_i . Also, the structure can be viewed more concisely by noting that it is the same for a continuous or a discrete spectrum, if we define $EG_i \equiv 0.0$. An angular distribution (or the flag $LI = 1$) is required for every discrete photon or photon energy distribution for which multiplicity data are given in File 15. The EG_i for discrete photons should, of course, be consistent with those given in File 15 (explicitly under Option 1 of File 15 and implicitly under Option 2 of File 15).

3.1.2. Tabulation (LTT = 2). The structure of a section is:

[MAT, 14, MT/ZA, AWR; 0, 2; ND, NC]HEAD

Then ND sets of records as follows:

[MAT, 14, MT/ES, EG_1 ; 0, 0; NR, NE/E int]TAB2

[MAT, 14, MT/0.0, E_1 ; 0, 0; NR, NP/ μ int/ $p(\mu, E_1)$]TAB1

[MAT, 14, MT/0.0, E_2 ; 0, 0; NR, NP/ μ int/ $p(\mu, E_2)$]TAB1

.

.

.

[MAT, 14, MT/0.0, E_{NE} ; 0, 0; NR, NP/ μ int/ $p(\mu, E_{NE})$]TAB1

If $NC = 1$, there is then a set of records for the continuous spectrum as follows:

[MAT, 14, MT/0.0, 0.0; 0, 0; NR, NE/E int]TAB2

[MAT, 14, MT/0.0, E_1 ; 0, 0; NR, NP/ μ int/ $p(\mu, E_1)$]TAB1

.

.

.

[MAT, 14, MT/0.0, E_{NE} ; 0, 0; NR, NP/ μ int/ $p(\mu, E_{NE})$]TAB1

and finally,

[MAT, 14, 0/0.0, 0.0; 0, 0; 0, 0]SEND

3.2 File 15: Photon Production Multiplicities

Data for File 15 may be entered in either of two options. The first option is a system analogous to File 5 but gives the photon production multiplicities instead of normalized energy distributions. The second option is a scheme especially suited to photon production from the de-excitation of specific levels, presenting the data in a quite concise form.

For example, data might be provided under Option 2 for $MT = 5$ through 14 and 51 through 80 and

under Option 1 for $MT = 15$ and $MT = 102$ (in Appendix A, this is done for the sample case of sodium). Data for $MT = 4$ (total inelastic) could be entered under Option 2 or left for the processing codes to construct from the data for $MT = 5$ through 15 and 51 through 80.

Let us define a parameter

$L\phi = 1$, data are presented according to Option 1.

$= 2$, data are presented according to Option 2.

3.2.1. Multiplicities for Photon Production (Option 1, $L\phi = 1$). With this option, we follow File 5, the principal exception being that photon energy distributions are not normalized to unity (probability densities) but rather are multiplicities (photons/eV-event). Also, new laws may be added to those in File 5; e.g., for the prompt fission gamma-ray spectrum.

The density functions $p(E' \leftarrow E)$ of File 5 are replaced by photon yield functions $y(E_Y \leftarrow E)$ such that

$$\int_0^\infty dE_Y y(E_Y \leftarrow E) = Y(E) \quad (\text{photons/event}),$$

the total photon yield for an interaction at neutron energy E . The differential photon production cross section is then obtained from

$$\frac{d\sigma(E_Y \leftarrow E)}{dE_Y} = \sigma(E) y(E_Y \leftarrow E) \quad (\text{barns-photons-eV}^{-1}),$$

where $\sigma(E)$ is the cross section for the reaction type being considered, as determined by Files 2 and 3. The energy distribution is broken into NK portions, $f_k(E_Y \leftarrow E)$, each following a different law or the same law with different parametric representations. A superposition gives

$$y(E_Y \leftarrow E) = \sum_{k=1}^{NK} y_k(E) f_k(E_Y \leftarrow E).$$

This subdivision can be used for both partial distributions (e.g., superposition of several continuous photon spectra) and different distributions in different energy ranges. The $f_k(E_Y \leftarrow E)$ are necessarily normalized to unity, and the $y_k(E)$ contain the multiplicities. For example, where $f_k(E_Y \leftarrow E)$ follows Law 2 (i.e., a delta function in E_Y) as

given in File 5, then it will of necessity be normalized to unity. The photon multiplicities then appear in the $y_k(E)$ function. In using Law 1 (LF = 1), the $f_1(E_Y + E) \equiv g(E_Y + E)$ function is normalized to unity.

As before, sections are ordered by increasing reaction-type (MT) numbers. Recall:

EG_i = i th discrete photon energy (eV).

ES = energy of the state excited to produce the photon of energy EG_i .

NK = number of partial energy distributions.

NE = number of E values in a tabulation of $g(E_Y + E)$

ND = number of discrete photon energies for which photon yields are given.

The number of laws required to specify the continuous spectrum is determined from NK-ND.

The structure of a section is then:

```
[MAT, 15, MT/ZA, AWR; L0 = 1, 0; ND, NK]HEAD
[MAT, 15, MT/0.0, 0.0; 0, 0; NR, NP/E int/Y(E)]TAB1
<subsection for k = 1>
<subsection for k = 2>
```

<subsection for k = NK>

```
[MAT, 15, 0/0.0, 0.0; 0, 0; 0, 0]SEND
```

The structure of a subsection depends upon the value of LF but always starts with a record of the form

```
[MAT, 15, MT/ES, EG_i; 0, LF; NR, NP/E int/y_k(E)]TAB1
```

Except in the case of Law 1 (LF = 1), where $EG_i = 0.0$ is used, EG_i refers to the i th discrete gamma energy. (Law 1 always implies a continuous photon spectrum.) The total yield, $Y(E)$, is a check number which should agree with the sum of the integrals over secondary energies; i.e.,

$$Y(E) = \sum_{k=1}^{NK} y_k(E).$$

SUBSECTION STRUCTURES

LF = 1, Arbitrary Tabulated Function

```
[MAT, 15, MT/0.0, 0.0; 0, 1; NR, NP/E int/y_k(E)]TAB1
[MAT, 15, MT/0.0, 0.0; 0, 0; NR, NE/E int]TAB2
[MAT, 15, MT/0.0, E_1; 0, 0; NR, NP/E_Y int/g(E_Y + E_1)]TAB1
[MAT, 15, MT/0.0, E_2; 0, 0; NR, NP/E_Y int/g(E_Y + E_2)]TAB1
```

```
[MAT, 15, MT/0.0, E_NE; 0, 0; NR, NP/E_Y int/g(E_Y + E_NE)]TAB1
```

In this case, $y_k(E)$ should indicate the probability of this law occurring for any given neutron energy, E , times the multiplicity for that energy; $g(E_Y + E)$ would give the normalized photon yield probabilities of the reaction. For example, if σ_{CO} is the cross section for inelastic scatter to the continuum and σ_4 is the total inelastic cross section, then

$$Y(E) \cdot \frac{\sigma_{CO}(E)}{\sigma_4(E)} = y_k(E) \text{ for } MT = 4, LF = 1.$$

LF = 2, Discrete Final Energy

```
[MAT, 15, MT/ES, EG_i; 0, 2; NR, NP/E int/y_k(E)]TAB1
```

In this case, $y_k(E)$ should be the photon yield (photons/event) of EG_i electron-volt photons, for a reaction occurring at E electron volts.

3.2.2. Transition Probability Arrays for Photon Production (Option 2, $L0 = 2$).

With this option, we merely list the level energies, the de-excitation transition probabilities, and, where necessary, the conditional photon emission probabilities. Given this information, the photon energies and their multiplicities can readily be calculated for any given level. Also, photon production cross sections can easily be determined for any given level from the neutron interaction cross section for exciting that level in conjunction with the transition probability arrays. Appendix B shows in more detail how this can be accomplished. Similarly, multiplicities and photon production cross sections can be constructed for the total cascade (e.g., for total inelastic scatter). The transition and photon emission probability data

given for any level are for photons originating at that level only; any further cascading is determined from the data for the lower levels.

Let us define

LG = 1, simple case (all transitions are γ emission).

= 2, complex case (internal conversion or other competing processes occur).

NS = number of levels below the present one, including the ground state. (The present level is also uniquely defined by the MT number and by its energy level).

NT = number of transitions for which data are given in a list to follow (i.e., number of nonzero transition probabilities). $NT \leq NS$.

ES_i = energy of the *i*th state, $i = 0(1)NS$. (ES₀ = 0.0, the ground state.)

TP_i = probability of a direct transition from level NS to level *i*, $i = 1(1)NS-1$.

GP_i = probability that, given a transition from level NS to level *i*, the transition is a photon transition (i.e., the conditional probability of photon emission).

Note that each level can be identified by its NS number. Then the energy of a photon from a transition to level *i* is given by $E_Y = ES_{NS} - ES_i$, and its multiplicity is given by $y(E_Y + E) = (TP_i)(GP_i)$. It is implicitly assumed that the transition probability array is independent of incident neutron energy.

The structure of a section in File 15 under Option 2 is then given by

[MAT, 15, MT/ZA, AWR; L0 = 2, LG; NS, 0]HEAD

where, if LG = 1, the array is given by

[MAT, 15, MT/ES_{NS}, 0.0; 0, 0; 2*NT, NT/(ES_i, TP_i)]LIST

or, if LG = 2, by

[MAT, 15, MT/ES_{NS}, 0.0; 0, 0; 3*NT, NT/(ES_i, TP_i, GP_i)]LIST

In either case, the last record is

[MAT, 15, 0/0.0, 0.0; 0, 0; 0, 0]SEND

The doublets (ES_i, TP_i) and triplets (ES_i, TP_i, GP_i) are given in decreasing magnitude of energy ES_i.

3.3 File 16: Photon Energy-Angle Distributions

If the photon energy dependence and angular dependence of the cross section for production of the continuous spectrum are not separable, then a file analogous to File 6 is required instead of Files 14

and 15. The energy-angle distributions for discrete photons are completely determined in File 14 and should never appear in the present file. A knowledge of the formats for Files 14 and 15 is assumed in this discussion.

Consider a non-normalized energy-angle distribution function $h(E_Y + E, \mu)$, where the angular dependence is normalized such that

$$\int_{-1}^1 d\mu h(E_Y + E, \mu) = y(E_Y + E).$$

The differential photon production cross section is then obtained from

$$\frac{\partial^2 \sigma(E_Y + E, \mu)}{\partial E_Y \partial \mu} = \sigma(E) h(E_Y + E, \mu) \quad (\text{barns-photon-eV}^{-1}),$$

where $\sigma(E)$ is the cross section for the reaction type being considered, as determined by Files 2 and 3.

As in File 14, the angular part of the distribution may be specified either in tabular form or as Legendre coefficients, $n_\ell(E_Y + E)$. The Legendre expansion is

$$h(E_Y + E, \mu) = \sum_{\ell=0}^{NL} \frac{2\ell+1}{2} n_\ell(E_Y + E) P_\ell(\mu).$$

Now consider the structure of a section for the two possible forms of the angular distribution. In either case, the section starts with a HEAD record of the form:

[MAT, 16, MT/ZA, AWR; 0, LTT; 0, 0]HEAD

3.3.1. Legendre Coefficients (LTT = 1). The second card for a section of Legendre coefficients (LTT = 1) is always a record of the form:

[MAT, 16, MT/0.0, 0.0; 0, 0; NL, 0]CONT

A typical section for LTT = 1 is then given by:

[MAT, 16, MT/ZA, AWR; 0, 1; 0, 0]HEAD

[MAT, 16, MT/0.0, 0.0; 0, 0; NL, 0]CONT

<subsection for $n_0(E_Y + E)$ >

<subsection for $n_1(E_Y + E)$ >

...

<subsection for $n_{NL}(E_Y + E)$ >

[MAT, 16, 0/0.0, 0.0; 0, 0; 0, 0]SEND

The section contains subsections for the energy distributions. The structure of a subsection is identical to the structure of a section for photon energy distributions (File 15), with the following exceptions:

- a. The SEND record is deleted,
- b. The HEAD record is changed to read
[MAT, 16, MT/0.0, 0.0; 0, 0; NK, 0]CONT,
- c. $y(E_\gamma + E)$ is replaced by $\eta_1(E_\gamma + E)$. The same normalization rules as apply to $y(E_\gamma + E)$ in File 15 apply to the $\eta_1(E_\gamma + E)$ in the present file.

3.3.2. Tabulation (LTT = 2). A typical section for LTT = 2 is then given by

```
[MAT, 16, MT/ZA, AWR: 0, 2; 0, 0]HEAD
[MAT, 16, MT/0.0, 0.0; 0, 0; NR, NA/ $\mu$  int]TAB2
  <subsection for  $h(E_\gamma + E, \mu_1)$ >
  <subsection for  $h(E_\gamma + E, \mu_2)$ >
  .
  .
  <subsection for  $h(E_\gamma + E, \mu_{NA})$ >
[MAT, 16, 0/0.0, 0.0; 0, 0; 0, 0]SEND
```

As in the case of the Legendre coefficient representation, this section in tabular form contains subsections. The structure of a subsection is identical to the structure of a section for File 15, with the following exceptions:

- a. The SEND record is deleted,
- b. The HEAD record is changed to read
[MAT, 16, MT/0.0, μ_j ; 0, 0; NK, 0]CONT
- c. $y(E_\gamma + E)$ is replaced by $h(E_\gamma + E, \mu_j)$, where each subsection is for a particular value of μ_j , $j = 1(1)NA$.

APPENDIX A

SODIUM PHOTON PRODUCTION DATA IN THE PROPOSED ENDF/B FORMAT

Presented below is a listing of the sodium photon production data of Drake et al.,⁵ as it appears after translation into the proposed ENDF/B format. For the ENDF/B File 15 data on photon multiplicities, Option 2 (transition probability arrays) was used for inelastic scatter gamma rays from the discrete levels. Option 1 (multiplicities) was used for "inelastic scatter to the continuum" (actually a pot-pourri of photons not accounted for in the discrete level data) and for radiative capture. In File 14, the angular distribution was kept in the form of a tabulation of $p(E_i, \mu)$.

The sodium data were all received in a personal communication from Drake before publication and should be regarded as preliminary. The translation appears here only to illustrate the application of the format. All translations, except the transition probability arrays, were performed with LUTE, a LASL code written in FORTRAN IV for this purpose.

SODIUM PHOTON PRODUCTION DATA IN THE ENDF/B FORMAT, TRANSLATED FROM
M. DRAKE-S FORMAT BY D.J. CUDZIAK.

1.1023E+04	2.2786E+01	0	2	1	0105914	5	1
4.3920E-01	4.3920E-01	0	0	1	19105914	5	2
19	2				105914	5	3
0.	4.5800E-01	0	0	1	21105914	5	4
21	2				105914	5	5
-1.0000E+00	4.6846E-01-9.0000E-01	4.7747E-01-8.0000E-01	4.8523E-01-105914	5	6		
-7.0000E-01	4.9214E-01-6.0000E-01	4.9880E-01-5.0000E-01	5.0404E-01-105914	5	7		
-4.0000E-01	5.0839E-01-3.0000E-01	5.1163E-01-2.0000E-01	5.1394E-01-105914	5	8		
-1.0000E-01	5.1536E-01 0.	5.1599E-01 1.0000E-01	5.1550E-01-105914	5	9		
2.0000E-01	5.1394E-01 3.0000E-01	5.1163E-01 4.0000E-01	5.0839E-01-105914	5	10		
5.0000E-01	5.0404E-01 6.0000E-01	4.9880E-01 7.0000E-01	4.9214E-01-105914	5	11		
8.0000E-01	4.8523E-01 9.0000E-01	4.7747E-01 1.0000E+00	4.6846E-01-105914	5	12		
0.	5.0000E-01	0	0	1	21105914	5	13
21	2				105914	5	14
-1.0000E+00	5.0264E-01-9.0000E-01	5.0190E-01-8.0000E-01	5.0130E-01-105914	5	15		
-7.0000E-01	5.0154E-01-6.0000E-01	5.0058E-01-5.0000E-01	5.0042E-01-105914	5	16		
-4.0000E-01	4.9997E-01-3.0000E-01	4.9995E-01-2.0000E-01	4.9998E-01-105914	5	17		
-1.0000E-01	4.9957E-01 0.	4.9963E-01 1.0000E-01	4.8986E-01-105914	5	18		
2.0000E-01	4.9998E-01 3.0000E-01	4.9995E-01 4.0000E-01	4.9997E-01-105914	5	19		
5.0000E-01	5.0042E-01 6.0000E-01	5.0058E-01 7.0000E-01	5.0154E-01-105914	5	20		
8.0000E-01	5.0130E-01 9.0000E-01	5.0190E-01 1.0000E+00	5.0264E-01-105914	5	21		
0.	1.0000E+00	0	0	1	21105914	5	22
21	2				105914	5	23
-1.0000E+00	4.7186E-01-9.0000E-01	4.8001E-01-8.0000E-01	4.8695E-01-105914	5	24		
-7.0000E-01	4.9323E-01-6.0000E-01	4.9896E-01-5.0000E-01	5.0347E-01-105914	5	25		
-4.0000E-01	5.0718E-01-3.0000E-01	5.1001E-01-2.0000E-01	5.1210E-01-105914	5	26		
-1.0000E-01	5.1348E-01 0.	5.1404E-01 1.0000E-01	5.1493E-01-105914	5	27		
2.0000E-01	5.1210E-01 3.0000E-01	5.1001E-01 4.0000E-01	5.0718E-01-105914	5	28		
5.0000E-01	5.0347E-01 6.0000E-01	4.9896E-01 7.0000E-01	4.9323E-01-105914	5	29		
8.0000E-01	4.8695E-01 9.0000E-01	4.8001E-01 1.0000E+00	4.7186E-01-105914	5	30		
0.	1.5000E+00	0	0	1	21105914	5	31
21	2				105914	5	32
-1.0000E+00	4.7174E-01-9.0000E-01	4.7982E-01-8.0000E-01	4.8688E-01-105914	5	33		
-7.0000E-01	4.9325E-01-6.0000E-01	4.9895E-01-5.0000E-01	5.0346E-01-105914	5	34		
-4.0000E-01	5.0740E-01-3.0000E-01	5.1034E-01-2.0000E-01	5.1242E-01-105914	5	35		
-1.0000E-01	5.1379E-01 0.	5.1430E-01 1.0000E-01	5.1379E-01-105914	5	36		
2.0000E-01	5.1242E-01 3.0000E-01	5.1034E-01 4.0000E-01	5.0740E-01-105914	5	37		
5.0000E-01	5.0346E-01 6.0000E-01	4.9895E-01 7.0000E-01	4.9325E-01-105914	5	38		
8.0000E-01	4.8688E-01 9.0000E-01	4.7982E-01 1.0000E+00	4.7174E-01-105914	5	39		
0.	2.0000E+00	0	0	1	21105914	5	40
21	2				105914	5	41
-1.0000E+00	4.6994E-01-9.0000E-01	4.7851E-01-8.0000E-01	4.8605E-01-105914	5	42		
-7.0000E-01	4.9283E-01-6.0000E-01	4.9886E-01-5.0000E-01	5.0361E-01-105914	5	43		
-4.0000E-01	5.0788E-01-3.0000E-01	5.1104E-01-2.0000E-01	5.1323E-01-105914	5	44		
-1.0000E-01	5.1471E-01 0.	5.1523E-01 1.0000E-01	5.1471E-01-105914	5	45		
2.0000E-01	5.1323E-01 3.0000E-01	5.1104E-01 4.0000E-01	5.0788E-01-105914	5	46		
5.0000E-01	5.0361E-01 6.0000E-01	4.9886E-01 7.0000E-01	4.9283E-01-105914	5	47		
8.0000E-01	4.8605E-01 9.0000E-01	4.7851E-01 1.0000E+00	4.6994E-01-105914	5	48		
0.	2.5000E+00	0	0	1	21105914	5	49
21	2				105914	5	50
-1.0000E+00	4.6848E-01-9.0000E-01	4.7746E-01-8.0000E-01	4.8539E-01-105914	5	51		
-7.0000E-01	4.9250E-01-6.0000E-01	4.9879E-01-5.0000E-01	5.0373E-01-105914	5	52		
-4.0000E-01	5.0826E-01-3.0000E-01	5.1160E-01-2.0000E-01	5.1389E-01-105914	5	53		
-1.0000E-01	5.1544E-01 0.	5.1596E-01 1.0000E-01	5.1544E-01-105914	5	54		
2.0000E-01	5.1389E-01 3.0000E-01	5.1160E-01 4.0000E-01	5.0826E-01-105914	5	55		
5.0000E-01	5.0373E-01 6.0000E-01	4.9879E-01 7.0000E-01	4.9250E-01-105914	5	56		
8.0000E-01	4.8539E-01 9.0000E-01	4.7746E-01 1.0000E+00	4.6848E-01-105914	5	57		
0.	3.0000E+00	0	0	1	21105914	5	58
21	2				105914	5	59
-1.0000E+00	4.6736E-01-9.0000E-01	4.7668E-01-8.0000E-01	4.8489E-01-105914	5	60		
-7.0000E-01	4.9225E-01-6.0000E-01	4.9876E-01-5.0000E-01	5.0383E-01-105914	5	61		
-4.0000E-01	5.0853E-01-3.0000E-01	5.1200E-01-2.0000E-01	5.1439E-01-105914	5	62		
-1.0000E-01	5.1599E-01 0.	5.1651E-01 1.0000E-01	5.1599E-01-105914	5	63		
2.0000E-01	5.1439E-01 3.0000E-01	5.1200E-01 4.0000E-01	5.0853E-01-105914	5	64		
5.0000E-01	5.0383E-01 6.0000E-01	4.9876E-01 7.0000E-01	4.9225E-01-105914	5	65		
8.0000E-01	4.8489E-01 9.0000E-01	4.7668E-01 1.0000E+00	4.6736E-01-105914	5	66		
0.	3.5000E+00	0	0	1	21105914	5	67

21	2			105914	5	68
-1.0000E+00	4.6658E-01	-9.0000E-01	4.7616E-01	-8.0000E-01	4.8455E-01	105914 5 69
-7.0000E-01	4.9209E-01	-6.0000E-01	4.9875E-01	-5.0000E-01	5.0390E-01	105914 5 70
-4.0000E-01	5.0870E-01	-3.0000E-01	5.1227E-01	-2.0000E-01	5.1472E-01	105914 5 71
-1.0000E-01	5.1635E-01	0.	5.1688E-01	1.0000E-01	5.1635E-01	105914 5 72
2.0000E-01	5.1472E-01	3.0000E-01	5.1227E-01	4.0000E-01	5.0870E-01	105914 5 73
5.0000E-01	5.0390E-01	6.0000E-01	4.9875E-01	7.0000E-01	4.9209E-01	105914 5 74
8.0000E-01	4.8455E-01	9.0000E-01	4.7616E-01	1.0000E+00	4.6658E-01	105914 5 75
0.	4.0000E+00	0	0	1	21105914	5 76
21	2			105914	5	77
-1.0000E+00	4.6663E-01	-9.0000E-01	4.7653E-01	-8.0000E-01	4.8469E-01	105914 5 78
-7.0000E-01	4.9216E-01	-6.0000E-01	4.9887E-01	-5.0000E-01	5.0390E-01	105914 5 79
-4.0000E-01	5.0847E-01	-3.0000E-01	5.1210E-01	-2.0000E-01	5.1465E-01	105914 5 80
-1.0000E-01	5.1615E-01	0.	5.1668E-01	1.0000E-01	5.1615E-01	105914 5 81
2.0000E-01	5.1465E-01	3.0000E-01	5.1210E-01	4.0000E-01	5.0847E-01	105914 5 82
5.0000E-01	5.0390E-01	6.0000E-01	4.9887E-01	7.0000E-01	4.9216E-01	105914 5 83
8.0000E-01	4.8469E-01	9.0000E-01	4.7653E-01	1.0000E+00	4.6663E-01	105914 5 84
0.	4.5000E+00	0	0	1	21105914	5 85
21	2			105914	5	86
-1.0000E+00	4.6635E-01	-9.0000E-01	4.7631E-01	-8.0000E-01	4.8456E-01	105914 5 87
-7.0000E-01	4.9211E-01	-6.0000E-01	4.9888E-01	-5.0000E-01	5.0395E-01	105914 5 88
-4.0000E-01	5.0854E-01	-3.0000E-01	5.1219E-01	-2.0000E-01	5.1477E-01	105914 5 89
-1.0000E-01	5.1627E-01	0.	5.1682E-01	1.0000E-01	5.1627E-01	105914 5 90
2.0000E-01	5.1477E-01	3.0000E-01	5.1219E-01	4.0000E-01	5.0854E-01	105914 5 91
5.0000E-01	5.0395E-01	6.0000E-01	4.9888E-01	7.0000E-01	4.9211E-01	105914 5 92
8.0000E-01	4.8456E-01	9.0000E-01	4.7631E-01	1.0000E+00	4.6635E-01	105914 5 93
0.	5.0000E+00	0	0	1	21105914	5 94
21	2			105914	5	95
-1.0000E+00	4.6627E-01	-9.0000E-01	4.7619E-01	-8.0000E-01	4.8452E-01	105914 5 96
-7.0000E-01	4.9211E-01	-6.0000E-01	4.9888E-01	-5.0000E-01	5.0400E-01	105914 5 97
-4.0000E-01	5.0860E-01	-3.0000E-01	5.1222E-01	-2.0000E-01	5.1480E-01	105914 5 98
-1.0000E-01	5.1630E-01	0.	5.1687E-01	1.0000E-01	5.1630E-01	105914 5 99
2.0000E-01	5.1480E-01	3.0000E-01	5.1222E-01	4.0000E-01	5.0860E-01	105914 5 100
5.0000E-01	5.0400E-01	6.0000E-01	4.9888E-01	7.0000E-01	4.9211E-01	105914 5 101
8.0000E-01	4.8452E-01	9.0000E-01	4.7619E-01	1.0000E+00	4.6627E-01	105914 5 102
0.	5.5000E+00	0	0	1	21105914	5 103
21	2			105914	5	104
-1.0000E+00	4.6640E-01	-9.0000E-01	4.7617E-01	-8.0000E-01	4.8455E-01	105914 5 105
-7.0000E-01	4.9216E-01	-6.0000E-01	4.9889E-01	-5.0000E-01	5.0404E-01	105914 5 106
-4.0000E-01	5.0863E-01	-3.0000E-01	5.1218E-01	-2.0000E-01	5.1474E-01	105914 5 107
-1.0000E-01	5.1625E-01	0.	5.1684E-01	1.0000E-01	5.1625E-01	105914 5 108
2.0000E-01	5.1474E-01	3.0000E-01	5.1218E-01	4.0000E-01	5.0863E-01	105914 5 109
5.0000E-01	5.0404E-01	6.0000E-01	4.9889E-01	7.0000E-01	4.9216E-01	105914 5 110
8.0000E-01	4.8455E-01	9.0000E-01	4.7617E-01	1.0000E+00	4.6640E-01	105914 5 111
0.	6.0000E+00	0	0	1	21105914	5 112
21	2			105914	5	113
-1.0000E+00	4.6683E-01	-9.0000E-01	4.7620E-01	-8.0000E-01	4.8469E-01	105914 5 114
-7.0000E-01	4.9229E-01	-6.0000E-01	4.9890E-01	-5.0000E-01	5.0410E-01	105914 5 115
-4.0000E-01	5.0869E-01	-3.0000E-01	5.1205E-01	-2.0000E-01	5.1456E-01	105914 5 116
-1.0000E-01	5.1607E-01	0.	5.1672E-01	1.0000E-01	5.1607E-01	105914 5 117
2.0000E-01	5.1456E-01	3.0000E-01	5.1205E-01	4.0000E-01	5.0869E-01	105914 5 118
5.0000E-01	5.0410E-01	6.0000E-01	4.9890E-01	7.0000E-01	4.9229E-01	105914 5 119
8.0000E-01	4.8469E-01	9.0000E-01	4.7620E-01	1.0000E+00	4.6683E-01	105914 5 120
0.	6.5000E+00	0	0	1	21105914	5 121
21	2			105914	5	122
-1.0000E+00	4.6731E-01	-9.0000E-01	4.7641E-01	-8.0000E-01	4.8487E-01	105914 5 123
-7.0000E-01	4.9240E-01	-6.0000E-01	4.9890E-01	-5.0000E-01	5.0412E-01	105914 5 124
-4.0000E-01	5.0864E-01	-3.0000E-01	5.1189E-01	-2.0000E-01	5.1434E-01	105914 5 125
-1.0000E-01	5.1585E-01	0.	5.1651E-01	1.0000E-01	5.1585E-01	105914 5 126
2.0000E-01	5.1434E-01	3.0000E-01	5.1189E-01	4.0000E-01	5.0864E-01	105914 5 127
5.0000E-01	5.0412E-01	6.0000E-01	4.9890E-01	7.0000E-01	4.9240E-01	105914 5 128
8.0000E-01	4.8487E-01	9.0000E-01	4.7641E-01	1.0000E+00	4.6731E-01	105914 5 129
0.	7.0000E+00	0	0	1	21105914	5 130
21	2			105914	5	131
-1.0000E+00	4.6794E-01	-9.0000E-01	4.7677E-01	-8.0000E-01	4.8511E-01	105914 5 132
-7.0000E-01	4.9252E-01	-6.0000E-01	4.9890E-01	-5.0000E-01	5.0411E-01	105914 5 133
-4.0000E-01	5.0855E-01	-3.0000E-01	5.1168E-01	-2.0000E-01	5.1407E-01	105914 5 134
-1.0000E-01	5.1555E-01	0.	5.1623E-01	1.0000E-01	5.1555E-01	105914 5 135
2.0000E-01	5.1407E-01	3.0000E-01	5.1168E-01	4.0000E-01	5.0855E-01	105914 5 136
5.0000E-01	5.0411E-01	6.0000E-01	4.9890E-01	7.0000E-01	4.9252E-01	105914 5 137
8.0000E-01	4.8511E-01	9.0000E-01	4.7677E-01	1.0000E+00	4.6794E-01	105914 5 138
0.	7.5000E+00	0	0	1	21105914	5 139

21	2			105914	5	140
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-7.0000E-01	4.9265E-01	6.0000E-01	4.9890E-01	5.0000E-01	5.0409E-01	105914
-4.0000E-01	5.0840E-01	3.0000E-01	5.1143E-01	2.0000E-01	5.1374E-01	105914
-1.0000E-01	5.1519E-01	0.	5.1587E-01	1.0000E-01	5.1519E-01	105914
2.0000E-01	5.1374E-01	3.0000E-01	5.1143E-01	4.0000E-01	5.0840E-01	105914
5.0000E-01	5.0409E-01	6.0000E-01	4.9890E-01	7.0000E-01	4.9265E-01	105914
8.0000E-01	4.8542E-01	9.0000E-01	4.7727E-01	1.0000E+00	4.6870E-01	105914
0.	8.0000E+00	0	0	1	21105914	5
21	2			105914	5	149
-1.0000E+00	4.6960E-01	9.0000E-01	4.7791E-01	8.0000E-01	4.8579E-01	105914
-7.0000E-01	4.9279E-01	6.0000E-01	4.9889E-01	5.0000E-01	5.0405E-01	105914
-4.0000E-01	5.0819E-01	3.0000E-01	5.1113E-01	2.0000E-01	5.1335E-01	105914
-1.0000E-01	5.1476E-01	0.	5.1542E-01	1.0000E-01	5.1476E-01	105914
2.0000E-01	5.1335E-01	3.0000E-01	5.1113E-01	4.0000E-01	5.0819E-01	105914
5.0000E-01	5.0405E-01	6.0000E-01	4.9889E-01	7.0000E-01	4.9279E-01	105914
8.0000E-01	4.8579E-01	9.0000E-01	4.7791E-01	1.0000E+00	4.6960E-01	105914
0.	8.5000E+00	0	0	1	21105914	5
21	2			105914	5	150
-1.0000E+00	4.7064E-01	9.0000E-01	4.7870E-01	8.0000E-01	4.8622E-01	105914
-7.0000E-01	4.9294E-01	6.0000E-01	4.9888E-01	5.0000E-01	5.0399E-01	105914
-4.0000E-01	5.0793E-01	3.0000E-01	5.1078E-01	2.0000E-01	5.1290E-01	105914
-1.0000E-01	5.1425E-01	0.	5.1490E-01	1.0000E-01	5.1425E-01	105914
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0.	9.0000E+00	0	0	1	21105914	5
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-4.0000E-01	5.0761E-01	3.0000E-01	5.1038E-01	2.0000E-01	5.1239E-01	105914
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2.0000E-01	5.1239E-01	3.0000E-01	5.1038E-01	4.0000E-01	5.0761E-01	105914
5.0000E-01	5.0390E-01	6.0000E-01	4.9886E-01	7.0000E-01	4.9310E-01	105914
8.0000E-01	4.8673E-01	9.0000E-01	4.7963E-01	1.0000E+00	4.7181E-01	105914
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1.1023E+04	2.2786E+01	0	2	2	0105914	6
2.0800E+00	2.0800E+00	0	0	1	15105914	6
15	2			105914	6	3
0.	2.1700E+00	0	0	1	21105914	6
21	2			105914	6	5
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-7.0000E-01	4.7099E-01	6.0000E-01	4.9462E-01	5.0000E-01	5.1531E-01	105914
-4.0000E-01	5.3106E-01	3.0000E-01	5.4506E-01	2.0000E-01	5.5462E-01	105914
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2.0000E-01	5.5462E-01	3.0000E-01	5.4506E-01	4.0000E-01	5.3106E-01	105914
5.0000E-01	5.1531E-01	6.0000E-01	4.9462E-01	7.0000E-01	4.7099E-01	105914
8.0000E-01	4.4241E-01	9.0000E-01	4.1100E-01	1.0000E+00	3.7550E-01	105914
0.	2.5000E+00	0	0	1	21105914	6
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-7.0000E-01	4.7558E-01	6.0000E-01	4.9589E-01	5.0000E-01	5.1249E-01	105914
-4.0000E-01	5.2652E-01	3.0000E-01	5.3768E-01	2.0000E-01	5.4562E-01	105914
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2.0000E-01	5.4562E-01	3.0000E-01	5.3768E-01	4.0000E-01	5.2652E-01	105914
5.0000E-01	5.1249E-01	6.0000E-01	4.9589E-01	7.0000E-01	4.7558E-01	105914
8.0000E-01	4.5255E-01	9.0000E-01	4.2586E-01	1.0000E+00	3.9565E-01	105914
0.	3.0000E+00	0	0	1	21105914	6
21	2			105914	6	23
-1.0000E+00	4.1335E-01	9.0000E-01	4.3887E-01	8.0000E-01	4.6142E-01	105914
-7.0000E-01	4.7961E-01	6.0000E-01	4.9699E-01	5.0000E-01	5.1003E-01	105914
-4.0000E-01	5.2252E-01	3.0000E-01	5.3121E-01	2.0000E-01	5.3773E-01	105914
-1.0000E-01	5.4181E-01	0.	5.4316E-01	1.0000E-01	5.4181E-01	105914
2.0000E-01	5.3773E-01	3.0000E-01	5.3121E-01	4.0000E-01	5.2252E-01	105914
5.0000E-01	5.1003E-01	6.0000E-01	4.9699E-01	7.0000E-01	4.7961E-01	105914
8.0000E-01	4.6142E-01	9.0000E-01	4.3887E-01	1.0000E+00	4.1335E-01	105914
0.	3.5000E+00	0	0	1	21105914	6

21	2	105914	6	32	
-1.0000E+00	4.2797E-01-9.0000E-01	4.4959E-01-8.0000E-01	4.6869E-01-105914	6	33
-7.0000E-01	4.8295E-01-6.0000E-01	4.9790E-01-5.0000E-01	5.0803E-01-105914	6	34
-4.0000E-01	5.1920E-01-3.0000E-01	5.2588E-01-2.0000E-01	5.3122E-01-105914	6	35
-1.0000E-01	5.3417E-01 0.	5.3550E-01 1.0000E-01	5.3417E-01-105914	6	36
2.0000E-01	5.3122E-01 3.0000E-01	5.2588E-01 4.0000E-01	5.1920E-01-105914	6	37
5.0000E-01	5.0803E-01 6.0000E-01	4.9790E-01 7.0000E-01	4.8295E-01-105914	6	38
8.0000E-01	4.6869E-01 9.0000E-01	4.4959E-01 1.0000E+00	4.2797E-01-105914	6	39
0.	4.0000E+00 0	0 1	21105914	6	40
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-7.0000E-01	4.8559E-01-6.0000E-01	4.9861E-01-5.0000E-01	5.0647E-01-105914	6	43
-4.0000E-01	5.1657E-01-3.0000E-01	5.2168E-01-2.0000E-01	5.2611E-01-105914	6	44
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2.0000E-01	5.2611E-01 3.0000E-01	5.2168E-01 4.0000E-01	5.1657E-01-105914	6	46
5.0000E-01	5.0647E-01 6.0000E-01	4.9861E-01 7.0000E-01	4.8559E-01-105914	6	47
8.0000E-01	4.7435E-01 9.0000E-01	4.5802E-01 1.0000E+00	4.3951E-01-105914	6	48
0.	4.5000E+00 0	0 1	21105914	6	49
21	2	105914	6	50	
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-7.0000E-01	4.8754E-01-6.0000E-01	4.9911E-01-5.0000E-01	5.0538E-01-105914	6	52
-4.0000E-01	5.1461E-01-3.0000E-01	5.1861E-01-2.0000E-01	5.2237E-01-105914	6	53
-1.0000E-01	5.2380E-01 0.	5.2508E-01 1.0000E-01	5.2380E-01-105914	6	54
2.0000E-01	5.2237E-01 3.0000E-01	5.1861E-01 4.0000E-01	5.1461E-01-105914	6	55
5.0000E-01	5.0538E-01 6.0000E-01	4.9911E-01 7.0000E-01	4.8754E-01-105914	6	56
8.0000E-01	4.7843E-01 9.0000E-01	4.6414E-01 1.0000E+00	4.4798E-01-105914	6	57
0.	5.0000E+00 0	0 1	21105914	6	58
21	2	105914	6	59	
-1.0000E+00	4.5337E-01-9.0000E-01	4.6796E-01-8.0000E-01	4.8091E-01-105914	6	60
-7.0000E-01	4.8879E-01-6.0000E-01	4.9942E-01-5.0000E-01	5.0473E-01-105914	6	61
-4.0000E-01	5.1334E-01-3.0000E-01	5.1668E-01-2.0000E-01	5.2002E-01-105914	6	62
-1.0000E-01	5.2108E-01 0.	5.2232E-01 1.0000E-01	5.2108E-01-105914	6	63
2.0000E-01	5.2002E-01 3.0000E-01	5.1668E-01 4.0000E-01	5.1334E-01-105914	6	64
5.0000E-01	5.0473E-01 6.0000E-01	4.9942E-01 7.0000E-01	4.8879E-01-105914	6	65
8.0000E-01	4.8091E-01 9.0000E-01	4.6796E-01 1.0000E+00	4.5337E-01-105914	6	66
0.	5.5000E+00 0	0 1	21105914	6	67
21	2	105914	6	68	
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-7.0000E-01	4.8217E-01-6.0000E-01	4.9742E-01-5.0000E-01	5.0972E-01-105914	6	70
-4.0000E-01	5.2029E-01-3.0000E-01	5.2849E-01-2.0000E-01	5.3417E-01-105914	6	71
-1.0000E-01	5.3763E-01 0.	5.3878E-01 1.0000E-01	5.3763E-01-105914	6	72
2.0000E-01	5.3417E-01 3.0000E-01	5.2849E-01 4.0000E-01	5.2029E-01-105914	6	73
5.0000E-01	5.0972E-01 6.0000E-01	4.9742E-01 7.0000E-01	4.8217E-01-105914	6	74
8.0000E-01	4.6348E-01 9.0000E-01	4.4399E-01 1.0000E+00	4.2254E-01-105914	6	75
0.	6.0000E+00 0	0 1	21105914	6	76
21	2	105914	6	77	
-1.0000E+00	4.2434E-01-9.0000E-01	4.4518E-01-8.0000E-01	4.6418E-01-105914	6	78
-7.0000E-01	4.8259E-01-6.0000E-01	4.9749E-01-5.0000E-01	5.0957E-01-105914	6	79
-4.0000E-01	5.1979E-01-3.0000E-01	5.2785E-01-2.0000E-01	5.3342E-01-105914	6	80
-1.0000E-01	5.3680E-01 0.	5.3792E-01 1.0000E-01	5.3680E-01-105914	6	81
2.0000E-01	5.3342E-01 3.0000E-01	5.2785E-01 4.0000E-01	5.1979E-01-105914	6	82
5.0000E-01	5.0957E-01 6.0000E-01	4.9749E-01 7.0000E-01	4.8259E-01-105914	6	83
8.0000E-01	4.6418E-01 9.0000E-01	4.4518E-01 1.0000E+00	4.2434E-01-105914	6	84
0.	6.5000E+00 0	0 1	21105914	6	85
21	2	105914	6	86	
-1.0000E+00	4.2613E-01-9.0000E-01	4.4643E-01-8.0000E-01	4.6497E-01-105914	6	87
-7.0000E-01	4.8298E-01-6.0000E-01	4.9755E-01-5.0000E-01	5.0940E-01-105914	6	88
-4.0000E-01	5.1928E-01-3.0000E-01	5.2718E-01-2.0000E-01	5.3266E-01-105914	6	89
-1.0000E-01	5.3598E-01 0.	5.3707E-01 1.0000E-01	5.3598E-01-105914	6	90
2.0000E-01	5.3266E-01 3.0000E-01	5.2718E-01 4.0000E-01	5.1928E-01-105914	6	91
5.0000E-01	5.0940E-01 6.0000E-01	4.9755E-01 7.0000E-01	4.8298E-01-105914	6	92
8.0000E-01	4.6497E-01 9.0000E-01	4.4643E-01 1.0000E+00	4.2613E-01-105914	6	93
0.	7.0000E+00 0	0 1	21105914	6	94
21	2	105914	6	95	
-1.0000E+00	4.2790E-01-9.0000E-01	4.4774E-01-8.0000E-01	4.6585E-01-105914	6	96
-7.0000E-01	4.8333E-01-6.0000E-01	4.9761E-01-5.0000E-01	5.0921E-01-105914	6	97
-4.0000E-01	5.1875E-01-3.0000E-01	5.2648E-01-2.0000E-01	5.3190E-01-105914	6	98
-1.0000E-01	5.3515E-01 0.	5.3624E-01 1.0000E-01	5.3515E-01-105914	6	99
2.0000E-01	5.3190E-01 3.0000E-01	5.2648E-01 4.0000E-01	5.1875E-01-105914	6	100
5.0000E-01	5.0921E-01 6.0000E-01	4.9761E-01 7.0000E-01	4.8333E-01-105914	6	101
8.0000E-01	4.6585E-01 9.0000E-01	4.4774E-01 1.0000E+00	4.2790E-01-105914	6	102
0.	7.5000E+00 0	0 1	21105914	6	103

21	2				105914	6	104
-1.0000E+00	4.2967E-01	-9.0000E-01	4.4910E-01	-8.0000E-01	4.6683E-01	105914	6 105
-7.0000E-01	4.8366E-01	-6.0000E-01	4.9766E-01	-5.0000E-01	5.0899E-01	105914	6 106
-4.0000E-01	5.1819E-01	-3.0000E-01	5.2575E-01	-2.0000E-01	5.3111E-01	105914	6 107
-1.0000E-01	5.3433E-01	0.	5.3540E-01	1.0000E-01	5.3433E-01	105914	6 108
2.0000E-01	5.3111E-01	3.0000E-01	5.2575E-01	4.0000E-01	5.1819E-01	105914	6 109
5.0000E-01	5.0899E-01	6.0000E-01	4.9766E-01	7.0000E-01	4.8366E-01	105914	6 110
8.0000E-01	4.6683E-01	9.0000E-01	4.4910E-01	1.0000E+00	4.2967E-01	105914	6 111
0.	8.0000E+00	0	0	1	21105914	6	112
21	2				105914	6	113
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-7.0000E-01	4.8396E-01	-6.0000E-01	4.9770E-01	-5.0000E-01	5.0874E-01	105914	6 115
-4.0000E-01	5.1763E-01	-3.0000E-01	5.2499E-01	-2.0000E-01	5.3032E-01	105914	6 116
-1.0000E-01	5.3351E-01	0.	5.3458E-01	1.0000E-01	5.3351E-01	105914	6 117
2.0000E-01	5.3032E-01	3.0000E-01	5.2499E-01	4.0000E-01	5.1763E-01	105914	6 118
5.0000E-01	5.0874E-01	6.0000E-01	4.9770E-01	7.0000E-01	4.8396E-01	105914	6 119
8.0000E-01	4.6790E-01	9.0000E-01	4.5053E-01	1.0000E+00	4.3142E-01	105914	6 120
0.	8.5000E+00	0	0	1	21105914	6	121
21	2				105914	6	122
-1.0000E+00	4.3316E-01	-9.0000E-01	4.5201E-01	-8.0000E-01	4.6907E-01	105914	6 123
-7.0000E-01	4.8422E-01	-6.0000E-01	4.9775E-01	-5.0000E-01	5.0847E-01	105914	6 124
-4.0000E-01	5.1704E-01	-3.0000E-01	5.2419E-01	-2.0000E-01	5.2951E-01	105914	6 125
-1.0000E-01	5.3270E-01	0.	5.3376E-01	1.0000E-01	5.3270E-01	105914	6 126
2.0000E-01	5.2951E-01	3.0000E-01	5.2419E-01	4.0000E-01	5.1704E-01	105914	6 127
5.0000E-01	5.0847E-01	6.0000E-01	4.9775E-01	7.0000E-01	4.8422E-01	105914	6 128
8.0000E-01	4.6907E-01	9.0000E-01	4.5201E-01	1.0000E+00	4.3316E-01	105914	6 129
0.	9.0000E+00	0	0	1	21105914	6	130
21	2				105914	6	131
-1.0000E+00	4.3489E-01	-9.0000E-01	4.5355E-01	-8.0000E-01	4.7033E-01	105914	6 132
-7.0000E-01	4.8446E-01	-6.0000E-01	4.9778E-01	-5.0000E-01	5.0817E-01	105914	6 133
-4.0000E-01	5.1643E-01	-3.0000E-01	5.2336E-01	-2.0000E-01	5.2869E-01	105914	6 134
-1.0000E-01	5.3189E-01	0.	5.3295E-01	1.0000E-01	5.3189E-01	105914	6 135
2.0000E-01	5.2869E-01	3.0000E-01	5.2336E-01	4.0000E-01	5.1643E-01	105914	6 136
5.0000E-01	5.0817E-01	6.0000E-01	4.9778E-01	7.0000E-01	4.8446E-01	105914	6 137
8.0000E-01	4.7033E-01	9.0000E-01	4.5355E-01	1.0000E+00	4.3489E-01	105914	6 138
2.0800E+00	1.6400E+00	0	0	1	15105914	6	139
0.	2.1700E+00	0	0	1	105914	6	140
21	2				21105914	6	141
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-7.0000E-01	4.7099E-01	-6.0000E-01	4.9462E-01	-5.0000E-01	5.1531E-01	105914	6 143
-4.0000E-01	5.3106E-01	-3.0000E-01	5.4506E-01	-2.0000E-01	5.5462E-01	105914	6 144
-1.0000E-01	5.6165E-01	0.	5.6305E-01	1.0000E-01	5.6165E-01	105914	6 145
2.0000E-01	5.5462E-01	3.0000E-01	5.4506E-01	4.0000E-01	5.3106E-01	105914	6 146
5.0000E-01	5.1531E-01	6.0000E-01	4.9462E-01	7.0000E-01	4.7099E-01	105914	6 147
8.0000E-01	4.4241E-01	9.0000E-01	4.1100E-01	1.0000E+00	3.7550E-01	105914	6 148
0.	2.5000E+00	0	0	1	21105914	6	149
21	2				105914	6	150
-1.0000E+00	3.9565E-01	-9.0000E-01	4.2586E-01	-8.0000E-01	4.5255E-01	105914	6 151
-7.0000E-01	4.7558E-01	-6.0000E-01	4.9589E-01	-5.0000E-01	5.1249E-01	105914	6 152
-4.0000E-01	5.2652E-01	-3.0000E-01	5.3768E-01	-2.0000E-01	5.4562E-01	105914	6 153
-1.0000E-01	5.5107E-01	0.	5.5245E-01	1.0000E-01	5.5107E-01	105914	6 154
2.0000E-01	5.4562E-01	3.0000E-01	5.3768E-01	4.0000E-01	5.2652E-01	105914	6 155
5.0000E-01	5.1249E-01	6.0000E-01	4.9589E-01	7.0000E-01	4.7558E-01	105914	6 156
8.0000E-01	4.5255E-01	9.0000E-01	4.2586E-01	1.0000E+00	3.9565E-01	105914	6 157
0.	3.0000E+00	0	0	1	21105914	6	158
21	2				105914	6	159
-1.0000E+00	4.1335E-01	-9.0000E-01	4.3887E-01	-8.0000E-01	4.6142E-01	105914	6 160
-7.0000E-01	4.7961E-01	-6.0000E-01	4.9699E-01	-5.0000E-01	5.1003E-01	105914	6 161
-4.0000E-01	5.2252E-01	-3.0000E-01	5.3121E-01	-2.0000E-01	5.3773E-01	105914	6 162
-1.0000E-01	5.4181E-01	0.	5.4316E-01	1.0000E-01	5.4181E-01	105914	6 163
2.0000E-01	5.3773E-01	3.0000E-01	5.3121E-01	4.0000E-01	5.2252E-01	105914	6 164
5.0000E-01	5.1003E-01	6.0000E-01	4.9699E-01	7.0000E-01	4.7961E-01	105914	6 165
8.0000E-01	4.6142E-01	9.0000E-01	4.3887E-01	1.0000E+00	4.1335E-01	105914	6 166
0.	3.5000E+00	0	0	1	21105914	6	167
					21105914	6	168

21	2	105914	6	169		
-1.0000E+00	4.2797E-01-9.0000E-01	4.4959E-01-8.0000E-01	4.6869E-01-105914	6	170	
-7.0000E-01	4.8295E-01-6.0000E-01	4.9790E-01-5.0000E-01	5.0803E-01-105914	6	171	
-4.0000E-01	5.1920E-01-3.0000E-01	5.2588E-01-2.0000E-01	5.3122E-01-105914	6	172	
-1.0000E-01	5.3417E-01 0.	5.3550E-01 1.0000E-01	5.3417E-01-105914	6	173	
2.0000E-01	5.3122E-01 3.0000E-01	5.2588E-01 4.0000E-01	5.1920E-01-105914	6	174	
5.0000E-01	5.0803E-01 6.0000E-01	4.9790E-01 7.0000E-01	4.8295E-01-105914	6	175	
8.0000E-01	4.6869E-01 9.0000E-01	4.4959E-01 1.0000E+00	4.2797E-01-105914	6	176	
0.	4.0000E+00 0	0	1	21105914	6	177
21	2	105914	6	178		
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-7.0000E-01	4.8559E-01-6.0000E-01	4.9861E-01-5.0000E-01	5.0647E-01-105914	6	180	
-4.0000E-01	5.1657E-01-3.0000E-01	5.2168E-01-2.0000E-01	5.2611E-01-105914	6	181	
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2.0000E-01	5.2611E-01 3.0000E-01	5.2168E-01 4.0000E-01	5.1657E-01-105914	6	183	
5.0000E-01	5.0647E-01 6.0000E-01	4.9861E-01 7.0000E-01	4.8559E-01-105914	6	184	
8.0000E-01	4.7435E-01 9.0000E-01	4.5802E-01 1.0000E+00	4.3951E-01-105914	6	185	
0.	4.5000E+00 0	0	1	21105914	6	186
21	2	105914	6	187		
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-7.0000E-01	4.8754E-01-6.0000E-01	4.9911E-01-5.0000E-01	5.0538E-01-105914	6	189	
-4.0000E-01	5.1461E-01-3.0000E-01	5.1861E-01-2.0000E-01	5.2237E-01-105914	6	190	
-1.0000E-01	5.2380E-01 0.	5.2508E-01 1.0000E-01	5.2380E-01-105914	6	191	
2.0000E-01	5.2237E-01 3.0000E-01	5.1861E-01 4.0000E-01	5.1461E-01-105914	6	192	
5.0000E-01	5.0538E-01 6.0000E-01	4.9911E-01 7.0000E-01	4.8754E-01-105914	6	193	
8.0000E-01	4.7843E-01 9.0000E-01	4.6414E-01 1.0000E+00	4.4798E-01-105914	6	194	
0.	5.0000E+00 0	0	1	21105914	6	195
21	2	105914	6	196		
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-7.0000E-01	4.8879E-01-6.0000E-01	4.9942E-01-5.0000E-01	5.0473E-01-105914	6	198	
-4.0000E-01	5.1334E-01-3.0000E-01	5.1668E-01-2.0000E-01	5.2002E-01-105914	6	199	
-1.0000E-01	5.2108E-01 0.	5.2232E-01 1.0000E-01	5.2108E-01-105914	6	200	
2.0000E-01	5.2002E-01 3.0000E-01	5.1668E-01 4.0000E-01	5.1334E-01-105914	6	201	
5.0000E-01	5.0473E-01 6.0000E-01	4.9942E-01 7.0000E-01	4.8879E-01-105914	6	202	
8.0000E-01	4.8091E-01 9.0000E-01	4.6796E-01 1.0000E+00	4.5337E-01-105914	6	203	
0.	5.5000E+00 0	0	1	21105914	6	204
21	2	105914	6	205		
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-7.0000E-01	4.8217E-01-6.0000E-01	4.9742E-01-5.0000E-01	5.0972E-01-105914	6	207	
-4.0000E-01	5.2029E-01-3.0000E-01	5.2849E-01-2.0000E-01	5.3417E-01-105914	6	208	
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2.0000E-01	5.3417E-01 3.0000E-01	5.2849E-01 4.0000E-01	5.2029E-01-105914	6	210	
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8.0000E-01	4.6348E-01 9.0000E-01	4.4399E-01 1.0000E+00	4.2254E-01-105914	6	212	
0.	6.0000E+00 0	0	1	21105914	6	213
21	2	105914	6	214		
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-7.0000E-01	4.8259E-01-6.0000E-01	4.9749E-01-5.0000E-01	5.0957E-01-105914	6	216	
-4.0000E-01	5.1979E-01-3.0000E-01	5.2785E-01-2.0000E-01	5.3342E-01-105914	6	217	
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2.0000E-01	5.3342E-01 3.0000E-01	5.2785E-01 4.0000E-01	5.1979E-01-105914	6	219	
5.0000E-01	5.0957E-01 6.0000E-01	4.9749E-01 7.0000E-01	4.8259E-01-105914	6	220	
8.0000E-01	4.6418E-01 9.0000E-01	4.4518E-01 1.0000E+00	4.2434E-01-105914	6	221	
0.	6.5000E+00 0	0	1	21105914	6	222
21	2	105914	6	223		
-1.0000E+00	4.2613E-01-9.0000E-01	4.4643E-01-8.0000E-01	4.6497E-01-105914	6	224	
-7.0000E-01	4.8298E-01-6.0000E-01	4.9755E-01-5.0000E-01	5.0940E-01-105914	6	225	
-4.0000E-01	5.1928E-01-3.0000E-01	5.2718E-01-2.0000E-01	5.3266E-01-105914	6	226	
-1.0000E-01	5.3598E-01 0.	5.3707E-01 1.0000E-01	5.3598E-01-105914	6	227	
2.0000E-01	5.3266E-01 3.0000E-01	5.2718E-01 4.0000E-01	5.1928E-01-105914	6	228	
5.0000E-01	5.0940E-01 6.0000E-01	4.9755E-01 7.0000E-01	4.8298E-01-105914	6	229	
8.0000E-01	4.6497E-01 9.0000E-01	4.4643E-01 1.0000E+00	4.2613E-01-105914	6	230	
0.	7.0000E+00 0	0	1	21105914	6	231
21	2	105914	6	232		
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-7.0000E-01	4.8333E-01-6.0000E-01	4.9761E-01-5.0000E-01	5.0921E-01-105914	6	234	
-4.0000E-01	5.1875E-01-3.0000E-01	5.2648E-01-2.0000E-01	5.3190E-01-105914	6	235	
-1.0000E-01	5.3515E-01 0.	5.3624E-01 1.0000E-01	5.3515E-01-105914	6	236	
2.0000E-01	5.3190E-01 3.0000E-01	5.2648E-01 4.0000E-01	5.1875E-01-105914	6	237	
5.0000E-01	5.0921E-01 6.0000E-01	4.9761E-01 7.0000E-01	4.8333E-01-105914	6	238	
8.0000E-01	4.6585E-01 9.0000E-01	4.4774E-01 1.0000E+00	4.2790E-01-105914	6	239	
0.	7.5000E+00 0	0	1	21105914	6	240

21	2			105914	6	241
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-7.0000E-01	4.8366E-01	-6.0000E-01	4.9766E-01	-5.0000E-01	5.0899E-01	105914 6 243
-4.0000E-01	5.1819E-01	-3.0000E-01	5.2575E-01	-2.0000E-01	5.3111E-01	105914 6 244
-1.0000E-01	5.3433E-01	0.	5.3540E-01	1.0000E-01	5.3433E-01	105914 6 245
2.0000E-01	5.3111E-01	3.0000E-01	5.2575E-01	4.0000E-01	5.1819E-01	105914 6 246
5.0000E-01	5.0899E-01	6.0000E-01	4.9766E-01	7.0000E-01	4.8366E-01	105914 6 247
8.0000E-01	4.6683E-01	9.0000E-01	4.4910E-01	1.0000E+00	4.2967E-01	105914 6 248
0.	8.0000E+00	0	0	1	21105914	6 249
21	2			105914	6	250
-1.0000E+00	4.3142E-01	-9.0000E-01	4.5053E-01	-8.0000E-01	4.6790E-01	105914 6 251
-7.0000E-01	4.8396E-01	-6.0000E-01	4.9770E-01	-5.0000E-01	5.0874E-01	105914 6 252
-4.0000E-01	5.1763E-01	-3.0000E-01	5.2499E-01	-2.0000E-01	5.3032E-01	105914 6 253
-1.0000E-01	5.3351E-01	0.	5.3458E-01	1.0000E-01	5.3351E-01	105914 6 254
2.0000E-01	5.3032E-01	3.0000E-01	5.2499E-01	4.0000E-01	5.1763E-01	105914 6 255
5.0000E-01	5.0874E-01	6.0000E-01	4.9770E-01	7.0000E-01	4.8396E-01	105914 6 256
8.0000E-01	4.6790E-01	9.0000E-01	4.5053E-01	1.0000E+00	4.3142E-01	105914 6 257
0.	8.5000E+00	0	0	1	21105914	6 258
21	2			105914	6	259
-1.0000E+00	4.3316E-01	-9.0000E-01	4.5201E-01	-8.0000E-01	4.6907E-01	105914 6 260
-7.0000E-01	4.8422E-01	-6.0000E-01	4.9775E-01	-5.0000E-01	5.0847E-01	105914 6 261
-4.0000E-01	5.1704E-01	-3.0000E-01	5.2419E-01	-2.0000E-01	5.2951E-01	105914 6 262
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2.0000E-01	5.2951E-01	3.0000E-01	5.2419E-01	4.0000E-01	5.1704E-01	105914 6 264
5.0000E-01	5.0847E-01	6.0000E-01	4.9775E-01	7.0000E-01	4.8422E-01	105914 6 265
8.0000E-01	4.6907E-01	9.0000E-01	4.5201E-01	1.0000E+00	4.3316E-01	105914 6 266
0.	9.0000E+00	0	0	1	21105914	6 267
21	2			105914	6	268
-1.0000E+00	4.3489E-01	-9.0000E-01	4.5355E-01	-8.0000E-01	4.7033E-01	105914 6 269
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-4.0000E-01	5.1643E-01	-3.0000E-01	5.2336E-01	-2.0000E-01	5.2869E-01	105914 6 271
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2.0000E-01	5.2869E-01	3.0000E-01	5.2336E-01	4.0000E-01	5.1643E-01	105914 6 273
5.0000E-01	5.0817E-01	6.0000E-01	4.9778E-01	7.0000E-01	4.8446E-01	105914 6 274
8.0000E-01	4.7033E-01	9.0000E-01	4.5355E-01	1.0000E+00	4.3489E-01	105914 6 275
0.	0.	0	0	C	0105914	0 276
11023.0	22.786	1	2	2	0105914	7 1
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11023.0	22.786	1	7	1	0105914	8 1
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1.1023E+04	2.2786E+01	0	2	2	0105914	9 1
2.7050E+00	2.2658E+00	0	0	1	14105914	9 2
14	2			105914	7	3
0.	2.8230E+00	0	0	1	21105914	9 4
21	2			105914	9	5
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-7.0000E-01	5.4918E-01	-6.0000E-01	5.1788E-01	-5.0000E-01	4.6429E-01	105914 9 7
-4.0000E-01	4.6441E-01	-3.0000E-01	4.4421E-01	-2.0000E-01	4.3037E-01	105914 9 8
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2.0000E-01	4.3037E-01	3.0000E-01	4.4421E-01	4.0000E-01	4.6441E-01	105914 9 10
5.0000E-01	4.6429E-01	6.0000E-01	5.1788E-01	7.0000E-01	5.4918E-01	105914 9 11
8.0000E-01	5.8021E-01	9.0000E-01	6.1182E-01	1.0000E+00	6.4000E-01	105914 9 12
0.	3.0000E+00	0	0	1	21105914	9 13
21	2			105914	9	14
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-7.0000E-01	5.4144E-01	-6.0000E-01	5.1399E-01	-5.0000E-01	4.7439E-01	105914 9 16
-4.0000E-01	4.6738E-01	-3.0000E-01	4.5062E-01	-2.0000E-01	4.3778E-01	105914 9 17
-1.0000E-01	4.2954E-01	0.	4.2667E-01	1.0000E-01	4.2954E-01	105914 9 18
2.0000E-01	4.3778E-01	3.0000E-01	4.5062E-01	4.0000E-01	4.6738E-01	105914 9 19
5.0000E-01	4.7439E-01	6.0000E-01	5.1399E-01	7.0000E-01	5.4143E-01	105914 9 20
8.0000E-01	5.6931E-01	9.0000E-01	5.9732E-01	1.0000E+00	6.2324E-01	105914 9 21
0.	3.5000E+00	0	0	1	21105914	9 22
21	2			105914	9	23
-1.0000E+00	6.0825E-01	-9.0000E-01	5.8439E-01	-8.0000E-01	5.5957E-01	105914 9 24
-7.0000E-01	5.3451E-01	-6.0000E-01	5.1047E-01	-5.0000E-01	4.8338E-01	105914 9 25
-4.0000E-01	4.7006E-01	-3.0000E-01	4.5643E-01	-2.0000E-01	4.4442E-01	105914 9 26
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2.0000E-01	4.4442E-01	3.0000E-01	4.5633E-01	4.0000E-01	4.7006E-01	105914 9 28
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8.0000E-01	5.5957E-01	9.0000E-01	5.8439E-01	1.0000E+00	6.0825E-01	105914 9 30
0.	4.0000E+00	0	0	1	21105914	9 31

21	2			105914	9	32
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-7.0000E-01	5.2936E-01	-6.0000E-01	5.0779E-01	-5.0000E-01	4.8994E-01	105914 9 34
-4.0000E-01	4.7211E-01	-3.0000E-01	4.6054E-01	-2.0000E-01	4.4939E-01	105914 9 35
-1.0000E-01	4.4460E-01	0.	4.4203E-01	1.0000E-01	4.4460E-01	105914 9 36
2.0000E-01	4.4939E-01	3.0000E-01	4.6054E-01	4.0000E-01	4.7211E-01	105914 9 37
5.0000E-01	4.8994E-01	6.0000E-01	5.0779E-01	7.0000E-01	5.2937E-01	105914 9 38
8.0000E-01	5.5241E-01	9.0000E-01	5.7490E-01	1.0000E+00	5.9722E-01	105914 9 39
0.	4.5000E+00	0	0	1	21105914	9 40
21	2			105914	9	41
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-7.0000E-01	5.2598E-01	-6.0000E-01	5.0596E-01	-5.0000E-01	4.9405E-01	105914 9 43
-4.0000E-01	4.7352E-01	-3.0000E-01	4.6323E-01	-2.0000E-01	4.5269E-01	105914 9 44
-1.0000E-01	4.4873E-01	0.	4.4631E-01	1.0000E-01	4.4873E-01	105914 9 45
2.0000E-01	4.5269E-01	3.0000E-01	4.6323E-01	4.0000E-01	4.7352E-01	105914 9 46
5.0000E-01	4.9405E-01	6.0000E-01	5.0596E-01	7.0000E-01	5.2605E-01	105914 9 47
8.0000E-01	5.4781E-01	9.0000E-01	5.6886E-01	1.0000E+00	5.9014E-01	105914 9 48
0.	5.0000E+00	0	0	1	21105914	9 49
21	2			105914	9	50
-1.0000E+00	5.8703E-01	-9.0000E-01	5.6627E-01	-8.0000E-01	5.4579E-01	105914 9 51
-7.0000E-01	5.2438E-01	-6.0000E-01	5.0495E-01	-5.0000E-01	4.9574E-01	105914 9 52
-4.0000E-01	4.7430E-01	-3.0000E-01	4.6442E-01	-2.0000E-01	4.5430E-01	105914 9 53
-1.0000E-01	4.5060E-01	0.	4.4835E-01	1.0000E-01	4.5060E-01	105914 9 54
2.0000E-01	4.5430E-01	3.0000E-01	4.6442E-01	4.0000E-01	4.7430E-01	105914 9 55
5.0000E-01	4.9574E-01	6.0000E-01	5.0495E-01	7.0000E-01	5.2452E-01	105914 9 56
8.0000E-01	5.4579E-01	9.0000E-01	5.6627E-01	1.0000E+00	5.8703E-01	105914 9 57
0.	5.5000E+00	0	0	1	21105914	9 58
21	2			105914	9	59
-1.0000E+00	5.9870E-01	-9.0000E-01	5.7668E-01	-8.0000E-01	5.5335E-01	105914 9 60
-7.0000E-01	5.2926E-01	-6.0000E-01	5.0670E-01	-5.0000E-01	4.8862E-01	105914 9 61
-4.0000E-01	4.7275E-01	-3.0000E-01	4.5985E-01	-2.0000E-01	4.4967E-01	105914 9 62
-1.0000E-01	4.4398E-01	0.	4.4202E-01	1.0000E-01	4.4398E-01	105914 9 63
2.0000E-01	4.4967E-01	3.0000E-01	4.5985E-01	4.0000E-01	4.7275E-01	105914 9 64
5.0000E-01	4.8862E-01	6.0000E-01	5.0670E-01	7.0000E-01	5.2966E-01	105914 9 65
8.0000E-01	5.5335E-01	9.0000E-01	5.7668E-01	1.0000E+00	5.9870E-01	105914 9 66
0.	6.0000E+00	0	0	1	21105914	9 67
21	2			105914	9	68
-1.0000E+00	5.9771E-01	-9.0000E-01	5.7588E-01	-8.0000E-01	5.5271E-01	105914 9 69
-7.0000E-01	5.2870E-01	-6.0000E-01	5.0636E-01	-5.0000E-01	4.8883E-01	105914 9 70
-4.0000E-01	4.7317E-01	-3.0000E-01	4.6029E-01	-2.0000E-01	4.5039E-01	105914 9 71
-1.0000E-01	4.4464E-01	0.	4.4281E-01	1.0000E-01	4.4464E-01	105914 9 72
2.0000E-01	4.5039E-01	3.0000E-01	4.6029E-01	4.0000E-01	4.7317E-01	105914 9 73
5.0000E-01	4.8883E-01	6.0000E-01	5.0636E-01	7.0000E-01	5.2914E-01	105914 9 74
8.0000E-01	5.5271E-01	9.0000E-01	5.7588E-01	1.0000E+00	5.9771E-01	105914 9 75
0.	6.5000E+00	0	0	1	21105914	9 76
21	2			105914	9	77
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-7.0000E-01	5.2813E-01	-6.0000E-01	5.0614E-01	-5.0000E-01	4.8901E-01	105914 9 79
-4.0000E-01	4.7261E-01	-3.0000E-01	4.6080E-01	-2.0000E-01	4.5116E-01	105914 9 80
-1.0000E-01	4.4539E-01	0.	4.4365E-01	1.0000E-01	4.4539E-01	105914 9 81
2.0000E-01	4.5116E-01	3.0000E-01	4.6080E-01	4.0000E-01	4.7261E-01	105914 9 82
5.0000E-01	4.8901E-01	6.0000E-01	5.0614E-01	7.0000E-01	5.2858E-01	105914 9 83
8.0000E-01	5.5200E-01	9.0000E-01	5.7494E-01	1.0000E+00	5.9658E-01	105914 9 84
0.	7.0000E+00	0	0	1	21105914	9 85
21	2			105914	9	86
-1.0000E+00	5.9532E-01	-9.0000E-01	5.7384E-01	-8.0000E-01	5.5120E-01	105914 9 87
-7.0000E-01	5.2757E-01	-6.0000E-01	5.0605E-01	-5.0000E-01	4.8915E-01	105914 9 88
-4.0000E-01	4.7406E-01	-3.0000E-01	4.6141E-01	-2.0000E-01	4.5197E-01	105914 9 89
-1.0000E-01	4.4622E-01	0.	4.4454E-01	1.0000E-01	4.4622E-01	105914 9 90
2.0000E-01	4.5197E-01	3.0000E-01	4.6141E-01	4.0000E-01	4.7406E-01	105914 9 91
5.0000E-01	4.8915E-01	6.0000E-01	5.0605E-01	7.0000E-01	5.2759E-01	105914 9 92
8.0000E-01	5.5120E-01	9.0000E-01	5.7384E-01	1.0000E+00	5.9532E-01	105914 9 93
0.	7.5000E+00	0	0	1	21105914	9 94
21	2			105914	9	95
-1.0000E+00	5.9394E-01	-9.0000E-01	5.7258E-01	-8.0000E-01	5.5034E-01	105914 9 96
-7.0000E-01	5.2700E-01	-6.0000E-01	5.0607E-01	-5.0000E-01	4.8926E-01	105914 9 97
-4.0000E-01	4.7451E-01	-3.0000E-01	4.6210E-01	-2.0000E-01	4.5284E-01	105914 9 98
-1.0000E-01	4.4713E-01	0.	4.4547E-01	1.0000E-01	4.4713E-01	105914 9 99
2.0000E-01	4.5284E-01	3.0000E-01	4.6210E-01	4.0000E-01	4.7451E-01	105914 9 100
5.0000E-01	4.8926E-01	6.0000E-01	5.0607E-01	7.0000E-01	5.2737E-01	105914 9 101
8.0000E-01	5.5034E-01	9.0000E-01	5.7258E-01	1.0000E+00	5.9394E-01	105914 9 102
0.	8.0000E+00	0	0	1	21105914	9 103

21	2				105914	9	104
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-7.0000E-01	5.2643E-01	-6.0000E-01	5.0622E-01	-5.0000E-01	4.8934E-01	105914	9 106
-4.0000E-01	4.7498E-01	-3.0000E-01	4.6289E-01	-2.0000E-01	4.5376E-01	105914	9 107
-1.0000E-01	4.4813E-01	0.	4.4646E-01	1.0000E-01	4.4813E-01	105914	9 108
2.0000E-01	4.5376E-01	3.0000E-01	4.6289E-01	4.0000E-01	4.7498E-01	105914	9 109
5.0000E-01	4.8934E-01	6.0000E-01	5.0622E-01	7.0000E-01	5.2671E-01	105914	9 110
8.0000E-01	5.4939E-01	9.0000E-01	5.7117E-01	1.0000E+00	5.9242E-01	105914	9 111
0.	8.5000E+00	0	0	1	21105914	9	112
21	2				105914	9	113
-1.0000E+00	5.9076E-01	-9.0000E-01	5.6961E-01	-8.0000E-01	5.4837E-01	105914	9 114
-7.0000E-01	5.2586E-01	-6.0000E-01	5.0650E-01	-5.0000E-01	4.8939E-01	105914	9 115
-4.0000E-01	4.7546E-01	-3.0000E-01	4.6376E-01	-2.0000E-01	4.5473E-01	105914	9 116
-1.0000E-01	4.4921E-01	0.	4.4749E-01	1.0000E-01	4.4921E-01	105914	9 117
2.0000E-01	4.5473E-01	3.0000E-01	4.6376E-01	4.0000E-01	4.7546E-01	105914	9 118
5.0000E-01	4.8939E-01	6.0000E-01	5.0650E-01	7.0000E-01	5.2601E-01	105914	9 119
8.0000E-01	5.4837E-01	9.0000E-01	5.6961E-01	1.0000E+00	5.9076E-01	105914	9 120
0.	9.0000E+00	0	0	1	21105914	9	121
21	2				105914	9	122
-1.0000E+00	5.8899E-01	-9.0000E-01	5.6790E-01	-8.0000E-01	5.4726E-01	105914	9 123
-7.0000E-01	5.2529E-01	-6.0000E-01	5.0690E-01	-5.0000E-01	4.8940E-01	105914	9 124
-4.0000E-01	4.7594E-01	-3.0000E-01	4.6473E-01	-2.0000E-01	4.5576E-01	105914	9 125
-1.0000E-01	4.5037E-01	0.	4.4857E-01	1.0000E-01	4.5037E-01	105914	9 126
2.0000E-01	4.5576E-01	3.0000E-01	4.6473E-01	4.0000E-01	4.7594E-01	105914	9 127
5.0000E-01	4.8940E-01	6.0000E-01	5.0690E-01	7.0000E-01	5.2529E-01	105914	9 128
8.0000E-01	5.4726E-01	9.0000E-01	5.6790E-01	1.0000E+00	5.8899E-01	105914	9 129
2.7050E+00	6.2500E-01	0	0	1	14105914	9	130
14	2				105914	9	131
0.	2.8230E+00	0	0	1	21105914	9	132
21	2				105914	9	133
-1.0000E+00	6.4000E-01	-9.0000E-01	6.1182E-01	-8.0000E-01	5.8021E-01	105914	9 134
-7.0000E-01	5.4918E-01	-6.0000E-01	5.1788E-01	-5.0000E-01	4.6429E-01	105914	9 135
-4.0000E-01	4.6441E-01	-3.0000E-01	4.4421E-01	-2.0000E-01	4.3037E-01	105914	9 136
-1.0000E-01	4.1985E-01	0.	4.1685E-01	1.0000E-01	4.1985E-01	105914	9 137
2.0000E-01	4.3037E-01	3.0000E-01	4.4421E-01	4.0000E-01	4.6441E-01	105914	9 138
5.0000E-01	4.6429E-01	6.0000E-01	5.1788E-01	7.0000E-01	5.4918E-01	105914	9 139
8.0000E-01	5.8021E-01	9.0000E-01	6.1182E-01	1.0000E+00	6.4000E-01	105914	9 140
0.	3.0000E+00	0	0	1	21105914	9	141
21	2				105914	9	142
-1.0000E+00	6.2324E-01	-9.0000E-01	5.9732E-01	-8.0000E-01	5.6931E-01	105914	9 143
-7.0000E-01	5.4144E-01	-6.0000E-01	5.1399E-01	-5.0000E-01	4.7439E-01	105914	9 144
-4.0000E-01	4.6738E-01	-3.0000E-01	4.5062E-01	-2.0000E-01	4.3778E-01	105914	9 145
-1.0000E-01	4.2954E-01	0.	4.2667E-01	1.0000E-01	4.2954E-01	105914	9 146
2.0000E-01	4.3778E-01	3.0000E-01	4.5062E-01	4.0000E-01	4.6738E-01	105914	9 147
5.0000E-01	4.7439E-01	6.0000E-01	5.1399E-01	7.0000E-01	5.4143E-01	105914	9 148
8.0000E-01	5.6931E-01	9.0000E-01	5.9732E-01	1.0000E+00	6.2324E-01	105914	9 149
0.	3.5000E+00	0	0	1	21105914	9	150
21	2				105914	9	151
-1.0000E+00	6.0825E-01	-9.0000E-01	5.8439E-01	-8.0000E-01	5.5957E-01	105914	9 152
-7.0000E-01	5.3451E-01	-6.0000E-01	5.1047E-01	-5.0000E-01	4.8338E-01	105914	9 153
-4.0000E-01	4.7006E-01	-3.0000E-01	4.5633E-01	-2.0000E-01	4.4442E-01	105914	9 154
-1.0000E-01	4.3821E-01	0.	4.3548E-01	1.0000E-01	4.3821E-01	105914	9 155
2.0000E-01	4.4442E-01	3.0000E-01	4.5633E-01	4.0000E-01	4.7006E-01	105914	9 156
5.0000E-01	4.8338E-01	6.0000E-01	5.1047E-01	7.0000E-01	5.3450E-01	105914	9 157
8.0000E-01	5.5957E-01	9.0000E-01	5.8439E-01	1.0000E+00	6.0825E-01	105914	9 158
0.	4.0000E+00	0	0	1	21105914	9	159
21	2				105914	9	160
-1.0000E+00	5.9722E-01	-9.0000E-01	5.7490E-01	-8.0000E-01	5.5241E-01	105914	9 161
-7.0000E-01	5.2936E-01	-6.0000E-01	5.0779E-01	-5.0000E-01	4.8994E-01	105914	9 162
-4.0000E-01	4.7211E-01	-3.0000E-01	4.6054E-01	-2.0000E-01	4.4939E-01	105914	9 163
-1.0000E-01	4.4460E-01	0.	4.4203E-01	1.0000E-01	4.4460E-01	105914	9 164
2.0000E-01	4.4939E-01	3.0000E-01	4.6054E-01	4.0000E-01	4.7211E-01	105914	9 165
5.0000E-01	4.8994E-01	6.0000E-01	5.0779E-01	7.0000E-01	5.2937E-01	105914	9 166
8.0000E-01	5.5241E-01	9.0000E-01	5.7490E-01	1.0000E+00	5.9722E-01	105914	9 167
0.	4.5000E+00	0	0	1	21105914	9	168

21	2			105914	9	169
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-7.0000E-01	5.2598E-01-6.0000E-01	5.0596E-01-5.0000E-01	4.9405E-01-105914	9	171	
-4.0000E-01	4.7352E-01-3.0000E-01	4.6323E-01-2.0000E-01	4.5269E-01-105914	9	172	
-1.0000E-01	4.4873E-01 0.	4.4631E-01 1.0000E-01	4.4873E-01-105914	9	173	
2.0000E-01	4.5269E-01 3.0000E-01	4.6323E-01 4.0000E-01	4.7352E-01-105914	9	174	
5.0000E-01	4.9405E-01 6.0000E-01	5.0596E-01 7.0000E-01	5.2605E-01-105914	9	175	
8.0000E-01	5.4781E-01 9.0000E-01	5.6886E-01 1.0000E+00	5.9014E-01-105914	9	176	
0.	5.0000E+00 0	0	1	21105914	9	177
21	2		105914	9	178	
-1.0000E+00	5.8703E-01-9.0000E-01	5.6627E-01-8.0000E-01	5.4579E-01-105914	9	179	
-7.0000E-01	5.2438E-01-6.0000E-01	5.0495E-01-5.0000E-01	4.9574E-01-105914	9	180	
-4.0000E-01	4.7430E-01-3.0000E-01	4.6442E-01-2.0000E-01	4.5430E-01-105914	9	181	
-1.0000E-01	4.5060E-01 0.	4.4835E-01 1.0000E-01	4.5060E-01-105914	9	182	
2.0000E-01	4.5430E-01 3.0000E-01	4.6442E-01 4.0000E-01	4.7430E-01-105914	9	183	
5.0000E-01	4.9574E-01 6.0000E-01	5.0495E-01 7.0000E-01	5.2452E-01-105914	9	184	
8.0000E-01	5.4579E-01 9.0000E-01	5.6627E-01 1.0000E+00	5.8703E-01-105914	9	185	
0.	5.5000E+00 0	0	1	21105914	9	186
21	2		105914	9	187	
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-7.0000E-01	5.2926E-01-6.0000E-01	5.0670E-01-5.0000E-01	4.8862E-01-105914	9	189	
-4.0000E-01	4.7275E-01-3.0000E-01	4.5985E-01-2.0000E-01	4.4967E-01-105914	9	190	
-1.0000E-01	4.4398E-01 0.	4.4202E-01 1.0000E-01	4.4398E-01-105914	9	191	
2.0000E-01	4.4967E-01 3.0000E-01	4.5985E-01 4.0000E-01	4.7275E-01-105914	9	192	
5.0000E-01	4.8862E-01 6.0000E-01	5.0670E-01 7.0000E-01	5.2966E-01-105914	9	193	
8.0000E-01	5.5335E-01 9.0000E-01	5.7668E-01 1.0000E+00	5.9870E-01-105914	9	194	
0.	6.0000E+00 0	0	1	21105914	9	195
21	2		105914	9	196	
-1.0000E+00	5.9771E-01-9.0000E-01	5.7588E-01-8.0000E-01	5.5271E-01-105914	9	197	
-7.0000E-01	5.2870E-01-6.0000E-01	5.0636E-01-5.0000E-01	4.8883E-01-105914	9	198	
-4.0000E-01	4.7317E-01-3.0000E-01	4.6029E-01-2.0000E-01	4.5039E-01-105914	9	199	
-1.0000E-01	4.4464E-01 0.	4.4281E-01 1.0000E-01	4.4464E-01-105914	9	200	
2.0000E-01	4.5039E-01 3.0000E-01	4.6029E-01 4.0000E-01	4.7317E-01-105914	9	201	
5.0000E-01	4.8883E-01 6.0000E-01	5.0636E-01 7.0000E-01	5.2914E-01-105914	9	202	
8.0000E-01	5.5271E-01 9.0000E-01	5.7588E-01 1.0000E+00	5.9771E-01-105914	9	203	
0.	6.5000E+00 0	0	1	21105914	9	204
21	2		105914	9	205	
-1.0000E+00	5.9658E-01-9.0000E-01	5.7494E-01-8.0000E-01	5.5200E-01-105914	9	206	
-7.0000E-01	5.2813E-01-6.0000E-01	5.0614E-01-5.0000E-01	4.8901E-01-105914	9	207	
-4.0000E-01	4.7361E-01-3.0000E-01	4.6080E-01-2.0000E-01	4.5116E-01-105914	9	208	
-1.0000E-01	4.4539E-01 0.	4.4365E-01 1.0000E-01	4.4539E-01-105914	9	209	
2.0000E-01	4.5116E-01 3.0000E-01	4.6080E-01 4.0000E-01	4.7361E-01-105914	9	210	
5.0000E-01	4.8901E-01 6.0000E-01	5.0614E-01 7.0000E-01	5.2858E-01-105914	9	211	
8.0000E-01	5.5200E-01 9.0000E-01	5.7494E-01 1.0000E+00	5.9658E-01-105914	9	212	
0.	7.0000E+00 0	0	1	21105914	9	213
21	2		105914	9	214	
-1.0000E+00	5.9532E-01-9.0000E-01	5.7384E-01-8.0000E-01	5.5120E-01-105914	9	215	
-7.0000E-01	5.2757E-01-6.0000E-01	5.0605E-01-5.0000E-01	4.8915E-01-105914	9	216	
-4.0000E-01	4.7406E-01-3.0000E-01	4.6141E-01-2.0000E-01	4.5197E-01-105914	9	217	
-1.0000E-01	4.4622E-01 0.	4.4454E-01 1.0000E-01	4.4622E-01-105914	9	218	
2.0000E-01	4.5197E-01 3.0000E-01	4.6141E-01 4.0000E-01	4.7406E-01-105914	9	219	
5.0000E-01	4.8915E-01 6.0000E-01	5.0605E-01 7.0000E-01	5.2799E-01-105914	9	220	
8.0000E-01	5.5120E-01 9.0000E-01	5.7384E-01 1.0000E+00	5.9532E-01-105914	9	221	
0.	7.5000E+00 0	0	1	21105914	9	222
21	2		105914	9	223	
-1.0000E+00	5.9394E-01-9.0000E-01	5.7258E-01-8.0000E-01	5.5034E-01-105914	9	224	
-7.0000E-01	5.2700E-01-6.0000E-01	5.0607E-01-5.0000E-01	4.8926E-01-105914	9	225	
-4.0000E-01	4.7451E-01-3.0000E-01	4.6210E-01-2.0000E-01	4.5284E-01-105914	9	226	
-1.0000E-01	4.4713E-01 0.	4.4547E-01 1.0000E-01	4.4713E-01-105914	9	227	
2.0000E-01	4.5284E-01 3.0000E-01	4.6210E-01 4.0000E-01	4.7451E-01-105914	9	228	
5.0000E-01	4.8926E-01 6.0000E-01	5.0607E-01 7.0000E-01	5.2737E-01-105914	9	229	
8.0000E-01	5.5034E-01 9.0000E-01	5.7258E-01 1.0000E+00	5.9394E-01-105914	9	230	
0.	8.0000E+00 0	0	1	21105914	9	231
21	2		105914	9	232	
-1.0000E+00	5.9242E-01-9.0000E-01	5.7117E-01-8.0000E-01	5.4939E-01-105914	9	233	
-7.0000E-01	5.2643E-01-6.0000E-01	5.0622E-01-5.0000E-01	4.8934E-01-105914	9	234	
-4.0000E-01	4.7498E-01-3.0000E-01	4.6209E-01-2.0000E-01	4.5376E-01-105914	9	235	
-1.0000E-01	4.4813E-01 0.	4.4646E-01 1.0000E-01	4.4813E-01-105914	9	236	
2.0000E-01	4.5376E-01 3.0000E-01	4.6209E-01 4.0000E-01	4.7498E-01-105914	9	237	
5.0000E-01	4.8934E-01 6.0000E-01	5.0622E-01 7.0000E-01	5.2671E-01-105914	9	238	
8.0000E-01	5.4939E-01 9.0000E-01	5.7117E-01 1.0000E+00	5.9242E-01-105914	9	239	
0.	8.5000E+00 0	0	1	21105914	9	240

21	2			105914	9	241
-1.0000E+00	5.9076E-01	-9.0000E-01	5.6961E-01	-8.0000E-01	5.4837E-01	105914 9 242
-7.0000E-01	5.2586E-01	-6.0000E-01	5.0650E-01	-5.0000E-01	4.8939E-01	105914 9 243
-4.0000E-01	4.7546E-01	-3.0000E-01	4.6376E-01	-2.0000E-01	4.5473E-01	105914 9 244
-1.0000E-01	4.4921E-01	0.	4.4749E-01	1.0000E-01	4.4921E-01	105914 9 245
2.0000E-01	4.5473E-01	3.0000E-01	4.6376E-01	4.0000E-01	4.7546E-01	105914 9 246
5.0000E-01	4.8939E-01	6.0000E-01	5.0650E-01	7.0000E-01	5.2601E-01	105914 9 247
8.0000E-01	5.4837E-01	9.0000E-01	5.6961E-01	1.0000E+00	5.9076E-01	105914 9 248
0.	9.0000E+00	0	0	1	21105914	9 249
21	2			105914	9	250
-1.0000E+00	5.8899E-01	-9.0000E-01	5.6790E-01	-8.0000E-01	5.4726E-01	105914 9 251
-7.0000E-01	5.2529E-01	-6.0000E-01	5.0690E-01	-5.0000E-01	4.8940E-01	105914 9 252
-4.0000E-01	4.7594E-01	-3.0000E-01	4.6473E-01	-2.0000E-01	4.5576E-01	105914 9 253
-1.0000E-01	4.5037E-01	0.	4.4857E-01	1.0000E-01	4.5037E-01	105914 9 254
2.0000E-01	4.5576E-01	3.0000E-01	4.6473E-01	4.0000E-01	4.7594E-01	105914 9 255
5.0000E-01	4.8940E-01	6.0000E-01	5.0690E-01	7.0000E-01	5.2529E-01	105914 9 256
8.0000E-01	5.4726E-01	9.0000E-01	5.6790E-01	1.0000E+00	5.8899E-01	105914 9 257
0.	0.	0	0	0	0105914	0 258
1.1023E+04	2.2786E+01	0	2	2	0105914	10 1
2.9840E+00	2.9840E+00	0	0	1	13105914	10 2
13	2			105914	10	3
0.	3.1140E+00	0	0	1	21105914	10 4
21	2			105914	10	5
-1.0000E+00	4.9834E-01	-9.0000E-01	4.9879E-01	-8.0000E-01	4.9924E-01	105914 10 6
-7.0000E-01	4.9964E-01	-6.0000E-01	4.9994E-01	-5.0000E-01	5.0019E-01	105914 10 7
-4.0000E-01	5.0044E-01	-3.0000E-01	5.0059E-01	-2.0000E-01	5.0074E-01	105914 10 8
-1.0000E-01	5.0080E-01	0.	5.0085E-01	1.0000E-01	5.0080E-01	105914 10 9
2.0000E-01	5.0074E-01	3.0000E-01	5.0059E-01	4.0000E-01	5.0044E-01	105914 10 10
5.0000E-01	5.0019E-01	6.0000E-01	4.9994E-01	7.0000E-01	4.9964E-01	105914 10 11
8.0000E-01	4.9924E-01	9.0000E-01	4.9879E-01	1.0000E+00	4.9834E-01	105914 10 12
0.	3.5000E+00	0	0	1	21105914	10 13
21	2			105914	10	14
-1.0000E+00	4.9651E-01	-9.0000E-01	4.9747E-01	-8.0000E-01	4.9803E-01	105914 10 15
-7.0000E-01	4.9926E-01	-6.0000E-01	4.9990E-01	-5.0000E-01	5.0045E-01	105914 10 16
-4.0000E-01	5.0097E-01	-3.0000E-01	5.0128E-01	-2.0000E-01	5.0158E-01	105914 10 17
-1.0000E-01	5.0173E-01	0.	5.0182E-01	1.0000E-01	5.0173E-01	105914 10 18
2.0000E-01	5.0158E-01	3.0000E-01	5.0128E-01	4.0000E-01	5.0097E-01	105914 10 19
5.0000E-01	5.0045E-01	6.0000E-01	4.9990E-01	7.0000E-01	4.9926E-01	105914 10 20
8.0000E-01	4.9803E-01	9.0000E-01	4.9747E-01	1.0000E+00	4.9651E-01	105914 10 21
0.	4.0000E+00	0	0	1	21105914	10 22
21	2			105914	10	23
-1.0000E+00	4.9513E-01	-9.0000E-01	4.9647E-01	-8.0000E-01	4.9718E-01	105914 10 24
-7.0000E-01	4.9894E-01	-6.0000E-01	4.9986E-01	-5.0000E-01	5.0064E-01	105914 10 25
-4.0000E-01	5.0136E-01	-3.0000E-01	5.0179E-01	-2.0000E-01	5.0221E-01	105914 10 26
-1.0000E-01	5.0243E-01	0.	5.0254E-01	1.0000E-01	5.0243E-01	105914 10 27
2.0000E-01	5.0221E-01	3.0000E-01	5.0179E-01	4.0000E-01	5.0136E-01	105914 10 28
5.0000E-01	5.0064E-01	6.0000E-01	4.9986E-01	7.0000E-01	4.9894E-01	105914 10 29
8.0000E-01	4.9718E-01	9.0000E-01	4.9647E-01	1.0000E+00	4.9513E-01	105914 10 30
0.	4.5000E+00	0	0	1	21105914	10 31
21	2			105914	10	32
-1.0000E+00	4.9418E-01	-9.0000E-01	4.9579E-01	-8.0000E-01	4.9671E-01	105914 10 33
-7.0000E-01	4.9871E-01	-6.0000E-01	4.9981E-01	-5.0000E-01	5.0076E-01	105914 10 34
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0215E-01	-2.0000E-01	5.0263E-01	105914 10 35
-1.0000E-01	5.0290E-01	0.	5.0301E-01	1.0000E-01	5.0290E-01	105914 10 36
2.0000E-01	5.0263E-01	3.0000E-01	5.0215E-01	4.0000E-01	5.0161E-01	105914 10 37
5.0000E-01	5.0076E-01	6.0000E-01	4.9981E-01	7.0000E-01	4.9871E-01	105914 10 38
8.0000E-01	4.9671E-01	9.0000E-01	4.9579E-01	1.0000E+00	4.9418E-01	105914 10 39
0.	5.0000E+00	0	0	1	21105914	10 40
21	2			105914	10	41
-1.0000E+00	4.9368E-01	-9.0000E-01	4.9544E-01	-8.0000E-01	4.9660E-01	105914 10 42
-7.0000E-01	4.9856E-01	-6.0000E-01	4.9977E-01	-5.0000E-01	5.0083E-01	105914 10 43
-4.0000E-01	5.0173E-01	-3.0000E-01	5.0233E-01	-2.0000E-01	5.0284E-01	105914 10 44
-1.0000E-01	5.0314E-01	0.	5.0324E-01	1.0000E-01	5.0314E-01	105914 10 45
2.0000E-01	5.0284E-01	3.0000E-01	5.0233E-01	4.0000E-01	5.0173E-01	105914 10 46
5.0000E-01	5.0083E-01	6.0000E-01	4.9977E-01	7.0000E-01	4.9856E-01	105914 10 47
8.0000E-01	4.9660E-01	9.0000E-01	4.9544E-01	1.0000E+00	4.9368E-01	105914 10 48
0.	5.5000E+00	0	0	1	21105914	10 49

21	2			105914	10	50
-1.0000E+00	4.9373E-01	-9.0000E-01	4.9549E-01	-8.0000E-01	4.9697E-01	105914 10 51
-7.0000E-01	4.9850E-01	-6.0000E-01	4.9971E-01	-5.0000E-01	5.0081E-01	105914 10 52
-4.0000E-01	5.0167E-01	-3.0000E-01	5.0231E-01	-2.0000E-01	5.0281E-01	105914 10 53
-1.0000E-01	5.0309E-01	0.	5.0315E-01	1.0000E-01	5.0309E-01	105914 10 54
2.0000E-01	5.0281E-01	3.0000E-01	5.0231E-01	4.0000E-01	5.0167E-01	105914 10 55
5.0000E-01	5.0081E-01	6.0000E-01	4.9971E-01	7.0000E-01	4.9850E-01	105914 10 56
8.0000E-01	4.9697E-01	9.0000E-01	4.9549E-01	1.0000E+00	4.9373E-01	105914 10 57
0.	6.0000E+00	0	0	1	21105914	10 58
21	2			105914	10	59
-1.0000E+00	4.9378E-01	-9.0000E-01	4.9554E-01	-8.0000E-01	4.9726E-01	105914 10 60
-7.0000E-01	4.9847E-01	-6.0000E-01	4.9968E-01	-5.0000E-01	5.0080E-01	105914 10 61
-4.0000E-01	5.0164E-01	-3.0000E-01	5.0230E-01	-2.0000E-01	5.0269E-01	105914 10 62
-1.0000E-01	5.0304E-01	0.	5.0308E-01	1.0000E-01	5.0304E-01	105914 10 63
2.0000E-01	5.0269E-01	3.0000E-01	5.0230E-01	4.0000E-01	5.0164E-01	105914 10 64
5.0000E-01	5.0080E-01	6.0000E-01	4.9968E-01	7.0000E-01	4.9847E-01	105914 10 65
8.0000E-01	4.9726E-01	9.0000E-01	4.9554E-01	1.0000E+00	4.9378E-01	105914 10 66
0.	6.5000E+00	0	0	1	21105914	10 67
21	2			105914	10	68
-1.0000E+00	4.9385E-01	-9.0000E-01	4.9560E-01	-8.0000E-01	4.9748E-01	105914 10 69
-7.0000E-01	4.9846E-01	-6.0000E-01	4.9966E-01	-5.0000E-01	5.0080E-01	105914 10 70
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0230E-01	-2.0000E-01	5.0249E-01	105914 10 71
-1.0000E-01	5.0299E-01	0.	5.0304E-01	1.0000E-01	5.0299E-01	105914 10 72
2.0000E-01	5.0249E-01	3.0000E-01	5.0230E-01	4.0000E-01	5.0161E-01	105914 10 73
5.0000E-01	5.0080E-01	6.0000E-01	4.9966E-01	7.0000E-01	4.9846E-01	105914 10 74
8.0000E-01	4.9748E-01	9.0000E-01	4.9560E-01	1.0000E+00	4.9385E-01	105914 10 75
0.	7.0000E+00	0	0	1	21105914	10 76
21	2			105914	10	77
-1.0000E+00	4.9393E-01	-9.0000E-01	4.9567E-01	-8.0000E-01	4.9763E-01	105914 10 78
-7.0000E-01	4.9848E-01	-6.0000E-01	4.9968E-01	-5.0000E-01	5.0081E-01	105914 10 79
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0231E-01	-2.0000E-01	5.0221E-01	105914 10 80
-1.0000E-01	5.0293E-01	0.	5.0303E-01	1.0000E-01	5.0293E-01	105914 10 81
2.0000E-01	5.0221E-01	3.0000E-01	5.0231E-01	4.0000E-01	5.0161E-01	105914 10 82
5.0000E-01	5.0081E-01	6.0000E-01	4.9968E-01	7.0000E-01	4.9848E-01	105914 10 83
8.0000E-01	4.9763E-01	9.0000E-01	4.9567E-01	1.0000E+00	4.9393E-01	105914 10 84
0.	7.5000E+00	0	0	1	21105914	10 85
21	2			105914	10	86
-1.0000E+00	4.9401E-01	-9.0000E-01	4.9574E-01	-8.0000E-01	4.9770E-01	105914 10 87
-7.0000E-01	4.9853E-01	-6.0000E-01	4.9971E-01	-5.0000E-01	5.0083E-01	105914 10 88
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0233E-01	-2.0000E-01	5.0184E-01	105914 10 89
-1.0000E-01	5.0288E-01	0.	5.0304E-01	1.0000E-01	5.0288E-01	105914 10 90
2.0000E-01	5.0184E-01	3.0000E-01	5.0233E-01	4.0000E-01	5.0161E-01	105914 10 91
5.0000E-01	5.0083E-01	6.0000E-01	4.9971E-01	7.0000E-01	4.9853E-01	105914 10 92
8.0000E-01	4.9770E-01	9.0000E-01	4.9574E-01	1.0000E+00	4.9401E-01	105914 10 93
0.	8.0000E+00	0	0	1	21105914	10 94
21	2			105914	10	95
-1.0000E+00	4.9411E-01	-9.0000E-01	4.9582E-01	-8.0000E-01	4.9769E-01	105914 10 96
-7.0000E-01	4.9860E-01	-6.0000E-01	4.9978E-01	-5.0000E-01	5.0087E-01	105914 10 97
-4.0000E-01	5.0163E-01	-3.0000E-01	5.0235E-01	-2.0000E-01	5.0138E-01	105914 10 98
-1.0000E-01	5.0283E-01	0.	5.0308E-01	1.0000E-01	5.0283E-01	105914 10 99
2.0000E-01	5.0138E-01	3.0000E-01	5.0235E-01	4.0000E-01	5.0163E-01	105914 10 100
5.0000E-01	5.0087E-01	6.0000E-01	4.9978E-01	7.0000E-01	4.9860E-01	105914 10 101
8.0000E-01	4.9769E-01	9.0000E-01	4.9582E-01	1.0000E+00	4.9411E-01	105914 10 102
0.	8.5000E+00	0	0	1	21105914	10 103
21	2			105914	10	104
-1.0000E+00	4.9422E-01	-9.0000E-01	4.9590E-01	-8.0000E-01	4.9761E-01	105914 10 105
-7.0000E-01	4.9869E-01	-6.0000E-01	4.9986E-01	-5.0000E-01	5.0091E-01	105914 10 106
-4.0000E-01	5.0167E-01	-3.0000E-01	5.0239E-01	-2.0000E-01	5.0084E-01	105914 10 107
-1.0000E-01	5.0278E-01	0.	5.0314E-01	1.0000E-01	5.0278E-01	105914 10 108
2.0000E-01	5.0084E-01	3.0000E-01	5.0239E-01	4.0000E-01	5.0167E-01	105914 10 109
5.0000E-01	5.0091E-01	6.0000E-01	4.9986E-01	7.0000E-01	4.9869E-01	105914 10 110
8.0000E-01	4.9761E-01	9.0000E-01	4.9590E-01	1.0000E+00	4.9422E-01	105914 10 111
0.	9.0000E+00	0	0	1	21105914	10 112
21	2			105914	10	113
-1.0000E+00	4.9433E-01	-9.0000E-01	4.9599E-01	-8.0000E-01	4.9745E-01	105914 10 114
-7.0000E-01	4.9881E-01	-6.0000E-01	4.9997E-01	-5.0000E-01	5.0097E-01	105914 10 115
-4.0000E-01	5.0173E-01	-3.0000E-01	5.0243E-01	-2.0000E-01	5.0022E-01	105914 10 116
-1.0000E-01	5.0273E-01	0.	5.0324E-01	1.0000E-01	5.0213E-01	105914 10 117
2.0000E-01	5.0022E-01	3.0000E-01	5.0243E-01	4.0000E-01	5.0173E-01	105914 10 118
5.0000E-01	5.0097E-01	6.0000E-01	4.9997E-01	7.0000E-01	4.9881E-01	105914 10 119
8.0000E-01	4.9745E-01	9.0000E-01	4.9599E-01	1.0000E+00	4.9433E-01	105914 10 120
2.9840E+00	2.5448E+00	0	0	1	19105914	10 121

0.	13	2				105914	10	122
	21	2				21105914	10	123
-1.0000E+00	4.9834E-01	9.0000E-01	4.9879E-01	8.0000E-01	4.9924E-01	105914	10	124
-7.0000E-01	4.9964E-01	6.0000E-01	4.9994E-01	5.0000E-01	5.0019E-01	105914	10	125
-4.0000E-01	5.0044E-01	3.0000E-01	5.0059E-01	2.0000E-01	5.0074E-01	105914	10	126
-1.0000E-01	5.0080E-01	0.	5.0085E-01	1.0000E-01	5.0080E-01	105914	10	127
2.0000E-01	5.0074E-01	3.0000E-01	5.0059E-01	4.0000E-01	5.0044E-01	105914	10	128
5.0000E-01	5.0019E-01	6.0000E-01	4.9994E-01	7.0000E-01	4.9964E-01	105914	10	129
8.0000E-01	4.9924E-01	9.0000E-01	4.9879E-01	1.0000E+00	4.9834E-01	105914	10	130
0.	3.5000E+00	0	0	1	21105914	10	131	132
	21	2				105914	10	133
-1.0000E+00	4.9651E-01	9.0000E-01	4.9747E-01	8.0000E-01	4.9803E-01	105914	10	134
-7.0000E-01	4.9926E-01	6.0000E-01	4.9990E-01	5.0000E-01	5.0045E-01	105914	10	135
-4.0000E-01	5.0097E-01	3.0000E-01	5.0128E-01	2.0000E-01	5.0158E-01	105914	10	136
-1.0000E-01	5.0173E-01	0.	5.0182E-01	1.0000E-01	5.0173E-01	105914	10	137
2.0000E-01	5.0158E-01	3.0000E-01	5.0128E-01	4.0000E-01	5.0097E-01	105914	10	138
5.0000E-01	5.0045E-01	6.0000E-01	4.9990E-01	7.0000E-01	4.9926E-01	105914	10	139
8.0000E-01	4.9803E-01	9.0000E-01	4.9747E-01	1.0000E+00	4.9651E-01	105914	10	140
0.	4.0000E+00	0	0	1	21105914	10	141	142
	21	2				105914	10	143
-1.0000E+00	4.9513E-01	9.0000E-01	4.9647E-01	8.0000E-01	4.9718E-01	105914	10	144
-7.0000E-01	4.9894E-01	6.0000E-01	4.9986E-01	5.0000E-01	5.0064E-01	105914	10	145
-4.0000E-01	5.0136E-01	3.0000E-01	5.0179E-01	2.0000E-01	5.0221E-01	105914	10	146
-1.0000E-01	5.0243E-01	0.	5.0254E-01	1.0000E-01	5.0243E-01	105914	10	147
2.0000E-01	5.0221E-01	3.0000E-01	5.0179E-01	4.0000E-01	5.0136E-01	105914	10	148
5.0000E-01	5.0064E-01	6.0000E-01	4.9986E-01	7.0000E-01	4.9894E-01	105914	10	149
8.0000E-01	4.9718E-01	9.0000E-01	4.9647E-01	1.0000E+00	4.9513E-01	105914	10	150
0.	4.5000E+00	0	0	1	21105914	10	151	152
	21	2				105914	10	153
-1.0000E+00	4.9418E-01	9.0000E-01	4.9579E-01	8.0000E-01	4.9671E-01	105914	10	154
-7.0000E-01	4.9871E-01	6.0000E-01	4.9981E-01	5.0000E-01	5.0076E-01	105914	10	155
-4.0000E-01	5.0161E-01	3.0000E-01	5.0215E-01	2.0000E-01	5.0263E-01	105914	10	156
-1.0000E-01	5.0290E-01	0.	5.0301E-01	1.0000E-01	5.0290E-01	105914	10	157
2.0000E-01	5.0263E-01	3.0000E-01	5.0215E-01	4.0000E-01	5.0161E-01	105914	10	158
5.0000E-01	5.0076E-01	6.0000E-01	4.9981E-01	7.0000E-01	4.9871E-01	105914	10	159
8.0000E-01	4.9671E-01	9.0000E-01	4.9579E-01	1.0000E+00	4.9418E-01	105914	10	160
0.	5.0000E+00	0	0	1	21105914	10	161	162
	21	2				105914	10	163
-1.0000E+00	4.9368E-01	9.0000E-01	4.9544E-01	8.0000E-01	4.9660E-01	105914	10	164
-7.0000E-01	4.9856E-01	6.0000E-01	4.9977E-01	5.0000E-01	5.0083E-01	105914	10	165
-4.0000E-01	5.0173E-01	3.0000E-01	5.0233E-01	2.0000E-01	5.0284E-01	105914	10	166
-1.0000E-01	5.0314E-01	0.	5.0324E-01	1.0000E-01	5.0314E-01	105914	10	167
2.0000E-01	5.0284E-01	3.0000E-01	5.0233E-01	4.0000E-01	5.0173E-01	105914	10	168
5.0000E-01	5.0083E-01	6.0000E-01	4.9977E-01	7.0000E-01	4.9856E-01	105914	10	169
8.0000E-01	4.9660E-01	9.0000E-01	4.9544E-01	1.0000E+00	4.9368E-01	105914	10	170
0.	5.5000E+00	0	0	1	21105914	10	171	172
	21	2				105914	10	173
-1.0000E+00	4.9373E-01	9.0000E-01	4.9549E-01	8.0000E-01	4.9697E-01	105914	10	174
-7.0000E-01	4.9850E-01	6.0000E-01	4.9971E-01	5.0000E-01	5.0081E-01	105914	10	175
-4.0000E-01	5.0167E-01	3.0000E-01	5.0231E-01	2.0000E-01	5.0281E-01	105914	10	176
-1.0000E-01	5.0309E-01	0.	5.0315E-01	1.0000E-01	5.0309E-01	105914	10	177
2.0000E-01	5.0281E-01	3.0000E-01	5.0231E-01	4.0000E-01	5.0167E-01	105914	10	178
5.0000E-01	5.0081E-01	6.0000E-01	4.9971E-01	7.0000E-01	4.9850E-01	105914	10	179
8.0000E-01	4.9697E-01	9.0000E-01	4.9549E-01	1.0000E+00	4.9373E-01	105914	10	180
0.	6.0000E+00	0	0	1	21105914	10	181	182
	21	2				105914	10	183
-1.0000E+00	4.9378E-01	9.0000E-01	4.9554E-01	8.0000E-01	4.9726E-01	105914	10	184
-7.0000E-01	4.9847E-01	6.0000E-01	4.9968E-01	5.0000E-01	5.0080E-01	105914	10	185
-4.0000E-01	5.0164E-01	3.0000E-01	5.0230E-01	2.0000E-01	5.0269E-01	105914	10	186
-1.0000E-01	5.0304E-01	0.	5.0308E-01	1.0000E-01	5.0304E-01	105914	10	187
2.0000E-01	5.0269E-01	3.0000E-01	5.0230E-01	4.0000E-01	5.0164E-01	105914	10	188
5.0000E-01	5.0080E-01	6.0000E-01	4.9968E-01	7.0000E-01	4.9847E-01	105914	10	189
8.0000E-01	4.9726E-01	9.0000E-01	4.9554E-01	1.0000E+00	4.9378E-01	105914	10	190
0.	6.5000E+00	0	0	1	21105914	10	191	192

21	2			105914	10	187
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-7.0000E-01	4.9846E-01	-6.0000E-01	4.9966E-01	-5.0000E-01	5.0080E-01	105914 10 189
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0230E-01	-2.0000E-01	5.0249E-01	105914 10 190
-1.0000E-01	5.0299E-01	0.	5.0304E-01	1.0000E-01	5.0299E-01	105914 10 191
2.0000E-01	5.0249E-01	3.0000E-01	5.0230E-01	4.0000E-01	5.0161E-01	105914 10 192
5.0000E-01	5.0080E-01	6.0000E-01	4.9966E-01	7.0000E-01	4.9846E-01	105914 10 193
8.0000E-01	4.9748E-01	9.0000E-01	4.9560E-01	1.0000E+00	4.9385E-01	105914 10 194
0.	7.0000E+00	0	0	1	21105914	10 195
21	2			105914	10	196
-1.0000E+00	4.9393E-01	-9.0000E-01	4.9567E-01	-8.0000E-01	4.9763E-01	105914 10 197
-7.0000E-01	4.9848E-01	-6.0000E-01	4.9968E-01	-5.0000E-01	5.0081E-01	105914 10 198
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0231E-01	-2.0000E-01	5.0221E-01	105914 10 199
-1.0000E-01	5.0293E-01	0.	5.0303E-01	1.0000E-01	5.0293E-01	105914 10 200
2.0000E-01	5.0221E-01	3.0000E-01	5.0231E-01	4.0000E-01	5.0161E-01	105914 10 201
5.0000E-01	5.0081E-01	6.0000E-01	4.9968E-01	7.0000E-01	4.9848E-01	105914 10 202
8.0000E-01	4.9763E-01	9.0000E-01	4.9567E-01	1.0000E+00	4.9393E-01	105914 10 203
0.	7.5000E+00	0	0	1	21105914	10 204
21	2			105914	10	205
-1.0000E+00	4.9401E-01	-9.0000E-01	4.9574E-01	-8.0000E-01	4.9770E-01	105914 10 206
-7.0000E-01	4.9853E-01	-6.0000E-01	4.9971E-01	-5.0000E-01	5.0083E-01	105914 10 207
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0233E-01	-2.0000E-01	5.0184E-01	105914 10 208
-1.0000E-01	5.0288E-01	0.	5.0304E-01	1.0000E-01	5.0288E-01	105914 10 209
2.0000E-01	5.0184E-01	3.0000E-01	5.0233E-01	4.0000E-01	5.0161E-01	105914 10 210
5.0000E-01	5.0083E-01	6.0000E-01	4.9971E-01	7.0000E-01	4.9853E-01	105914 10 211
8.0000E-01	4.9770E-01	9.0000E-01	4.9574E-01	1.0000E+00	4.9401E-01	105914 10 212
0.	8.0000E+00	0	0	1	21105914	10 213
21	2			105914	10	214
-1.0000E+00	4.9411E-01	-9.0000E-01	4.9582E-01	-8.0000E-01	4.9769E-01	105914 10 215
-7.0000E-01	4.9860E-01	-6.0000E-01	4.9978E-01	-5.0000E-01	5.0087E-01	105914 10 216
-4.0000E-01	5.0163E-01	-3.0000E-01	5.0235E-01	-2.0000E-01	5.0138E-01	105914 10 217
-1.0000E-01	5.0283E-01	0.	5.0308E-01	1.0000E-01	5.0283E-01	105914 10 218
2.0000E-01	5.0138E-01	3.0000E-01	5.0235E-01	4.0000E-01	5.0163E-01	105914 10 219
5.0000E-01	5.0087E-01	6.0000E-01	4.9978E-01	7.0000E-01	4.9860E-01	105914 10 220
8.0000E-01	4.9769E-01	9.0000E-01	4.9582E-01	1.0000E+00	4.9411E-01	105914 10 221
0.	8.5000E+00	0	0	1	21105914	10 222
21	2			105914	10	223
-1.0000E+00	4.9422E-01	-9.0000E-01	4.9590E-01	-8.0000E-01	4.9761E-01	105914 10 224
-7.0000E-01	4.9869E-01	-6.0000E-01	4.9986E-01	-5.0000E-01	5.0091E-01	105914 10 225
-4.0000E-01	5.0167E-01	-3.0000E-01	5.0239E-01	-2.0000E-01	5.0084E-01	105914 10 226
-1.0000E-01	5.0278E-01	0.	5.0314E-01	1.0000E-01	5.0278E-01	105914 10 227
2.0000E-01	5.0084E-01	3.0000E-01	5.0239E-01	4.0000E-01	5.0167E-01	105914 10 228
5.0000E-01	5.0091E-01	6.0000E-01	4.9986E-01	7.0000E-01	4.9869E-01	105914 10 229
8.0000E-01	4.9761E-01	9.0000E-01	4.9590E-01	1.0000E+00	4.9422E-01	105914 10 230
0.	9.0000E+00	0	0	1	21105914	10 231
21	2			105914	10	232
-1.0000E+00	4.9433E-01	-9.0000E-01	4.9599E-01	-8.0000E-01	4.9745E-01	105914 10 233
-7.0000E-01	4.9881E-01	-6.0000E-01	4.9997E-01	-5.0000E-01	5.0097E-01	105914 10 234
-4.0000E-01	5.0173E-01	-3.0000E-01	5.0243E-01	-2.0000E-01	5.0022E-01	105914 10 235
-1.0000E-01	5.0273E-01	0.	5.0324E-01	1.0000E-01	5.0273E-01	105914 10 236
2.0000E-01	5.0022E-01	3.0000E-01	5.0243E-01	4.0000E-01	5.0173E-01	105914 10 237
5.0000E-01	5.0097E-01	6.0000E-01	4.9997E-01	7.0000E-01	4.9881E-01	105914 10 238
8.0000E-01	4.9745E-01	9.0000E-01	4.9599E-01	1.0000E+00	4.9433E-01	105914 10 239
0.	0.	0	0	0	0105914	0 240
1.1023E+04	2.2786E+01	0	2	4	0105914	11 1
3.6780E+00	3.6780E+00	0	0	1	12105914	11 2
12	2			105914	11	3
0.	3.8380E+00	0	0	1	21105914	11 4
21	2			105914	11	5
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-7.0000E-01	4.9948E-01	-6.0000E-01	4.9993E-01	-5.0000E-01	5.0027E-01	105914 11 7
-4.0000E-01	5.0056E-01	-3.0000E-01	5.0086E-01	-2.0000E-01	5.0101E-01	105914 11 8
-1.0000E-01	5.0111E-01	0.	5.0116E-01	1.0000E-01	5.0111E-01	105914 11 9
2.0000E-01	5.0101E-01	3.0000E-01	5.0086E-01	4.0000E-01	5.0056E-01	105914 11 10
5.0000E-01	5.0027E-01	6.0000E-01	4.9993E-01	7.0000E-01	4.9948E-01	105914 11 11
8.0000E-01	4.9893E-01	9.0000E-01	4.9835E-01	1.0000E+00	4.9775E-01	105914 11 12
0.	4.0000E+00	0	0	1	21105914	11 13

21	2	105914	11	14
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-7.0000E-01	4.9913E-01-6.0000E-01	4.9990E-01-5.0000E-01	5.0044E-01-105914	11
-4.0000E-01	5.0095E-01-3.0000E-01	5.0137E-01-2.0000E-01	5.0165E-01-105914	11
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2.0000E-01	5.0165E-01 3.0000E-01	5.0137E-01 4.0000E-01	5.0095E-01-105914	11
5.0000E-01	5.0044E-01 6.0000E-01	4.9990E-01 7.0000E-01	4.9913E-01-105914	11
8.0000E-01	4.9826E-01 9.0000E-01	4.9733E-01 1.0000E+00	4.9631E-01-105914	11
0.	4.5000E+00 0	0 1	21105914	11
21	2	105914	11	22
-1.0000E+00	4.9451E-01-9.0000E-01	4.9605E-01-8.0000E-01	4.9743E-01-105914	11
-7.0000E-01	4.9869E-01-6.0000E-01	4.9984E-01-5.0000E-01	5.0064E-01-105914	11
-4.0000E-01	5.0143E-01-3.0000E-01	5.0203E-01-2.0000E-01	5.0245E-01-105914	11
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2.0000E-01	5.0245E-01 3.0000E-01	5.0203E-01 4.0000E-01	5.0143E-01-105914	11
5.0000E-01	5.0064E-01 6.0000E-01	4.9984E-01 7.0000E-01	4.9869E-01-105914	11
8.0000E-01	4.9743E-01 9.0000E-01	4.9605E-01 1.0000E+00	4.9451E-01-105914	11
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21	2	105914	11	23
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-7.0000E-01	4.9842E-01-6.0000E-01	4.9973E-01-5.0000E-01	5.0078E-01-105914	11
-4.0000E-01	5.0174E-01-3.0000E-01	5.0245E-01-2.0000E-01	5.0295E-01-105914	11
-1.0000E-01	5.0325E-01 0.	5.0335E-01 1.0000E-01	5.0325E-01-105914	11
2.0000E-01	5.0295E-01 3.0000E-01	5.0245E-01 4.0000E-01	5.0174E-01-105914	11
5.0000E-01	5.0078E-01 6.0000E-01	4.9973E-01 7.0000E-01	4.9842E-01-105914	11
8.0000E-01	4.9691E-01 9.0000E-01	4.9525E-01 1.0000E+00	4.9339E-01-105914	11
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-7.0000E-01	4.9845E-01-6.0000E-01	4.9949E-01-5.0000E-01	5.0080E-01-105914	11
-4.0000E-01	5.0176E-01-3.0000E-01	5.0247E-01-2.0000E-01	5.0292E-01-105914	11
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2.0000E-01	5.0292E-01 3.0000E-01	5.0247E-01 4.0000E-01	5.0176E-01-105914	11
5.0000E-01	5.0080E-01 6.0000E-01	4.9949E-01 7.0000E-01	4.9845E-01-105914	11
8.0000E-01	4.9696E-01 9.0000E-01	4.9530E-01 1.0000E+00	4.9348E-01-105914	11
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21	2	105914	11	41
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-7.0000E-01	4.9848E-01-6.0000E-01	4.9931E-01-5.0000E-01	5.0081E-01-105914	11
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2.0000E-01	5.0289E-01 3.0000E-01	5.0247E-01 4.0000E-01	5.0176E-01-105914	11
5.0000E-01	5.0081E-01 6.0000E-01	4.9931E-01 7.0000E-01	4.9848E-01-105914	11
8.0000E-01	4.9701E-01 9.0000E-01	4.9535E-01 1.0000E+00	4.9357E-01-105914	11
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21	2	105914	11	58
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-4.0000E-01	5.0176E-01-3.0000E-01	5.0247E-01-2.0000E-01	5.0286E-01-105914	11
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2.0000E-01	5.0286E-01 3.0000E-01	5.0247E-01 4.0000E-01	5.0176E-01-105914	11
5.0000E-01	5.0081E-01 6.0000E-01	4.9921E-01 7.0000E-01	4.9850E-01-105914	11
8.0000E-01	4.9706E-01 9.0000E-01	4.9539E-01 1.0000E+00	4.9365E-01-105914	11
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21	2	105914	11	67
-1.0000E+00	4.9371E-01-9.0000E-01	4.9544E-01-8.0000E-01	4.9709E-01-105914	11
-7.0000E-01	4.9853E-01-6.0000E-01	4.9918E-01-5.0000E-01	5.0081E-01-105914	11
-4.0000E-01	5.0175E-01-3.0000E-01	5.0244E-01-2.0000E-01	5.0283E-01-105914	11
-1.0000E-01	5.0313E-01 0.	5.0323E-01 1.0000E-01	5.0313E-01-105914	11
2.0000E-01	5.0283E-01 3.0000E-01	5.0244E-01 4.0000E-01	5.0175E-01-105914	11
5.0000E-01	5.0081E-01 6.0000E-01	4.9918E-01 7.0000E-01	4.9853E-01-105914	11
8.0000E-01	4.9709E-01 9.0000E-01	4.9544E-01 1.0000E+00	4.9371E-01-105914	11
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21	2	105914	11	76
-1.0000E+00	4.9378E-01-9.0000E-01	4.9549E-01-8.0000E-01	4.9713E-01-105914	11
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2.0000E-01	5.0280E-01 3.0000E-01	5.0240E-01 4.0000E-01	5.0173E-01-105914	11
5.0000E-01	5.0080E-01 6.0000E-01	4.9922E-01 7.0000E-01	4.9855E-01-105914	11
8.0000E-01	4.9713E-01 9.0000E-01	4.9549E-01 1.0000E+00	4.9378E-01-105914	11
0.	8.0000E+00 0	0 1	21105914	11

21	2			105914	11	86
-1.0000E+00	4.9383E-01	-9.0000E-01	4.9553E-01	-8.0000E-01	4.9717E-01	105914 11 87
-7.0000E-01	4.9856E-01	-6.0000E-01	4.9932E-01	-5.0000E-01	5.0079E-01	105914 11 88
-4.0000E-01	5.0169E-01	-3.0000E-01	5.0235E-01	-2.0000E-01	5.0277E-01	105914 11 89
-1.0000E-01	5.0304E-01	0.	5.0314E-01	1.0000E-01	5.0304E-01	105914 11 90
2.0000E-01	5.0277E-01	3.0000E-01	5.0235E-01	4.0000E-01	5.0169E-01	105914 11 91
5.0000E-01	5.0079E-01	6.0000E-01	4.9932E-01	7.0000E-01	4.9856E-01	105914 11 92
8.0000E-01	4.9717E-01	9.0000E-01	4.9553E-01	1.0000E+00	4.9383E-01	105914 11 93
0.	8.5000E+00	0	0	1	21105914	11 94
21	2			105914	11	95
-1.0000E+00	4.9387E-01	-9.0000E-01	4.9557E-01	-8.0000E-01	4.9720E-01	105914 11 96
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0077E-01	105914 11 97
-4.0000E-01	5.0166E-01	-3.0000E-01	5.0228E-01	-2.0000E-01	5.0274E-01	105914 11 98
-1.0000E-01	5.0301E-01	0.	5.0311E-01	1.0000E-01	5.0301E-01	105914 11 99
2.0000E-01	5.0274E-01	3.0000E-01	5.0228E-01	4.0000E-01	5.0166E-01	105914 11 100
5.0000E-01	5.0077E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9858E-01	105914 11 101
8.0000E-01	4.9720E-01	9.0000E-01	4.9557E-01	1.0000E+00	4.9387E-01	105914 11 102
0.	9.0000E+00	0	0	1	21105914	11 103
21	2			105914	11	104
-1.0000E+00	4.9391E-01	-9.0000E-01	4.9562E-01	-8.0000E-01	4.9723E-01	105914 11 105
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9974E-01	-5.0000E-01	5.0075E-01	105914 11 106
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0221E-01	-2.0000E-01	5.0271E-01	105914 11 107
-1.0000E-01	5.0296E-01	0.	5.0306E-01	1.0000E-01	5.0296E-01	105914 11 108
2.0000E-01	5.0271E-01	3.0000E-01	5.0221E-01	4.0000E-01	5.0161E-01	105914 11 109
5.0000E-01	5.0075E-01	6.0000E-01	4.9974E-01	7.0000E-01	4.9858E-01	105914 11 110
8.0000E-01	4.9723E-01	9.0000E-01	4.9562E-01	1.0000E+00	4.9391E-01	105914 11 111
3.6780E+00	3.2388E+00	0	0	1	12105914	11 112
12	2			105914	11	113
0.	3.8380E+00	0	0	1	21105914	11 114
21	2			105914	11	115
-1.0000E+00	4.9775E-01	-9.0000E-01	4.9835E-01	-8.0000E-01	4.9893E-01	105914 11 116
-7.0000E-01	4.9948E-01	-6.0000E-01	4.9993E-01	-5.0000E-01	5.0027E-01	105914 11 117
-4.0000E-01	5.0056E-01	-3.0000E-01	5.0086E-01	-2.0000E-01	5.0101E-01	105914 11 118
-1.0000E-01	5.0111E-01	0.	5.0116E-01	1.0000E-01	5.0111E-01	105914 11 119
2.0000E-01	5.0101E-01	3.0000E-01	5.0086E-01	4.0000E-01	5.0056E-01	105914 11 120
5.0000E-01	5.0027E-01	6.0000E-01	4.9993E-01	7.0000E-01	4.9948E-01	105914 11 121
8.0000E-01	4.9893E-01	9.0000E-01	4.9835E-01	1.0000E+00	4.9775E-01	105914 11 122
0.	4.0000E+00	0	0	1	21105914	11 123
21	2			105914	11	124
-1.0000E+00	4.9631E-01	-9.0000E-01	4.9733E-01	-8.0000E-01	4.9826E-01	105914 11 125
-7.0000E-01	4.9913E-01	-6.0000E-01	4.9990E-01	-5.0000E-01	5.0044E-01	105914 11 126
-4.0000E-01	5.0095E-01	-3.0000E-01	5.0137E-01	-2.0000E-01	5.0165E-01	105914 11 127
-1.0000E-01	5.0181E-01	0.	5.0188E-01	1.0000E-01	5.0181E-01	105914 11 128
2.0000E-01	5.0165E-01	3.0000E-01	5.0137E-01	4.0000E-01	5.0095E-01	105914 11 129
5.0000E-01	5.0044E-01	6.0000E-01	4.9990E-01	7.0000E-01	4.9913E-01	105914 11 130
8.0000E-01	4.9826E-01	9.0000E-01	4.9733E-01	1.0000E+00	4.9631E-01	105914 11 131
0.	4.5000E+00	0	0	1	21105914	11 132
21	2			105914	11	133
-1.0000E+00	4.9451E-01	-9.0000E-01	4.9605E-01	-8.0000E-01	4.9743E-01	105914 11 134
-7.0000E-01	4.9869E-01	-6.0000E-01	4.9984E-01	-5.0000E-01	5.0064E-01	105914 11 135
-4.0000E-01	5.0143E-01	-3.0000E-01	5.0203E-01	-2.0000E-01	5.0245E-01	105914 11 136
-1.0000E-01	5.0270E-01	0.	5.0279E-01	1.0000E-01	5.0270E-01	105914 11 137
2.0000E-01	5.0245E-01	3.0000E-01	5.0203E-01	4.0000E-01	5.0143E-01	105914 11 138
5.0000E-01	5.0064E-01	6.0000E-01	4.9984E-01	7.0000E-01	4.9869E-01	105914 11 139
8.0000E-01	4.9743E-01	9.0000E-01	4.9605E-01	1.0000E+00	4.9451E-01	105914 11 140
0.	5.0000E+00	0	0	1	21105914	11 141
21	2			105914	11	142
-1.0000E+00	4.9339E-01	-9.0000E-01	4.9525E-01	-8.0000E-01	4.9691E-01	105914 11 143
-7.0000E-01	4.9842E-01	-6.0000E-01	4.9973E-01	-5.0000E-01	5.0078E-01	105914 11 144
-4.0000E-01	5.0174E-01	-3.0000E-01	5.0245E-01	-2.0000E-01	5.0295E-01	105914 11 145
-1.0000E-01	5.0325E-01	0.	5.0335E-01	1.0000E-01	5.0325E-01	105914 11 146
2.0000E-01	5.0295E-01	3.0000E-01	5.0245E-01	4.0000E-01	5.0174E-01	105914 11 147
5.0000E-01	5.0078E-01	6.0000E-01	4.9973E-01	7.0000E-01	4.9842E-01	105914 11 148
8.0000E-01	4.9691E-01	9.0000E-01	4.9525E-01	1.0000E+00	4.9339E-01	105914 11 149
0.	5.5000E+00	0	0	1	21105914	11 150

21	2				105914	11	151	
-1.0000E+00	4.9348E-01	-9.0000E-01	4.9530E-01	-8.0000E-01	4.9696E-01	105914	11	152
-7.0000E-01	4.9845E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0080E-01	105914	11	153
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0292E-01	105914	11	154
-1.0000E-01	5.0322E-01	0.	5.0322E-01	1.0000E-01	5.0322E-01	105914	11	155
2.0000E-01	5.0292E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	105914	11	156
5.0000E-01	5.0080E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9845E-01	105914	11	157
8.0000E-01	4.9696E-01	9.0000E-01	4.9530E-01	1.0000E+00	4.9348E-01	105914	11	158
0.	6.0000E+00	0	0	1	21105914	11	159	
21	2				105914	11	160	
-1.0000E+00	4.9357E-01	-9.0000E-01	4.9535E-01	-8.0000E-01	4.9701E-01	105914	11	161
-7.0000E-01	4.9848E-01	-6.0000E-01	4.9931E-01	-5.0000E-01	5.0081E-01	105914	11	162
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0289E-01	105914	11	163
-1.0000E-01	5.0320E-01	0.	5.0330E-01	1.0000E-01	5.0320E-01	105914	11	164
2.0000E-01	5.0289E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	105914	11	165
5.0000E-01	5.0081E-01	6.0000E-01	4.9931E-01	7.0000E-01	4.9848E-01	105914	11	166
8.0000E-01	4.9701E-01	9.0000E-01	4.9535E-01	1.0000E+00	4.9357E-01	105914	11	167
0.	6.5000E+00	0	0	1	21105914	11	168	
21	2				105914	11	169	
-1.0000E+00	4.9365E-01	-9.0000E-01	4.9539E-01	-8.0000E-01	4.9706E-01	105914	11	170
-7.0000E-01	4.9850E-01	-6.0000E-01	4.9921E-01	-5.0000E-01	5.0081E-01	105914	11	171
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0286E-01	105914	11	172
-1.0000E-01	5.0316E-01	0.	5.0326E-01	1.0000E-01	5.0316E-01	105914	11	173
2.0000E-01	5.0286E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	105914	11	174
5.0000E-01	5.0081E-01	6.0000E-01	4.9921E-01	7.0000E-01	4.9850E-01	105914	11	175
8.0000E-01	4.9706E-01	9.0000E-01	4.9539E-01	1.0000E+00	4.9365E-01	105914	11	176
0.	7.0000E+00	0	0	1	21105914	11	177	
21	2				105914	11	178	
-1.0000E+00	4.9371E-01	-9.0000E-01	4.9544E-01	-8.0000E-01	4.9709E-01	105914	11	179
-7.0000E-01	4.9853E-01	-6.0000E-01	4.9918E-01	-5.0000E-01	5.0081E-01	105914	11	180
-4.0000E-01	5.0175E-01	-3.0000E-01	5.0244E-01	-2.0000E-01	5.0283E-01	105914	11	181
-1.0000E-01	5.0313E-01	0.	5.0323E-01	1.0000E-01	5.0313E-01	105914	11	182
2.0000E-01	5.0283E-01	3.0000E-01	5.0244E-01	4.0000E-01	5.0175E-01	105914	11	183
5.0000E-01	5.0081E-01	6.0000E-01	4.9918E-01	7.0000E-01	4.9853E-01	105914	11	184
8.0000E-01	4.9709E-01	9.0000E-01	4.9544E-01	1.0000E+00	4.9371E-01	105914	11	185
0.	7.5000E+00	0	0	1	21105914	11	186	
21	2				105914	11	187	
-1.0000E+00	4.9378E-01	-9.0000E-01	4.9549E-01	-8.0000E-01	4.9713E-01	105914	11	188
-7.0000E-01	4.9855E-01	-6.0000E-01	4.9922E-01	-5.0000E-01	5.0080E-01	105914	11	189
-4.0000E-01	5.0173E-01	-3.0000E-01	5.0240E-01	-2.0000E-01	5.0280E-01	105914	11	190
-1.0000E-01	5.0307E-01	0.	5.0319E-01	1.0000E-01	5.0309E-01	105914	11	191
2.0000E-01	5.0280E-01	3.0000E-01	5.0240E-01	4.0000E-01	5.0173E-01	105914	11	192
5.0000E-01	5.0080E-01	6.0000E-01	4.9922E-01	7.0000E-01	4.9855E-01	105914	11	193
8.0000E-01	4.9713E-01	9.0000E-01	4.9549E-01	1.0000E+00	4.9378E-01	105914	11	194
0.	8.0000E+00	0	0	1	21105914	11	195	
21	2				105914	11	196	
-1.0000E+00	4.9383E-01	-9.0000E-01	4.9553E-01	-8.0000E-01	4.9717E-01	105914	11	197
-7.0000E-01	4.9856E-01	-6.0000E-01	4.9932E-01	-5.0000E-01	5.0079E-01	105914	11	198
-4.0000E-01	5.0169E-01	-3.0000E-01	5.0235E-01	-2.0000E-01	5.0277E-01	105914	11	199
-1.0000E-01	5.0304E-01	0.	5.0314E-01	1.0000E-01	5.0304E-01	105914	11	200
2.0000E-01	5.0277E-01	3.0000E-01	5.0235E-01	4.0000E-01	5.0169E-01	105914	11	201
5.0000E-01	5.0079E-01	6.0000E-01	4.9932E-01	7.0000E-01	4.9856E-01	105914	11	202
8.0000E-01	4.9717E-01	9.0000E-01	4.9553E-01	1.0000E+00	4.9383E-01	105914	11	203
0.	8.5000E+00	0	0	1	21105914	11	204	
21	2				105914	11	205	
-1.0000E+00	4.9387E-01	-9.0000E-01	4.9557E-01	-8.0000E-01	4.9720E-01	105914	11	206
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0077E-01	105914	11	207
-4.0000E-01	5.0166E-01	-3.0000E-01	5.0228E-01	-2.0000E-01	5.0274E-01	105914	11	208
-1.0000E-01	5.0301E-01	0.	5.0311E-01	1.0000E-01	5.0301E-01	105914	11	209
2.0000E-01	5.0274E-01	3.0000E-01	5.0228E-01	4.0000E-01	5.0166E-01	105914	11	210
5.0000E-01	5.0077E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9858E-01	105914	11	211
8.0000E-01	4.9720E-01	9.0000E-01	4.9557E-01	1.0000E+00	4.9387E-01	105914	11	212
0.	9.0000E+00	0	0	1	21105914	11	213	
21	2				105914	11	214	
-1.0000E+00	4.9391E-01	-9.0000E-01	4.9562E-01	-8.0000E-01	4.9723E-01	105914	11	215
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9974E-01	-5.0000E-01	5.0075E-01	105914	11	216
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0221E-01	-2.0000E-01	5.0271E-01	105914	11	217
-1.0000E-01	5.0296E-01	0.	5.0306E-01	1.0000E-01	5.0296E-01	105914	11	218
2.0000E-01	5.0271E-01	3.0000E-01	5.0221E-01	4.0000E-01	5.0161E-01	105914	11	219
5.0000E-01	5.0075E-01	6.0000E-01	4.9974E-01	7.0000E-01	4.9858E-01	105914	11	220
8.0000E-01	4.9723E-01	9.0000E-01	4.9562E-01	1.0000E+00	4.9391E-01	105914	11	221
3.6780E+00	1.5980E+00	0	0	1	12105914	11	222	

0.	12	2				105914	11	223
	21	2				21105914	11	224
-1.0000E+00	4.9775E-01	9.0000E-01	4.9835E-01	8.0000E-01	4.9893E-01	105914	11	225
-7.0000E-01	4.9948E-01	6.0000E-01	4.9993E-01	5.0000E-01	5.0027E-01	105914	11	226
-4.0000E-01	5.0056E-01	3.0000E-01	5.0086E-01	2.0000E-01	5.0101E-01	105914	11	227
-1.0000E-01	5.0111E-01	0.	5.0116E-01	1.0000E-01	5.0111E-01	105914	11	228
2.0000E-01	5.0101E-01	3.0000E-01	5.0086E-01	4.0000E-01	5.0056E-01	105914	11	229
5.0000E-01	5.0027E-01	6.0000E-01	4.9993E-01	7.0000E-01	4.9948E-01	105914	11	230
8.0000E-01	4.9893E-01	9.0000E-01	4.9835E-01	1.0000E+00	4.9775E-01	105914	11	231
0.	4.0000E+00	0	0	1	21105914	11	232	233
	21	2				105914	11	234
-1.0000E+00	4.9631E-01	9.0000E-01	4.9733E-01	8.0000E-01	4.9826E-01	105914	11	235
-7.0000E-01	4.9913E-01	6.0000E-01	4.9990E-01	5.0000E-01	5.0044E-01	105914	11	236
-4.0000E-01	5.0095E-01	3.0000E-01	5.0137E-01	2.0000E-01	5.0165E-01	105914	11	237
-1.0000E-01	5.0181E-01	0.	5.0188E-01	1.0000E-01	5.0181E-01	105914	11	238
2.0000E-01	5.0165E-01	3.0000E-01	5.0137E-01	4.0000E-01	5.0095E-01	105914	11	239
5.0000E-01	5.0044E-01	6.0000E-01	4.9990E-01	7.0000E-01	4.9913E-01	105914	11	240
8.0000E-01	4.9826E-01	9.0000E-01	4.9733E-01	1.0000E+00	4.9631E-01	105914	11	241
0.	4.5000E+00	0	0	1	21105914	11	242	243
	21	2				105914	11	244
-1.0000E+00	4.9451E-01	9.0000E-01	4.9605E-01	8.0000E-01	4.9743E-01	105914	11	245
-7.0000E-01	4.9869E-01	6.0000E-01	4.9984E-01	5.0000E-01	5.0064E-01	105914	11	246
-4.0000E-01	5.0143E-01	3.0000E-01	5.0203E-01	2.0000E-01	5.0245E-01	105914	11	247
-1.0000E-01	5.0270E-01	0.	5.0279E-01	1.0000E-01	5.0270E-01	105914	11	248
2.0000E-01	5.0245E-01	3.0000E-01	5.0203E-01	4.0000E-01	5.0143E-01	105914	11	249
5.0000E-01	5.0064E-01	6.0000E-01	4.9984E-01	7.0000E-01	4.9869E-01	105914	11	250
8.0000E-01	4.9743E-01	9.0000E-01	4.9605E-01	1.0000E+00	4.9451E-01	105914	11	251
0.	5.0000E+00	0	0	1	21105914	11	252	253
	21	2				105914	11	254
-1.0000E+00	4.9339E-01	9.0000E-01	4.9525E-01	8.0000E-01	4.9691E-01	105914	11	255
-7.0000E-01	4.9842E-01	6.0000E-01	4.9973E-01	5.0000E-01	5.0078E-01	105914	11	256
-4.0000E-01	5.0174E-01	3.0000E-01	5.0245E-01	2.0000E-01	5.0295E-01	105914	11	257
-1.0000E-01	5.0325E-01	0.	5.0335E-01	1.0000E-01	5.0325E-01	105914	11	258
2.0000E-01	5.0295E-01	3.0000E-01	5.0245E-01	4.0000E-01	5.0174E-01	105914	11	259
5.0000E-01	5.0078E-01	6.0000E-01	4.9973E-01	7.0000E-01	4.9842E-01	105914	11	260
8.0000E-01	4.9691E-01	9.0000E-01	4.9525E-01	1.0000E+00	4.9339E-01	105914	11	261
0.	5.5000E+00	0	0	1	21105914	11	262	263
	21	2				105914	11	264
-1.0000E+00	4.9348E-01	9.0000E-01	4.9530E-01	8.0000E-01	4.9696E-01	105914	11	265
-7.0000E-01	4.9845E-01	6.0000E-01	4.9949E-01	5.0000E-01	5.0080E-01	105914	11	266
-4.0000E-01	5.0176E-01	3.0000E-01	5.0247E-01	2.0000E-01	5.0292E-01	105914	11	267
-1.0000E-01	5.0322E-01	0.	5.0332E-01	1.0000E-01	5.0322E-01	105914	11	268
2.0000E-01	5.0292E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	105914	11	269
5.0000E-01	5.0080E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9845E-01	105914	11	270
8.0000E-01	4.9696E-01	9.0000E-01	4.9530E-01	1.0000E+00	4.9348E-01	105914	11	271
0.	6.0000E+00	0	0	1	21105914	11	272	273
	21	2				105914	11	274
-1.0000E+00	4.9357E-01	9.0000E-01	4.9535E-01	8.0000E-01	4.9701E-01	105914	11	275
-7.0000E-01	4.9848E-01	6.0000E-01	4.9931E-01	5.0000E-01	5.0081E-01	105914	11	276
-4.0000E-01	5.0176E-01	3.0000E-01	5.0247E-01	2.0000E-01	5.0289E-01	105914	11	277
-1.0000E-01	5.0320E-01	0.	5.0330E-01	1.0000E-01	5.0320E-01	105914	11	278
2.0000E-01	5.0289E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	105914	11	279
5.0000E-01	5.0081E-01	6.0000E-01	4.9931E-01	7.0000E-01	4.9848E-01	105914	11	280
8.0000E-01	4.9701E-01	9.0000E-01	4.9535E-01	1.0000E+00	4.9357E-01	105914	11	281
0.	6.5000E+00	0	0	1	21105914	11	282	283
	21	2				105914	11	284
-1.0000E+00	4.9365E-01	9.0000E-01	4.9539E-01	8.0000E-01	4.9706E-01	105914	11	285
-7.0000E-01	4.9850E-01	6.0000E-01	4.9921E-01	5.0000E-01	5.0081E-01	105914	11	286
-4.0000E-01	5.0176E-01	3.0000E-01	5.0247E-01	2.0000E-01	5.0286E-01	105914	11	287
-1.0000E-01	5.0316E-01	0.	5.0326E-01	1.0000E-01	5.0316E-01	105914	11	288
2.0000E-01	5.0286E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	105914	11	289
5.0000E-01	5.0081E-01	6.0000E-01	4.9921E-01	7.0000E-01	4.9850E-01	105914	11	290
8.0000E-01	4.9706E-01	9.0000E-01	4.9539E-01	1.0000E+00	4.9365E-01	105914	11	291
0.	7.0000E+00	0	0	1	21105914	11	292	293

21	2			105914	11	288
-1.0000E+00	4.9371E-01	-9.0000E-01	4.9544E-01	-8.0000E-01	4.9709E-01	105914 11 289
-7.0000E-01	4.9853E-01	-6.0000E-01	4.9918E-01	-5.0000E-01	5.0081E-01	105914 11 290
-4.0000E-01	5.0175E-01	-3.0000E-01	5.0244E-01	-2.0000E-01	5.0283E-01	105914 11 291
-1.0000E-01	5.0313E-01	0.	5.0323E-01	1.0000E-01	5.0313E-01	105914 11 292
2.0000E-01	5.0283E-01	3.0000E-01	5.0244E-01	4.0000E-01	5.0175E-01	105914 11 293
5.0000E-01	5.0381E-01	6.0000E-01	4.9918E-01	7.0000E-01	4.9853E-01	105914 11 294
8.0000E-01	4.9709E-01	9.0000E-01	4.9544E-01	1.0000E+00	4.9371E-01	105914 11 295
0.	7.5000E+00	0	0	1	21105914	11 296
21	2			105914	11	297
-1.0000E+00	4.9378E-01	-9.0000E-01	4.9549E-01	-8.0000E-01	4.9713E-01	105914 11 298
-7.0000E-01	4.9855E-01	-6.0000E-01	4.9922E-01	-5.0000E-01	5.0080E-01	105914 11 299
-4.0000E-01	5.0173E-01	-3.0000E-01	5.0240E-01	-2.0000E-01	5.0280E-01	105914 11 300
-1.0000E-01	5.0309E-01	0.	5.0319E-01	1.0000E-01	5.0309E-01	105914 11 301
2.0000E-01	5.0280E-01	3.0000E-01	5.0240E-01	4.0000E-01	5.0173E-01	105914 11 302
5.0000E-01	5.0080E-01	6.0000E-01	4.9922E-01	7.0000E-01	4.9855E-01	105914 11 303
8.0000E-01	4.9713E-01	9.0000E-01	4.9549E-01	1.0000E+00	4.9378E-01	105914 11 304
0.	8.0000E+00	0	0	1	21105914	11 305
21	2			105914	11	306
-1.0000E+00	4.9383E-01	-9.0000E-01	4.9553E-01	-8.0000E-01	4.9717E-01	105914 11 307
-7.0000E-01	4.9856E-01	-6.0000E-01	4.9932E-01	-5.0000E-01	5.0079E-01	105914 11 308
-4.0000E-01	5.0169E-01	-3.0000E-01	5.0235E-01	-2.0000E-01	5.0277E-01	105914 11 309
-1.0000E-01	5.0304E-01	0.	5.0314E-01	1.0000E-01	5.0304E-01	105914 11 310
2.0000E-01	5.0277E-01	3.0000E-01	5.0235E-01	4.0000E-01	5.0169E-01	105914 11 311
5.0000E-01	5.0079E-01	6.0000E-01	4.9932E-01	7.0000E-01	4.9856E-01	105914 11 312
8.0000E-01	4.9717E-01	9.0000E-01	4.9553E-01	1.0000E+00	4.9383E-01	105914 11 313
0.	8.5000E+00	0	0	1	21105914	11 314
21	2			105914	11	315
-1.0000E+00	4.9387E-01	-9.0000E-01	4.9557E-01	-8.0000E-01	4.9720E-01	105914 11 316
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0077E-01	105914 11 317
-4.0000E-01	5.0166E-01	-3.0000E-01	5.0228E-01	-2.0000E-01	5.0274E-01	105914 11 318
-1.0000E-01	5.0301E-01	0.	5.0311E-01	1.0000E-01	5.0301E-01	105914 11 319
2.0000E-01	5.0274E-01	3.0000E-01	5.0228E-01	4.0000E-01	5.0166E-01	105914 11 320
5.0000E-01	5.0077E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9858E-01	105914 11 321
8.0000E-01	4.9720E-01	9.0000E-01	4.9557E-01	1.0000E+00	4.9387E-01	105914 11 322
0.	9.0000E+00	0	0	1	21105914	11 323
21	2			105914	11	324
-1.0000E+00	4.9391E-01	-9.0000E-01	4.9562E-01	-8.0000E-01	4.9723E-01	105914 11 325
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9974E-01	-5.0000E-01	5.0075E-01	105914 11 326
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0221E-01	-2.0000E-01	5.0271E-01	105914 11 327
-1.0000E-01	5.0296E-01	0.	5.0306E-01	1.0000E-01	5.0296E-01	105914 11 328
2.0000E-01	5.0271E-01	3.0000E-01	5.0221E-01	4.0000E-01	5.0161E-01	105914 11 329
5.0000E-01	5.0075E-01	6.0000E-01	4.9974E-01	7.0000E-01	4.9858E-01	105914 11 330
8.0000E-01	4.9723E-01	9.0000E-01	4.9562E-01	1.0000E+00	4.9391E-01	105914 11 331
3.6780E+00	1.0380E+00	0	0	1	12105914	11 332
12	2			105914	11	333
0.	3.8380E+00	0	0	1	21105914	11 334
21	2			105914	11	335
-1.0000E+00	4.9775E-01	-9.0000E-01	4.9835E-01	-8.0000E-01	4.9893E-01	105914 11 336
-7.0000E-01	4.9948E-01	-6.0000E-01	4.9993E-01	-5.0000E-01	5.0027E-01	105914 11 337
-4.0000E-01	5.0056E-01	-3.0000E-01	5.0086E-01	-2.0000E-01	5.0101E-01	105914 11 338
-1.0000E-01	5.0111E-01	0.	5.0116E-01	1.0000E-01	5.0111E-01	105914 11 339
2.0000E-01	5.0101E-01	3.0000E-01	5.0086E-01	4.0000E-01	5.0056E-01	105914 11 340
5.0000E-01	5.0027E-01	6.0000E-01	4.9993E-01	7.0000E-01	4.9948E-01	105914 11 341
8.0000E-01	4.9893E-01	9.0000E-01	4.9835E-01	1.0000E+00	4.9775E-01	105914 11 342
0.	4.0000E+00	0	0	1	21105914	11 343
21	2			105914	11	344
-1.0000E+00	4.9631E-01	-9.0000E-01	4.9733E-01	-8.0000E-01	4.9826E-01	105914 11 345
-7.0000E-01	4.9913E-01	-6.0000E-01	4.9990E-01	-5.0000E-01	5.0044E-01	105914 11 346
-4.0000E-01	5.0095E-01	-3.0000E-01	5.0137E-01	-2.0000E-01	5.0165E-01	105914 11 347
-1.0000E-01	5.0181E-01	0.	5.0188E-01	1.0000E-01	5.0181E-01	105914 11 348
2.0000E-01	5.0165E-01	3.0000E-01	5.0137E-01	4.0000E-01	5.0095E-01	105914 11 349
5.0000E-01	5.0044E-01	6.0000E-01	4.9990E-01	7.0000E-01	4.9913E-01	105914 11 350
8.0000E-01	4.9826E-01	9.0000E-01	4.9733E-01	1.0000E+00	4.9631E-01	105914 11 351
0.	4.5000E+00	0	0	1	21105914	11 352

21	2			105914	11	353		
-1.0000E+00	4.9451E-01	-9.0000E-01	4.9605E-01	-8.0000E-01	4.9743E-01	1105914	11	354
-7.0000E-01	4.9869E-01	-6.0000E-01	4.9984E-01	-5.0000E-01	5.0064E-01	1105914	11	355
-4.0000E-01	5.0143E-01	-3.0000E-01	5.0203E-01	-2.0000E-01	5.0245E-01	1105914	11	356
-1.0000E-01	5.0270E-01	0.	5.0279E-01	1.0000E-01	5.0270E-01	1105914	11	357
2.0000E-01	5.0245E-01	3.0000E-01	5.0203E-01	4.0000E-01	5.0143E-01	1105914	11	358
5.0000E-01	5.0064E-01	6.0000E-01	4.9984E-01	7.0000E-01	4.9869E-01	1105914	11	359
8.0000E-01	4.9743E-01	9.0000E-01	4.9605E-01	1.0000E+00	4.9451E-01	1105914	11	360
0.	5.0000E+00	0	0	1	21105914	11	361	
21	2			105914	11	362		
-1.0000E+00	4.9339E-01	-9.0000E-01	4.9525E-01	-8.0000E-01	4.9691E-01	1105914	11	363
-7.0000E-01	4.9842E-01	-6.0000E-01	4.9973E-01	-5.0000E-01	5.0078E-01	1105914	11	364
-4.0000E-01	5.0174E-01	-3.0000E-01	5.0245E-01	-2.0000E-01	5.0295E-01	1105914	11	365
-1.0000E-01	5.0325E-01	0.	5.0335E-01	1.0000E-01	5.0325E-01	1105914	11	366
2.0000E-01	5.0295E-01	3.0000E-01	5.0245E-01	4.0000E-01	5.0174E-01	1105914	11	367
5.0000E-01	5.0078E-01	6.0000E-01	4.9973E-01	7.0000E-01	4.9842E-01	1105914	11	368
8.0000E-01	4.9691E-01	9.0000E-01	4.9525E-01	1.0000E+00	4.9339E-01	1105914	11	369
0.	5.5000E+00	0	0	1	21105914	11	370	
21	2			105914	11	371		
-1.0000E+00	4.9348E-01	-9.0000E-01	4.9530E-01	-8.0000E-01	4.9696E-01	1105914	11	372
-7.0000E-01	4.9845E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0080E-01	1105914	11	373
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0292E-01	1105914	11	374
-1.0000E-01	5.0322E-01	0.	5.0332E-01	1.0000E-01	5.0322E-01	1105914	11	375
2.0000E-01	5.0292E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	1105914	11	376
5.0000E-01	5.0080E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9845E-01	1105914	11	377
8.0000E-01	4.9696E-01	9.0000E-01	4.9530E-01	1.0000E+00	4.9348E-01	1105914	11	378
0.	6.0000E+00	0	0	1	21105914	11	379	
21	2			105914	11	380		
-1.0000E+00	4.9357E-01	-9.0000E-01	4.9535E-01	-8.0000E-01	4.9701E-01	1105914	11	381
-7.0000E-01	4.9848E-01	-6.0000E-01	4.9931E-01	-5.0000E-01	5.0081E-01	1105914	11	382
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0289E-01	1105914	11	383
-1.0000E-01	5.0320E-01	0.	5.0330E-01	1.0000E-01	5.0320E-01	1105914	11	384
2.0000E-01	5.0289E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	1105914	11	385
5.0000E-01	5.0081E-01	6.0000E-01	4.9931E-01	7.0000E-01	4.9848E-01	1105914	11	386
8.0000E-01	4.9701E-01	9.0000E-01	4.9535E-01	1.0000E+00	4.9357E-01	1105914	11	387
0.	6.5000E+00	0	0	1	21105914	11	388	
21	2			105914	11	389		
-1.0000E+00	4.9365E-01	-9.0000E-01	4.9539E-01	-8.0000E-01	4.9706E-01	1105914	11	390
-7.0000E-01	4.9850E-01	-6.0000E-01	4.9921E-01	-5.0000E-01	5.0081E-01	1105914	11	391
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0286E-01	1105914	11	392
-1.0000E-01	5.0316E-01	0.	5.0326E-01	1.0000E-01	5.0316E-01	1105914	11	393
2.0000E-01	5.0286E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	1105914	11	394
5.0000E-01	5.0081E-01	6.0000E-01	4.9921E-01	7.0000E-01	4.9850E-01	1105914	11	395
8.0000E-01	4.9706E-01	9.0000E-01	4.9539E-01	1.0000E+00	4.9365E-01	1105914	11	396
0.	7.0000E+00	0	0	1	21105914	11	397	
21	2			105914	11	398		
-1.0000E+00	4.9371E-01	-9.0000E-01	4.9544E-01	-8.0000E-01	4.9709E-01	1105914	11	399
-7.0000E-01	4.9853E-01	-6.0000E-01	4.9918E-01	-5.0000E-01	5.0081E-01	1105914	11	400
-4.0000E-01	5.0175E-01	-3.0000E-01	5.0244E-01	-2.0000E-01	5.0283E-01	1105914	11	401
-1.0000E-01	5.0313E-01	0.	5.0323E-01	1.0000E-01	5.0313E-01	1105914	11	402
2.0000E-01	5.0283E-01	3.0000E-01	5.0244E-01	4.0000E-01	5.0175E-01	1105914	11	403
5.0000E-01	5.0081E-01	6.0000E-01	4.9918E-01	7.0000E-01	4.9853E-01	1105914	11	404
8.0000E-01	4.9709E-01	9.0000E-01	4.9544E-01	1.0000E+00	4.9371E-01	1105914	11	405
0.	7.5000E+00	0	0	1	21105914	11	406	
21	2			105914	11	407		
-1.0000E+00	4.9378E-01	-9.0000E-01	4.9549E-01	-8.0000E-01	4.9713E-01	1105914	11	408
-7.0000E-01	4.9855E-01	-6.0000E-01	4.9922E-01	-5.0000E-01	5.0080E-01	1105914	11	409
-4.0000E-01	5.0173E-01	-3.0000E-01	5.0240E-01	-2.0000E-01	5.0280E-01	1105914	11	410
-1.0000E-01	5.0309E-01	0.	5.0319E-01	1.0000E-01	5.0309E-01	1105914	11	411
2.0000E-01	5.0280E-01	3.0000E-01	5.0240E-01	4.0000E-01	5.0173E-01	1105914	11	412
5.0000E-01	5.0080E-01	6.0000E-01	4.9922E-01	7.0000E-01	4.9855E-01	1105914	11	413
8.0000E-01	4.9713E-01	9.0000E-01	4.9549E-01	1.0000E+00	4.9378E-01	1105914	11	414
0.	8.0000E+00	0	0	1	21105914	11	415	
21	2			105914	11	416		
-1.0000E+00	4.9383E-01	-9.0000E-01	4.9553E-01	-8.0000E-01	4.9717E-01	1105914	11	417
-7.0000E-01	4.9856E-01	-6.0000E-01	4.9932E-01	-5.0000E-01	5.0079E-01	1105914	11	418
-4.0000E-01	5.0169E-01	-3.0000E-01	5.0235E-01	-2.0000E-01	5.0277E-01	1105914	11	419
-1.0000E-01	5.0304E-01	0.	5.0314E-01	1.0000E-01	5.0304E-01	1105914	11	420
2.0000E-01	5.0277E-01	3.0000E-01	5.0235E-01	4.0000E-01	5.0169E-01	1105914	11	421
5.0000E-01	5.0079E-01	6.0000E-01	4.9932E-01	7.0000E-01	4.9856E-01	1105914	11	422
8.0000E-01	4.9717E-01	9.0000E-01	4.9553E-01	1.0000E+00	4.9383E-01	1105914	11	423
0.	8.5000E+00	0	0	1	21105914	11	424	

21	2			105914	11	425
-1.0000E+00	4.9387E-01	-9.0000E-01	4.9557E-01	-8.0000E-01	4.9720E-01	105914 11 426
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0077E-01	105914 11 427
-4.0000E-01	5.0166E-01	-3.0000E-01	5.0228E-01	-2.0000E-01	5.0274E-01	105914 11 428
-1.0000E-01	5.0301E-01	0.	5.0311E-01	1.0000E-01	5.0301E-01	105914 11 429
2.0000E-01	5.0274E-01	3.0000E-01	5.0228E-01	4.0000E-01	5.0166E-01	105914 11 430
5.0000E-01	5.0077E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9858E-01	105914 11 431
8.0000E-01	4.9720E-01	9.0000E-01	4.9557E-01	1.0000E+00	4.9387E-01	105914 11 432
0.	9.0000E+00	0	0	1	21105914	11 433
21	2			105914	11	434
-1.0000E+00	4.9391E-01	-9.0000E-01	4.9562E-01	-8.0000E-01	4.9723E-01	105914 11 435
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9974E-01	-5.0000E-01	5.0075E-01	105914 11 436
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0221E-01	-2.0000E-01	5.0271E-01	105914 11 437
-1.0000E-01	5.0296E-01	0.	5.0306E-01	1.0000E-01	5.0296E-01	105914 11 438
2.0000E-01	5.0271E-01	3.0000E-01	5.0221E-01	4.0000E-01	5.0161E-01	105914 11 439
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5.0000E-01	5.0712E-01 6.0000E-01	4.9779E-01 7.0000E-01	4.8776E-01-105914	12 83
8.0000E-01	4.7496E-01 9.0000E-01	4.6352E-01 1.0000E+00	4.4732E-01-105914	12 84
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2.0000E-01	5.2501E-01 3.0000E-01	5.2078E-01 4.0000E-01	5.1496E-01-105914	12 111
5.0000E-01	5.0732E-01 6.0000E-01	4.9821E-01 7.0000E-01	4.8636E-01-105914	12 112
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0.	4.5000E+00 0	0	1	21105914 12 114

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5.0000E-01	5.0725E-01 6.0000E-01	4.9818E-01 7.0000E-01	4.8666E-01-01105914	12 121
8.0000E-01	4.7394E-01 9.0000E-01	4.6011E-01 1.0000E+00	4.4378E-01-01105914	12 122
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2.0000E-01	5.2552E-01 3.0000E-01	5.2124E-01 4.0000E-01	5.1542E-01-01105914	12 129
5.0000E-01	5.0734E-01 6.0000E-01	4.9691E-01 7.0000E-01	4.8665E-01-01105914	12 130
8.0000E-01	4.7318E-01 9.0000E-01	4.5794E-01 1.0000E+00	4.4225E-01-01105914	12 131
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2.0000E-01	5.2575E-01 3.0000E-01	5.2106E-01 4.0000E-01	5.1641E-01-01105914	12 138
5.0000E-01	5.0775E-01 6.0000E-01	4.9769E-01 7.0000E-01	4.8653E-01-01105914	12 139
8.0000E-01	4.7283E-01 9.0000E-01	4.5720E-01 1.0000E+00	4.4143E-01-01105914	12 140
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2.0000E-01	5.2580E-01 3.0000E-01	5.2100E-01 4.0000E-01	5.1314E-01-01105914	12 147
5.0000E-01	5.0779E-01 6.0000E-01	4.9774E-01 7.0000E-01	4.8679E-01-01105914	12 148
8.0000E-01	4.7300E-01 9.0000E-01	4.5823E-01 1.0000E+00	4.4214E-01-01105914	12 149
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8.0000E-01	4.7349E-01 9.0000E-01	4.6027E-01 1.0000E+00	4.4372E-01-01105914	12 158
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2.0000E-01	5.2529E-01 3.0000E-01	5.2064E-01 4.0000E-01	5.0571E-01-01105914	12 165
5.0000E-01	5.0752E-01 6.0000E-01	4.9764E-01 7.0000E-01	4.8749E-01-01105914	12 166
8.0000E-01	4.7395E-01 9.0000E-01	4.6169E-01 1.0000E+00	4.4501E-01-01105914	12 167
0.	7.5000E+00 0	0	1	21105914 12 168
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2.0000E-01	5.2480E-01 3.0000E-01	5.2030E-01 4.0000E-01	5.0500E-01-01105914	12 174
5.0000E-01	5.0734E-01 6.0000E-01	4.9769E-01 7.0000E-01	4.8768E-01-01105914	12 175
8.0000E-01	4.7444E-01 9.0000E-01	4.6277E-01 1.0000E+00	4.4621E-01-01105914	12 176
0.	8.0000E+00 0	0	1	21105914 12 177
21	2	105914	12	178
-1.0000E+00	4.4732E-01-9.0000E-01	4.6352E-01-8.0000E-01	4.7496E-01-01105914	12 179
-7.0000E-01	4.8776E-01-6.0000E-01	4.9779E-01-5.0000E-01	5.0712E-01-01105914	12 180
-4.0000E-01	5.0604E-01-3.0000E-01	5.1985E-01-2.0000E-01	5.2414E-01-01105914	12 181
-1.0000E-01	5.2655E-01 0.	5.2761E-01 1.0000E-01	5.2655E-01-01105914	12 182
2.0000E-01	5.2414E-01 3.0000E-01	5.1985E-01 4.0000E-01	5.0604E-01-01105914	12 183
5.0000E-01	5.0712E-01 6.0000E-01	4.9779E-01 7.0000E-01	4.8776E-01-01105914	12 184
8.0000E-01	4.7496E-01 9.0000E-01	4.6352E-01 1.0000E+00	4.4732E-01-01105914	12 185
0.	8.5000E+00 0	0	1	21105914 12 186

21	2			105914	12	187
-1.0000E+00	4.4835E-01	-9.0000E-01	4.6393E-01	-8.0000E-01	4.7551E-01	105914 12 188
-7.0000E-01	4.8776E-01	-6.0000E-01	4.9795E-01	-5.0000E-01	5.0687E-01	105914 12 189
-4.0000E-01	5.0884E-01	-3.0000E-01	5.1930E-01	-2.0000E-01	5.2332E-01	105914 12 190
-1.0000E-01	5.2559E-01	0.	5.2664E-01	1.0000E-01	5.2559E-01	105914 12 191
2.0000E-01	5.2332E-01	3.0000E-01	5.1930E-01	4.0000E-01	5.0884E-01	105914 12 192
5.0000E-01	5.0687E-01	6.0000E-01	4.9795E-01	7.0000E-01	4.8776E-01	105914 12 193
8.0000E-01	4.7551E-01	9.0000E-01	4.6393E-01	1.0000E+00	4.4835E-01	105914 12 194
0.	9.0000E+00	0	0	1	21105914	12 195
21	2			105914	12	196
-1.0000E+00	4.4929E-01	-9.0000E-01	4.6401E-01	-8.0000E-01	4.7609E-01	105914 12 197
-7.0000E-01	4.8765E-01	-6.0000E-01	4.9816E-01	-5.0000E-01	5.0657E-01	105914 12 198
-4.0000E-01	5.1340E-01	-3.0000E-01	5.1866E-01	-2.0000E-01	5.2233E-01	105914 12 199
-1.0000E-01	5.2443E-01	0.	5.2549E-01	1.0000E-01	5.2443E-01	105914 12 200
2.0000E-01	5.2233E-01	3.0000E-01	5.1866E-01	4.0000E-01	5.1340E-01	105914 12 201
5.0000E-01	5.0657E-01	6.0000E-01	4.9816E-01	7.0000E-01	4.8765E-01	105914 12 202
8.0000E-01	4.7609E-01	9.0000E-01	4.6401E-01	1.0000E+00	4.4929E-01	105914 12 203
0.	0.	0	0	0	0105914	0 204
1.1023E+04	2.2786E+01	0	0	2	0105914	13 1
3.9150E+00	3.9150E+00	0	0	1	11105914	13 2
11	2			105914	13	3
0.	4.0850E+00	0	0	1	21105914	13 4
21	2			105914	13	5
-1.0000E+00	4.4288E-01	-9.0000E-01	4.5845E-01	-8.0000E-01	4.7320E-01	105914 13 6
-7.0000E-01	4.8665E-01	-6.0000E-01	4.9764E-01	-5.0000E-01	5.0703E-01	105914 13 7
-4.0000E-01	5.1497E-01	-3.0000E-01	5.2120E-01	-2.0000E-01	5.2537E-01	105914 13 8
-1.0000E-01	5.2808E-01	0.	5.2914E-01	1.0000E-01	5.2808E-01	105914 13 9
2.0000E-01	5.2537E-01	3.0000E-01	5.2120E-01	4.0000E-01	5.1497E-01	105914 13 10
5.0000E-01	5.0703E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8665E-01	105914 13 11
8.0000E-01	4.7320E-01	9.0000E-01	4.5845E-01	1.0000E+00	4.4288E-01	105914 13 12
0.	4.5000E+00	0	0	1	21105914	13 13
21	2			105914	13	14
-1.0000E+00	4.4435E-01	-9.0000E-01	4.5918E-01	-8.0000E-01	4.7402E-01	105914 13 15
-7.0000E-01	4.8673E-01	-6.0000E-01	4.9793E-01	-5.0000E-01	5.0690E-01	105914 13 16
-4.0000E-01	5.1483E-01	-3.0000E-01	5.2062E-01	-2.0000E-01	5.2491E-01	105914 13 17
-1.0000E-01	5.2750E-01	0.	5.2855E-01	1.0000E-01	5.2750E-01	105914 13 18
2.0000E-01	5.2491E-01	3.0000E-01	5.2062E-01	4.0000E-01	5.1483E-01	105914 13 19
5.0000E-01	5.0690E-01	6.0000E-01	4.9793E-01	7.0000E-01	4.8673E-01	105914 13 20
8.0000E-01	4.7402E-01	9.0000E-01	4.5918E-01	1.0000E+00	4.4435E-01	105914 13 21
0.	5.0000E+00	0	0	1	21105914	13 22
21	2			105914	13	23
-1.0000E+00	4.4148E-01	-9.0000E-01	4.5712E-01	-8.0000E-01	4.7271E-01	105914 13 24
-7.0000E-01	4.8614E-01	-6.0000E-01	4.9854E-01	-5.0000E-01	5.0764E-01	105914 13 25
-4.0000E-01	5.1562E-01	-3.0000E-01	5.2145E-01	-2.0000E-01	5.2635E-01	105914 13 26
-1.0000E-01	5.2833E-01	0.	5.2939E-01	1.0000E-01	5.2833E-01	105914 13 27
2.0000E-01	5.2635E-01	3.0000E-01	5.2145E-01	4.0000E-01	5.1562E-01	105914 13 28
5.0000E-01	5.0764E-01	6.0000E-01	4.9854E-01	7.0000E-01	4.8614E-01	105914 13 29
8.0000E-01	4.7271E-01	9.0000E-01	4.5712E-01	1.0000E+00	4.4148E-01	105914 13 30
0.	5.0000E+00	0	0	1	21105914	13 31
21	2			105914	13	32
-1.0000E+00	4.4095E-01	-9.0000E-01	4.5723E-01	-8.0000E-01	4.7339E-01	105914 13 33
-7.0000E-01	4.8663E-01	-6.0000E-01	4.9720E-01	-5.0000E-01	5.0736E-01	105914 13 34
-4.0000E-01	5.1575E-01	-3.0000E-01	5.2158E-01	-2.0000E-01	5.2589E-01	105914 13 35
-1.0000E-01	5.2847E-01	0.	5.2952E-01	1.0000E-01	5.2847E-01	105914 13 36
2.0000E-01	5.2589E-01	3.0000E-01	5.2158E-01	4.0000E-01	5.1575E-01	105914 13 37
5.0000E-01	5.0736E-01	6.0000E-01	4.9720E-01	7.0000E-01	4.8663E-01	105914 13 38
8.0000E-01	4.7339E-01	9.0000E-01	4.5723E-01	1.0000E+00	4.4095E-01	105914 13 39
0.	6.0000E+00	0	0	1	21105914	13 40
21	2			105914	13	41
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-7.0000E-01	4.8649E-01	-6.0000E-01	4.9741E-01	-5.0000E-01	5.0712E-01	105914 13 43
-4.0000E-01	5.1561E-01	-3.0000E-01	5.2144E-01	-2.0000E-01	5.2565E-01	105914 13 44
-1.0000E-01	5.2831E-01	0.	5.2937E-01	1.0000E-01	5.2831E-01	105914 13 45
2.0000E-01	5.2565E-01	3.0000E-01	5.2144E-01	4.0000E-01	5.1561E-01	105914 13 46
5.0000E-01	5.0712E-01	6.0000E-01	4.9741E-01	7.0000E-01	4.8649E-01	105914 13 47
8.0000E-01	4.7326E-01	9.0000E-01	4.5796E-01	1.0000E+00	4.4150E-01	105914 13 48
0.	6.5000E+00	0	0	1	21105914	13 49

21	2		105914	13	50
-1.0000E+00	4.4279E-01	9.0000E-01	4.5915E-01	8.0000E-01	4.7297E-01
-7.0000E-01	4.8623E-01	6.0000E-01	4.9810E-01	5.0000E-01	5.0686E-01
-4.0000E-01	5.1522E-01	3.0000E-01	5.2108E-01	2.0000E-01	5.2531E-01
-1.0000E-01	5.2795E-01	0.	5.2897E-01	1.0000E-01	5.2795E-01
2.0000E-01	5.2531E-01	3.0000E-01	5.2108E-01	4.0000E-01	5.1522E-01
5.0000E-01	5.0686E-01	6.0000E-01	4.9810E-01	7.0000E-01	4.8623E-01
8.0000E-01	4.7297E-01	9.0000E-01	4.5915E-01	1.0000E+00	4.4279E-01
0.	7.0000E+00	0	0	1	21105914
21	2		105914	13	59
-1.0000E+00	4.4274E-01	9.0000E-01	4.5899E-01	8.0000E-01	4.7265E-01
-7.0000E-01	4.8642E-01	6.0000E-01	4.9785E-01	5.0000E-01	5.0739E-01
-4.0000E-01	5.1475E-01	3.0000E-01	5.2098E-01	2.0000E-01	5.2534E-01
-1.0000E-01	5.2806E-01	0.	5.2870E-01	1.0000E-01	5.2806E-01
2.0000E-01	5.2534E-01	3.0000E-01	5.2098E-01	4.0000E-01	5.1475E-01
5.0000E-01	5.0739E-01	6.0000E-01	4.9785E-01	7.0000E-01	4.8642E-01
8.0000E-01	4.7265E-01	9.0000E-01	4.5899E-01	1.0000E+00	4.4274E-01
0.	7.5000E+00	0	0	1	21105914
21	2		105914	13	68
-1.0000E+00	4.4362E-01	9.0000E-01	4.5958E-01	8.0000E-01	4.7289E-01
-7.0000E-01	4.8668E-01	6.0000E-01	4.9786E-01	5.0000E-01	5.0742E-01
-4.0000E-01	5.1436E-01	3.0000E-01	5.2069E-01	2.0000E-01	5.2497E-01
-1.0000E-01	5.2764E-01	0.	5.2818E-01	1.0000E-01	5.2764E-01
2.0000E-01	5.2497E-01	3.0000E-01	5.2069E-01	4.0000E-01	5.1436E-01
5.0000E-01	5.0742E-01	6.0000E-01	4.9786E-01	7.0000E-01	4.8668E-01
8.0000E-01	4.7289E-01	9.0000E-01	4.5958E-01	1.0000E+00	4.4362E-01
0.	8.0000E+00	0	0	1	21105914
21	2		105914	13	77
-1.0000E+00	4.4501E-01	9.0000E-01	4.6053E-01	8.0000E-01	4.7354E-01
-7.0000E-01	4.8705E-01	6.0000E-01	4.9791E-01	5.0000E-01	5.0720E-01
-4.0000E-01	5.1400E-01	3.0000E-01	5.2030E-01	2.0000E-01	5.2435E-01
-1.0000E-01	5.2690E-01	0.	5.2747E-01	1.0000E-01	5.2690E-01
2.0000E-01	5.2435E-01	3.0000E-01	5.2030E-01	4.0000E-01	5.1400E-01
5.0000E-01	5.0720E-01	6.0000E-01	4.9791E-01	7.0000E-01	4.8705E-01
8.0000E-01	4.7354E-01	9.0000E-01	4.6053E-01	1.0000E+00	4.4501E-01
0.	8.5000E+00	0	0	1	21105914
21	2		105914	13	86
-1.0000E+00	4.4690E-01	9.0000E-01	4.6183E-01	8.0000E-01	4.7461E-01
-7.0000E-01	4.8755E-01	6.0000E-01	4.9801E-01	5.0000E-01	5.0674E-01
-4.0000E-01	5.1368E-01	3.0000E-01	5.1979E-01	2.0000E-01	5.2347E-01
-1.0000E-01	5.2583E-01	0.	5.2657E-01	1.0000E-01	5.2583E-01
2.0000E-01	5.2347E-01	3.0000E-01	5.1979E-01	4.0000E-01	5.1368E-01
5.0000E-01	5.0674E-01	6.0000E-01	4.9801E-01	7.0000E-01	4.8755E-01
8.0000E-01	4.7461E-01	9.0000E-01	4.6183E-01	1.0000E+00	4.4690E-01
0.	9.0000E+00	0	0	1	21105914
21	2		105914	13	95
-1.0000E+00	4.4929E-01	9.0000E-01	4.6348E-01	8.0000E-01	4.7609E-01
-7.0000E-01	4.8818E-01	6.0000E-01	4.9816E-01	5.0000E-01	5.0604E-01
-4.0000E-01	5.1340E-01	3.0000E-01	5.1918E-01	2.0000E-01	5.2233E-01
-1.0000E-01	5.2443E-01	0.	5.2549E-01	1.0000E-01	5.2443E-01
2.0000E-01	5.2233E-01	3.0000E-01	5.1918E-01	4.0000E-01	5.1340E-01
5.0000E-01	5.0604E-01	6.0000E-01	4.9816E-01	7.0000E-01	4.8818E-01
8.0000E-01	4.7609E-01	9.0000E-01	4.6348E-01	1.0000E+00	4.4929E-01
3.9150E+00	3.4758E+00	0	0	1	11105914
11	2		105914	13	104
0.	4.0850E+00	0	0	1	21105914
21	2		105914	13	106
-1.0000E+00	4.4288E-01	9.0000E-01	4.5845E-01	8.0000E-01	4.7320E-01
-7.0000E-01	4.8665E-01	6.0000E-01	4.9764E-01	5.0000E-01	5.0703E-01
-4.0000E-01	5.1497E-01	3.0000E-01	5.2120E-01	2.0000E-01	5.2537E-01
-1.0000E-01	5.2808E-01	0.	5.2914E-01	1.0000E-01	5.2808E-01
2.0000E-01	5.2537E-01	3.0000E-01	5.2120E-01	4.0000E-01	5.1497E-01
5.0000E-01	5.0703E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8665E-01
8.0000E-01	4.7320E-01	9.0000E-01	4.5845E-01	1.0000E+00	4.4288E-01
0.	4.5000E+00	0	0	1	21105914

21	2	105914	13	115
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-7.0000E-01	4.8673E-01-6.0000E-01	4.9793E-01-5.0000E-01	5.0690E-01-105914	13 117
-4.0000E-01	5.1483E-01-3.0000E-01	5.2062E-01-2.0000E-01	5.2491E-01-105914	13 118
-1.0000E-01	5.2750E-01 0.	5.2855E-01 1.0000E-01	5.2750E-01-105914	13 119
2.0000E-01	5.2491E-01 3.0000E-01	5.2062E-01 4.0000E-01	5.1483E-01-105914	13 120
5.0000E-01	5.0690E-01 6.0000E-01	4.9793E-01 7.0000E-01	4.8673E-01-105914	13 121
8.0000E-01	4.7402E-01 9.0000E-01	4.5918E-01 1.0000E+00	4.4435E-01-105914	13 122
0.	5.0000E+00 0	0 1	21105914	13 123
21	2	105914	13	124
-1.0000E+00	4.4148E-01-9.0000E-01	4.5712E-01-8.0000E-01	4.7271E-01-105914	13 125
-7.0000E-01	4.8614E-01-6.0000E-01	4.9854E-01-5.0000E-01	5.0764E-01-105914	13 126
-4.0000E-01	5.1562E-01-3.0000E-01	5.2145E-01-2.0000E-01	5.2635E-01-105914	13 127
-1.0000E-01	5.2833E-01 0.	5.2939E-01 1.0000E-01	5.2833E-01-105914	13 128
2.0000E-01	5.2635E-01 3.0000E-01	5.2145E-01 4.0000E-01	5.1562E-01-105914	13 129
5.0000E-01	5.0764E-01 6.0000E-01	4.9854E-01 7.0000E-01	4.8614E-01-105914	13 130
8.0000E-01	4.7271E-01 9.0000E-01	4.5712E-01 1.0000E+00	4.4148E-01-105914	13 131
0.	5.5000E+00 0	0 1	21105914	13 132
21	2	105914	13	133
-1.0000E+00	4.4095E-01-9.0000E-01	4.5723E-01-8.0000E-01	4.7339E-01-105914	13 134
-7.0000E-01	4.8663E-01-6.0000E-01	4.9720E-01-5.0000E-01	5.0736E-01-105914	13 135
-4.0000E-01	5.1575E-01-3.0000E-01	5.2158E-01-2.0000E-01	5.2589E-01-105914	13 136
-1.0000E-01	5.2847E-01 0.	5.2952E-01 1.0000E-01	5.2847E-01-105914	13 137
2.0000E-01	5.2589E-01 3.0000E-01	5.2158E-01 4.0000E-01	5.1575E-01-105914	13 138
5.0000E-01	5.0736E-01 6.0000E-01	4.9720E-01 7.0000E-01	4.8663E-01-105914	13 139
8.0000E-01	4.7339E-01 9.0000E-01	4.5723E-01 1.0000E+00	4.4095E-01-105914	13 140
0.	6.0000E+00 0	0 1	21105914	13 141
21	2	105914	13	142
-1.0000E+00	4.4150E-01-9.0000E-01	4.5796E-01-8.0000E-01	4.7326E-01-105914	13 143
-7.0000E-01	4.8649E-01-6.0000E-01	4.9741E-01-5.0000E-01	5.0712E-01-105914	13 144
-4.0000E-01	5.1561E-01-3.0000E-01	5.2144E-01-2.0000E-01	5.2565E-01-105914	13 145
-1.0000E-01	5.2831E-01 0.	5.2937E-01 1.0000E-01	5.2831E-01-105914	13 146
2.0000E-01	5.2565E-01 3.0000E-01	5.2144E-01 4.0000E-01	5.1561E-01-105914	13 147
5.0000E-01	5.0712E-01 6.0000E-01	4.9741E-01 7.0000E-01	4.8649E-01-105914	13 148
8.0000E-01	4.7326E-01 9.0000E-01	4.5796E-01 1.0000E+00	4.4150E-01-105914	13 149
0.	6.5000E+00 0	0 1	21105914	13 150
21	2	105914	13	151
-1.0000E+00	4.4279E-01-9.0000E-01	4.5915E-01-8.0000E-01	4.7297E-01-105914	13 152
-7.0000E-01	4.8623E-01-6.0000E-01	4.9810E-01-5.0000E-01	5.0686E-01-105914	13 153
-4.0000E-01	5.1522E-01-3.0000E-01	5.2108E-01-2.0000E-01	5.2531E-01-105914	13 154
-1.0000E-01	5.2795E-01 0.	5.2897E-01 1.0000E-01	5.2795E-01-105914	13 155
2.0000E-01	5.2531E-01 3.0000E-01	5.2108E-01 4.0000E-01	5.1522E-01-105914	13 156
5.0000E-01	5.0686E-01 6.0000E-01	4.9810E-01 7.0000E-01	4.8623E-01-105914	13 157
8.0000E-01	4.7297E-01 9.0000E-01	4.5915E-01 1.0000E+00	4.4279E-01-105914	13 158
0.	7.0000E+00 0	0 1	21105914	13 159
21	2	105914	13	160
-1.0000E+00	4.4274E-01-9.0000E-01	4.5899E-01-8.0000E-01	4.7265E-01-105914	13 161
-7.0000E-01	4.8642E-01-6.0000E-01	4.9785E-01-5.0000E-01	5.0739E-01-105914	13 162
-4.0000E-01	5.1475E-01-3.0000E-01	5.2098E-01-2.0000E-01	5.2534E-01-105914	13 163
-1.0000E-01	5.2806E-01 0.	5.2870E-01 1.0000E-01	5.2806E-01-105914	13 164
2.0000E-01	5.2534E-01 3.0000E-01	5.2098E-01 4.0000E-01	5.1475E-01-105914	13 165
5.0000E-01	5.0739E-01 6.0000E-01	4.9785E-01 7.0000E-01	4.8642E-01-105914	13 166
8.0000E-01	4.7265E-01 9.0000E-01	4.5899E-01 1.0000E+00	4.4274E-01-105914	13 167
0.	7.5000E+00 0	0 1	21105914	13 168
21	2	105914	13	169
-1.0000E+00	4.4362E-01-9.0000E-01	4.5958E-01-8.0000E-01	4.7289E-01-105914	13 170
-7.0000E-01	4.8668E-01-6.0000E-01	4.9786E-01-5.0000E-01	5.0742E-01-105914	13 171
-4.0000E-01	5.1436E-01-3.0000E-01	5.2069E-01-2.0000E-01	5.2497E-01-105914	13 172
-1.0000E-01	5.2764E-01 0.	5.2818E-01 1.0000E-01	5.2764E-01-105914	13 173
2.0000E-01	5.2497E-01 3.0000E-01	5.2069E-01 4.0000E-01	5.1436E-01-105914	13 174
5.0000E-01	5.0742E-01 6.0000E-01	4.9786E-01 7.0000E-01	4.8668E-01-105914	13 175
8.0000E-01	4.7289E-01 9.0000E-01	4.5958E-01 1.0000E+00	4.4362E-01-105914	13 176
0.	8.0000E+00 0	0 1	21105914	13 177
21	2	105914	13	178
-1.0000E+00	4.4501E-01-9.0000E-01	4.6053E-01-8.0000E-01	4.7354E-01-105914	13 179
-7.0000E-01	4.8705E-01-6.0000E-01	4.9791E-01-5.0000E-01	5.0720E-01-105914	13 180
-4.0000E-01	5.1400E-01-3.0000E-01	5.2030E-01-2.0000E-01	5.2435E-01-105914	13 181
-1.0000E-01	5.2690E-01 0.	5.2747E-01 1.0000E-01	5.2690E-01-105914	13 182
2.0000E-01	5.2435E-01 3.0000E-01	5.2030E-01 4.0000E-01	5.1400E-01-105914	13 183
5.0000E-01	5.0720E-01 6.0000E-01	4.9791E-01 7.0000E-01	4.8705E-01-105914	13 184
8.0000E-01	4.7354E-01 9.0000E-01	4.6053E-01 1.0000E+00	4.4501E-01-105914	13 185
0.	8.5000E+00 0	0 1	21105914	13 186

21	2				105914	13	187
-1.0000E+00	4.4690E-01	-9.0000E-01	4.6183E-01	-8.0000E-01	4.7461E-01	105914	13
-7.0000E-01	4.8755E-01	-6.0000E-01	4.9801E-01	-5.0000E-01	5.0674E-01	105914	13
-4.0000E-01	5.1368E-01	-3.0000E-01	5.1979E-01	-2.0000E-01	5.2347E-01	105914	13
-1.0000E-01	5.2583E-01	0.	5.2657E-01	1.0000E-01	5.2583E-01	105914	13
2.0000E-01	5.2347E-01	3.0000E-01	5.1979E-01	4.0000E-01	5.1368E-01	105914	13
5.0000E-01	5.0674E-01	6.0000E-01	4.9801E-01	7.0000E-01	4.8755E-01	105914	13
8.0000E-01	4.7461E-01	9.0000E-01	4.6183E-01	1.0000E+00	4.4690E-01	105914	13
0.	9.0000E+00	0	0	1	21105914	13	195
21	2				105914	13	196
-1.0000E+00	4.4929E-01	-9.0000E-01	4.6348E-01	-8.0000E-01	4.7609E-01	105914	13
-7.0000E-01	4.8818E-01	-6.0000E-01	4.9816E-01	-5.0000E-01	5.0604E-01	105914	13
-4.0000E-01	5.1340E-01	-3.0000E-01	5.1918E-01	-2.0000E-01	5.2233E-01	105914	13
-1.0000E-01	5.2443E-01	0.	5.2549E-01	1.0000E-01	5.2443E-01	105914	13
2.0000E-01	5.2233E-01	3.0000E-01	5.1918E-01	4.0000E-01	5.1340E-01	105914	13
5.0000E-01	5.0604E-01	6.0000E-01	4.9816E-01	7.0000E-01	4.8818E-01	105914	13
8.0000E-01	4.7609E-01	9.0000E-01	4.6348E-01	1.0000E+00	4.4929E-01	105914	13
0.	0.	0	0	0	0105914	0	204
11023.0	22.786	1	2	1	0105914	14	1
0.0	0.0	0	0	0	0105914	0	2
11023.0	22.786	1	2	C	1105914	15	1
0.0	0.0	0	0	C	0105914	0	2
1.1023E+04	2.2786E+01	0	2	5	0105914	51	1
4.7780E+00	4.7780E+00	0	0	1	9105914	51	2
0.	4.9860E+00	0	0	1	105914	51	3
21	2				21105914	51	4
-1.0000E+00	4.3970E-01	-9.0000E-01	4.5727E-01	-8.0000E-01	4.7058E-01	105914	51
-7.0000E-01	4.8655E-01	-6.0000E-01	4.9400E-01	-5.0000E-01	5.0359E-01	105914	51
-4.0000E-01	5.1743E-01	-3.0000E-01	5.2328E-01	-2.0000E-01	5.2807E-01	105914	51
-1.0000E-01	5.3127E-01	0.	5.3233E-01	1.0000E-01	5.3127E-01	105914	51
2.0000E-01	5.2807E-01	3.0000E-01	5.2328E-01	4.0000E-01	5.1743E-01	105914	51
5.0000E-01	5.0359E-01	6.0000E-01	4.9400E-01	7.0000E-01	4.8655E-01	105914	51
8.0000E-01	4.7058E-01	9.0000E-01	4.5727E-01	1.0000E+00	4.3970E-01	105914	51
0.	5.5000E+00	0	0	1	21105914	51	13
21	2				105914	51	14
-1.0000E+00	4.3840E-01	-9.0000E-01	4.5642E-01	-8.0000E-01	4.7129E-01	105914	51
-7.0000E-01	4.8515E-01	-6.0000E-01	4.9670E-01	-5.0000E-01	5.0711E-01	105914	51
-4.0000E-01	5.1645E-01	-3.0000E-01	5.2270E-01	-2.0000E-01	5.2749E-01	105914	51
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914	51
2.0000E-01	5.2749E-01	3.0000E-01	5.2270E-01	4.0000E-01	5.1645E-01	105914	51
5.0000E-01	5.0711E-01	6.0000E-01	4.9670E-01	7.0000E-01	4.8515E-01	105914	51
8.0000E-01	4.7129E-01	9.0000E-01	4.5642E-01	1.0000E+00	4.3840E-01	105914	51
0.	6.0000E+00	0	0	1	21105914	51	22
21	2				105914	51	23
-1.0000E+00	4.3795E-01	-9.0000E-01	4.5591E-01	-8.0000E-01	4.7168E-01	105914	51
-7.0000E-01	4.8466E-01	-6.0000E-01	4.9806E-01	-5.0000E-01	5.0875E-01	105914	51
-4.0000E-01	5.1589E-01	-3.0000E-01	5.2233E-01	-2.0000E-01	5.2711E-01	105914	51
-1.0000E-01	5.2977E-01	0.	5.3083E-01	1.0000E-01	5.2977E-01	105914	51
2.0000E-01	5.2711E-01	3.0000E-01	5.2233E-01	4.0000E-01	5.1589E-01	105914	51
5.0000E-01	5.0875E-01	6.0000E-01	4.9806E-01	7.0000E-01	4.8466E-01	105914	51
8.0000E-01	4.7168E-01	9.0000E-01	4.5591E-01	1.0000E+00	4.3795E-01	105914	51
0.	6.5000E+00	0	0	1	21105914	51	31
21	2				105914	51	32
-1.0000E+00	4.3847E-01	-9.0000E-01	4.5569E-01	-8.0000E-01	4.7161E-01	105914	51
-7.0000E-01	4.8531E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0790E-01	105914	51
-4.0000E-01	5.1587E-01	-3.0000E-01	5.2229E-01	-2.0000E-01	5.2711E-01	105914	51
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914	51
2.0000E-01	5.2711E-01	3.0000E-01	5.2229E-01	4.0000E-01	5.1587E-01	105914	51
5.0000E-01	5.0790E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8531E-01	105914	51
8.0000E-01	4.7161E-01	9.0000E-01	4.5569E-01	1.0000E+00	4.3847E-01	105914	51
0.	7.0000E+00	0	0	1	21105914	51	40
21	2				105914	51	41
-1.0000E+00	4.3934E-01	-9.0000E-01	4.5602E-01	-8.0000E-01	4.7189E-01	105914	51
-7.0000E-01	4.8586E-01	-6.0000E-01	4.9780E-01	-5.0000E-01	5.0773E-01	105914	51
-4.0000E-01	5.1569E-01	-3.0000E-01	5.2196E-01	-2.0000E-01	5.2663E-01	105914	51
-1.0000E-01	5.2987E-01	0.	5.3093E-01	1.0000E-01	5.2987E-01	105914	51
2.0000E-01	5.2663E-01	3.0000E-01	5.2196E-01	4.0000E-01	5.1569E-01	105914	51
5.0000E-01	5.0773E-01	6.0000E-01	4.9780E-01	7.0000E-01	4.8586E-01	105914	51
8.0000E-01	4.7189E-01	9.0000E-01	4.5602E-01	1.0000E+00	4.3934E-01	105914	51
0.	7.5000E+00	0	0	1	21105914	51	49

21	2	105914	51	50
-1.0000E+00	4.3796E-01-9.0000E-01	4.5691E-01-8.0000E-01	4.7240E-01-105914	51
-7.0000E-01	4.8675E-01-6.0000E-01	4.9800E-01-5.0000E-01	5.0760E-01-105914	51
-4.0000E-01	5.1559E-01-3.0000E-01	5.2148E-01-2.0000E-01	5.2578E-01-105914	51
-1.0000E-01	5.2901E-01 0.	5.3007E-01 1.0000E-01	5.2901E-01-105914	51
2.0000E-01	5.2578E-01 3.0000E-01	5.2148E-01 4.0000E-01	5.1559E-01-105914	51
5.0000E-01	5.0760E-01 6.0000E-01	4.9800E-01 7.0000E-01	4.8675E-01-105914	51
8.0000E-01	4.7240E-01 9.0000E-01	4.5691E-01 1.0000E+00	4.4088E-01-105914	51
0.	8.0000E+00 0	0	1	21105914
21	2	105914	51	58
-1.0000E+00	4.5184E-01-9.0000E-01	4.5778E-01-8.0000E-01	4.7282E-01-105914	51
-7.0000E-01	4.8688E-01-6.0000E-01	4.9783E-01-5.0000E-01	5.0727E-01-105914	51
-4.0000E-01	5.1505E-01-3.0000E-01	5.2079E-01-2.0000E-01	5.2494E-01-105914	51
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2.0000E-01	5.2494E-01 3.0000E-01	5.2079E-01 4.0000E-01	5.1505E-01-105914	51
5.0000E-01	5.0727E-01 6.0000E-01	4.9783E-01 7.0000E-01	4.8688E-01-105914	51
8.0000E-01	4.7282E-01 9.0000E-01	4.5778E-01 1.0000E+00	4.4207E-01-105914	51
0.	8.5000E+00 0	0	1	21105914
21	2	105914	51	67
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-7.0000E-01	4.8652E-01-6.0000E-01	4.9740E-01-5.0000E-01	5.0680E-01-105914	51
-4.0000E-01	5.1420E-01-3.0000E-01	5.1990E-01-2.0000E-01	5.2402E-01-105914	51
-1.0000E-01	5.2668E-01 0.	5.2773E-01 1.0000E-01	5.2668E-01-105914	51
2.0000E-01	5.2402E-01 3.0000E-01	5.1990E-01 4.0000E-01	5.1420E-01-105914	51
5.0000E-01	5.0680E-01 6.0000E-01	4.9740E-01 7.0000E-01	4.8652E-01-105914	51
8.0000E-01	4.7320E-01 9.0000E-01	4.5877E-01 1.0000E+00	4.4314E-01-105914	51
0.	9.0000E+00 0	0	1	21105914
21	2	105914	51	76
-1.0000E+00	5.1302E-01-9.0000E-01	4.5988E-01-8.0000E-01	4.7356E-01-105914	51
-7.0000E-01	4.8566E-01-6.0000E-01	4.9671E-01-5.0000E-01	5.0618E-01-105914	51
-4.0000E-01	5.1302E-01-3.0000E-01	5.1881E-01-2.0000E-01	5.2302E-01-105914	51
-1.0000E-01	5.2512E-01 0.	5.2618E-01 1.0000E-01	5.2512E-01-105914	51
2.0000E-01	5.2302E-01 3.0000E-01	5.1881E-01 4.0000E-01	5.1302E-01-105914	51
5.0000E-01	5.0618E-01 6.0000E-01	4.9671E-01 7.0000E-01	4.8566E-01-105914	51
8.0000E-01	4.7356E-01 9.0000E-01	4.5988E-01 1.0000E+00	4.4410E-01-105914	51
4.7780E+00	4.3388E+00 0	0	1	9105914
0.	4.9860E+00 0	0	1	105914
21	2	105914	51	86
-1.0000E+00	4.3970E-01-9.0000E-01	4.5727E-01-8.0000E-01	4.7058E-01-105914	51
-7.0000E-01	4.8655E-01-6.0000E-01	4.9400E-01-5.0000E-01	5.0359E-01-105914	51
-4.0000E-01	5.1743E-01-3.0000E-01	5.2328E-01-2.0000E-01	5.2807E-01-105914	51
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2.0000E-01	5.2807E-01 3.0000E-01	5.2328E-01 4.0000E-01	5.1743E-01-105914	51
5.0000E-01	5.0359E-01 6.0000E-01	4.9400E-01 7.0000E-01	4.8655E-01-105914	51
8.0000E-01	4.7058E-01 9.0000E-01	4.5727E-01 1.0000E+00	4.3970E-01-105914	51
0.	5.5000E+00 0	0	1	21105914
21	2	105914	51	96
-1.0000E+00	4.3840E-01-9.0000E-01	4.5642E-01-8.0000E-01	4.7129E-01-105914	51
-7.0000E-01	4.8515E-01-6.0000E-01	4.9670E-01-5.0000E-01	5.0711E-01-105914	51
-4.0000E-01	5.1645E-01-3.0000E-01	5.2270E-01-2.0000E-01	5.2749E-01-105914	51
-1.0000E-01	5.3023E-01 0.	5.3129E-01 1.0000E-01	5.3023E-01-105914	51
2.0000E-01	5.2749E-01 3.0000E-01	5.2270E-01 4.0000E-01	5.1645E-01-105914	51
5.0000E-01	5.0711E-01 6.0000E-01	4.9670E-01 7.0000E-01	4.8515E-01-105914	51
8.0000E-01	4.7129E-01 9.0000E-01	4.5642E-01 1.0000E+00	4.3840E-01-105914	51
0.	6.0000E+00 0	0	1	21105914
21	2	105914	51	105
-1.0000E+00	4.3795E-01-9.0000E-01	4.5591E-01-8.0000E-01	4.7168E-01-105914	51
-7.0000E-01	4.8466E-01-6.0000E-01	4.9806E-01-5.0000E-01	5.0875E-01-105914	51
-4.0000E-01	5.1589E-01-3.0000E-01	5.2233E-01-2.0000E-01	5.2711E-01-105914	51
-1.0000E-01	5.2977E-01 0.	5.3083E-01 1.0000E-01	5.2977E-01-105914	51
2.0000E-01	5.2711E-01 3.0000E-01	5.2233E-01 4.0000E-01	5.1589E-01-105914	51
5.0000E-01	5.0875E-01 6.0000E-01	4.9806E-01 7.0000E-01	4.8466E-01-105914	51
8.0000E-01	4.7168E-01 9.0000E-01	4.5591E-01 1.0000E+00	4.3795E-01-105914	51
0.	6.5000E+00 0	0	1	21105914
21	2	105914	51	114

21	2				105914	51	115
-1.0000E+00	4.3847E-01	-9.0000E-01	4.5569E-01	-8.0000E-01	4.7161E-01	105914	51
-7.0000E-01	4.8531E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0790E-01	105914	51
-4.0000E-01	5.1587E-01	-3.0000E-01	5.2229E-01	-2.0000E-01	5.2711E-01	105914	51
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914	51
2.0000E-01	5.2711E-01	3.0000E-01	5.2229E-01	4.0000E-01	5.1587E-01	105914	51
5.0000E-01	5.0790E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8531E-01	105914	51
8.0000E-01	4.7161E-01	9.0000E-01	4.5569E-01	1.0000E+00	4.3847E-01	105914	51
0.	7.0000E+00	0	0	1	21105914	51	123
21	2				105914	51	124
-1.0000E+00	4.3934E-01	-9.0000E-01	4.5602E-01	-8.0000E-01	4.7189E-01	105914	51
-7.0000E-01	4.8586E-01	-6.0000E-01	4.9780E-01	-5.0000E-01	5.0773E-01	105914	51
-4.0000E-01	5.1569E-01	-3.0000E-01	5.2196E-01	-2.0000E-01	5.2663E-01	105914	51
-1.0000E-01	5.2987E-01	0.	5.3093E-01	1.0000E-01	5.2987E-01	105914	51
2.0000E-01	5.2663E-01	3.0000E-01	5.2196E-01	4.0000E-01	5.1569E-01	105914	51
5.0000E-01	5.0773E-01	6.0000E-01	4.9780E-01	7.0000E-01	4.8586E-01	105914	51
8.0000E-01	4.7189E-01	9.0000E-01	4.5602E-01	1.0000E+00	4.3934E-01	105914	51
0.	7.5000E+00	0	0	1	21105914	51	132
21	2				105914	51	133
-1.0000E+00	4.3796E-01	-9.0000E-01	4.5691E-01	-8.0000E-01	4.7240E-01	105914	51
-7.0000E-01	4.8675E-01	-6.0000E-01	4.9800E-01	-5.0000E-01	5.0760E-01	105914	51
-4.0000E-01	5.1559E-01	-3.0000E-01	5.2148E-01	-2.0000E-01	5.2578E-01	105914	51
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2.0000E-01	5.2578E-01	3.0000E-01	5.2148E-01	4.0000E-01	5.1559E-01	105914	51
5.0000E-01	5.0760E-01	6.0000E-01	4.9800E-01	7.0000E-01	4.8675E-01	105914	51
8.0000E-01	4.7240E-01	9.0000E-01	4.5691E-01	1.0000E+00	4.4088E-01	105914	51
0.	8.0000E+00	0	0	1	21105914	51	141
21	2				105914	51	142
-1.0000E+00	4.5184E-01	-9.0000E-01	4.5778E-01	-8.0000E-01	4.7282E-01	105914	51
-7.0000E-01	4.8688E-01	-6.0000E-01	4.9783E-01	-5.0000E-01	5.0727E-01	105914	51
-4.0000E-01	5.1505E-01	-3.0000E-01	5.2079E-01	-2.0000E-01	5.2494E-01	105914	51
-1.0000E-01	5.2797E-01	0.	5.2903E-01	1.0000E-01	5.2797E-01	105914	51
2.0000E-01	5.2494E-01	3.0000E-01	5.2079E-01	4.0000E-01	5.1505E-01	105914	51
5.0000E-01	5.0727E-01	6.0000E-01	4.9783E-01	7.0000E-01	4.8688E-01	105914	51
8.0000E-01	4.7282E-01	9.0000E-01	4.5778E-01	1.0000E+00	4.4207E-01	105914	51
0.	8.5000E+00	0	0	1	21105914	51	150
21	2				105914	51	151
-1.0000E+00	4.7687E-01	-9.0000E-01	4.5877E-01	-8.0000E-01	4.7320E-01	105914	51
-7.0000E-01	4.8652E-01	-6.0000E-01	4.9740E-01	-5.0000E-01	5.0680E-01	105914	51
-4.0000E-01	5.1420E-01	-3.0000E-01	5.1990E-01	-2.0000E-01	5.2402E-01	105914	51
-1.0000E-01	5.2668E-01	0.	5.2773E-01	1.0000E-01	5.2668E-01	105914	51
2.0000E-01	5.2402E-01	3.0000E-01	5.1990E-01	4.0000E-01	5.1420E-01	105914	51
5.0000E-01	5.0680E-01	6.0000E-01	4.9740E-01	7.0000E-01	4.8652E-01	105914	51
8.0000E-01	4.7320E-01	9.0000E-01	4.5877E-01	1.0000E+00	4.4314E-01	105914	51
0.	9.0000E+00	0	0	1	21105914	51	159
21	2				105914	51	160
-1.0000E+00	5.1302E-01	-9.0000E-01	4.5988E-01	-8.0000E-01	4.7356E-01	105914	51
-7.0000E-01	4.8566E-01	-6.0000E-01	4.9671E-01	-5.0000E-01	5.0618E-01	105914	51
-4.0000E-01	5.1302E-01	-3.0000E-01	5.1881E-01	-2.0000E-01	5.2302E-01	105914	51
-1.0000E-01	5.2512E-01	0.	5.2618E-01	1.0000E-01	5.2512E-01	105914	51
2.0000E-01	5.2302E-01	3.0000E-01	5.1881E-01	4.0000E-01	5.1302E-01	105914	51
5.0000E-01	5.0618E-01	6.0000E-01	4.9671E-01	7.0000E-01	4.8566E-01	105914	51
8.0000E-01	4.7356E-01	9.0000E-01	4.5988E-01	1.0000E+00	4.4410E-01	105914	51
4.7780E+00	2.6980E+00	0	0	1	9105914	51	168
9	2				105914	51	169
0.	4.9860E+00	0	0	1	21105914	51	170
21	2				105914	51	171
-1.0000E+00	4.3970E-01	-9.0000E-01	4.5727E-01	-8.0000E-01	4.7058E-01	105914	51
-7.0000E-01	4.8655E-01	-6.0000E-01	4.9400E-01	-5.0000E-01	5.0359E-01	105914	51
-4.0000E-01	5.1743E-01	-3.0000E-01	5.2328E-01	-2.0000E-01	5.2807E-01	105914	51
-1.0000E-01	5.3127E-01	0.	5.3233E-01	1.0000E-01	5.3127E-01	105914	51
2.0000E-01	5.2807E-01	3.0000E-01	5.2328E-01	4.0000E-01	5.1743E-01	105914	51
5.0000E-01	5.0359E-01	6.0000E-01	4.9400E-01	7.0000E-01	4.8655E-01	105914	51
8.0000E-01	4.7058E-01	9.0000E-01	4.5727E-01	1.0000E+00	4.3970E-01	105914	51
0.	5.5000E+00	0	0	1	21105914	51	179

21	2			105914	51	180
-1.0000E+00	4.3840E-01	-9.0000E-01	4.5642E-01	-8.0000E-01	4.7129E-01	105914 51 181
-7.0000E-01	4.8515E-01	-6.0000E-01	4.9670E-01	-5.0000E-01	5.0711E-01	105914 51 182
-4.0000E-01	5.1645E-01	-3.0000E-01	5.2270E-01	-2.0000E-01	5.2749E-01	105914 51 183
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914 51 184
2.0000E-01	5.2749E-01	3.0000E-01	5.2270E-01	4.0000E-01	5.1645E-01	105914 51 185
5.0000E-01	5.0711E-01	6.0000E-01	4.9670E-01	7.0000E-01	4.8515E-01	105914 51 186
8.0000E-01	4.7129E-01	9.0000E-01	4.5642E-01	1.0000E+00	4.3840E-01	105914 51 187
0.	6.0000E+00	0	0	1	21105914	51 188
21	2			105914	51	189
-1.0000E+00	4.3795E-01	-9.0000E-01	4.5591E-01	-8.0000E-01	4.7168E-01	105914 51 190
-7.0000E-01	4.8466E-01	-6.0000E-01	4.9806E-01	-5.0000E-01	5.0875E-01	105914 51 191
-4.0000E-01	5.1589E-01	-3.0000E-01	5.2233E-01	-2.0000E-01	5.2711E-01	105914 51 192
-1.0000E-01	5.2977E-01	0.	5.3083E-01	1.0000E-01	5.2977E-01	105914 51 193
2.0000E-01	5.2711E-01	3.0000E-01	5.2233E-01	4.0000E-01	5.1589E-01	105914 51 194
5.0000E-01	5.0875E-01	6.0000E-01	4.9806E-01	7.0000E-01	4.8466E-01	105914 51 195
8.0000E-01	4.7168E-01	9.0000E-01	4.5591E-01	1.0000E+00	4.3795E-01	105914 51 196
0.	6.5000E+00	0	0	1	21105914	51 197
21	2			105914	51	198
-1.0000E+00	4.3847E-01	-9.0000E-01	4.5569E-01	-8.0000E-01	4.7161E-01	105914 51 199
-7.0000E-01	4.8531E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0750E-01	105914 51 200
-4.0000E-01	5.1587E-01	-3.0000E-01	5.2229E-01	-2.0000E-01	5.2711E-01	105914 51 201
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914 51 202
2.0000E-01	5.2711E-01	3.0000E-01	5.2229E-01	4.0000E-01	5.1587E-01	105914 51 203
5.0000E-01	5.0790E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8531E-01	105914 51 204
8.0000E-01	4.7161E-01	9.0000E-01	4.5569E-01	1.0000E+00	4.3847E-01	105914 51 205
0.	7.0000E+00	0	0	1	21105914	51 206
21	2			105914	51	207
-1.0000E+00	4.3934E-01	-9.0000E-01	4.5602E-01	-8.0000E-01	4.7189E-01	105914 51 208
-7.0000E-01	4.8586E-01	-6.0000E-01	4.9780E-01	-5.0000E-01	5.0773E-01	105914 51 209
-4.0000E-01	5.1569E-01	-3.0000E-01	5.2196E-01	-2.0000E-01	5.2663E-01	105914 51 210
-1.0000E-01	5.2987E-01	0.	5.3093E-01	1.0000E-01	5.2987E-01	105914 51 211
2.0000E-01	5.2663E-01	3.0000E-01	5.2196E-01	4.0000E-01	5.1569E-01	105914 51 212
5.0000E-01	5.0773E-01	6.0000E-01	4.9780E-01	7.0000E-01	4.8586E-01	105914 51 213
8.0000E-01	4.7189E-01	9.0000E-01	4.5602E-01	1.0000E+00	4.3934E-01	105914 51 214
0.	7.5000E+00	0	0	1	21105914	51 215
21	2			105914	51	216
-1.0000E+00	4.3796E-01	-9.0000E-01	4.5691E-01	-8.0000E-01	4.7240E-01	105914 51 217
-7.0000E-01	4.8675E-01	-6.0000E-01	4.9800E-01	-5.0000E-01	5.0760E-01	105914 51 218
-4.0000E-01	5.1559E-01	-3.0000E-01	5.2148E-01	-2.0000E-01	5.2578E-01	105914 51 219
-1.0000E-01	5.2901E-01	0.	5.3007E-01	1.0000E-01	5.2901E-01	105914 51 220
2.0000E-01	5.2578E-01	3.0000E-01	5.2148E-01	4.0000E-01	5.1559E-01	105914 51 221
5.0000E-01	5.0760E-01	6.0000E-01	4.9800E-01	7.0000E-01	4.8675E-01	105914 51 222
8.0000E-01	4.7240E-01	9.0000E-01	4.5691E-01	1.0000E+00	4.4088E-01	105914 51 223
0.	8.0000E+00	0	0	1	21105914	51 224
21	2			105914	51	225
-1.0000E+00	4.5184E-01	-9.0000E-01	4.5778E-01	-8.0000E-01	4.7282E-01	105914 51 226
-7.0000E-01	4.8688E-01	-6.0000E-01	4.9783E-01	-5.0000E-01	5.0727E-01	105914 51 227
-4.0000E-01	5.1505E-01	-3.0000E-01	5.2079E-01	-2.0000E-01	5.2494E-01	105914 51 228
-1.0000E-01	5.2797E-01	0.	5.2903E-01	1.0000E-01	5.2797E-01	105914 51 229
2.0000E-01	5.2494E-01	3.0000E-01	5.2079E-01	4.0000E-01	5.1505E-01	105914 51 230
5.0000E-01	5.0727E-01	6.0000E-01	4.9783E-01	7.0000E-01	4.8688E-01	105914 51 231
8.0000E-01	4.7282E-01	9.0000E-01	4.5778E-01	1.0000E+00	4.4207E-01	105914 51 232
0.	8.5000E+00	0	0	1	21105914	51 233
21	2			105914	51	234
-1.0000E+00	4.7687E-01	-9.0000E-01	4.5877E-01	-8.0000E-01	4.7320E-01	105914 51 235
-7.0000E-01	4.8652E-01	-6.0000E-01	4.9740E-01	-5.0000E-01	5.0680E-01	105914 51 236
-4.0000E-01	5.1420E-01	-3.0000E-01	5.1990E-01	-2.0000E-01	5.2402E-01	105914 51 237
-1.0000E-01	5.2668E-01	0.	5.2773E-01	1.0000E-01	5.2668E-01	105914 51 238
2.0000E-01	5.2402E-01	3.0000E-01	5.1990E-01	4.0000E-01	5.1420E-01	105914 51 239
5.0000E-01	5.0680E-01	6.0000E-01	4.9740E-01	7.0000E-01	4.8652E-01	105914 51 240
8.0000E-01	4.7320E-01	9.0000E-01	4.5877E-01	1.0000E+00	4.4314E-01	105914 51 241
0.	9.0000E+00	0	0	1	21105914	51 242
21	2			105914	51	243
-1.0000E+00	5.1302E-01	-9.0000E-01	4.5988E-01	-8.0000E-01	4.7356E-01	105914 51 244
-7.0000E-01	4.8566E-01	-6.0000E-01	4.9671E-01	-5.0000E-01	5.0618E-01	105914 51 245
-4.0000E-01	5.1302E-01	-3.0000E-01	5.1881E-01	-2.0000E-01	5.2302E-01	105914 51 246
-1.0000E-01	5.2512E-01	0.	5.2618E-01	1.0000E-01	5.2512E-01	105914 51 247
2.0000E-01	5.2302E-01	3.0000E-01	5.1881E-01	4.0000E-01	5.1302E-01	105914 51 248
5.0000E-01	5.0618E-01	6.0000E-01	4.9671E-01	7.0000E-01	4.8566E-01	105914 51 249
8.0000E-01	4.7356E-01	9.0000E-01	4.5988E-01	1.0000E+00	4.4410E-01	105914 51 250
4.7780E+00	1.7940E+00	0	0	1	9105914	51 251

0.	9	2				105914	51	252
			4.9860E+00	0	0	1	21105914	51 253
	21	2					105914	51 254
-1.0000E+00			4.3970E-01	-9.0000E-01	4.5727E-01	-8.0000E-01	4.7058E-01	105914 51 255
-7.0000E-01			4.8655E-01	-6.0000E-01	4.9400E-01	-5.0000E-01	5.0359E-01	105914 51 256
-4.0000E-01			5.1743E-01	-3.0000E-01	5.2328E-01	-2.0000E-01	5.2807E-01	105914 51 257
-1.0000E-01			5.3127E-01	0.	5.3233E-01	1.0000E-01	5.3127E-01	105914 51 258
2.0000E-01			5.2807E-01	3.0000E-01	5.2328E-01	4.0000E-01	5.1743E-01	105914 51 259
5.0000E-01			5.0359E-01	6.0000E-01	4.9400E-01	7.0000E-01	4.8655E-01	105914 51 260
8.0000E-01			4.7058E-01	9.0000E-01	4.5727E-01	1.0000E+00	4.3970E-01	105914 51 261
0.			5.5000E+00	0	0	1	21105914	51 262
	21	2					105914	51 263
-1.0000E+00			4.3840E-01	-9.0000E-01	4.5642E-01	-8.0000E-01	4.7129E-01	105914 51 264
-7.0000E-01			4.8515E-01	-6.0000E-01	4.9670E-01	-5.0000E-01	5.0711E-01	105914 51 265
-4.0000E-01			5.1645E-01	-3.0000E-01	5.2270E-01	-2.0000E-01	5.2749E-01	105914 51 266
-1.0000E-01			5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914 51 267
2.0000E-01			5.2749E-01	3.0000E-01	5.2270E-01	4.0000E-01	5.1645E-01	105914 51 268
5.0000E-01			5.0711E-01	6.0000E-01	4.9670E-01	7.0000E-01	4.8515E-01	105914 51 269
8.0000E-01			4.7129E-01	9.0000E-01	4.5642E-01	1.0000E+00	4.3840E-01	105914 51 270
0.			6.0000E+00	0	0	1	21105914	51 271
	21	2					105914	51 272
-1.0000E+00			4.3795E-01	-9.0000E-01	4.5591E-01	-8.0000E-01	4.7168E-01	105914 51 273
-7.0000E-01			4.8466E-01	-6.0000E-01	4.9806E-01	-5.0000E-01	5.0875E-01	105914 51 274
-4.0000E-01			5.1589E-01	-3.0000E-01	5.2233E-01	-2.0000E-01	5.2711E-01	105914 51 275
-1.0000E-01			5.2977E-01	0.	5.3083E-01	1.0000E-01	5.2977E-01	105914 51 276
2.0000E-01			5.2711E-01	3.0000E-01	5.2233E-01	4.0000E-01	5.1589E-01	105914 51 277
5.0000E-01			5.0875E-01	6.0000E-01	4.9806E-01	7.0000E-01	4.8466E-01	105914 51 278
8.0000E-01			4.7168E-01	9.0000E-01	4.5591E-01	1.0000E+00	4.3795E-01	105914 51 279
0.			6.5000E+00	0	0	1	21105914	51 280
	21	2					105914	51 281
-1.0000E+00			4.3847E-01	-9.0000E-01	4.5569E-01	-8.0000E-01	4.7161E-01	105914 51 282
-7.0000E-01			4.8531E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0790E-01	105914 51 283
-4.0000E-01			5.1587E-01	-3.0000E-01	5.2229E-01	-2.0000E-01	5.2711E-01	105914 51 284
-1.0000E-01			5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914 51 285
2.0000E-01			5.2711E-01	3.0000E-01	5.2229E-01	4.0000E-01	5.1587E-01	105914 51 286
5.0000E-01			5.0790E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8531E-01	105914 51 287
8.0000E-01			4.7161E-01	9.0000E-01	4.5569E-01	1.0000E+00	4.3847E-01	105914 51 288
0.			7.0000E+00	0	0	1	21105914	51 289
	21	2					105914	51 290
-1.0000E+00			4.3934E-01	-9.0000E-01	4.5602E-01	-8.0000E-01	4.7189E-01	105914 51 291
-7.0000E-01			4.8586E-01	-6.0000E-01	4.9780E-01	-5.0000E-01	5.0773E-01	105914 51 292
-4.0000E-01			5.1569E-01	-3.0000E-01	5.2196E-01	-2.0000E-01	5.2663E-01	105914 51 293
-1.0000E-01			5.2987E-01	0.	5.3093E-01	1.0000E-01	5.2987E-01	105914 51 294
2.0000E-01			5.2663E-01	3.0000E-01	5.2196E-01	4.0000E-01	5.1569E-01	105914 51 295
5.0000E-01			5.0773E-01	6.0000E-01	4.9780E-01	7.0000E-01	4.8586E-01	105914 51 296
8.0000E-01			4.7189E-01	9.0000E-01	4.5602E-01	1.0000E+00	4.3934E-01	105914 51 297
0.			7.5000E+00	0	0	1	21105914	51 298
	21	2					105914	51 299
-1.0000E+00			4.3796E-01	-9.0000E-01	4.5691E-01	-8.0000E-01	4.7240E-01	105914 51 300
-7.0000E-01			4.8675E-01	-6.0000E-01	4.9800E-01	-5.0000E-01	5.0760E-01	105914 51 301
-4.0000E-01			5.1559E-01	-3.0000E-01	5.2148E-01	-2.0000E-01	5.2578E-01	105914 51 302
-1.0000E-01			5.2901E-01	0.	5.3007E-01	1.0000E-01	5.2901E-01	105914 51 303
2.0000E-01			5.2578E-01	3.0000E-01	5.2148E-01	4.0000E-01	5.1559E-01	105914 51 304
5.0000E-01			5.0760E-01	6.0000E-01	4.9800E-01	7.0000E-01	4.8675E-01	105914 51 305
8.0000E-01			4.7240E-01	9.0000E-01	4.5691E-01	1.0000E+00	4.4088E-01	105914 51 306
0.			8.0000E+00	0	0	1	21105914	51 307
	21	2					105914	51 308
-1.0000E+00			4.5184E-01	-9.0000E-01	4.5778E-01	-8.0000E-01	4.7282E-01	105914 51 309
-7.0000E-01			4.8688E-01	-6.0000E-01	4.9783E-01	-5.0000E-01	5.0727E-01	105914 51 310
-4.0000E-01			5.1505E-01	-3.0000E-01	5.2079E-01	-2.0000E-01	5.2494E-01	105914 51 311
-1.0000E-01			5.2797E-01	0.	5.2903E-01	1.0000E-01	5.2797E-01	105914 51 312
2.0000E-01			5.2494E-01	3.0000E-01	5.2079E-01	4.0000E-01	5.1505E-01	105914 51 313
5.0000E-01			5.0727E-01	6.0000E-01	4.9783E-01	7.0000E-01	4.8688E-01	105914 51 314
8.0000E-01			4.7282E-01	9.0000E-01	4.5778E-01	1.0000E+00	4.4207E-01	105914 51 315
0.			8.5000E+00	0	0	1	21105914	51 316

21	2			105914	51	317
-1.0000E+00	4.7687E-01	-9.0000E-01	4.5877E-01	-8.0000E-01	4.7320E-01	105914 51 318
-7.0000E-01	4.8652E-01	-6.0000E-01	4.9740E-01	-5.0000E-01	5.0680E-01	105914 51 319
-4.0000E-01	5.1420E-01	-3.0000E-01	5.1990E-01	-2.0000E-01	5.2402E-01	105914 51 320
-1.0000E-01	5.2668E-01	0.	5.2773E-01	1.0000E-01	5.2668E-01	105914 51 321
2.0000E-01	5.2402E-01	3.0000E-01	5.1990E-01	4.0000E-01	5.1420E-01	105914 51 322
5.0000E-01	5.0680E-01	6.0000E-01	4.9740E-01	7.0000E-01	4.8652E-01	105914 51 323
8.0000E-01	4.7320E-01	9.0000E-01	4.5877E-01	1.0000E+00	4.4314E-01	105914 51 324
0.	9.0000E+00	0	0	1	21105914	51 325
21	2			105914	51	326
-1.0000E+00	5.1302E-01	-9.0000E-01	4.5988E-01	-8.0000E-01	4.7356E-01	105914 51 327
-7.0000E-01	4.8566E-01	-6.0000E-01	4.9671E-01	-5.0000E-01	5.0618E-01	105914 51 328
-4.0000E-01	5.1302E-01	-3.0000E-01	5.1881E-01	-2.0000E-01	5.2302E-01	105914 51 329
-1.0000E-01	5.2512E-01	0.	5.2618E-01	1.0000E-01	5.2512E-01	105914 51 330
2.0000E-01	5.2302E-01	3.0000E-01	5.1881E-01	4.0000E-01	5.1302E-01	105914 51 331
5.0000E-01	5.0618E-01	6.0000E-01	4.9671E-01	7.0000E-01	4.8566E-01	105914 51 332
8.0000E-01	4.7356E-01	9.0000E-01	4.5988E-01	1.0000E+00	4.4410E-01	105914 51 333
4.7780E+00	1.1000E+00	0	0	1	9105914	51 334
0.	4.9860E+00	0	0	1	21105914	51 335
21	2			105914	51	336
-1.0000E+00	4.3970E-01	-9.0000E-01	4.5727E-01	-8.0000E-01	4.7058E-01	105914 51 337
-7.0000E-01	4.8655E-01	-6.0000E-01	4.9400E-01	-5.0000E-01	5.0359E-01	105914 51 338
-4.0000E-01	5.1743E-01	-3.0000E-01	5.2328E-01	-2.0000E-01	5.2807E-01	105914 51 339
-1.0000E-01	5.3127E-01	0.	5.3233E-01	1.0000E-01	5.3127E-01	105914 51 340
2.0000E-01	5.2807E-01	3.0000E-01	5.2328E-01	4.0000E-01	5.1743E-01	105914 51 341
5.0000E-01	5.0359E-01	6.0000E-01	4.9400E-01	7.0000E-01	4.8655E-01	105914 51 342
8.0000E-01	4.7058E-01	9.0000E-01	4.5727E-01	1.0000E+00	4.3970E-01	105914 51 343
0.	5.5000E+00	0	0	1	21105914	51 344
21	2			105914	51	345
-1.0000E+00	4.3840E-01	-9.0000E-01	4.5642E-01	-8.0000E-01	4.7129E-01	105914 51 346
-7.0000E-01	4.8515E-01	-6.0000E-01	4.9670E-01	-5.0000E-01	5.0711E-01	105914 51 347
-4.0000E-01	5.1645E-01	-3.0000E-01	5.2270E-01	-2.0000E-01	5.2749E-01	105914 51 348
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914 51 349
2.0000E-01	5.2749E-01	3.0000E-01	5.2270E-01	4.0000E-01	5.1645E-01	105914 51 350
5.0000E-01	5.0711E-01	6.0000E-01	4.9670E-01	7.0000E-01	4.8515E-01	105914 51 351
8.0000E-01	4.7129E-01	9.0000E-01	4.5642E-01	1.0000E+00	4.3840E-01	105914 51 352
0.	6.0000E+00	0	0	1	21105914	51 353
21	2			105914	51	354
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-7.0000E-01	4.8466E-01	-6.0000E-01	4.9806E-01	-5.0000E-01	5.0875E-01	105914 51 356
-4.0000E-01	5.1589E-01	-3.0000E-01	5.2233E-01	-2.0000E-01	5.2711E-01	105914 51 357
-1.0000E-01	5.2977E-01	0.	5.3083E-01	1.0000E-01	5.2977E-01	105914 51 358
2.0000E-01	5.2711E-01	3.0000E-01	5.2233E-01	4.0000E-01	5.1589E-01	105914 51 359
5.0000E-01	5.0875E-01	6.0000E-01	4.9806E-01	7.0000E-01	4.8466E-01	105914 51 360
8.0000E-01	4.7168E-01	9.0000E-01	4.5591E-01	1.0000E+00	4.3795E-01	105914 51 361
0.	6.5000E+00	0	0	1	21105914	51 362
21	2			105914	51	363
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-7.0000E-01	4.8531E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0790E-01	105914 51 365
-4.0000E-01	5.1587E-01	-3.0000E-01	5.2229E-01	-2.0000E-01	5.2711E-01	105914 51 366
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914 51 367
2.0000E-01	5.2711E-01	3.0000E-01	5.2229E-01	4.0000E-01	5.1587E-01	105914 51 368
5.0000E-01	5.0790E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8531E-01	105914 51 369
8.0000E-01	4.7161E-01	9.0000E-01	4.5569E-01	1.0000E+00	4.3847E-01	105914 51 370
0.	7.0000E+00	0	0	1	21105914	51 371
21	2			105914	51	372
-1.0000E+00	4.3934E-01	-9.0000E-01	4.5602E-01	-8.0000E-01	4.7189E-01	105914 51 373
-7.0000E-01	4.8586E-01	-6.0000E-01	4.9780E-01	-5.0000E-01	5.0773E-01	105914 51 374
-4.0000E-01	5.1569E-01	-3.0000E-01	5.2196E-01	-2.0000E-01	5.2663E-01	105914 51 375
-1.0000E-01	5.2987E-01	0.	5.3093E-01	1.0000E-01	5.2987E-01	105914 51 376
2.0000E-01	5.2663E-01	3.0000E-01	5.2196E-01	4.0000E-01	5.1569E-01	105914 51 377
5.0000E-01	5.0773E-01	6.0000E-01	4.9780E-01	7.0000E-01	4.8586E-01	105914 51 378
8.0000E-01	4.7189E-01	9.0000E-01	4.5602E-01	1.0000E+00	4.3934E-01	105914 51 379
0.	7.5000E+00	0	0	1	21105914	51 380
						381

21	2				105914	51	382
-1.0000E+00	4.3796E-01	-9.0000E-01	4.5691E-01	-8.0000E-01	4.7240E-01	105914	51 383
-7.0000E-01	4.8675E-01	-6.0000E-01	4.9800E-01	-5.0000E-01	5.0760E-01	105914	51 384
-4.0000E-01	5.1559E-01	-3.0000E-01	5.2148E-01	-2.0000E-01	5.2578E-01	105914	51 385
-1.0000E-01	5.2901E-01	0.	5.3007E-01	1.0000E-01	5.2901E-01	105914	51 386
2.0000E-01	5.2578E-01	3.0000E-01	5.2148E-01	4.0000E-01	5.1559E-01	105914	51 387
5.0000E-01	5.0760E-01	6.0000E-01	4.9800E-01	7.0000E-01	4.8675E-01	105914	51 388
8.0000E-01	4.7240E-01	9.0000E-01	4.5691E-01	1.0000E+00	4.4088E-01	105914	51 389
0.	8.0000E+00	0	0	1	21105914	51	390
21	2				105914	51	391
-1.0000E+00	4.5184E-01	-9.0000E-01	4.5778E-01	-8.0000E-01	4.7282E-01	105914	51 392
-7.0000E-01	4.8688E-01	-6.0000E-01	4.9783E-01	-5.0000E-01	5.0727E-01	105914	51 393
-4.0000E-01	5.1505E-01	-3.0000E-01	5.2079E-01	-2.0000E-01	5.2494E-01	105914	51 394
-1.0000E-01	5.2797E-01	0.	5.2903E-01	1.0000E-01	5.2797E-01	105914	51 395
2.0000E-01	5.2494E-01	3.0000E-01	5.2079E-01	4.0000E-01	5.1505E-01	105914	51 396
5.0000E-01	5.0727E-01	6.0000E-01	4.9783E-01	7.0000E-01	4.8688E-01	105914	51 397
8.0000E-01	4.7282E-01	9.0000E-01	4.5778E-01	1.0000E+00	4.4207E-01	105914	51 398
0.	8.5000E+00	0	0	1	21105914	51	399
21	2				105914	51	400
-1.0000E+00	4.7687E-01	-9.0000E-01	4.5877E-01	-8.0000E-01	4.7320E-01	105914	51 401
-7.0000E-01	4.8652E-01	-6.0000E-01	4.9740E-01	-5.0000E-01	5.0680E-01	105914	51 402
-4.0000E-01	5.1420E-01	-3.0000E-01	5.1990E-01	-2.0000E-01	5.2402E-01	105914	51 403
-1.0000E-01	5.2668E-01	0.	5.2773E-01	1.0000E-01	5.2668E-01	105914	51 404
2.0000E-01	5.2402E-01	3.0000E-01	5.1990E-01	4.0000E-01	5.1420E-01	105914	51 405
5.0000E-01	5.0680E-01	6.0000E-01	4.9740E-01	7.0000E-01	4.8652E-01	105914	51 406
8.0000E-01	4.7320E-01	9.0000E-01	4.5877E-01	1.0000E+00	4.4314E-01	105914	51 407
0.	9.0000E+00	0	0	1	21105914	51	408
21	2				105914	51	409
-1.0000E+00	5.1302E-01	-9.0000E-01	4.5988E-01	-8.0000E-01	4.7356E-01	105914	51 410
-7.0000E-01	4.8566E-01	-6.0000E-01	4.9671E-01	-5.0000E-01	5.0618E-01	105914	51 411
-4.0000E-01	5.1302E-01	-3.0000E-01	5.1881E-01	-2.0000E-01	5.2302E-01	105914	51 412
-1.0000E-01	5.2512E-01	0.	5.2618E-01	1.0000E-01	5.2512E-01	105914	51 413
2.0000E-01	5.2302E-01	3.0000E-01	5.1881E-01	4.0000E-01	5.1302E-01	105914	51 414
5.0000E-01	5.0618E-01	6.0000E-01	4.9671E-01	7.0000E-01	4.8566E-01	105914	51 415
8.0000E-01	4.7356E-01	9.0000E-01	4.5988E-01	1.0000E+00	4.4410E-01	105914	51 416
0.	0.	0	0	0	0105914	0	417
11023.0	22.786	1	2	1	0105914	52	1
0.0	0.0	0	0	0	0105914	0	2
1.1023E+04	2.2786E+01	0	2	4	0105914	53	1
7.1100E+00	7.1100E+00	0	0	1	4105914	53	2
4	2				105914	53	3
0.	7.4220E+00	0	0	1	21105914	53	4
21	2				105914	53	5
-1.0000E+00	4.2177E-01	-9.0000E-01	4.4542E-01	-8.0000E-01	4.6414E-01	105914	53 6
-7.0000E-01	4.7787E-01	-6.0000E-01	4.9940E-01	-5.0000E-01	5.0928E-01	105914	53 7
-4.0000E-01	5.1880E-01	-3.0000E-01	5.2677E-01	-2.0000E-01	5.3657E-01	105914	53 8
-1.0000E-01	5.4050E-01	0.	5.4104E-01	1.0000E-01	5.4050E-01	105914	53 9
2.0000E-01	5.3657E-01	3.0000E-01	5.2677E-01	4.0000E-01	5.1880E-01	105914	53 10
5.0000E-01	5.0928E-01	6.0000E-01	4.9940E-01	7.0000E-01	4.7787E-01	105914	53 11
8.0000E-01	4.6414E-01	9.0000E-01	4.4542E-01	1.0000E+00	4.2177E-01	105914	53 12
0.	8.0000E+00	0	0	1	21105914	53	13
21	2				105914	53	14
-1.0000E+00	4.2643E-01	-9.0000E-01	4.4869E-01	-8.0000E-01	4.6699E-01	105914	53 15
-7.0000E-01	4.8114E-01	-6.0000E-01	5.0032E-01	-5.0000E-01	5.1046E-01	105914	53 16
-4.0000E-01	5.1214E-01	-3.0000E-01	5.1983E-01	-2.0000E-01	5.3609E-01	105914	53 17
-1.0000E-01	5.4030E-01	0.	5.4084E-01	1.0000E-01	5.4030E-01	105914	53 18
2.0000E-01	5.3609E-01	3.0000E-01	5.1983E-01	4.0000E-01	5.1214E-01	105914	53 19
5.0000E-01	5.1046E-01	6.0000E-01	5.0032E-01	7.0000E-01	4.8114E-01	105914	53 20
8.0000E-01	4.6699E-01	9.0000E-01	4.4869E-01	1.0000E+00	4.2643E-01	105914	53 21
0.	8.5000E+00	0	0	1	21105914	53	22
21	2				105914	53	23
-1.0000E+00	4.3169E-01	-9.0000E-01	4.5238E-01	-8.0000E-01	4.7021E-01	105914	53 24
-7.0000E-01	4.8482E-01	-6.0000E-01	5.0135E-01	-5.0000E-01	5.1180E-01	105914	53 25
-4.0000E-01	5.0461E-01	-3.0000E-01	5.1199E-01	-2.0000E-01	5.3555E-01	105914	53 26
-1.0000E-01	5.4006E-01	0.	5.4060E-01	1.0000E-01	5.4006E-01	105914	53 27
2.0000E-01	5.3555E-01	3.0000E-01	5.1199E-01	4.0000E-01	5.0461E-01	105914	53 28
5.0000E-01	5.1180E-01	6.0000E-01	5.0135E-01	7.0000E-01	4.8482E-01	105914	53 29
8.0000E-01	4.7021E-01	9.0000E-01	4.5238E-01	1.0000E+00	4.3169E-01	105914	53 30
0.	9.0000E+00	0	0	1	21105914	53	31

21	2			105914	53	32
-1.0000E+00	4.3768E-01	-9.0000E-01	4.5659E-01	-8.0000E-01	4.7388E-01	105914 53 33
-7.0000E-01	4.8901E-01	-6.0000E-01	5.0252E-01	-5.0000E-01	5.1333E-01	105914 53 34
-4.0000E-01	4.9604E-01	-3.0000E-01	5.0306E-01	-2.0000E-01	5.3494E-01	105914 53 35
-1.0000E-01	5.3981E-01	0.	5.4035E-01	1.0000E-01	5.3981E-01	105914 53 36
2.0000E-01	5.3494E-01	3.0000E-01	5.0306E-01	4.0000E-01	4.9604E-01	105914 53 37
5.0000E-01	5.1333E-01	6.0000E-01	5.0252E-01	7.0000E-01	4.8901E-01	105914 53 38
8.0000E-01	4.7388E-01	9.0000E-01	4.5659E-01	1.0000E+00	4.3768E-01	105914 53 39
7.1100E+00	6.6708E+00	0	0	1		4105914 53 40
4	2					105914 53 41
0.	7.4220E+00	0	0	1		21105914 53 42
21	2					105914 53 43
-1.0000E+00	4.2177E-01	-9.0000E-01	4.4542E-01	-8.0000E-01	4.6414E-01	105914 53 44
-7.0000E-01	4.7787E-01	-6.0000E-01	4.9940E-01	-5.0000E-01	5.0928E-01	105914 53 45
-4.0000E-01	5.1880E-01	-3.0000E-01	5.2677E-01	-2.0000E-01	5.3657E-01	105914 53 46
-1.0000E-01	5.4050E-01	0.	5.4104E-01	1.0000E-01	5.4050E-01	105914 53 47
2.0000E-01	5.3657E-01	3.0000E-01	5.2677E-01	4.0000E-01	5.1880E-01	105914 53 48
5.0000E-01	5.0928E-01	6.0000E-01	4.9940E-01	7.0000E-01	4.7787E-01	105914 53 49
8.0000E-01	4.6414E-01	9.0000E-01	4.4542E-01	1.0000E+00	4.2177E-01	105914 53 50
0.	8.0000E+00	0	0	1		21105914 53 51
21	2					105914 53 52
-1.0000E+00	4.2643E-01	-9.0000E-01	4.4869E-01	-8.0000E-01	4.6699E-01	105914 53 53
-7.0000E-01	4.8114E-01	-6.0000E-01	5.0032E-01	-5.0000E-01	5.1046E-01	105914 53 54
-4.0000E-01	5.1214E-01	-3.0000E-01	5.1983E-01	-2.0000E-01	5.3609E-01	105914 53 55
-1.0000E-01	5.4030E-01	0.	5.4084E-01	1.0000E-01	5.4030E-01	105914 53 56
2.0000E-01	5.3609E-01	3.0000E-01	5.1983E-01	4.0000E-01	5.1214E-01	105914 53 57
5.0000E-01	5.1046E-01	6.0000E-01	5.0032E-01	7.0000E-01	4.8114E-01	105914 53 58
8.0000E-01	4.6699E-01	9.0000E-01	4.4869E-01	1.0000E+00	4.2643E-01	105914 53 59
0.	8.5000E+00	0	0	1		21105914 53 60
21	2					105914 53 61
-1.0000E+00	4.3169E-01	-9.0000E-01	4.5238E-01	-8.0000E-01	4.7021E-01	105914 53 62
-7.0000E-01	4.8482E-01	-6.0000E-01	5.0135E-01	-5.0000E-01	5.1180E-01	105914 53 63
-4.0000E-01	5.0461E-01	-3.0000E-01	5.1199E-01	-2.0000E-01	5.3555E-01	105914 53 64
-1.0000E-01	5.4006E-01	0.	5.4060E-01	1.0000E-01	5.4006E-01	105914 53 65
2.0000E-01	5.3555E-01	3.0000E-01	5.1199E-01	4.0000E-01	5.0461E-01	105914 53 66
5.0000E-01	5.1180E-01	6.0000E-01	5.0135E-01	7.0000E-01	4.8482E-01	105914 53 67
8.0000E-01	4.7021E-01	9.0000E-01	4.5238E-01	1.0000E+00	4.3169E-01	105914 53 68
0.	9.0000E+00	0	0	1		21105914 53 69
21	2					105914 53 70
-1.0000E+00	4.3768E-01	-9.0000E-01	4.5659E-01	-8.0000E-01	4.7388E-01	105914 53 71
-7.0000E-01	4.8901E-01	-6.0000E-01	5.0252E-01	-5.0000E-01	5.1333E-01	105914 53 72
-4.0000E-01	4.9604E-01	-3.0000E-01	5.0306E-01	-2.0000E-01	5.3494E-01	105914 53 73
-1.0000E-01	5.3981E-01	0.	5.4035E-01	1.0000E-01	5.3981E-01	105914 53 74
2.0000E-01	5.3494E-01	3.0000E-01	5.0306E-01	4.0000E-01	4.9604E-01	105914 53 75
5.0000E-01	5.1333E-01	6.0000E-01	5.0252E-01	7.0000E-01	4.8901E-01	105914 53 76
8.0000E-01	4.7388E-01	9.0000E-01	4.5659E-01	1.0000E+00	4.3768E-01	105914 53 77
7.1100E+00	4.4700E+00	0	0	1		4105914 53 78
4	2					105914 53 79
0.	7.4220E+00	0	0	1		21105914 53 80
21	2					105914 53 81
-1.0000E+00	4.2177E-01	-9.0000E-01	4.4542E-01	-8.0000E-01	4.6414E-01	105914 53 82
-7.0000E-01	4.7787E-01	-6.0000E-01	4.9940E-01	-5.0000E-01	5.0928E-01	105914 53 83
-4.0000E-01	5.1880E-01	-3.0000E-01	5.2677E-01	-2.0000E-01	5.3657E-01	105914 53 84
-1.0000E-01	5.4050E-01	0.	5.4104E-01	1.0000E-01	5.4050E-01	105914 53 85
2.0000E-01	5.3657E-01	3.0000E-01	5.2677E-01	4.0000E-01	5.1880E-01	105914 53 86
5.0000E-01	5.0928E-01	6.0000E-01	4.9940E-01	7.0000E-01	4.7787E-01	105914 53 87
8.0000E-01	4.6414E-01	9.0000E-01	4.4542E-01	1.0000E+00	4.2177E-01	105914 53 88
0.	8.0000E+00	0	0	1		21105914 53 89
21	2					105914 53 90
-1.0000E+00	4.2643E-01	-9.0000E-01	4.4869E-01	-8.0000E-01	4.6699E-01	105914 53 91
-7.0000E-01	4.8114E-01	-6.0000E-01	5.0032E-01	-5.0000E-01	5.1046E-01	105914 53 92
-4.0000E-01	5.1214E-01	-3.0000E-01	5.1983E-01	-2.0000E-01	5.3609E-01	105914 53 93
-1.0000E-01	5.4030E-01	0.	5.4084E-01	1.0000E-01	5.4030E-01	105914 53 94
2.0000E-01	5.3609E-01	3.0000E-01	5.1983E-01	4.0000E-01	5.1214E-01	105914 53 95
5.0000E-01	5.1046E-01	6.0000E-01	5.0032E-01	7.0000E-01	4.8114E-01	105914 53 96
8.0000E-01	4.6699E-01	9.0000E-01	4.4869E-01	1.0000E+00	4.2643E-01	105914 53 97
0.	8.5000E+00	0	0	1		21105914 53 98

21	2			105914	53	99
-1.0000E+00	4.3169E-01	-9.0000E-01	4.5238E-01	-8.0000E-01	4.7021E-01	105914 53 100
-7.0000E-01	4.8482E-01	-6.0000E-01	5.0135E-01	-5.0000E-01	5.1180E-01	105914 53 101
-4.0000E-01	5.0461E-01	-3.0000E-01	5.1199E-01	-2.0000E-01	5.3555E-01	105914 53 102
-1.0000E-01	5.4006E-01	0.	5.4060E-01	1.0000E-01	5.4006E-01	105914 53 103
2.0000E-01	5.3555E-01	3.0000E-01	5.1199E-01	4.0000E-01	5.0461E-01	105914 53 104
5.0000E-01	5.1180E-01	6.0000E-01	5.0135E-01	7.0000E-01	4.8482E-01	105914 53 105
8.0000E-01	4.7021E-01	9.0000E-01	4.5238E-01	1.0000E+00	4.3169E-01	105914 53 106
0.	9.0000E+00	0	0	1	21105914	53 107
21	2			105914	53	108
-1.0000E+00	4.3768E-01	-9.0000E-01	4.5659E-01	-8.0000E-01	4.7388E-01	105914 53 109
-7.0000E-01	4.8901E-01	-6.0000E-01	5.0252E-01	-5.0000E-01	5.1333E-01	105914 53 110
-4.0000E-01	4.9604E-01	-3.0000E-01	5.0306E-01	-2.0000E-01	5.3494E-01	105914 53 111
-1.0000E-01	5.3981E-01	0.	5.4035E-01	1.0000E-01	5.3981E-01	105914 53 112
2.0000E-01	5.3494E-01	3.0000E-01	5.0306E-01	4.0000E-01	4.9604E-01	105914 53 113
5.0000E-01	5.1333E-01	6.0000E-01	5.0252E-01	7.0000E-01	4.8901E-01	105914 53 114
8.0000E-01	4.7388E-01	9.0000E-01	4.5659E-01	1.0000E+00	4.3768E-01	105914 53 115
7.1100E+00	4.1260E+00	0	0	1	4105914	53 116
0.	7.4220E+00	0	0	1	105914	53 117
21	2			21105914	53	118
-1.0000E+00	4.2177E-01	-9.0000E-01	4.4542E-01	-8.0000E-01	4.6414E-01	105914 53 119
-7.0000E-01	4.7787E-01	-6.0000E-01	4.9940E-01	-5.0000E-01	5.0928E-01	105914 53 120
-4.0000E-01	5.1880E-01	-3.0000E-01	5.2677E-01	-2.0000E-01	5.3657E-01	105914 53 121
-1.0000E-01	5.4050E-01	0.	5.4104E-01	1.0000E-01	5.4050E-01	105914 53 122
2.0000E-01	5.3657E-01	3.0000E-01	5.2677E-01	4.0000E-01	5.1880E-01	105914 53 123
5.0000E-01	5.0928E-01	6.0000E-01	4.9940E-01	7.0000E-01	4.7787E-01	105914 53 124
8.0000E-01	4.6414E-01	9.0000E-01	4.4542E-01	1.0000E+00	4.2177E-01	105914 53 125
0.	8.0000E+00	0	0	1	21105914	53 126
21	2			105914	53	127
-1.0000E+00	4.2643E-01	-9.0000E-01	4.4869E-01	-8.0000E-01	4.6699E-01	105914 53 128
-7.0000E-01	4.8114E-01	-6.0000E-01	5.0032E-01	-5.0000E-01	5.1046E-01	105914 53 129
-4.0000E-01	5.1214E-01	-3.0000E-01	5.1983E-01	-2.0000E-01	5.3609E-01	105914 53 130
-1.0000E-01	5.4030E-01	0.	5.4084E-01	1.0000E-01	5.4030E-01	105914 53 131
2.0000E-01	5.3609E-01	3.0000E-01	5.1983E-01	4.0000E-01	5.1214E-01	105914 53 132
5.0000E-01	5.1046E-01	6.0000E-01	5.0032E-01	7.0000E-01	4.8114E-01	105914 53 133
8.0000E-01	4.6699E-01	9.0000E-01	4.4869E-01	1.0000E+00	4.2643E-01	105914 53 134
0.	8.5000E+00	0	0	1	21105914	53 135
21	2			105914	53	136
-1.0000E+00	4.3169E-01	-9.0000E-01	4.5238E-01	-8.0000E-01	4.7021E-01	105914 53 137
-7.0000E-01	4.8482E-01	-6.0000E-01	5.0135E-01	-5.0000E-01	5.1180E-01	105914 53 138
-4.0000E-01	5.0461E-01	-3.0000E-01	5.1199E-01	-2.0000E-01	5.3555E-01	105914 53 139
-1.0000E-01	5.4006E-01	0.	5.4060E-01	1.0000E-01	5.4006E-01	105914 53 140
2.0000E-01	5.3555E-01	3.0000E-01	5.1199E-01	4.0000E-01	5.0461E-01	105914 53 141
5.0000E-01	5.1180E-01	6.0000E-01	5.0135E-01	7.0000E-01	4.8482E-01	105914 53 142
8.0000E-01	4.7021E-01	9.0000E-01	4.5238E-01	1.0000E+00	4.3169E-01	105914 53 143
0.	9.0000E+00	0	0	1	21105914	53 144
21	2			105914	53	145
-1.0000E+00	4.3768E-01	-9.0000E-01	4.5659E-01	-8.0000E-01	4.7388E-01	105914 53 146
-7.0000E-01	4.8901E-01	-6.0000E-01	5.0252E-01	-5.0000E-01	5.1333E-01	105914 53 147
-4.0000E-01	4.9604E-01	-3.0000E-01	5.0306E-01	-2.0000E-01	5.3494E-01	105914 53 148
-1.0000E-01	5.3981E-01	0.	5.4035E-01	1.0000E-01	5.3981E-01	105914 53 149
2.0000E-01	5.3494E-01	3.0000E-01	5.0306E-01	4.0000E-01	4.9604E-01	105914 53 150
5.0000E-01	5.1333E-01	6.0000E-01	5.0252E-01	7.0000E-01	4.8901E-01	105914 53 151
8.0000E-01	4.7388E-01	9.0000E-01	4.5659E-01	1.0000E+00	4.3768E-01	105914 53 152
0.	0.	0	0	0	0105914	0 153
11023.0	22.786	1	2	31	0105914102	1 154
0.0	0.0	0	0	0	0105914	0 155
0.0	0.0	0	0	0	01059	0 0 4444

11023.0	22.786	2	1	1	0105915	5	1
0.4392 E+6	0.0	0	0	2	1105915	5	2
0.0	1.0				105915	5	3
0.0	0.0	0	0	C	0105915	0	4
11023.0	22.786	2	1	2	0105915	6	5
2.080 E+6	0.0	0	0	4	2105915	6	6
.4392 E+6	0.91	0.0	0.09		105915	6	7
0.0	0.0	0	0	C	0105915	0	8
11023.0	22.786	2	1	3	0105915	7	9
2.391 E+6	0.0	0	0	4	2105915	7	10
.4392 E+6	0.23	0.0	0.67		105915	7	11
0.0	0.0	0	0	C	0105915	0	12
11023.0	22.786	2	1	4	0105915	8	13
2.640 E+6	0.0	0	0	2	1105915	8	14
0.0	1.0				105915	8	15
0.0	0.0	0	0	C	0105915	0	16
11023.0	22.786	2	1	5	0105915	9	17
2.705 E+6	0.0	0	0	4	2105915	9	18
2.080 E+6	0.32	0.4392 E+6	0.68		105915	9	19
0.0	0.0	0	0	C	0105915	0	20
11023.0	22.786	2	1	6	0105915	10	21
2.984 E+6	0.0	0	0	4	2105915	10	22
0.4392 E+6	0.4	0.0	0.6		105915	10	23
0.0	0.0	0	0	C	0105915	0	24
11023.0	22.786	2	1	7	0105915	11	25
3.678 E+6	0.0	0	0	8	4105915	11	26
2.640 E+6	0.15	2.080 E+6	0.1	0.4392 E+6	C.71	105915	11
0.0	0.04				105915	11	28
0.0	0.0	0	0	C	0105915	0	29
11023.0	22.786	2	1	8	0105915	12	30
3.850 E+6	0.0	0	0	4	2105915	12	31
2.080 E+6	0.5	0.0	0.5		105915	12	32
0.0	0.0	0	0	C	0105915	0	33
11023.0	22.786	2	1	9	0105915	13	34
3.915 E+6	0.0	0	0	4	2105915	13	35
0.4392 E+6	0.2	0.0	0.8		105915	13	36
0.0	0.0	0	0	C	0105915	0	37
11023.0	22.786	2	1	10	0105915	14	38
4.431 E+6	0.0	0	0	2	1105915	14	39
0.0	1.0				105915	14	40
0.0	0.0	0	0	C	0105915	0	41
1.1023E+04	2.2786E+01	1	0	C	1105915	15	1
0.	0.	0	0	1	7105915	15	2
7	2				105915	15	3
9.0500E+06	9.7285E-01	1.0000E+07	9.7689E-01	1.2000E+07	1.0050E+00	105915	15
1.4000E+07	1.0836E+00	1.6000E+07	1.1726E+00	1.8000E+07	1.2911E+00	105915	15
2.0000E+07	1.4039E+00					105915	15
0.	0.	0	1	1		7105915	15
7	2					105915	15
9.0500E+06	9.7285E-01	1.0000E+07	9.7689E-01	1.2000E+07	1.0050E+00	105915	15
1.4000E+07	1.0836E+00	1.6000E+07	1.1726E+00	1.8000E+07	1.2911E+00	105915	15
2.0000E+07	1.4039E+00					105915	15
0.	0.	0	0	1		7105915	15
7	2					105915	15
0.	9.0500E+06	0	0	1		23105915	15
23	2					105915	15
1.0000E+04	1.1485E-20	1.0000E+05	3.4110E-02	2.0000E+05	7.3963E-02	105915	15
4.0000E+05	1.4230E-01	6.0000E+05	1.9926E-01	8.0000E+05	2.4899E-01	105915	15
1.0000E+06	2.8896E-01	1.2000E+06	3.2307E-01	1.4000E+06	3.4868E-01	105915	15
1.6000E+06	3.6568E-01	1.8000E+06	3.5431E-01	2.0000E+06	3.0734E-01	105915	15
2.2000E+06	2.5761E-01	2.4000E+06	2.0776E-01	2.6000E+06	1.6217E-01	105915	15
2.8000E+06	1.2944E-01	3.0000E+06	1.2243E-01	3.5000E+06	1.1382E-01	105915	15
4.0000E+06	1.0382E-01	5.0000E+06	7.8213E-02	6.0000E+06	4.9845E-02	105915	15
7.0000E+06	1.2863E-02	8.0000E+06	1.1485E-20			105915	15
0.	1.0000E+07	0	0	1		24105915	15

24	2					105915	15	25
1.0000E+04	1.1821E-20	1.0000E+05	3.3334E-02	2.0000E+05	7.2342E-02	105915	15	26
4.0000E+05	1.3913E-01	6.0000E+05	1.9480E-01	8.0000E+05	2.4350E-01	105915	15	27
1.0000E+06	2.8239E-01	1.2000E+06	3.1585E-01	1.4000E+06	3.4090E-01	105915	15	28
1.6000E+06	3.5757E-01	1.8000E+06	3.4646E-01	2.0000E+06	3.0048E-01	105915	15	29
2.2000E+06	2.5178E-01	2.4000E+06	2.0308E-01	2.6000E+06	1.5863E-01	105915	15	30
2.8000E+06	1.2660E-01	3.0000E+06	1.1962E-01	3.5000E+06	1.1135E-01	105915	15	31
4.0000E+06	1.0154E-01	5.0000E+06	7.6479E-02	6.0000E+06	5.0119E-02	105915	15	32
7.0000E+06	2.5060E-02	8.0000E+06	8.3926E-03	9.0000E+06	1.1821E-02	105915	15	33
0.	1.2000E+07	0	0	1	25105915	15	34	
25	2					105915	15	35
1.0000E+04	1.2643E-20	1.0000E+05	3.2745E-02	2.0000E+05	7.1053E-02	105915	15	36
4.0000E+05	1.3667E-01	6.0000E+05	1.9129E-01	8.0000E+05	2.3908E-01	105915	15	37
1.0000E+06	2.7739E-01	1.2000E+06	3.1026E-01	1.4000E+06	3.3478E-01	105915	15	38
1.6000E+06	3.5122E-01	1.8000E+06	3.4035E-01	2.0000E+06	2.9521E-01	105915	15	39
2.2000E+06	2.4742E-01	2.4000E+06	1.9951E-01	2.6000E+06	1.5576E-01	105915	15	40
2.8000E+06	1.2441E-01	3.0000E+06	1.1758E-01	3.5000E+06	1.0923E-01	105915	15	41
4.0000E+06	9.9753E-02	5.0000E+06	7.5225E-02	6.0000E+06	5.0572E-02	105915	15	42
7.0000E+06	3.0090E-02	8.0000E+06	1.5045E-02	9.0000E+06	4.0457E-03	105915	15	43
1.0000E+07	1.2643E-20					105915	15	44
0.	1.4000E+07	0	0	1	26105915	15	45	
26	2					105915	15	46
1.0000E+04	1.3336E-20	1.0000E+05	3.3341E-02	2.0000E+05	6.9350E-02	105915	15	47
4.0000E+05	1.3336E-01	6.0000E+05	1.8671E-01	8.0000E+05	2.3339E-01	105915	15	48
1.0000E+06	2.7073E-01	1.2000E+06	3.0274E-01	1.4000E+06	3.2674E-01	105915	15	49
1.6000E+06	3.4275E-01	1.8000E+06	3.3208E-01	2.0000E+06	2.8807E-01	105915	15	50
2.2000E+06	2.4139E-01	2.4000E+06	1.9471E-01	2.6000E+06	1.5204E-01	105915	15	51
2.8000E+06	1.2136E-01	3.0000E+06	1.1469E-01	3.5000E+06	1.0669E-01	105915	15	52
4.0000E+06	9.7356E-02	5.0000E+06	7.3350E-02	6.0000E+06	5.0678E-02	105915	15	53
7.0000E+06	3.2007E-02	8.0000E+06	1.8671E-02	9.0000E+06	1.2003E-02	105915	15	54
1.0000E+07	5.3346E-03	1.2000E+07	1.3336E-20			105915	15	55
0.	1.6000E+07	0	0	1	27105915	15	56	
27	2					105915	15	57
1.0000E+04	1.4309E-20	1.0000E+05	3.1337E-02	2.0000E+05	6.7824E-02	105915	15	58
4.0000E+05	1.3050E-01	6.0000E+05	1.8272E-01	8.0000E+05	2.2837E-01	105915	15	59
1.0000E+06	2.6486E-01	1.2000E+06	2.9619E-01	1.4000E+06	3.1966E-01	105915	15	60
1.6000E+06	3.3540E-01	1.8000E+06	3.2496E-01	2.0000E+06	2.8189E-01	105915	15	61
2.2000E+06	2.3624E-01	2.4000E+06	1.9059E-01	2.6000E+06	1.4881E-01	105915	15	62
2.8000E+06	1.1876E-01	3.0000E+06	1.1218E-01	3.5000E+06	1.0446E-01	105915	15	63
4.0000E+06	9.5154E-02	5.0000E+06	7.1831E-02	6.0000E+06	5.0940E-02	105915	15	64
7.0000E+06	3.5200E-02	8.0000E+06	2.3467E-02	9.0000E+06	1.5597E-02	105915	15	65
1.0000E+07	9.1577E-03	1.2000E+07	7.1545E-04	1.4000E+07	1.4309E-04	105915	15	66
0.	1.8000E+07	0	0	1	28105915	15	67	
28	2					105915	15	68
1.0000E+04	1.5553E-20	1.0000E+05	3.0174E-02	2.0000E+05	6.5480E-02	105915	15	69
4.0000E+05	1.2583E-01	6.0000E+05	1.7607E-01	8.0000E+05	2.2024E-01	105915	15	70
1.0000E+06	2.5539E-01	1.2000E+06	2.8556E-01	1.4000E+06	3.0827E-01	105915	15	71
1.6000E+06	3.2336E-01	1.8000E+06	3.1325E-01	2.0000E+06	2.7172E-01	105915	15	72
2.2000E+06	2.2770E-01	2.4000E+06	1.8369E-01	2.6000E+06	1.4340E-01	105915	15	73
2.8000E+06	1.1447E-01	3.0000E+06	1.0825E-01	3.5000E+06	1.0063E-01	105915	15	74
4.0000E+06	9.1921E-02	5.0000E+06	6.9057E-02	6.0000E+06	5.1482E-02	105915	15	75
7.0000E+06	3.8884E-02	8.0000E+06	2.7685E-02	9.0000E+06	2.1308E-02	105915	15	76
1.0000E+07	1.5087E-02	1.2000E+07	4.3550E-03	1.4000E+07	3.1107E-04	105915	15	77
1.6000E+07	1.5553E-20					105915	15	78
0.	2.0000E+07	0	0	1	29105915	15	79	
29	2					105915	15	80
1.0000E+04	1.7458E-20	1.0000E+05	2.9155E-02	2.0000E+05	6.3199E-02	105915	15	81
4.0000E+05	1.2168E-01	6.0000E+05	1.7039E-01	8.0000E+05	2.1299E-01	105915	15	82
1.0000E+06	2.4703E-01	1.2000E+06	2.7619E-01	1.4000E+06	2.9801E-01	105915	15	83
1.6000E+06	3.1268E-01	1.8000E+06	3.0307E-01	2.0000E+06	2.6292E-01	105915	15	84
2.2000E+06	2.2015E-01	2.4000E+06	1.7755E-01	2.6000E+06	1.3879E-01	105915	15	85
2.8000E+06	1.1069E-01	3.0000E+06	1.0457E-01	3.5000E+06	9.7242E-02	105915	15	86
4.0000E+06	8.8862E-02	5.0000E+06	6.6865E-02	6.0000E+06	5.1153E-02	105915	15	87
7.0000E+06	4.0154E-02	8.0000E+06	3.1599E-02	9.0000E+06	2.3045E-02	105915	15	88
1.0000E+07	1.6934E-02	1.2000E+07	9.0783E-03	1.4000E+07	3.6662E-04	105915	15	89
1.6000E+07	8.7291E-04	1.8000E+07	1.7458E-20			105915	15	90
0.	0.	0	0	C		0105915	0	91
11023.0	22.786	2	1	11		0105915	51	92
4.778 E+6	0.0	0	0	10		5105915	51	93
3.678 E+6	0.05	2.984 E+6	0.1	2.08 E+6	0.2	105915	51	94
0.4392 E+6	0.6	0.0	0.05			105915	51	95
0.0	0.0	0	0	C		0105915	0	96

11023.0	22.786		2	1	12	0105915 52	1
6.27 E+6	0.0		0	0	2	1105915 52	2
2.391 E+6	1.0					105915 52	3
0.0	0.0		0	0	0	0105915 0	4
11023.0	22.786		2	1	13	0105915 53	5
7.11 E+6	0.0		0	0	8	4105915 53	6
2.984 E+6	0.03	2.640 E+6	0.12	0.4392 E+6	0.22	105915 53	7
0.0	0.63					105915 53	8
0.0	0.0		0	0	0	0105915 0	9
1.1023E+04	2.2786E+01		1	0	31	31105915102	1
0.	0.		0	0	1	2105915102	2
	2	2				105915102	3
1.0000E-04	3.0870E+00	1.0000E+06	3.0870E+00			105915102	4
0.	8.7000E+04		0	2	1	2105915102	5
	2	2				105915102	6
1.0000E-04	4.7800E-01	1.0000E+06	4.7800E-01			105915102	7
0.	4.7300E+05		0	2	1	2105915102	8
	2	2				105915102	9
1.0000E-04	8.0800E-01	1.0000E+06	8.0800E-01			105915102	10
0.	7.2000E+05		0	2	1	2105915102	11
	2	2				105915102	12
1.0000E-04	7.0000E-02	1.0000E+06	7.0000E-02			105915102	13
0.	8.5000E+05		0	2	1	2105915102	14
	2	2				105915102	15
1.0000E-04	7.0000E-02	1.0000E+06	7.0000E-02			105915102	16
0.	8.7400E+05		0	2	1	2105915102	17
	2	2				105915102	18
1.0000E-04	1.2000E-01	1.0000E+06	1.2000E-01			105915102	19
0.	1.3670E+06		0	2	1	2105915102	20
	2	2				105915102	21
1.0000E-04	8.0000E-02	1.0000E+06	8.0000E-02			105915102	22
0.	1.8290E+06		0	2	1	2105915102	23
	2	2				105915102	24
1.0000E-04	3.0000E-02	1.0000E+06	3.0000E-02			105915102	25
0.	1.9870E+06		0	2	1	2105915102	26
	2	2				105915102	27
1.0000E-04	2.0000E-02	1.0000E+06	2.0000E-02			105915102	28
0.	2.2090E+06		0	2	1	2105915102	29
	2	2				105915102	30
1.0000E-04	8.0000E-02	1.0000E+06	8.0000E-02			105915102	31
0.	2.3990E+06		0	2	1	2105915102	32
	2	2				105915102	33
1.0000E-04	1.1000E-01	1.0000E+06	1.1000E-01			105915102	34
0.	2.5190E+06		0	2	1	2105915102	35
	2	2				105915102	36
1.0000E-04	1.9000E-01	1.0000E+06	1.9000E-01			105915102	37
0.	2.7590E+06		0	2	1	2105915102	38
	2	2				105915102	39
1.0000E-04	8.0000E-02	1.0000E+06	8.0000E-02			105915102	40
0.	2.8500E+06		0	2	1	2105915102	41
	2	2				105915102	42
1.0000E-04	8.0000E-02	1.0000E+06	8.0000E-02			105915102	43
0.	3.0590E+06		0	2	1	2105915102	44
	2	2				105915102	45
1.0000E-04	1.0000E-02	1.0000E+06	1.0000E-02			105915102	46
0.	3.0930E+06		0	2	1	2105915102	47
	2	2				105915102	48
1.0000E-04	6.0000E-02	1.0000E+06	6.0000E-02			105915102	49
0.	3.3390E+06		0	2	1	2105915102	50
	2	2				105915102	51
1.0000E-04	5.0000E-02	1.0000E+06	5.0000E-02			105915102	52
0.	3.5490E+06		0	2	1	2105915102	53
	2	2				105915102	54
1.0000E-04	1.5000E-01	1.0000E+06	1.5000E-01			105915102	55
0.	3.6200E+06		0	2	1	2105915102	56
	2	2				105915102	57
1.0000E-04	5.0000E-02	1.0000E+06	5.0000E-02			105915102	58
0.	3.8800E+06		0	2	1	2105915102	59
	2	2				105915102	60
1.0000E-04	3.0000E-02	1.0000E+06	3.0000E-02			105915102	61
0.	3.9000E+06		0	2	1	2105915102	62

1.0000E-04	1.0000E-02	1.0000E+06	1.0000E-02		105915102	63
0.	3.9670E+06	0	2	1	105915102	64
1.0000E-04	1.0000E-01	1.0000E+06	1.0000E-01		2105915102	65
0.	4.0000E+06	0	2	1	105915102	66
1.0000E-04	1.1000E-01	1.0000E+06	1.1000E-01		105915102	67
0.	4.1800E+06	0	2	1	2105915102	68
1.0000E-04	4.8000E-02	1.0000E+06	4.8000E-02		105915102	69
0.	4.2000E+06	0	2	1	105915102	70
1.0000E-04	8.0000E-02	1.0000E+06	8.0000E-02		2105915102	71
0.	4.2770E+06	0	2	1	105915102	72
1.0000E-04	1.0000E-02	1.0000E+06	1.0000E-02		105915102	73
0.	4.4990E+06	0	2	1	2105915102	74
1.0000E-04	2.0000E-02	1.0000E+06	2.0000E-02		105915102	75
0.	4.7500E+06	0	2	1	105915102	76
1.0000E-04	2.2000E-02	1.0000E+06	2.2000E-02		2105915102	77
0.	5.1190E+06	0	2	1	105915102	78
1.0000E-04	1.0000E-02	1.0000E+06	1.0000E-02		105915102	79
0.	5.1300E+06	0	2	1	2105915102	80
1.0000E-04	3.0000E-02	1.0000E+06	3.0000E-02		105915102	81
0.	5.6120E+06	0	2	1	105915102	82
1.0000E-04	6.0000E-02	1.0000E+06	6.0000E-02		2105915102	83
0.	6.3990E+06	0	2	1	105915102	84
1.0000E-04	2.1000E-02	1.0000E+06	2.1000E-02		105915102	85
0.	0.	0	0	0	2105915102	86
0.0	0.0	0	0	0	105915102	87
					105915102	88
					2105915102	89
					105915102	90
					105915102	91
					2105915102	92
					105915102	93
					105915102	94
					2105915102	95
					105915102	96
					105915102	97
					0105915	0 98
					01059	0 0 5555
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APPENDIX B

CONSTRUCTION OF PHOTON PRODUCTION CROSS SECTIONS FROM THE ENDF/B FILE 15, OPTION 2

The discussion of Option 2 in File 15 (transition probability arrays for photon production) mentioned a process for constructing photon production cross sections from neutron interaction cross sections and transition probability arrays. In this appendix, we explain the process in more detail.

B.1. Specific Example

First we describe a method of constructing a production cross section in a sample case. Let us choose the 1.6408 MeV gamma ray from decay of the second level of ^{23}Na (2.080 MeV) to the first level (0.4392 MeV). Consider a neutron of incident energy 3.0 MeV. Figure 1 shows a partial energy level diagram of ^{23}Na , as taken from Drake et al.⁵ (The data for File 15, Option 2, were derived from Drake's diagram.) From Fig. 1, we can infer that a 3 MeV neutron can produce a 1.6408 MeV photon in two ways, by inelastic scatter to level number 2 or to level number 5. The possible modes are indicated by the double arrows on the diagram. No competing pro-

Note that the photon production cross section is given for transition between specific levels, which implicitly determines the photon energy, rather than for a given photon energy. This scheme avoids ambiguity when two different transitions produce photons of the same energy. Then we can write

$$\sigma_{2,1}(3.0 \text{ MeV}) = [\sigma_2(3.0)][TP_{2,1}] + [\sigma_5(3.0) \cdot [TP_{5,2} \cdot TP_{2,1}]]$$

Values for $\sigma_2(3.0)$ and $\sigma_5(3.0)$ can be found in File 3, while values for $TP_{2,1}$, $TP_{5,2}$, and $TP_{2,1}$ are in File 15. An algorithm suitable for programming can be constructed by considering the more general case.

B.2 General Case

For the general case, all possible transitions must be considered, as well as the possibility of transitions not involving gamma-ray emission. A simple accounting for all possibilities leads to the following expression:

$$\sigma_{j,i}(E) = A_{j,i} \sum_{m_0=j}^N \sigma_{m_0}(E) \sum_{m_1=j}^{m_0-1} A_{m_0,m_1} \sum_{m_2=j}^{m_1-1} A_{m_1,m_2} \sum_{m_3=j}^{m_2-1} A_{m_2,m_3} \dots \sum_{m_{n+1}=j}^{m_n-1} A_{m_n,m_{n+1}}$$

$$= A_{j,i} \sum_{n=j}^N \sigma_{m_0} \prod_{\ell=1}^{n+1} \sum_{m_{\ell-1}=j}^{m_{\ell-1}-1} A_{m_{\ell-1},m_{\ell}}$$

cesses to gamma-ray emission are shown for ^{23}Na , so the general case cannot be illustrated unless we assume, say, internal conversion. In Section B.2, we shall formally carry photon transition probabilities (GP_i) for the sake of demonstrating a more general case.

Let us define:

1. $\sigma_{j,i}(E)$ = cross section to produce the photon which arises from decay of level j to i , with a neutron of incident energy E .
2. $\sigma_k(E)$ = neutron cross section for inelastic scatter to level k , for neutron energy E .
3. $TP_{j,i}$ = probability of a direct transition from level j to level i , $i < j$.
4. $GP_{j,i}$ = conditional probability of photon emission in a direct transition from level j to level i , $i < j$.
5. $A_{j,i} = (TP_{j,i})(GP_{j,i})$.

where N = highest level such that $ES_N \leq E$, and $m_n \leq j + 1$ determines the index n .

Fig. 1. Partial energy level diagram for ^{23}Na .

An algorithm suitable for FORTRAN, for example, might then search File 15 for $ES_{NS} \leq E$ to determine N . Levels i and j would be specified by ES_i and ES_j , respectively. A simple search on ES_{NS} to find the MT number for which $ES_{NS} = ES_j$ would provide $TP_{j,i}$ and $GP_{j,i}$ (and thus $A_{j,i}$) from a further search of the LIST record for ES_i . By then going through the file in order of increasing MT numbers, up to $MT = 4 + N$, products of the $A_{m,n}$ can be accumulated for all cascades leading to the j th level.

ACKNOWLEDGMENTS

As is true of most reports written by a subcommittee, this one has been reviewed and constructively commented upon by many people. Some of the comments cannot be easily identified with any one individual, so the compiler offers his general apologies to anyone so slighted.

The embryonic form of a photon production format was presented by M. E. Battat and R. J. LaBauve to the first meeting of the Shielding Subcommittee of the CSEWG on February 6, 1967. (Their review and comments patiently followed the document through its metamorphosis to the present form.) D. C. Irving was responsible for an extensive review of the preliminary draft of this report (as presently constituted), and several revisions were made as a result of his cogent suggestions.

The section of this report on "Form Factor Data for Incoherent and Coherent Scattering" (Section 2.5) is due to J. M. Ferguson. Section 3.2.2 on "Transition Probability Arrays for Photon Production" is the result of the joint efforts of R. B. Lazarus and Donald J. Dudziak, with comments from D. C. Irving and H. Honeck incorporated. The remainder of the report is the responsibility of the compiler.

The kind permission from M. K. Drake to use a personal communication of the preliminary set of the sodium data is very much appreciated.

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