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**ENDF/B Format Requirements**  
**for Shielding Applications**



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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  $E_i$ , EG, and ES should be multiplied by  $10^6$  to convert from MeV to eV.



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**LOS ALAMOS SCIENTIFIC LABORATORY**  
**of the**  
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LOS ALAMOS • NEW MEXICO

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for Shielding Applications**

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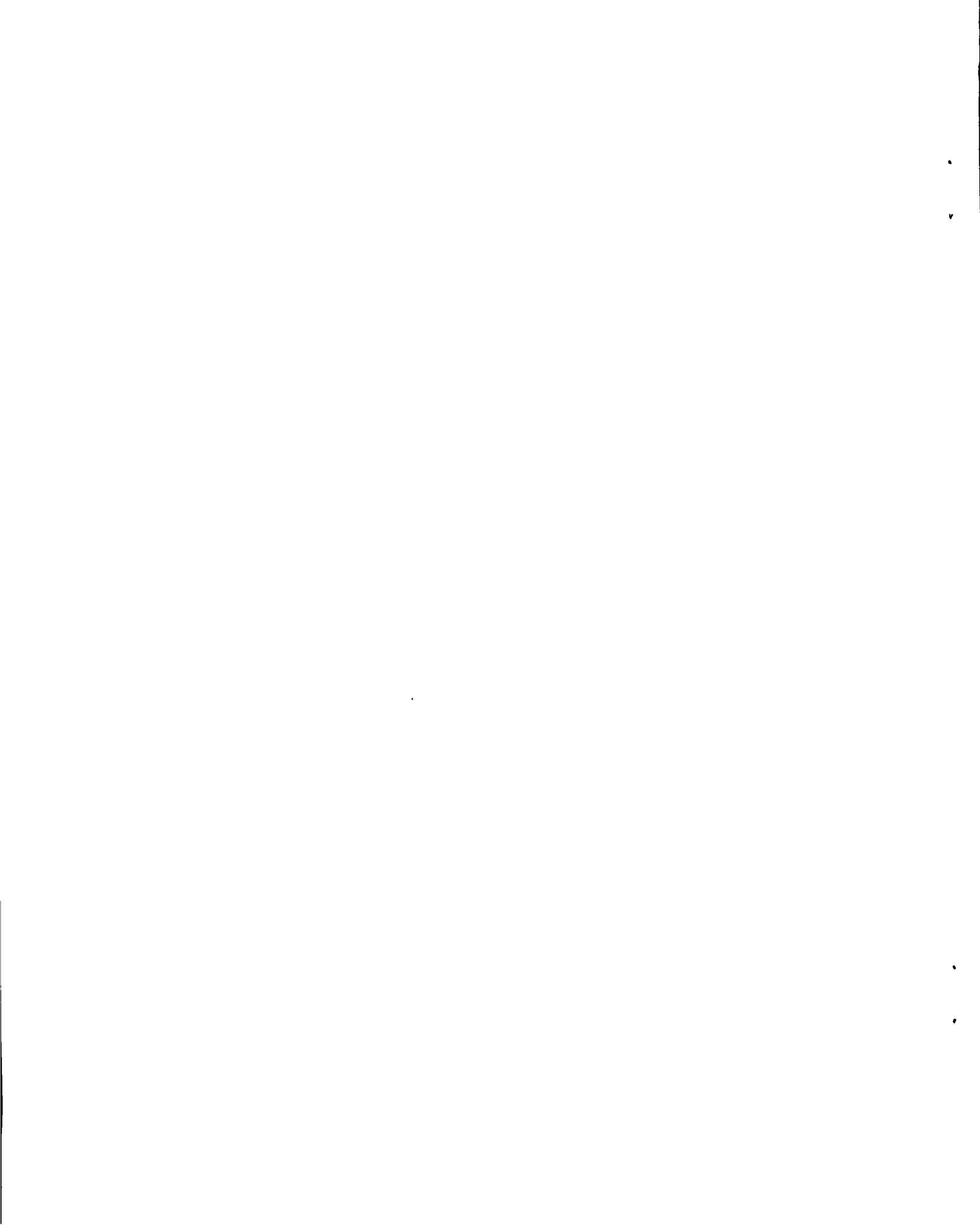
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## ENDF/B FORMAT REQUIREMENTS FOR SHIELDING APPLICATIONS

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 ( $\geq 1$  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  $(\gamma, x)$  reactions, such as  $(\gamma, f)$  and  $(\gamma, n)$ . Also, the format is thus kept as consistent as possible with the United Kingdom Atomic Energy Authority data file (UK).<sup>1</sup> 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 Grodstein<sup>2</sup> and the UK Photon Data Library,<sup>3</sup> viz., 0.01 to 20 MeV. For those materials given by Hubbell and Berger,<sup>4</sup> 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	$(\gamma, e^-)$	photoelectric effect
531		energy "absorption" (or kerma)
518	$(\gamma, f)$	photofission
532	$(\gamma, n)$	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</u>	
		<u>Neutron Reaction Symbol</u>	<u>Photon Interaction Description</u>
1			total
2			elastic
3			nonelastic
16	$(\gamma, 2\gamma)$	$(n, 2n)$	pair production
102	$(\gamma, e^-)$	$(n, \gamma)$	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  $(\gamma, n)$  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

```
[MAT, 23,MT/ZA, AWR; 0, LFS; 0, 0]HEAD  
[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  $m_e c$ ),

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

where

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

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

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

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 ( $\geq 1$  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	" 2nd "
6	" 3rd "
7	" 4th "
8	" 5th "
9	" 6th "
10	" 7th "
11	" 8th "
12	" 9th "
13	" 10th "
14	(n,n') to the continuum
15	

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.<sup>5</sup> 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

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

$E$  is the neutron energy and  $\sigma(E_\gamma + E)$  is the cross section to produce a photon of energy  $E_\gamma$ . It is understood that  $a_0(E) = 1$ . The function  $\sigma(E_\gamma + E)$  is generated from Files 2, 3, and 15; it may be a delta function in  $E_\gamma$ . 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  $\mu$ .

NL = highest value of  $\ell$  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<sub>1</sub>; 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<sub>1</sub>; 0, 0; NR, NE/E int]TAB2

[MAT, 14, MT/0.0, E<sub>1</sub>; 0, 0; NL, 0/a<sub>0</sub>(E<sub>1</sub>)]LIST

[MAT, 14, MT/0.0, E<sub>2</sub>; 0, 0; NL, 0/a<sub>1</sub>(E<sub>2</sub>)]LIST

⋮

[MAT, 14, MT/0.0, E<sub>NE</sub>; 0, 0; NL, 0/a<sub>NL</sub>(E<sub>NE</sub>)]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<sub>1</sub>; 0, 0; NL, 0/a<sub>0</sub>(E<sub>1</sub>)]LIST

⋮

[MAT, 14, MT/0.0, E<sub>NE</sub>; 0, 0; NL, 0/a<sub>NL</sub>(E<sub>NE</sub>)]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 decreasing magnitude of  $E_{G_i}$ . 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  $E_{G_i} \equiv 0.0$ . 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  $E_{G_i}$  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<sub>1</sub>; 0, 0; NR, NE/E int]TAB2

[MAT, 14, MT/0.0, E<sub>1</sub>; 0, 0; NR, NP/ $\mu$  int/p( $\mu$ , E<sub>1</sub>)]TAB1

[MAT, 14, MT/0.0, E<sub>2</sub>; 0, 0; NR, NP/ $\mu$  int/p( $\mu$ , E<sub>2</sub>)]TAB1

.

.

.

[MAT, 14, MT/0.0, E<sub>NE</sub>; 0, 0; NR, NP/ $\mu$  int/p( $\mu$ , E<sub>NE</sub>)]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<sub>1</sub>; 0, 0; NR, NP/ $\mu$  int/p( $\mu$ , E<sub>1</sub>)]TAB1

.

.

.

[MAT, 14, MT/0.0, E<sub>NE</sub>; 0, 0; NR, NP/ $\mu$  int/p( $\mu$ , E<sub>NE</sub>)]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 $\emptyset$  = 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 $\emptyset$  = 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' + E) of File 5 are replaced by photon yield functions y(E <sub>$\gamma$</sub>  + E) such that

$$\int_0^{\infty} dE_{\gamma} y(E_{\gamma} + E) = Y(E) \quad (\text{photons/event}),$$

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

$$\frac{d\sigma(E_{\gamma} + E)}{dE_{\gamma}} = \sigma(E) y(E_{\gamma} + E) \quad (\text{ barns-photons-eV}^{-1}),$$

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,  $f_k(E_{\gamma} + E)$ , each following a different law or the same law with different parametric representations. A superposition gives

$$y(E_{\gamma} + E) = \sum_{k=1}^{NK} y_k(E) f_k(E_{\gamma} + E).$$

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  $f_k(E_{\gamma} + E)$  are necessarily normalized to unity, and the  $y_k(E)$  contain the multiplicities. For example, where  $f_k(E_{\gamma} + E)$  follows Law 2 (i.e., a delta function in E <sub>$\gamma$</sub> ) 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  $f_1(E_\gamma \rightarrow E) \equiv g(E_\gamma \rightarrow E)$  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  $g(E_\gamma \rightarrow E)$

$ND$  = 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; LØ = 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, EG1; 0, LF; NR, NP/E int/yk(E)]TAB1
```

Except in the case of Law 1 ( $LF = 1$ ), where  $EG_1 = 0.0$  is used,  $EG_1$  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/yk(E)]TAB1
[MAT, 15, MT/0.0, 0.0; 0, 0; NR, NE/E int]TAB2
[MAT, 15, MT/0.0, E1; 0, 0; NR, NP/Eγ int/g(Eγ → E1)]TAB1
[MAT, 15, MT/0.0, E2; 0, 0; NR, NP/Eγ int/g(Eγ → E2)]TAB1
```

```
[MAT, 15, MT/0.0, ENE; 0, 0; NR, NP/Eγ int/g(Eγ → ENE)]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;  $g(E_\gamma \rightarrow E)$  would give the normalized photon yield probabilities of the reaction. For example, if  $\sigma_{CO}$  is the cross section for inelastic scatter to the continuum and  $\sigma_4$  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, EG1; 0, 2; NR, NP/E int/yk(E)]TAB1
```

In this case,  $y_k(E)$  should be the photon yield (photons/event) of  $EG_1$  electron-volt photons, for a reaction occurring at  $E$  electron volts.

3.2.2. Transition Probability Arrays for Photon Production (Option 2, LØ = 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  $\gamma$  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,  $i = 0(1)NS$ . ( $ES_0 \equiv 0.0$ , 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  $E_\gamma = ES_{NS} - ES_i$ , and its multiplicity is given by  $y(E_\gamma + E) = (TP_i)(GP_i)$ . 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; L $\emptyset$  = 2, LG; NS, 0]HEAD

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

[MAT, 15, MT/ES<sub>NS</sub>, 0.0; 0, 0; 2\*NT, NT/(ES<sub>i</sub>, TP<sub>i</sub>)]LIST

or, if  $LG = 2$ , by

[MAT, 15, MT/ES<sub>NS</sub>, 0.0; 0, 0; 3\*NT, NT/(ES<sub>i</sub>, TP<sub>i</sub>, GP<sub>i</sub>)]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  $(ES_i, TP_i, CT_i)$  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  $h(E_\gamma + E, \mu)$ , where the angular dependence is normalized such that

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

The differential photon production cross section is then obtained from

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

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

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

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

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  $n_0(E_\gamma + E)$ >

<subsection for  $n_1(E_\gamma + E)$ >

.

<subsection for  $n_{NL}(E_\gamma + E)$ >

[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.  $y(E_\gamma \rightarrow E)$  is replaced by  $n_i(E_\gamma \rightarrow E)$ . The same normalization rules as apply to  $y(E_\gamma \rightarrow E)$  in File 15 apply to the  $n_i(E_\gamma \rightarrow E)$  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  $h(E_\gamma \rightarrow E, \mu_1)$ >

<subsection for  $h(E_\gamma \rightarrow E, \mu_2)$ >

.

.

<subsection for  $h(E_\gamma \rightarrow E, \mu_NA)$ >

[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,  $\mu_j$ ; 0, 0; NK, 0]CONT

- c.  $y(E_\gamma \rightarrow E)$  is replaced by  $h(E_\gamma \rightarrow E, \mu_j)$ , where each subsection is for a particular value of  $\mu_j$ ,  
 $j = 1(1)NA$ .

## 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.,<sup>5</sup> 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-01105914	5	6		
-7.0000E-01	4.9214E-01-6.0000E-01	4.9880E-01-5.0000E-01	5.0404E-01105914	5	7		
-4.0000E-01	5.0839E-01-3.0000E-01	5.1163E-01-2.0000E-01	5.1394E-01105914	5	8		
-1.0000E-01	5.1536E-01 0.	5.1599E-01 1.0000E-01	5.1550E-01105914	5	9		
2.0000E-01	5.1394E-01 3.0000E-01	5.1163E-01 4.0000E-01	5.0839E-01105914	5	10		
5.0000E-01	5.0404E-01 6.0000E-01	4.9880E-01 7.0000E-01	4.9214E-01105914	5	11		
8.0000E-01	4.8523E-01 9.0000E-01	4.7747E-01 1.0000E+00	4.6846E-01105914	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-01105914	5	15		
-7.0000E-01	5.0154E-01-6.0000E-01	5.0058E-01-5.0000E-01	5.0042E-01105914	5	16		
-4.0000E-01	4.9997E-01-3.0000E-01	4.9995E-01-2.0000E-01	4.9998E-01105914	5	17		
-1.0000E-01	4.9957E-01 0.	4.9963E-01 1.0000E-01	4.8986E-01105914	5	18		
2.0000E-01	4.9998E-01 3.0000E-01	4.9995E-01 4.0000E-01	4.9997E-01105914	5	19		
5.0000E-01	5.0042E-01 6.0000E-01	5.0058E-01 7.0000E-01	5.0154E-01105914	5	20		
8.0000E-01	5.0130E-01 9.0000E-01	5.0190E-01 1.0000E+00	5.0264E-01105914	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-01105914	5	24		
-7.0000E-01	4.9323E-01-6.0000E-01	4.9896E-01-5.0000E-01	5.0347E-01105914	5	25		
-4.0000E-01	5.0718E-01-3.0000E-01	5.1001E-01-2.0000E-01	5.1210E-01105914	5	26		
-1.0000E-01	5.1348E-01 0.	5.1404E-01 1.0000E-01	5.1493E-01105914	5	27		
2.0000E-01	5.1210E-01 3.0000E-01	5.1001E-01 4.0000E-01	5.0718E-01105914	5	28		
5.0000E-01	5.0347E-01 6.0000E-01	4.9896E-01 7.0000E-01	4.9323E-01105914	5	29		
8.0000E-01	4.8695E-01 9.0000E-01	4.8001E-01 1.0000E+00	4.7186E-01105914	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-01105914	5	33		
-7.0000E-01	4.9325E-01-6.0000E-01	4.9895E-01-5.0000E-01	5.0346E-01105914	5	34		
-4.0000E-01	5.0740E-01-3.0000E-01	5.1034E-01-2.0000E-01	5.1242E-01105914	5	35		
-1.0000E-01	5.1379E-01 0.	5.1430E-01 1.0000E-01	5.1379E-01105914	5	36		
2.0000E-01	5.1242E-01 3.0000E-01	5.1034E-01 4.0000E-01	5.0740E-01105914	5	37		
5.0000E-01	5.0346E-01 6.0000E-01	4.9895E-01 7.0000E-01	4.9325E-01105914	5	38		
8.0000E-01	4.8688E-01 9.0000E-01	4.7982E-01 1.0000E+00	4.7174E-01105914	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-01105914	5	42		
-7.0000E-01	4.9283E-01-6.0000E-01	4.9886E-01-5.0000E-01	5.0361E-01105914	5	43		
-4.0000E-01	5.0788E-01-3.0000E-01	5.1104E-01-2.0000E-01	5.1323E-01105914	5	44		
-1.0000E-01	5.1471E-01 0.	5.1523E-01 1.0000E-01	5.1471E-01105914	5	45		
2.0000E-01	5.1323E-01 3.0000E-01	5.1104E-01 4.0000E-01	5.0788E-01105914	5	46		
5.0000E-01	5.0361E-01 6.0000E-01	4.9886E-01 7.0000E-01	4.9283E-01105914	5	47		
8.0000E-01	4.8605E-01 9.0000E-01	4.7851E-01 1.0000E+00	4.6994E-01105914	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-01105914	5	51		
-7.0000E-01	4.9250E-01-6.0000E-01	4.9879E-01-5.0000E-01	5.0373E-01105914	5	52		
-4.0000E-01	5.0826E-01-3.0000E-01	5.1160E-01-2.0000E-01	5.1389E-01105914	5	53		
-1.0000E-01	5.1544E-01 0.	5.1596E-01 1.0000E-01	5.1544E-01105914	5	54		
2.0000E-01	5.1389E-01 3.0000E-01	5.1160E-01 4.0000E-01	5.0826E-01105914	5	55		
5.0000E-01	5.0373E-01 6.0000E-01	4.9879E-01 7.0000E-01	4.9250E-01105914	5	56		
8.0000E-01	4.8539E-01 9.0000E-01	4.7746E-01 1.0000E+00	4.6848E-01105914	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-01105914	5	60		
-7.0000E-01	4.9225E-01-6.0000E-01	4.9876E-01-5.0000E-01	5.0383E-01105914	5	61		
-4.0000E-01	5.0853E-01-3.0000E-01	5.1200E-01-2.0000E-01	5.1439E-01105914	5	62		
-1.0000E-01	5.1599E-01 0.	5.1651E-01 1.0000E-01	5.1599E-01105914	5	63		
2.0000E-01	5.1439E-01 3.0000E-01	5.1200E-01 4.0000E-01	5.0853E-01105914	5	64		
5.0000E-01	5.0383E-01 6.0000E-01	4.9876E-01 7.0000E-01	4.9225E-01105914	5	65		
8.0000E-01	4.8489E-01 9.0000E-01	4.7668E-01 1.0000E+00	4.6736E-01105914	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	4.8456E-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	4.8452E-01	105914	5	105
-7.0000E-01	4.9211E-01	-6.0000E-01	4.9888E-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	5.041CE-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	5.16C7E-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
-1.0000E+00	4.6870E-01	-9.0000E-01	4.7727E-01	-8.0000E-01	4.8542E-01	105914	5	141
-7.0000E-01	4.9265E-01	-6.0000E-01	4.9890E-01	-5.0000E-01	5.0409E-01	105914	5	142
-4.0000E-01	5.0840E-01	-3.0000E-01	5.1143E-01	-2.0000E-01	5.1374E-01	105914	5	143
-1.0000E-01	5.1519E-01	0.	5.1587E-01	1.0000E-01	5.1519E-01	105914	5	144
2.0000E-01	5.1374E-01	3.0000E-01	5.1143E-01	4.0000E-01	5.0840E-01	105914	5	145
5.0000E-01	5.0409E-01	6.0000E-01	4.9890E-01	7.0000E-01	4.9265E-01	105914	5	146
8.0000E-01	4.8542E-01	9.0000E-01	4.7727E-01	1.0000E+00	4.6870E-01	105914	5	147
0.	8.0000E+00		0	0	1	21105914	5	148
21	2					105914	5	149
-1.0000E+00	4.6960E-01	-9.0000E-01	4.7791E-01	-8.0000E-01	4.8579E-01	105914	5	150
-7.0000E-01	4.9279E-01	-6.0000E-01	4.9889E-01	-5.0000E-01	5.0405E-01	105914	5	151
-4.0000E-01	5.0819E-01	-3.0000E-01	5.1113E-01	-2.0000E-01	5.1335E-01	105914	5	152
-1.0000E-01	5.1476E-01	0.	5.1542E-01	1.0000E-01	5.1476E-01	105914	5	153
2.0000E-01	5.1335E-01	3.0000E-01	5.1113E-01	4.0000E-01	5.0819E-01	105914	5	154
5.0000E-01	5.0405E-01	6.0000E-01	4.9889E-01	7.0000E-01	4.9279E-01	105914	5	155
8.0000E-01	4.8579E-01	9.0000E-01	4.7791E-01	1.0000E+00	4.6960E-01	105914	5	156
0.	8.5000E+00		0	0	1	21105914	5	157
21	2					105914	5	158
-1.0000E+00	4.7064E-01	-9.0000E-01	4.7870E-01	-8.0000E-01	4.8622E-01	105914	5	159
-7.0000E-01	4.9294E-01	-6.0000E-01	4.9888E-01	-5.0000E-01	5.0399E-01	105914	5	160
-4.0000E-01	5.0793E-01	-3.0000E-01	5.1078E-01	-2.0000E-01	5.1290E-01	105914	5	161
-1.0000E-01	5.1425E-01	0.	5.1490E-01	1.0000E-01	5.1425E-01	105914	5	162
2.0000E-01	5.1290E-01	3.0000E-01	5.1078E-01	4.0000E-01	5.0793E-01	105914	5	163
5.0000E-01	5.0399E-01	6.0000E-01	4.9888E-01	7.0000E-01	4.9294E-01	105914	5	164
8.0000E-01	4.8622E-01	9.0000E-01	4.7870E-01	1.0000E+00	4.7064E-01	105914	5	165
0.	9.0000E+00		0	0	1	21105914	5	166
21	2					105914	5	167
-1.0000E+00	4.7181E-01	-9.0000E-01	4.7963E-01	-8.0000E-01	4.8673E-01	105914	5	168
-7.0000E-01	4.9310E-01	-6.0000E-01	4.9886E-01	-5.0000E-01	5.0390E-01	105914	5	169
-4.0000E-01	5.0761E-01	-3.0000E-01	5.1038E-01	-2.0000E-01	5.1239E-01	105914	5	170
-1.0000E-01	5.1367E-01	0.	5.1429E-01	1.0000E-01	5.1367E-01	105914	5	171
2.0000E-01	5.1239E-01	3.0000E-01	5.1038E-01	4.0000E-01	5.0761E-01	105914	5	172
5.0000E-01	5.0390E-01	6.0000E-01	4.9886E-01	7.0000E-01	4.9310E-01	105914	5	173
8.0000E-01	4.8673E-01	9.0000E-01	4.7963E-01	1.0000E+00	4.7181E-01	105914	5	174
0.	0.		0	0	C	0105914	0	175
1.1023E+04	2.2786E+01		0	2	2	0105914	6	1
2.0800E+00	2.0800E+00		0	0	1	15105914	6	2
15	2					105914	6	3
0.	2.1700E+00		0	0	1	21105914	6	4
21	2					105914	6	5
-1.0000E+00	3.7550E-01	-9.0000E-01	4.1100E-01	-8.0000E-01	4.4241E-01	105914	6	6
-7.0000E-01	4.7099E-01	-6.0000E-01	4.9462E-01	-5.0000E-01	5.1531E-01	105914	6	7
-4.0000E-01	5.3106E-01	-3.0000E-01	5.4506E-01	-2.0000E-01	5.5462E-01	105914	6	8
-1.0000E-01	5.6165E-01	0.	5.6305E-01	1.0000E-01	5.6165E-01	105914	6	9
2.0000E-01	5.5462E-01	3.0000E-01	5.4506E-01	4.0000E-01	5.31C6E-01	105914	6	10
5.0000E-01	5.1531E-01	-6.0000E-01	4.9462E-01	7.0000E-01	4.7099E-01	105914	6	11
8.0000E-01	4.4241E-01	9.0000E-01	4.1100E-01	1.0000E+00	3.7550E-01	105914	6	12
0.	2.5000E+00		0	0	1	21105914	6	13
21	2					105914	6	14
-1.0000E+00	3.9565E-01	-9.0000E-01	4.2586E-01	-8.0000E-01	4.5255E-01	105914	6	15
-7.0000E-01	4.7558E-01	-6.0000E-01	4.9589E-01	-5.0000E-01	5.1249E-01	105914	6	16
-4.0000E-01	5.2652E-01	-3.0000E-01	5.3768E-01	-2.0000E-01	5.4562E-01	105914	6	17
-1.0000E-01	5.5107E-01	0.	5.5245E-01	1.0000E-01	5.5107E-01	105914	6	18
2.0000E-01	5.4562E-01	3.0000E-01	5.3768E-01	4.0000E-01	5.2652E-01	105914	6	19
5.0000E-01	5.1249E-01	6.0000E-01	4.9589E-01	7.0000E-01	4.7558E-01	105914	6	20
8.0000E-01	4.5255E-01	9.0000E-01	4.2586E-01	1.0000E+00	3.9565E-01	105914	6	21
0.	3.0000E+00		0	0	1	21105914	6	22
21	2					105914	6	23
-1.0000E+00	4.1335E-01	-9.0000E-01	4.3887E-01	-8.0000E-01	4.6142E-01	105914	6	24
-7.0000E-01	4.7961E-01	-6.0000E-01	4.9699E-01	-5.0000E-01	5.1003E-01	105914	6	25
-4.0000E-01	5.2252E-01	-3.0000E-01	5.3121E-01	-2.0000E-01	5.3773E-01	105914	6	26
-1.0000E-01	5.4181E-01	0.	5.4316E-01	1.0000E-01	5.4181E-01	105914	6	27
2.0000E-01	5.3773E-01	3.0000E-01	5.3121E-01	4.0000E-01	5.2252E-01	105914	6	28
5.0000E-01	5.1003E-01	6.0000E-01	4.9699E-01	7.0000E-01	4.7961E-01	105914	6	29
8.0000E-01	4.6142E-01	9.0000E-01	4.3887E-01	1.0000E+00	4.1335E-01	105914	6	30
0.	3.5000E+00		0	0	1	21105914	6	31

21	2					105914	6	32
-1.0000E+00	4.2797E-01-9.0000E-01	4.4959E-01-8.0000E-01	4.6869E-01105914	6	33			
-7.0000E-01	4.8295E-01-6.0000E-01	4.9790E-01-5.0000E-01	5.0803E-01105914	6	34			
-4.0000E-01	5.1920E-01-3.0000E-01	5.2588E-01-2.0000E-01	5.3122E-01105914	6	35			
-1.0000E-01	5.3417E-01 0.	5.3550E-01 1.0000E-01	5.3417E-01105914	6	36			
2.0000E-01	5.3122E-01 3.0000E-01	5.2588E-01 4.0000E-01	5.1920E-01105914	6	37			
5.0000E-01	5.0803E-01 6.0000E-01	4.9790E-01 7.0000E-01	4.8295E-01105914	6	38			
8.0000E-01	4.6869E-01 9.0000E-01	4.4959E-01 1.0000E+00	4.2797E-01105914	6	39			
0.	4.0000E+00	0	0	1	21105914	6	40	
21	2					105914	6	41
-1.0000E+00	4.3951E-01-9.0000E-01	4.5802E-01-8.0000E-01	4.7435E-01105914	6	42			
-7.0000E-01	4.8559E-01-6.0000E-01	4.9861E-01-5.0000E-01	5.0647E-01105914	6	43			
-4.0000E-01	5.1657E-01-3.0000E-01	5.2168E-01-2.0000E-01	5.2611E-01105914	6	44			
-1.0000E-01	5.2817E-01 0.	5.2948E-01 1.0000E-01	5.2817E-01105914	6	45			
2.0000E-01	5.2611E-01 3.0000E-01	5.2168E-01 4.0000E-01	5.1657E-01105914	6	46			
5.0000E-01	5.0647E-01 6.0000E-01	4.9861E-01 7.0000E-01	4.8559E-01105914	6	47			
8.0000E-01	4.7435E-01 9.0000E-01	4.5802E-01 1.0000E+00	4.3951E-01105914	6	48			
0.	4.5000E+00	0	0	1	21105914	6	49	
21	2					105914	6	50
-1.0000E+00	4.4798E-01-9.0000E-01	4.6414E-01-8.0000E-01	4.7843E-01105914	6	51			
-7.0000E-01	4.8754E-01-6.0000E-01	4.9911E-01-5.0000E-01	5.0538E-01105914	6	52			
-4.0000E-01	5.1461E-01-3.0000E-01	5.1861E-01-2.0000E-01	5.2237E-01105914	6	53			
-1.0000E-01	5.2380E-01 0.	5.2508E-01 1.0000E-01	5.2380E-01105914	6	54			
2.0000E-01	5.2237E-01 3.0000E-01	5.1861E-01 4.0000E-01	5.1461E-01105914	6	55			
5.0000E-01	5.0538E-01 6.0000E-01	4.9911E-01 7.0000E-01	4.8754E-01105914	6	56			
8.0000E-01	4.7843E-01 9.0000E-01	4.6414E-01 1.0000E+00	4.4798E-01105914	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-01105914	6	60			
-7.0000E-01	4.8879E-01-6.0000E-01	4.9942E-01-5.0000E-01	5.0473E-01105914	6	61			
-4.0000E-01	5.1334E-01-3.0000E-01	5.1668E-01-2.0000E-01	5.2002E-01105914	6	62			
-1.0000E-01	5.2108E-01 0.	5.2232E-01 1.0000E-01	5.2108E-01105914	6	63			
2.0000E-01	5.2002E-01 3.0000E-01	5.1668E-01 4.0000E-01	5.1334E-01105914	6	64			
5.0000E-01	5.0473E-01 6.0000E-01	4.9942E-01 7.0000E-01	4.8879E-01105914	6	65			
8.0000E-01	4.8091E-01 9.0000E-01	4.6796E-01 1.0000E+00	4.5337E-01105914	6	66			
0.	5.5000E+00	0	0	1	21105914	6	67	
21	2					105914	6	68
-1.0000E+00	4.2254E-01-9.0000E-01	4.4399E-01-8.0000E-01	4.6348E-01105914	6	69			
-7.0000E-01	4.8217E-01-6.0000E-01	4.9742E-01-5.0000E-01	5.0972E-01105914	6	70			
-4.0000E-01	5.2029E-01-3.0000E-01	5.2849E-01-2.0000E-01	5.3417E-01105914	6	71			
-1.0000E-01	5.3763E-01 0.	5.3878E-01 1.0000E-01	5.3763E-01105914	6	72			
2.0000E-01	5.3417E-01 3.0000E-01	5.2849E-01 4.0000E-01	5.2029E-01105914	6	73			
5.0000E-01	5.0972E-01 6.0000E-01	4.9742E-01 7.0000E-01	4.8217E-01105914	6	74			
8.0000E-01	4.6348E-01 9.0000E-01	4.4399E-01 1.0000E+00	4.2254E-01105914	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-01105914	6	78			
-7.0000E-01	4.8259E-01-6.0000E-01	4.9749E-01-5.0000E-01	5.0957E-01105914	6	79			
-4.0000E-01	5.1979E-01-3.0000E-01	5.2785E-01-2.0000E-01	5.3342E-01105914	6	80			
-1.0000E-01	5.3680E-01 0.	5.3792E-01 1.0000E-01	5.3680E-01105914	6	81			
2.0000E-01	5.3342E-01 3.0000E-01	5.2785E-01 4.0000E-01	5.1979E-01105914	6	82			
5.0000E-01	5.0957E-01 6.0000E-01	4.9749E-01 7.0000E-01	4.8259E-01105914	6	83			
8.0000E-01	4.6418E-01 9.0000E-01	4.4518E-01 1.0000E+00	4.2434E-01105914	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-01105914	6	87			
-7.0000E-01	4.8298E-01-6.0000E-01	4.9755E-01-5.0000E-01	5.0940E-01105914	6	88			
-4.0000E-01	5.1928E-01-3.0000E-01	5.2718E-01-2.0000E-01	5.3266E-01105914	6	89			
-1.0000E-01	5.3598E-01 0.	5.3707E-01 1.0000E-01	5.3598E-01105914	6	90			
2.0000E-01	5.3266E-01 3.0000E-01	5.2718E-01 4.0000E-01	5.1928E-01105914	6	91			
5.0000E-01	5.0940E-01 6.0000E-01	4.9755E-01 7.0000E-01	4.8298E-01105914	6	92			
8.0000E-01	4.6497E-01 9.0000E-01	4.4643E-01 1.0000E+00	4.2613E-01105914	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-01105914	6	96			
-7.0000E-01	4.8333E-01-6.0000E-01	4.9761E-01-5.0000E-01	5.0921E-01105914	6	97			
-4.0000E-01	5.1875E-01-3.0000E-01	5.2648E-01-2.0000E-01	5.3190E-01105914	6	98			
-1.0000E-01	5.3515E-01 0.	5.3624E-01 1.0000E-01	5.3515E-01105914	6	99			
2.0000E-01	5.3190E-01 3.0000E-01	5.2648E-01 4.0000E-01	5.1875E-01105914	6	100			
5.0000E-01	5.0921E-01 6.0000E-01	4.9761E-01 7.0000E-01	4.8333E-01105914	6	101			
8.0000E-01	4.6585E-01 9.0000E-01	4.4774E-01 1.0000E+00	4.2790E-01105914	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	
-1.0000E+00	4.3142E-01	-9.0000E-01	4.5053E-01	-8.0000E-01	4.6790E-01	105914	6	114
-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	
15	2				105914	6	140	
0.	2.1700E+00	0	0	1	21105914	6	141	
21	2				105914	6	142	
-1.0000E+00	3.7550E-01	-9.0000E-01	4.1100E-01	-8.0000E-01	4.4241E-01	105914	6	143
-7.0000E-01	4.7099E-01	-6.0000E-01	4.9462E-01	-5.0000E-01	5.1531E-01	105914	6	144
-4.0000E-01	5.3106E-01	-3.0000E-01	5.4506E-01	-2.0000E-01	5.5462E-01	105914	6	145
-1.0000E-01	5.6165E-01	0.	5.6305E-01	1.0000E-01	5.6165E-01	105914	6	146
2.0000E-01	5.5462E-01	3.0000E-01	5.4506E-01	4.0000E-01	5.3106E-01	105914	6	147
5.0000E-01	5.1531E-01	6.0000E-01	4.9462E-01	7.0000E-01	4.7099E-01	105914	6	148
8.0000E-01	4.4241E-01	9.0000E-01	4.1100E-01	1.0000E+00	3.7550E-01	105914	6	149
0.	2.5000E+00	0	0	1	21105914	6	150	
21	2				105914	6	151	
-1.0000E+00	3.9565E-01	-9.0000E-01	4.2586E-01	-8.0000E-01	4.5255E-01	105914	6	152
-7.0000E-01	4.7558E-01	-6.0000E-01	4.9589E-01	-5.0000E-01	5.1249E-01	105914	6	153
-4.0000E-01	5.2652E-01	-3.0000E-01	5.3768E-01	-2.0000E-01	5.4562E-01	105914	6	154
-1.0000E-01	5.5107E-01	0.	5.5245E-01	1.0000E-01	5.5107E-01	105914	6	155
2.0000E-01	5.4562E-01	3.0000E-01	5.3768E-01	4.0000E-01	5.2652E-01	105914	6	156
5.0000E-01	5.1249E-01	6.0000E-01	4.9589E-01	7.0000E-01	4.7558E-01	105914	6	157
8.0000E-01	4.5255E-01	9.0000E-01	4.2586E-01	1.0000E+00	3.9565E-01	105914	6	158
0.	3.0000E+00	0	0	1	21105914	6	159	
21	2				105914	6	160	
-1.0000E+00	4.1335E-01	-9.0000E-01	4.3887E-01	-8.0000E-01	4.6142E-01	105914	6	161
-7.0000E-01	4.7961E-01	-6.0000E-01	4.9699E-01	-5.0000E-01	5.1003E-01	105914	6	162
-4.0000E-01	5.2252E-01	-3.0000E-01	5.3121E-01	-2.0000E-01	5.3773E-01	105914	6	163
-1.0000E-01	5.4181E-01	0.	5.4316E-01	1.0000E-01	5.4181E-01	105914	6	164
2.0000E-01	5.3773E-01	3.0000E-01	5.3121E-01	4.0000E-01	5.2252E-01	105914	6	165
5.0000E-01	5.1003E-01	6.0000E-01	4.9699E-01	7.0000E-01	4.7961E-01	105914	6	166
8.0000E-01	4.6142E-01	9.0000E-01	4.3887E-01	1.0000E+00	4.1335E-01	105914	6	167
0.	3.5000E+00	0	0	1	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-01105914	6	170			
-7.0000E-01	4.8295E-01-6.0000E-01	4.9790E-01-5.0000E-01	5.0803E-01105914	6	171			
-4.0000E-01	5.1920E-01-3.0000E-01	5.2588E-01-2.0000E-01	5.3122E-01105914	6	172			
-1.0000E-01	5.3417E-01 0.	5.3550E-01 1.0000E-01	5.3417E-01105914	6	173			
2.0000E-01	5.3122E-01 3.0000E-01	5.2588E-01 4.0000E-01	5.1920E-01105914	6	174			
5.0000E-01	5.0803E-01 6.0000E-01	4.9790E-01 7.0000E-01	4.8295E-01105914	6	175			
8.0000E-01	4.6869E-01 9.0000E-01	4.4959E-01 1.0000E+00	4.2797E-01105914	6	176			
0.	4.0000E+00	0	0	1	21105914	6	177	
21	2					105914	6	178
-1.0000E+00	4.3951E-01-9.0000E-01	4.5802E-01-8.0000E-01	4.7435E-01105914	6	179			
-7.0000E-01	4.8559E-01-6.0000E-01	4.9861E-01-5.0000E-01	5.0647E-01105914	6	180			
-4.0000E-01	5.1657E-01-3.0000E-01	5.2168E-01-2.0000E-01	5.2611E-01105914	6	181			
-1.0000E-01	5.2817E-01 0.	5.2948E-01 1.0000E-01	5.2817E-01105914	6	182			
2.0000E-01	5.2611E-01 3.0000E-01	5.2168E-01 4.0000E-01	5.1657E-01105914	6	183			
5.0000E-01	5.0647E-01 6.0000E-01	4.9861E-01 7.0000E-01	4.8559E-01105914	6	184			
8.0000E-01	4.7435E-01 9.0000E-01	4.5802E-01 1.0000E+00	4.3951E-01105914	6	185			
0.	4.5000E+00	0	0	1	21105914	6	186	
21	2					105914	6	187
-1.0000E+00	4.4798E-01-9.0000E-01	4.6414E-01-8.0000E-01	4.7843E-01105914	6	188			
-7.0000E-01	4.8754E-01-6.0000E-01	4.9911E-01-5.0000E-01	5.0538E-01105914	6	189			
-4.0000E-01	5.1461E-01-3.0000E-01	5.1861E-01-2.0000E-01	5.2237E-01105914	6	190			
-1.0000E-01	5.2380E-01 0.	5.2508E-01 1.0000E-01	5.2380E-01105914	6	191			
2.0000E-01	5.2237E-01 3.0000E-01	5.1861E-01 4.0000E-01	5.1461E-01105914	6	192			
5.0000E-01	5.0538E-01 6.0000E-01	4.9911E-01 7.0000E-01	4.8754E-01105914	6	193			
8.0000E-01	4.7843E-01 9.0000E-01	4.6414E-01 1.0000E+00	4.4798E-01105914	6	194			
0.	5.0000E+00	0	0	1	21105914	6	195	
21	2					105914	6	196
-1.0000E+00	4.5337E-01-9.0000E-01	4.6796E-01-8.0000E-01	4.8091E-01105914	6	197			
-7.0000E-01	4.8879E-01-6.0000E-01	4.9942E-01-5.0000E-01	5.0473E-01105914	6	198			
-4.0000E-01	5.1334E-01-3.0000E-01	5.1668E-01-2.0000E-01	5.2002E-01105914	6	199			
-1.0000E-01	5.2108E-01 0.	5.2232E-01 1.0000E-01	5.2108E-01105914	6	200			
2.0000E-01	5.2002E-01 3.0000E-01	5.1668E-01 4.0000E-01	5.1334E-01105914	6	201			
5.0000E-01	5.0473E-01 6.0000E-01	4.9942E-01 7.0000E-01	4.8879E-01105914	6	202			
8.0000E-01	4.8091E-01 9.0000E-01	4.6796E-01 1.0000E+00	4.5337E-01105914	6	203			
0.	5.5000E+00	0	0	1	21105914	6	204	
21	2					105914	6	205
-1.0000E+00	4.2254E-01-9.0000E-01	4.4399E-01-8.0000E-01	4.6348E-01105914	6	206			
-7.0000E-01	4.8217E-01-6.0000E-01	4.9742E-01-5.0000E-01	5.0972E-01105914	6	207			
-4.0000E-01	5.2029E-01-3.0000E-01	5.2849E-01-2.0000E-01	5.3417E-01105914	6	208			
-1.0000E-01	5.3763E-01 0.	5.3878E-01 1.0000E-01	5.3763E-01105914	6	209			
2.0000E-01	5.3417E-01 3.0000E-01	5.2849E-01 4.0000E-01	5.2029E-01105914	6	210			
5.0000E-01	5.0972E-01 6.0000E-01	4.9742E-01 7.0000E-01	4.8217E-01105914	6	211			
8.0000E-01	4.6348E-01 9.0000E-01	4.4399E-01 1.0000E+00	4.2254E-01105914	6	212			
0.	6.0000E+00	0	0	1	21105914	6	213	
21	2					105914	6	214
-1.0000E+00	4.2434E-01-9.0000E-01	4.4518E-01-8.0000E-01	4.6418E-01105914	6	215			
-7.0000E-01	4.8259E-01-6.0000E-01	4.9749E-01-5.0000E-01	5.0957E-01105914	6	216			
-4.0000E-01	5.1979E-01-3.0000E-01	5.2785E-01-2.0000E-01	5.3342E-01105914	6	217			
-1.0000E-01	5.3680E-01 0.	5.3792E-01 1.0000E-01	5.3680E-01105914	6	218			
2.0000E-01	5.3342E-01 3.0000E-01	5.2785E-01 4.0000E-01	5.1979E-01105914	6	219			
5.0000E-01	5.0957E-01 6.0000E-01	4.9749E-01 7.0000E-01	4.8259E-01105914	6	220			
8.0000E-01	4.6418E-01 9.0000E-01	4.4518E-01 1.0000E+00	4.2434E-01105914	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-01105914	6	224			
-7.0000E-01	4.8298E-01-6.0000E-01	4.9755E-01-5.0000E-01	5.0940E-01105914	6	225			
-4.0000E-01	5.1928E-01-3.0000E-01	5.2718E-01-2.0000E-01	5.3266E-01105914	6	226			
-1.0000E-01	5.3598E-01 0.	5.3707E-01 1.0000E-01	5.3598E-01105914	6	227			
2.0000E-01	5.3266E-01 3.0000E-01	5.2718E-01 4.0000E-01	5.1928E-01105914	6	228			
5.0000E-01	5.0940E-01 6.0000E-01	4.9755E-01 7.0000E-01	4.8298E-01105914	6	229			
8.0000E-01	4.6497E-01 9.0000E-01	4.4643E-01 1.0000E+00	4.2613E-01105914	6	230			
0.	7.0000E+00	0	0	1	21105914	6	231	
21	2					105914	6	232
-1.0000E+00	4.2790E-01-9.0000E-01	4.4774E-01-8.0000E-01	4.6585E-01105914	6	233			
-7.0000E-01	4.8333E-01-6.0000E-01	4.9761E-01-5.0000E-01	5.0921E-01105914	6	234			
-4.0000E-01	5.1875E-01-3.0000E-01	5.2648E-01-2.0000E-01	5.3190E-01105914	6	235			
-1.0000E-01	5.3515E-01 0.	5.3624E-01 1.0000E-01	5.3515E-01105914	6	236			
2.0000E-01	5.3190E-01 3.0000E-01	5.2648E-01 4.0000E-01	5.1875E-01105914	6	237			
5.0000E-01	5.0921E-01 6.0000E-01	4.9761E-01 7.0000E-01	4.8333E-01105914	6	238			
8.0000E-01	4.6585E-01 9.0000E-01	4.4774E-01 1.0000E+00	4.2790E-01105914	6	239			
0.	7.5000E+00	0	0	1	21105914	6	240	

21	2					105914	6	241
-1.0000E+00	4.2967E-01-9.0000E-01	4.4910E-01-8.0000E-01	4.6683E-01105914				6	242
-7.0000E-01	4.8366E-01-6.0000E-01	4.9766E-01-5.0000E-01	5.0899E-01105914				6	243
-4.0000E-01	5.1819E-01-3.0000E-01	5.2575E-01-2.0000E-01	5.3111E-01105914				6	244
-1.0000E-01	5.3433E-01 0.	5.3540E-01 1.0000E-01	5.3433E-01105914				6	245
2.0000E-01	5.3111E-01 3.0000E-01	5.2575E-01 4.0000E-01	5.1819E-01105914				6	246
5.0000E-01	5.0899E-01 6.0000E-01	4.9766E-01 7.0000E-01	4.8366E-01105914				6	247
8.0000E-01	4.6683E-01 9.0000E-01	4.4910E-01 1.0000E+00	4.2967E-01105914				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-01105914				6	251
-7.0000E-01	4.8396E-01-6.0000E-01	4.9770E-01-5.0000E-01	5.0874E-01105914				6	252
-4.0000E-01	5.1763E-01-3.0000E-01	5.2499E-01-2.0000E-01	5.3032E-01105914				6	253
-1.0000E-01	5.3351E-01 0.	5.3458E-01 1.0000E-01	5.3351E-01105914				6	254
2.0000E-01	5.3032E-01 3.0000E-01	5.2499E-01 4.0000E-01	5.1763E-01105914				6	255
5.0000E-01	5.0874E-01 6.0000E-01	4.9770E-01 7.0000E-01	4.8396E-01105914				6	256
8.0000E-01	4.6790E-01 9.0000E-01	4.5053E-01 1.0000E+00	4.3142E-01105914				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-01105914				6	260
-7.0000E-01	4.8422E-01-6.0000E-01	4.9775E-01-5.0000E-01	5.0847E-01105914				6	261
-4.0000E-01	5.1704E-01-3.0000E-01	5.2419E-01-2.0000E-01	5.2951E-01105914				6	262
-1.0000E-01	5.3270E-01 0.	5.3376E-01 1.0000E-01	5.3270E-01105914				6	263
2.0000E-01	5.2951E-01 3.0000E-01	5.2419E-01 4.0000E-01	5.1704E-01105914				6	264
5.0000E-01	5.0847E-01 6.0000E-01	4.9775E-01 7.0000E-01	4.8422E-01105914				6	265
8.0000E-01	4.6907E-01 9.0000E-01	4.5201E-01 1.0000E+00	4.3316E-01105914				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-01105914				6	269
-7.0000E-01	4.8446E-01-6.0000E-01	4.9778E-01-5.0000E-01	5.0817E-01105914				6	270
-4.0000E-01	5.1643E-01-3.0000E-01	5.2336E-01-2.0000E-01	5.2869E-01105914				6	271
-1.0000E-01	5.3189E-01 0.	5.3295E-01 1.0000E-01	5.3189E-01105914				6	272
2.0000E-01	5.2869E-01 3.0000E-01	5.2336E-01 4.0000E-01	5.1643E-01105914				6	273
5.0000E-01	5.0817E-01 6.0000E-01	4.9778E-01 7.0000E-01	4.8446E-01105914				6	274
8.0000E-01	4.7033E-01 9.0000E-01	4.5355E-01 1.0000E+00	4.3489E-01105914				6	275
0.	0.	0	0	0		0105914	0	276
11023.0	22.786	1	2	2		0105914	7	1
0.0	0.0	0	0	0		0105914	0	2
11023.0	22.786	1	2	1		0105914	8	1
0.0	0.0	0	0	0		0105914	0	2
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	9	3
0.	2.8230E+00	0	0	1		21105914	9	4
21	2					105914	9	5
-1.0000E+00	6.4000E-01-9.0000E-01	6.1182E-01-8.0000E-01	5.8021E-01105914				9	6
-7.0000E-01	5.4918E-01-6.0000E-01	5.1788E-01-5.0000E-01	4.6429E-01105914				9	7
-4.0000E-01	4.6441E-01-3.0000E-01	4.4421E-01-2.0000E-01	4.3037E-01105914				9	8
-1.0000E-01	4.1985E-01 0.	4.1685E-01 1.0000E-01	4.1985E-01105914				9	9
2.0000E-01	4.3037E-01 3.0000E-01	4.4421E-01 4.0000E-01	4.6441E-01105914				9	10
5.0000E-01	4.6429E-01 6.0000E-01	5.1788E-01 7.0000E-01	5.4918E-01105914				9	11
8.0000E-01	5.8021E-01 9.0000E-01	6.1182E-01 1.0000E+00	6.4000E-01105914				9	12
0.	3.0000E+00	0	0	1		21105914	9	13
21	2					105914	9	14
-1.0000E+00	6.2324E-01-9.0000E-01	5.9732E-01-8.0000E-01	5.6931E-01105914				9	15
-7.0000E-01	5.4144E-01-6.0000E-01	5.1399E-01-5.0000E-01	4.7439E-01105914				9	16
-4.0000E-01	4.6738E-01-3.0000E-01	4.5062E-01-2.0000E-01	4.3778E-01105914				9	17
-1.0000E-01	4.2954E-01 0.	4.2667E-01 1.0000E-01	4.2954E-01105914				9	18
2.0000E-01	4.3778E-01 3.0000E-01	4.5062E-01 4.0000E-01	4.6738E-01105914				9	19
5.0000E-01	4.7439E-01 6.0000E-01	5.1399E-01 7.0000E-01	5.4143E-01105914				9	20
8.0000E-01	5.6931E-01 9.0000E-01	5.9732E-01 1.0000E+00	6.2324E-01105914				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-01105914				9	24
-7.0000E-01	5.3451E-01-6.0000E-01	5.1047E-01-5.0000E-01	4.8338E-01105914				9	25
-4.0000E-01	4.7006E-01-3.0000E-01	4.5633E-01-2.0000E-01	4.4442E-01105914				9	26
-1.0000E-01	4.3821E-01 0.	4.3548E-01 1.0000E-01	4.3821E-01105914				9	27
2.0000E-01	4.4442E-01 3.0000E-01	4.5633E-01 4.0000E-01	4.7006E-01105914				9	28
5.0000E-01	4.8338E-01 6.0000E-01	5.1047E-01 7.0000E-01	5.3450E-01105914				9	29
8.0000E-01	5.5957E-01 9.0000E-01	5.8439E-01 1.0000E+00	6.0825E-01105914				9	30
0.	4.0000E+00	0	0	1		21105914	9	31

21	2					105914	9	32
-1.0000E+00	5.9722E-01-9.0000E-01	5.7490E-01-8.0000E-01	5.5241E-01105914	9	33			
-7.0000E-01	5.2936E-01-6.0000E-01	5.0779E-01-5.0000E-01	4.8994E-01105914	9	34			
-4.0000E-01	4.7211E-01-3.0000E-01	4.6054E-01-2.0000E-01	4.4939E-01105914	9	35			
-1.0000E-01	4.4460E-01 0.	4.4203E-01 1.0000E-01	4.4460E-01105914	9	36			
2.0000E-01	4.4939E-01 3.0000E-01	4.6054E-01 4.0000E-01	4.7211E-01105914	9	37			
5.0000E-01	4.8994E-01 6.0000E-01	5.0779E-01 7.0000E-01	5.2937E-01105914	9	38			
8.0000E-01	5.5241E-01 9.0000E-01	5.7490E-01 1.0000E+00	5.9722E-01105914	9	39			
0.	4.5000E+00	0 0	1	21105914	9	40		
21	2					105914	9	41
-1.0000E+00	5.9014E-01-9.0000E-01	5.6886E-01-8.0000E-01	5.4781E-01105914	9	42			
-7.0000E-01	5.2598E-01-6.0000E-01	5.0596E-01-5.0000E-01	4.9405E-01105914	9	43			
-4.0000E-01	4.7352E-01-3.0000E-01	4.6323E-01-2.0000E-01	4.5269E-01105914	9	44			
-1.0000E-01	4.4873E-01 0.	4.4631E-01 1.0000E-01	4.4873E-01105914	9	45			
2.0000E-01	4.5269E-01 3.0000E-01	4.6323E-01 4.0000E-01	4.7352E-01105914	9	46			
5.0000E-01	4.9405E-01 6.0000E-01	5.0596E-01 7.0000E-01	5.2605E-01105914	9	47			
8.0000E-01	5.4781E-01 9.0000E-01	5.6886E-01 1.0000E+00	5.9014E-01105914	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-01105914	9	51			
-7.0000E-01	5.2438E-01-6.0000E-01	5.0495E-01-5.0000E-01	4.9574E-01105914	9	52			
-4.0000E-01	4.7430E-01-3.0000E-01	4.6442E-01-2.0000E-01	4.5430E-01105914	9	53			
-1.0000E-01	4.5060E-01 0.	4.4835E-01 1.0000E-01	4.5060E-01105914	9	54			
2.0000E-01	4.5430E-01 3.0000E-01	4.6442E-01 4.0000E-01	4.7430E-01105914	9	55			
5.0000E-01	4.9574E-01 6.0000E-01	5.0495E-01 7.0000E-01	5.2452E-01105914	9	56			
8.0000E-01	5.4579E-01 9.0000E-01	5.6627E-01 1.0000E+00	5.8703E-01105914	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-01105914	9	60			
-7.0000E-01	5.2926E-01-6.0000E-01	5.0670E-01-5.0000E-01	4.8862E-01105914	9	61			
-4.0000E-01	4.7275E-01-3.0000E-01	4.5985E-01-2.0000E-01	4.4967E-01105914	9	62			
-1.0000E-01	4.4398E-01 0.	4.4202E-01 1.0000E-01	4.4398E-01105914	9	63			
2.0000E-01	4.4967E-01 3.0000E-01	4.5985E-01 4.0000E-01	4.7275E-01105914	9	64			
5.0000E-01	4.8862E-01 6.0000E-01	5.0670E-01 7.0000E-01	5.2966E-01105914	9	65			
8.0000E-01	5.5335E-01 9.0000E-01	5.7668E-01 1.0000E+00	5.9870E-01105914	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-01105914	9	69			
-7.0000E-01	5.2870E-01-6.0000E-01	5.0636E-01-5.0000E-01	4.8883E-01105914	9	70			
-4.0000E-01	4.7317E-01-3.0000E-01	4.6029E-01-2.0000E-01	4.5039E-01105914	9	71			
-1.0000E-01	4.4464E-01 0.	4.4281E-01 1.0000E-01	4.4464E-01105914	9	72			
2.0000E-01	4.5039E-01 3.0000E-01	4.6029E-01 4.0000E-01	4.7317E-01105914	9	73			
5.0000E-01	4.8883E-01 6.0000E-01	5.0636E-01 7.0000E-01	5.2914E-01105914	9	74			
8.0000E-01	5.5271E-01 9.0000E-01	5.7588E-01 1.0000E+00	5.9771E-01105914	9	75			
0.	6.5000E+00	0 0	1	21105914	9	76		
21	2					105914	9	77
-1.0000E+00	5.9658E-01-9.0000E-01	5.7494E-01-8.0000E-01	5.5200E-01105914	9	78			
-7.0000E-01	5.2813E-01-6.0000E-01	5.0614E-01-5.0000E-01	4.8901E-01105914	9	79			
-4.0000E-01	4.7261E-01-3.0000E-01	4.6080E-01-2.0000E-01	4.5116E-01105914	9	80			
-1.0000E-01	4.4539E-01 0.	4.4365E-01 1.0000E-01	4.4539E-01105914	9	81			
2.0000E-01	4.5116E-01 3.0000E-01	4.6080E-01 4.0000E-01	4.7361E-01105914	9	82			
5.0000E-01	4.8901E-01 6.0000E-01	5.0614E-01 7.0000E-01	5.2858E-01105914	9	83			
8.0000E-01	5.5200E-01 9.0000E-01	5.7494E-01 1.0000E+00	5.9658E-01105914	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-01105914	9	87			
-7.0000E-01	5.2757E-01-6.0000E-01	5.0605E-01-5.0000E-01	4.8915E-01105914	9	88			
-4.0000E-01	4.7406E-01-3.0000E-01	4.6141E-01-2.0000E-01	4.5197E-01105914	9	89			
-1.0000E-01	4.4622E-01 0.	4.4454E-01 1.0000E-01	4.4622E-01105914	9	90			
2.0000E-01	4.5197E-01 3.0000E-01	4.6141E-01 4.0000E-01	4.7406E-01105914	9	91			
5.0000E-01	4.8915E-01 6.0000E-01	5.0605E-01 7.0000E-01	5.2799E-01105914	9	92			
8.0000E-01	5.5120E-01 9.0000E-01	5.7384E-01 1.0000E+00	5.9532E-01105914	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-01105914	9	96			
-7.0000E-01	5.2700E-01-6.0000E-01	5.0607E-01-5.0000E-01	4.8926E-01105914	9	97			
-4.0000E-01	4.7451E-01-3.0000E-01	4.6210E-01-2.0000E-01	4.5284E-01105914	9	98			
-1.0000E-01	4.4713E-01 0.	4.4547E-01 1.0000E-01	4.4713E-01105914	9	99			
2.0000E-01	4.5284E-01 3.0000E-01	4.6210E-01 4.0000E-01	4.7451E-01105914	9	100			
5.0000E-01	4.8926E-01 6.0000E-01	5.0607E-01 7.0000E-01	5.2737E-01105914	9	101			
8.0000E-01	5.5034E-01 9.0000E-01	5.7258E-01 1.0000E+00	5.9394E-01105914	9	102			
0.	8.0000E+00	0 0	1	21105914	9	103		

21	2				105914	9	104
-1.0000E+00	5.9242E-01-9.0000E-01	5.7117E-01-8.0000E-01	5.4939E-01105914			9	105
-7.0000E-01	5.2643E-01-6.0000E-01	5.0622E-01-5.0000E-01	4.8934E-01105914			9	106
-4.0000E-01	4.7498E-01-3.0000E-01	4.6289E-01-2.0000E-01	4.5376E-01105914			9	107
-1.0000E-01	4.4813E-01 0.	4.4646E-01 1.0000E-01	4.4813E-01105914			9	108
2.0000E-01	4.5376E-01 3.0000E-01	4.6289E-01 4.0000E-01	4.7498E-01105914			9	109
5.0000E-01	4.8934E-01 6.0000E-01	5.0622E-01 7.0000E-01	5.2671E-01105914			9	110
8.0000E-01	5.4939E-01 9.0000E-01	5.7117E-01 1.0000E+00	5.9242E-01105914			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-01105914			9	114
-7.0000E-01	5.2586E-01-6.0000E-01	5.0650E-01-5.0000E-01	4.8939E-01105914			9	115
-4.0000E-01	4.7546E-01-3.0000E-01	4.6376E-01-2.0000E-01	4.5473E-01105914			9	116
-1.0000E-01	4.4921E-01 0.	4.4749E-01 1.0000E-01	4.4921E-01105914			9	117
2.0000E-01	4.5473E-01 3.0000E-01	4.6376E-01 4.0000E-01	4.7546E-01105914			9	118
5.0000E-01	4.8939E-01 6.0000E-01	5.0650E-01 7.0000E-01	5.2601E-01105914			9	119
8.0000E-01	5.4837E-01 9.0000E-01	5.6961E-01 1.0000E+00	5.9076E-01105914			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-01105914			9	123
-7.0000E-01	5.2529E-01-6.0000E-01	5.0690E-01-5.0000E-01	4.8940E-01105914			9	124
-4.0000E-01	4.7594E-01-3.0000E-01	4.6473E-01-2.0000E-01	4.5576E-01105914			9	125
-1.0000E-01	4.5037E-01 0.	4.4857E-01 1.0000E-01	4.5037E-01105914			9	126
2.0000E-01	4.5576E-01 3.0000E-01	4.6473E-01 4.0000E-01	4.7594E-01105914			9	127
5.0000E-01	4.8940E-01 6.0000E-01	5.0690E-01 7.0000E-01	5.2529E-01105914			9	128
8.0000E-01	5.4726E-01 9.0000E-01	5.6790E-01 1.0000E+00	5.8899E-01105914			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-01105914			9	134
-7.0000E-01	5.4918E-01-6.0000E-01	5.1788E-01-5.0000E-01	4.6429E-01105914			9	135
-4.0000E-01	4.6441E-01-3.0000E-01	4.4421E-01-2.0000E-01	4.3037E-01105914			9	136
-1.0000E-01	4.1985E-01 0.	4.1685E-01 1.0000E-01	4.1985E-01105914			9	137
2.0000E-01	4.3037E-01 3.0000E-01	4.4421E-01 4.0000E-01	4.6441E-01105914			9	138
5.0000E-01	4.6429E-01 6.0000E-01	5.1788E-01 7.0000E-01	5.4918E-01105914			9	139
8.0000E-01	5.8021E-01 9.0000E-01	6.1182E-01 1.0000E+00	6.4000E-01105914			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-01105914			9	143
-7.0000E-01	5.4144E-01-6.0000E-01	5.1399E-01-5.0000E-01	4.7439E-01105914			9	144
-4.0000E-01	4.6738E-01-3.0000E-01	4.5062E-01-2.0000E-01	4.3778E-01105914			9	145
-1.0000E-01	4.2954E-01 0.	4.2667E-01 1.0000E-01	4.2954E-01105914			9	146
2.0000E-01	4.3778E-01 3.0000E-01	4.5062E-01 4.0000E-01	4.6738E-01105914			9	147
5.0000E-01	4.7439E-01 6.0000E-01	5.1399E-01 7.0000E-01	5.4143E-01105914			9	148
8.0000E-01	5.6931E-01 9.0000E-01	5.9732E-01 1.0000E+00	6.2324E-01105914			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-01105914			9	152
-7.0000E-01	5.3451E-01-6.0000E-01	5.1047E-01-5.0000E-01	4.8338E-01105914			9	153
-4.0000E-01	4.7006E-01-3.0000E-01	4.5633E-01-2.0000E-01	4.4442E-01105914			9	154
-1.0000E-01	4.3821E-01 0.	4.3548E-01 1.0000E-01	4.3821E-01105914			9	155
2.0000E-01	4.4442E-01 3.0000E-01	4.5633E-01 4.0000E-01	4.7006E-01105914			9	156
5.0000E-01	4.8338E-01 6.0000E-01	5.1047E-01 7.0000E-01	5.3450E-01105914			9	157
8.0000E-01	5.5957E-01 9.0000E-01	5.8439E-01 1.0000E+00	6.0825E-01105914			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-01105914			9	161
-7.0000E-01	5.2936E-01-6.0000E-01	5.0779E-01-5.0000E-01	4.8994E-01105914			9	162
-4.0000E-01	4.7211E-01-3.0000E-01	4.6054E-01-2.0000E-01	4.4939E-01105914			9	163
-1.0000E-01	4.4460E-01 0.	4.4203E-01 1.0000E-01	4.4460E-01105914			9	164
2.0000E-01	4.4939E-01 3.0000E-01	4.6054E-01 4.0000E-01	4.7211E-01105914			9	165
5.0000E-01	4.8994E-01 6.0000E-01	5.0779E-01 7.0000E-01	5.2937E-01105914			9	166
8.0000E-01	5.5241E-01 9.0000E-01	5.7490E-01 1.0000E+00	5.9722E-01105914			9	167
0.	4.5000E+00	0	0	1	21105914	9	168

21	2				105914	9	169
-1.0000E+00	5.9014E-01-9.0000E-01	5.6886E-01-8.0000E-01	5.4781E-01105914	9	170		
-7.0000E-01	5.2598E-01-6.0000E-01	5.0596E-01-5.0000E-01	4.9405E-01105914	9	171		
-4.0000E-01	4.7352E-01-3.0000E-01	4.6323E-01-2.0000E-01	4.5269E-01105914	9	172		
-1.0000E-01	4.4873E-01 0.	4.4631E-01 1.0000E-01	4.4873E-01105914	9	173		
2.0000E-01	4.5269E-01 3.0000E-01	4.6323E-01 4.0000E-01	4.7352E-01105914	9	174		
5.0000E-01	4.9405E-01 6.0000E-01	5.0596E-01 7.0000E-01	5.2605E-01105914	9	175		
8.0000E-01	5.4781E-01 9.0000E-01	5.6886E-01 1.0000E+00	5.9014E-01105914	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-01105914	9	179		
-7.0000E-01	5.2438E-01-6.0000E-01	5.0495E-01-5.0000E-01	4.9574E-01105914	9	180		
-4.0000E-01	4.7430E-01-3.0000E-01	4.6442E-01-2.0000E-01	4.5430E-01105914	9	181		
-1.0000E-01	4.5060E-01 0.	4.4835E-01 1.0000E-01	4.5060E-01105914	9	182		
2.0000E-01	4.5430E-01 3.0000E-01	4.6442E-01 4.0000E-01	4.7430E-01105914	9	183		
5.0000E-01	4.9574E-01 6.0000E-01	5.0495E-01 7.0000E-01	5.2452E-01105914	9	184		
8.0000E-01	5.4579E-01 9.0000E-01	5.6627E-01 1.0000E+00	5.8703E-01105914	9	185		
0.	5.5000E+00	0	0	1	21105914	9	186
21	2				105914	9	187
-1.0000E+00	5.9870E-01-9.0000E-01	5.7668E-01-8.0000E-01	5.5335E-01105914	9	188		
-7.0000E-01	5.2926E-01-6.0000E-01	5.0670E-01-5.0000E-01	4.8862E-01105914	9	189		
-4.0000E-01	4.7275E-01-3.0000E-01	4.5985E-01-2.0000E-01	4.4967E-01105914	9	190		
-1.0000E-01	4.4398E-01 0.	4.4202E-01 1.0000E-01	4.4398E-01105914	9	191		
2.0000E-01	4.4967E-01 3.0000E-01	4.5985E-01 4.0000E-01	4.7275E-01105914	9	192		
5.0000E-01	4.8862E-01 6.0000E-01	5.0670E-01 7.0000E-01	5.2966E-01105914	9	193		
8.0000E-01	5.5335E-01 9.0000E-01	5.7668E-01 1.0000E+00	5.9870E-01105914	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-01105914	9	197		
-7.0000E-01	5.2870E-01-6.0000E-01	5.0636E-01-5.0000E-01	4.8863E-01105914	9	198		
-4.0000E-01	4.7317E-01-3.0000E-01	4.6029E-01-2.0000E-01	4.5039E-01105914	9	199		
-1.0000E-01	4.4464E-01 0.	4.4281E-01 1.0000E-01	4.4464E-01105914	9	200		
2.0000E-01	4.5039E-01 3.0000E-01	4.6029E-01 4.0000E-01	4.7317E-01105914	9	201		
5.0000E-01	4.8883E-01 6.0000E-01	5.0636E-01 7.0000E-01	5.2914E-01105914	9	202		
8.0000E-01	5.5271E-01 9.0000E-01	5.7588E-01 1.0000E+00	5.9771E-01105914	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-01105914	9	206		
-7.0000E-01	5.2813E-01-6.0000E-01	5.0614E-01-5.0000E-01	4.8901E-01105914	9	207		
-4.0000E-01	4.7361E-01-3.0000E-01	4.6080E-01-2.0000E-01	4.5116E-01105914	9	208		
-1.0000E-01	4.4339E-01 0.	4.4365E-01 1.0000E-01	4.4339E-01105914	9	209		
2.0000E-01	4.5116E-01 3.0000E-01	4.6080E-01 4.0000E-01	4.7361E-01105914	9	210		
5.0000E-01	4.8901E-01 6.0000E-01	5.0614E-01 7.0000E-01	5.2858E-01105914	9	211		
8.0000E-01	5.5200E-01 9.0000E-01	5.7494E-01 1.0000E+00	5.9658E-01105914	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-01105914	9	215		
-7.0000E-01	5.2757E-01-6.0000E-01	5.0605E-01-5.0000E-01	4.8915E-01105914	9	216		
-4.0000E-01	4.7406E-01-3.0000E-01	4.6141E-01-2.0000E-01	4.5197E-01105914	9	217		
-1.0000E-01	4.4622E-01 0.	4.4454E-01 1.0000E-01	4.4622E-01105914	9	218		
2.0000E-01	4.5197E-01 3.0000E-01	4.6141E-01 4.0000E-01	4.7406E-01105914	9	219		
5.0000E-01	4.8915E-01 6.0000E-01	5.0605E-01 7.0000E-01	5.2799E-01105914	9	220		
8.0000E-01	5.5120E-01 9.0000E-01	5.7384E-01 1.0000E+00	5.9532E-01105914	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-01105914	9	224		
-7.0000E-01	5.2700E-01-6.0000E-01	5.0607E-01-5.0000E-01	4.8926E-01105914	9	225		
-4.0000E-01	4.7451E-01-3.0000E-01	4.6210E-01-2.0000E-01	4.5284E-01105914	9	226		
-1.0000E-01	4.4713E-01 0.	4.4547E-01 1.0000E-01	4.4713E-01105914	9	227		
2.0000E-01	4.5284E-01 3.0000E-01	4.6210E-01 4.0000E-01	4.7451E-01105914	9	228		
5.0000E-01	4.8926E-01 6.0000E-01	5.0607E-01 7.0000E-01	5.2737E-01105914	9	229		
8.0000E-01	5.5034E-01 9.0000E-01	5.7258E-01 1.0000E+00	5.9394E-01105914	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-01105914	9	233		
-7.0000E-01	5.2643E-01-6.0000E-01	5.0622E-01-5.0000E-01	4.8934E-01105914	9	234		
-4.0000E-01	4.7498E-01-3.0000E-01	4.6289E-01-2.0000E-01	4.5376E-01105914	9	235		
-1.0000E-01	4.4813E-01 0.	4.4646E-01 1.0000E-01	4.4813E-01105914	9	236		
2.0000E-01	4.5376E-01 3.0000E-01	4.6289E-01 4.0000E-01	4.7498E-01105914	9	237		
5.0000E-01	4.8934E-01 6.0000E-01	5.0622E-01 7.0000E-01	5.2671E-01105914	9	238		
8.0000E-01	5.4939E-01 9.0000E-01	5.7117E-01 1.0000E+00	5.9242E-01105914	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-01105914	9	242			
-7.0000E-01	5.2586E-01-6.0000E-01	5.0650E-01-5.0000E-01	4.8939E-01105914	9	243			
-4.0000E-01	4.7546E-01-3.0000E-01	4.6376E-01-2.0000E-01	4.5473E-01105914	9	244			
-1.0000E-01	4.4921E-01 0.	4.4749E-01 1.0000E-01	4.4921E-01105914	9	245			
2.0000E-01	4.5473E-01 3.0000E-01	4.6376E-01 4.0000E-01	4.7546E-01105914	9	246			
5.0000E-01	4.8939E-01 6.0000E-01	5.0650E-01 7.0000E-01	5.2601E-01105914	9	247			
8.0000E-01	5.4837E-01 9.0000E-01	5.6961E-01 1.0000E+00	5.9076E-01105914	9	248			
0.	9.0000E+00 0	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-01105914	9	251			
-7.0000E-01	5.2529E-01-6.0000E-01	5.0690E-01-5.0000E-01	4.8940E-01105914	9	252			
-4.0000E-01	4.7594E-01-3.0000E-01	4.6473E-01-2.0000E-01	4.5576E-01105914	9	253			
-1.0000E-01	4.5037E-01 0.	4.4857E-01 1.0000E-01	4.5037E-01105914	9	254			
2.0000E-01	4.5576E-01 3.0000E-01	4.6473E-01 4.0000E-01	4.7594E-01105914	9	255			
5.0000E-01	4.8940E-01 6.0000E-01	5.0690E-01 7.0000E-01	5.2529E-01105914	9	256			
8.0000E-01	5.4726E-01 9.0000E-01	5.6790E-01 1.0000E+00	5.8899E-01105914	9	257			
0.	0. 0.	0 0	C 0105914	0	258			
1.1023E+04	2.2786E+01	0 2	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 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-01105914	10	6			
-7.0000E-01	4.9964E-01-6.0000E-01	4.9994E-01-5.0000E-01	5.0019E-01105914	10	7			
-4.0000E-01	5.0044E-01-3.0000E-01	5.0059E-01-2.0000E-01	5.0074E-01105914	10	8			
-1.0000E-01	5.0080E-01 0.	5.0085E-01 1.0000E-01	5.0080E-01105914	10	9			
2.0000E-01	5.0074E-01 3.0000E-01	5.0059E-01 4.0000E-01	5.0044E-01105914	10	10			
5.0000E-01	5.0019E-01 6.0000E-01	4.9994E-01 7.0000E-01	4.9964E-01105914	10	11			
8.0000E-01	4.9924E-01 9.0000E-01	4.9879E-01 1.0000E+00	4.9834E-01105914	10	12			
0.	3.5000E+00 0	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-01105914	10	15			
-7.0000E-01	4.9926E-01-6.0000E-01	4.9990E-01-5.0000E-01	5.0045E-01105914	10	16			
-4.0000E-01	5.0097E-01-3.0000E-01	5.0128E-01-2.0000E-01	5.0158E-01105914	10	17			
-1.0000E-01	5.0173E-01 0.	5.0182E-01 1.0000E-01	5.0173E-01105914	10	18			
2.0000E-01	5.0158E-01 3.0000E-01	5.0128E-01 4.0000E-01	5.0097E-01105914	10	19			
5.0000E-01	5.0045E-01 6.0000E-01	4.9990E-01 7.0000E-01	4.9926E-01105914	10	20			
8.0000E-01	4.9803E-01 9.0000E-01	4.9747E-01 1.0000E+00	4.9651E-01105914	10	21			
0.	4.0000E+00 0	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-01105914	10	24			
-7.0000E-01	4.9894E-01-6.0000E-01	4.9986E-01-5.0000E-01	5.0064E-01105914	10	25			
-4.0000E-01	5.0136E-01-3.0000E-01	5.0179E-01-2.0000E-01	5.0221E-01105914	10	26			
-1.0000E-01	5.0243E-01 0.	5.0254E-01 1.0000E-01	5.0243E-01105914	10	27			
2.0000E-01	5.0221E-01 3.0000E-01	5.0179E-01 4.0000E-01	5.0136E-01105914	10	28			
5.0000E-01	5.0064E-01 6.0000E-01	4.9986E-01 7.0000E-01	4.9894E-01105914	10	29			
8.0000E-01	4.9718E-01 9.0000E-01	4.9647E-01 1.0000E+00	4.9513E-01105914	10	30			
0.	4.5000E+00 0	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-01105914	10	33			
-7.0000E-01	4.9871E-01-6.0000E-01	4.9981E-01-5.0000E-01	5.0076E-01105914	10	34			
-4.0000E-01	5.0161E-01-3.0000E-01	5.0215E-01-2.0000E-01	5.0263E-01105914	10	35			
-1.0000E-01	5.0290E-01 0.	5.0301E-01 1.0000E-01	5.0290E-01105914	10	36			
2.0000E-01	5.0263E-01 3.0000E-01	5.0215E-01 4.0000E-01	5.0161E-01105914	10	37			
5.0000E-01	5.0076E-01 6.0000E-01	4.9981E-01 7.0000E-01	4.9871E-01105914	10	38			
8.0000E-01	4.9671E-01 9.0000E-01	4.9579E-01 1.0000E+00	4.9418E-01105914	10	39			
0.	5.0000E+00 0	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-01105914	10	42			
-7.0000E-01	4.9856E-01-6.0000E-01	4.9977E-01-5.0000E-01	5.0083E-01105914	10	43			
-4.0000E-01	5.0173E-01-3.0000E-01	5.0233E-01-2.0000E-01	5.0284E-01105914	10	44			
-1.0000E-01	5.0314E-01 0.	5.0324E-01 1.0000E-01	5.0314E-01105914	10	45			
2.0000E-01	5.0284E-01 3.0000E-01	5.0233E-01 4.0000E-01	5.0173E-01105914	10	46			
5.0000E-01	5.0083E-01 6.0000E-01	4.9977E-01 7.0000E-01	4.9856E-01105914	10	47			
8.0000E-01	4.9660E-01 9.0000E-01	4.9544E-01 1.0000E+00	4.9368E-01105914	10	48			
0.	5.5000E+00 0	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-01105914	10	51				
-7.0000E-01	4.9850E-01-6.0000E-01	4.9971E-01-5.0000E-01	5.0081E-01105914	10	52				
-4.0000E-01	5.0167E-01-3.0000E-01	5.0231E-01-2.0000E-01	5.0281E-01105914	10	53				
-1.0000E-01	5.0309E-01 0.	5.0315E-01 1.0000E-01	5.0309E-01105914	10	54				
2.0000E-01	5.0281E-01 3.0000E-01	5.0231E-01 4.0000E-01	5.0167E-01105914	10	55				
5.0000E-01	5.0081E-01 6.0000E-01	4.9971E-01 7.0000E-01	4.9850E-01105914	10	56				
8.0000E-01	4.9697E-01 9.0000E-01	4.9549E-01 1.0000E+00	4.9373E-01105914	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-01105914	10	60				
-7.0000E-01	4.9847E-01-6.0000E-01	4.9968E-01-5.0000E-01	5.0080E-01105914	10	61				
-4.0000E-01	5.0164E-01-3.0000E-01	5.0230E-01-2.0000E-01	5.0269E-01105914	10	62				
-1.0000E-01	5.0304E-01 0.	5.0308E-01 1.0000E-01	5.0304E-01105914	10	63				
2.0000E-01	5.0269E-01 3.0000E-01	5.0230E-01 4.0000E-01	5.0164E-01105914	10	64				
5.0000E-01	5.0080E-01 6.0000E-01	4.9968E-01 7.0000E-01	4.9847E-01105914	10	65				
8.0000E-01	4.9726E-01 9.0000E-01	4.9554E-01 1.0000E+00	4.9378E-01105914	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-01105914	10	69				
-7.0000E-01	4.9846E-01-6.0000E-01	4.9966E-01-5.0000E-01	5.0080E-01105914	10	70				
-4.0000E-01	5.0161E-01-3.0000E-01	5.0230E-01-2.0000E-01	5.0249E-01105914	10	71				
-1.0000E-01	5.0299E-01 0.	5.0304E-01 1.0000E-01	5.0299E-01105914	10	72				
2.0000E-01	5.0249E-01 3.0000E-01	5.0230E-01 4.0000E-01	5.0161E-01105914	10	73				
5.0000E-01	5.0080E-01 6.0000E-01	4.9966E-01 7.0000E-01	4.9846E-01105914	10	74				
8.0000E-01	4.9748E-01 9.0000E-01	4.9560E-01 1.0000E+00	4.9385E-01105914	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-01105914	10	78				
-7.0000E-01	4.9848E-01-6.0000E-01	4.9968E-01-5.0000E-01	5.0080E-01105914	10	79				
-4.0000E-01	5.0161E-01-3.0000E-01	5.0231E-01-2.0000E-01	5.0221E-01105914	10	80				
-1.0000E-01	5.0293E-01 0.	5.0303E-01 1.0000E-01	5.0293E-01105914	10	81				
2.0000E-01	5.0221E-01 3.0000E-01	5.0231E-01 4.0000E-01	5.0161E-01105914	10	82				
5.0000E-01	5.0081E-01 6.0000E-01	4.9968E-01 7.0000E-01	4.9848E-01105914	10	83				
8.0000E-01	4.9763E-01 9.0000E-01	4.9567E-01 1.0000E+00	4.9393E-01105914	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-01105914	10	87				
-7.0000E-01	4.9853E-01-6.0000E-01	4.9971E-01-5.0000E-01	5.0083E-01105914	10	88				
-4.0000E-01	5.0161E-01-3.0000E-01	5.0233E-01-2.0000E-01	5.0184E-01105914	10	89				
-1.0000E-01	5.0288E-01 0.	5.0304E-01 1.0000E-01	5.0288E-01105914	10	90				
2.0000E-01	5.0184E-01 3.0000E-01	5.0233E-01 4.0000E-01	5.0161E-01105914	10	91				
5.0000E-01	5.0083E-01 6.0000E-01	4.9971E-01 7.0000E-01	4.9853E-01105914	10	92				
8.0000E-01	4.9770E-01 9.0000E-01	4.9574E-01 1.0000E+00	4.9401E-01105914	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-01105914	10	96				
-7.0000E-01	4.9860E-01-6.0000E-01	4.9978E-01-5.0000E-01	5.0087E-01105914	10	97				
-4.0000E-01	5.0163E-01-3.0000E-01	5.0235E-01-2.0000E-01	5.0138E-01105914	10	98				
-1.0000E-01	5.0283E-01 0.	5.0308E-01 1.0000E-01	5.0283E-01105914	10	99				
2.0000E-01	5.0138E-01 3.0000E-01	5.0235E-01 4.0000E-01	5.0163E-01105914	10	100				
5.0000E-01	5.0087E-01 6.0000E-01	4.9978E-01 7.0000E-01	4.9860E-01105914	10	101				
8.0000E-01	4.9769E-01 9.0000E-01	4.9582E-01 1.0000E+00	4.9411E-01105914	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-01105914	10	105				
-7.0000E-01	4.9869E-01-6.0000E-01	4.9986E-01-5.0000E-01	5.0091E-01105914	10	106				
-4.0000E-01	5.0167E-01-3.0000E-01	5.0239E-01-2.0000E-01	5.0084E-01105914	10	107				
-1.0000E-01	5.0278E-01 0.	5.0314E-01 1.0000E-01	5.0278E-01105914	10	108				
2.0000E-01	5.0084E-01 3.0000E-01	5.0239E-01 4.0000E-01	5.0167E-01105914	10	109				
5.0000E-01	5.0091E-01 6.0000E-01	4.9986E-01 7.0000E-01	4.9869E-01105914	10	110				
8.0000E-01	4.9761E-01 9.0000E-01	4.9590E-01 1.0000E+00	4.9422E-01105914	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-01105914	10	114				
-7.0000E-01	4.9881E-01-6.0000E-01	4.9997E-01-5.0000E-01	5.0097E-01105914	10	115				
-4.0000E-01	5.0173E-01-3.0000E-01	5.0243E-01-2.0000E-01	5.0022E-01105914	10	116				
-1.0000E-01	5.0273E-01 0.	5.0324E-01 1.0000E-01	5.0273E-01105914	10	117				
2.0000E-01	5.0022E-01 3.0000E-01	5.0243E-01 4.0000E-01	5.0173E-01105914	10	118				
5.0000E-01	5.0097E-01 6.0000E-01	4.9997E-01 7.0000E-01	4.9881E-01105914	10	119				
8.0000E-01	4.9745E-01 9.0000E-01	4.9599E-01 1.0000E+00	4.9433E-01105914	10	120				
2.9840E+00	2.5448E+00	0	0	1	13105914	10	121		

13	2					105914	10	122
0.	3.1140E+00	0	0	1		21105914	10	123
21	2					105914	10	124
-1.0000E+00	4.9834E-01-9.0000E-01	4.9879E-01-8.0000E-01	4.9924E-01105914	10	125			
-7.0000E-01	4.9964E-01-6.0000E-01	4.9994E-01-5.0000E-01	5.0019E-01105914	10	126			
-4.0000E-01	5.0044E-01-3.0000E-01	5.0059E-01-2.0000E-01	5.0074E-01105914	10	127			
-1.0000E-01	5.0080E-01 0.	5.0085E-01 1.0000E-01	5.0080E-01105914	10	128			
2.0000E-01	5.0074E-01 3.0000E-01	5.0059E-01 4.0000E-01	5.0044E-01105914	10	129			
5.0000E-01	5.0019E-01 6.0000E-01	4.9994E-01 7.0000E-01	4.9964E-01105914	10	130			
8.0000E-01	4.9924E-01 9.0000E-01	4.9879E-01 1.0000E+00	4.9834E-01105914	10	131			
0.	3.5000E+00	0	0	1		21105914	10	132
21	2					105914	10	133
-1.0000E+00	4.9651E-01-9.0000E-01	4.9747E-01-8.0000E-01	4.9803E-01105914	10	134			
-7.0000E-01	4.9926E-01-6.0000E-01	4.9990E-01-5.0000E-01	5.0045E-01105914	10	135			
-4.0000E-01	5.0097E-01-3.0000E-01	5.0128E-01-2.0000E-01	5.0158E-01105914	10	136			
-1.0000E-01	5.0173E-01 0.	5.0182E-01 1.0000E-01	5.0173E-01105914	10	137			
2.0000E-01	5.0158E-01 3.0000E-01	5.0128E-01 4.0000E-01	5.0097E-01105914	10	138			
5.0000E-01	5.0045E-01 6.0000E-01	4.9990E-01 7.0000E-01	4.9926E-01105914	10	139			
8.0000E-01	4.9803E-01 9.0000E-01	4.9747E-01 1.0000E+00	4.9651E-01105914	10	140			
0.	4.0000E+00	0	0	1		21105914	10	141
21	2					105914	10	142
-1.0000E+00	4.9513E-01-9.0000E-01	4.9647E-01-8.0000E-01	4.9718E-01105914	10	143			
-7.0000E-01	4.9894E-01-6.0000E-01	4.9986E-01-5.0000E-01	5.0064E-01105914	10	144			
-4.0000E-01	5.0136E-01-3.0000E-01	5.0179E-01-2.0000E-01	5.0221E-01105914	10	145			
-1.0000E-01	5.0243E-01 0.	5.0254E-01 1.0000E-01	5.0243E-01105914	10	146			
2.0000E-01	5.0221E-01 3.0000E-01	5.0179E-01 4.0000E-01	5.0136E-01105914	10	147			
5.0000E-01	5.0064E-01 6.0000E-01	4.9986E-01 7.0000E-01	4.9894E-01105914	10	148			
8.0000E-01	4.9718E-01 9.0000E-01	4.9647E-01 1.0000E+00	4.9513E-01105914	10	149			
0.	4.5000E+00	0	0	1		21105914	10	150
21	2					105914	10	151
-1.0000E+00	4.9418E-01-9.0000E-01	4.9579E-01-8.0000E-01	4.9671E-01105914	10	152			
-7.0000E-01	4.9871E-01-6.0000E-01	4.9981E-01-5.0000E-01	5.0076E-01105914	10	153			
-4.0000E-01	5.0161E-01-3.0000E-01	5.0215E-01-2.0000E-01	5.0263E-01105914	10	154			
-1.0000E-01	5.0290E-01 0.	5.0301E-01 1.0000E-01	5.0290E-01105914	10	155			
2.0000E-01	5.0263E-01 3.0000E-01	5.0215E-01 4.0000E-01	5.0161E-01105914	10	156			
5.0000E-01	5.0076E-01 6.0000E-01	4.9981E-01 7.0000E-01	4.9871E-01105914	10	157			
8.0000E-01	4.9671E-01 9.0000E-01	4.9579E-01 1.0000E+00	4.9418E-01105914	10	158			
0.	5.0000E+00	0	0	1		21105914	10	159
21	2					105914	10	160
-1.0000E+00	4.9368E-01-9.0000E-01	4.9544E-01-8.0000E-01	4.9660E-01105914	10	161			
-7.0000E-01	4.9856E-01-6.0000E-01	4.9977E-01-5.0000E-01	5.0083E-01105914	10	162			
-4.0000E-01	5.0173E-01-3.0000E-01	5.0233E-01-2.0000E-01	5.0284E-01105914	10	163			
-1.0000E-01	5.0314E-01 0.	5.0324E-01 1.0000E-01	5.0314E-01105914	10	164			
2.0000E-01	5.0284E-01 3.0000E-01	5.0233E-01 4.0000E-01	5.0173E-01105914	10	165			
5.0000E-01	5.0083E-01 6.0000E-01	4.9977E-01 7.0000E-01	4.9856E-01105914	10	166			
8.0000E-01	4.9660E-01 9.0000E-01	4.9544E-01 1.0000E+00	4.9368E-01105914	10	167			
0.	5.5000E+00	0	0	1		21105914	10	168
21	2					105914	10	169
-1.0000E+00	4.9373E-01-9.0000E-01	4.9549E-01-8.0000E-01	4.9697E-01105914	10	170			
-7.0000E-01	4.9850E-01-6.0000E-01	4.9971E-01-5.0000E-01	5.0081E-01105914	10	171			
-4.0000E-01	5.0167E-01-3.0000E-01	5.0231E-01-2.0000E-01	5.0281E-01105914	10	172			
-1.0000E-01	5.0309E-01 0.	5.0315E-01 1.0000E-01	5.03C9E-01105914	10	173			
2.0000E-01	5.0281E-01 3.0000E-01	5.0231E-01 4.0000E-01	5.0167E-01105914	10	174			
5.0000E-01	5.0081E-01 6.0000E-01	4.9971E-01 7.0000E-01	4.9850E-01105914	10	175			
8.0000E-01	4.9697E-01 9.0000E-01	4.9549E-01 1.0000E+00	4.9373E-01105914	10	176			
0.	6.0000E+00	0	0	1		21105914	10	177
21	2					105914	10	178
-1.0000E+00	4.9378E-01-9.0000E-01	4.9554E-01-8.0000E-01	4.9726E-01105914	10	179			
-7.0000E-01	4.9847E-01-6.0000E-01	4.9968E-01-5.0000E-01	5.0080E-01105914	10	180			
-4.0000E-01	5.0164E-01-3.0000E-01	5.0230E-01-2.0000E-01	5.0269E-01105914	10	181			
-1.0000E-01	5.0304E-01 0.	5.0308E-01 1.0000E-01	5.03C4E-01105914	10	182			
2.0000E-01	5.0269E-01 3.0000E-01	5.0230E-01 4.0000E-01	5.0164E-01105914	10	183			
5.0000E-01	5.0080E-01 6.0000E-01	4.9968E-01 7.0000E-01	4.9847E-01105914	10	184			
8.0000E-01	4.9726E-01 9.0000E-01	4.9554E-01 1.0000E+00	4.9378E-01105914	10	185			
0.	6.5000E+00	0	0	1		21105914	10	186

21	2					105914	10	187
-1.0000E+00	4.9385E-01-9.0000E-01	4.9560E-01-8.0000E-01	4.9748E-01105914	10	188			
-7.0000E-01	4.9846E-01-6.0000E-01	4.9966E-01-5.0000E-01	5.0080E-01105914	10	189			
-4.0000E-01	5.0161E-01-3.0000E-01	5.0230E-01-2.0000E-01	5.0249E-01105914	10	190			
-1.0000E-01	5.0299E-01 0.	5.0304E-01 1.0000E-01	5.0299E-01105914	10	191			
2.0000E-01	5.0249E-01 3.0000E-01	5.0230E-01 4.0000E-01	5.0161E-01105914	10	192			
5.0000E-01	5.0080E-01 6.0000E-01	4.9966E-01 7.0000E-01	4.9846E-01105914	10	193			
8.0000E-01	4.9748E-01 9.0000E-01	4.9560E-01 1.0000E+00	4.9385E-01105914	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-01105914	10	197			
-7.0000E-01	4.9848E-01-6.0000E-01	4.9968E-01-5.0000E-01	5.0081E-01105914	10	198			
-4.0000E-01	5.0161E-01-3.0000E-01	5.0231E-01-2.0000E-01	5.0221E-01105914	10	199			
-1.0000E-01	5.0293E-01 0.	5.0303E-01 1.0000E-01	5.0293E-01105914	10	200			
2.0000E-01	5.0221E-01 3.0000E-01	5.0231E-01 4.0000E-01	5.0161E-01105914	10	201			
5.0000E-01	5.0081E-01 6.0000E-01	4.9968E-01 7.0000E-01	4.9848E-01105914	10	202			
8.0000E-01	4.9763E-01 9.0000E-01	4.9567E-01 1.0000E+00	4.9393E-01105914	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-01105914	10	206			
-7.0000E-01	4.9853E-01-6.0000E-01	4.9971E-01-5.0000E-01	5.0083E-01105914	10	207			
-4.0000E-01	5.0161E-01-3.0000E-01	5.0233E-01-2.0000E-01	5.0184E-01105914	10	208			
-1.0000E-01	5.0288E-01 0.	5.0304E-01 1.0000E-01	5.0288E-01105914	10	209			
2.0000E-01	5.0184E-01 3.0000E-01	5.0233E-01 4.0000E-01	5.0161E-01105914	10	210			
5.0000E-01	5.0083E-01 6.0000E-01	4.9971E-01 7.0000E-01	4.9853E-01105914	10	211			
8.0000E-01	4.9770E-01 9.0000E-01	4.9574E-01 1.0000E+00	4.9401E-01105914	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-01105914	10	215			
-7.0000E-01	4.9860E-01-6.0000E-01	4.9978E-01-5.0000E-01	5.0087E-01105914	10	216			
-4.0000E-01	5.0163E-01-3.0000E-01	5.0235E-01-2.0000E-01	5.0138E-01105914	10	217			
-1.0000E-01	5.0283E-01 0.	5.0308E-01 1.0000E-01	5.0283E-01105914	10	218			
2.0000E-01	5.0138E-01 3.0000E-01	5.0235E-01 4.0000E-01	5.0163E-01105914	10	219			
5.0000E-01	5.0087E-01 6.0000E-01	4.9978E-01 7.0000E-01	4.986CE-01105914	10	220			
8.0000E-01	4.9769E-01 9.0000E-01	4.9582E-01 1.0000E+00	4.9411E-01105914	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-01105914	10	224			
-7.0000E-01	4.9869E-01-6.0000E-01	4.9986E-01-5.0000E-01	5.0091E-01105914	10	225			
-4.0000E-01	5.0167E-01-3.0000E-01	5.0239E-01-2.0000E-01	5.0084E-01105914	10	226			
-1.0000E-01	5.0278E-01 0.	5.0314E-01 1.0000E-01	5.0278E-01105914	10	227			
2.0000E-01	5.0084E-01 3.0000E-01	5.0239E-01 4.0000E-01	5.0167E-01105914	10	228			
5.0000E-01	5.0091E-01 6.0000E-01	4.9986E-01 7.0000E-01	4.9869E-01105914	10	229			
8.0000E-01	4.9761E-01 9.0000E-01	4.9590E-01 1.0000E+00	4.9422E-01105914	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-01105914	10	233			
-7.0000E-01	4.9881E-01-6.0000E-01	4.9997E-01-5.0000E-01	5.0097E-01105914	10	234			
-4.0000E-01	5.0173E-01-3.0000E-01	5.0243E-01-2.0000E-01	5.0022E-01105914	10	235			
-1.0000E-01	5.0273E-01 0.	5.0324E-01 1.0000E-01	5.0273E-01105914	10	236			
2.0000E-01	5.0022E-01 3.0000E-01	5.0243E-01 4.0000E-01	5.0173E-01105914	10	237			
5.0000E-01	5.0097E-01 6.0000E-01	4.9997E-01 7.0000E-01	4.9881E-01105914	10	238			
8.0000E-01	4.9745E-01 9.0000E-01	4.9599E-01 1.0000E+00	4.9433E-01105914	10	239			
0.	0.	0	0	0	0105914	0	240	
1.1023F+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
-1.0000E+00	4.9775E-01-9.0000E-01	4.9835E-01-8.0000E-01	4.9893E-01105914	11	6			
-7.0000E-01	4.9948E-01-6.0000E-01	4.9993E-01-5.0000E-01	5.0027E-01105914	11	7			
-4.0000E-01	5.0056E-01-3.0000E-01	5.0086E-01-2.0000E-01	5.0101E-01105914	11	8			
-1.0000E-01	5.0111E-01 0.	5.0116E-01 1.0000E-01	5.0111E-01105914	11	9			
2.0000E-01	5.0101E-01 3.0000E-01	5.0086E-01 4.0000E-01	5.0056E-01105914	11	10			
5.0000E-01	5.0027E-01 6.0000E-01	4.9993E-01 7.0000E-01	4.9948E-01105914	11	11			
8.0000E-01	4.9893E-01 9.0000E-01	4.9835E-01 1.0000E+00	4.9775E-01105914	11	12			
0.	4.0000E+00	0	0	1	21105914	11	13	

21	2					105914	11	14
-1.0000E+00	4.9531E-01	-9.0000E-01	4.9733E-01	-8.0000E-01	4.9826E-01	1105914	11	15
-7.0000E-01	4.9913E-01	-6.0000E-01	4.9990E-01	-5.0000E-01	5.0044E-01	1105914	11	16
-4.0000E-01	5.0095E-01	-3.0000E-01	5.0137E-01	-2.0000E-01	5.0165E-01	1105914	11	17
-1.0000E-01	5.0181E-01	0.	5.0188E-01	1.0000E-01	5.0181E-01	1105914	11	18
2.0000E-01	5.0165E-01	3.0000E-01	5.0137E-01	4.0000E-01	5.0095E-01	1105914	11	19
5.0000E-01	5.0044E-01	6.0000E-01	4.9990E-01	7.0000E-01	4.9913E-01	1105914	11	20
8.0000E-01	4.9826E-01	9.0000E-01	4.9733E-01	1.0000E+00	4.9631E-01	1105914	11	21
0.	4.5000E+00	0	0	1	21105914	11	22	
21	2					105914	11	23
-1.0000E+00	4.9451E-01	-9.0000E-01	4.9605E-01	-8.0000E-01	4.9743E-01	1105914	11	24
-7.0000E-01	4.9869E-01	-6.0000E-01	4.9984E-01	-5.0000E-01	5.0064E-01	1105914	11	25
-4.0000E-01	5.0143E-01	-3.0000E-01	5.0203E-01	-2.0000E-01	5.0245E-01	1105914	11	26
-1.0000E-01	5.0270E-01	0.	5.0279E-01	1.0000E-01	5.0270E-01	1105914	11	27
2.0000E-01	5.0245E-01	3.0000E-01	5.0203E-01	4.0000E-01	5.0143E-01	1105914	11	28
5.0000E-01	5.0064E-01	6.0000E-01	4.9984E-01	7.0000E-01	4.9869E-01	1105914	11	29
8.0000E-01	4.9743E-01	9.0000E-01	4.9605E-01	1.0000E+00	4.9451E-01	1105914	11	30
0.	5.0000E+00	0	0	1	21105914	11	31	
21	2					105914	11	32
-1.0000E+00	4.9339E-01	-9.0000E-01	4.9525E-01	-8.0000E-01	4.9691E-01	1105914	11	33
-7.0000E-01	4.9842E-01	-6.0000E-01	4.9973E-01	-5.0000E-01	5.0078E-01	1105914	11	34
-4.0000E-01	5.0174E-01	-3.0000E-01	5.0245E-01	-2.0000E-01	5.0295E-01	1105914	11	35
-1.0000E-01	5.0325E-01	0.	5.0335E-01	1.0000E-01	5.0325E-01	1105914	11	36
2.0000E-01	5.0295E-01	3.0000E-01	5.0245E-01	4.0000E-01	5.0174E-01	1105914	11	37
5.0000E-01	5.0078E-01	6.0000E-01	4.9973E-01	7.0000E-01	4.9842E-01	1105914	11	38
8.0000E-01	4.9691E-01	9.0000E-01	4.9525E-01	1.0000E+00	4.9339E-01	1105914	11	39
0.	5.5000E+00	0	0	1	21105914	11	40	
21	2					105914	11	41
-1.0000E+00	4.9348E-01	-9.0000E-01	4.9530E-01	-8.0000E-01	4.9696E-01	1105914	11	42
-7.0000E-01	4.9845E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0080E-01	1105914	11	43
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0292E-01	1105914	11	44
-1.0000E-01	5.0322E-01	0.	5.0332E-01	1.0000E-01	5.0322E-01	1105914	11	45
2.0000E-01	5.0292E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	1105914	11	46
5.0000E-01	5.0080E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9845E-01	1105914	11	47
8.0000E-01	4.9696E-01	9.0000E-01	4.9530E-01	1.0000E+00	4.9348E-01	1105914	11	48
0.	6.0000E+00	0	0	1	21105914	11	49	
21	2					105914	11	50
-1.0000E+00	4.9357E-01	-9.0000E-01	4.9535E-01	-8.0000E-01	4.9701E-01	1105914	11	51
-7.0000E-01	4.9848E-01	-6.0000E-01	4.9931E-01	-5.0000E-01	5.0081E-01	1105914	11	52
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0289E-01	1105914	11	53
-1.0000E-01	5.0320E-01	0.	5.0330E-01	1.0000E-01	5.0320E-01	1105914	11	54
2.0000E-01	5.0289E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	1105914	11	55
5.0000E-01	5.0081E-01	6.0000E-01	4.9931E-01	7.0000E-01	4.9848E-01	1105914	11	56
8.0000E-01	4.9701E-01	9.0000E-01	4.9535E-01	1.0000E+00	4.9357E-01	1105914	11	57
0.	6.5000E+00	0	0	1	21105914	11	58	
21	2					105914	11	59
-1.0000E+00	4.9365E-01	-9.0000E-01	4.9539E-01	-8.0000E-01	4.9706E-01	1105914	11	60
-7.0000E-01	4.9850E-01	-6.0000E-01	4.9921E-01	-5.0000E-01	5.0081E-01	1105914	11	61
-4.0000E-01	5.0176E-01	-3.0000E-01	5.0247E-01	-2.0000E-01	5.0286E-01	1105914	11	62
-1.0000E-01	5.0316E-01	0.	5.0326E-01	1.0000E-01	5.0316E-01	1105914	11	63
2.0000E-01	5.0286E-01	3.0000E-01	5.0247E-01	4.0000E-01	5.0176E-01	1105914	11	64
5.0000E-01	5.0081E-01	6.0000E-01	4.9921E-01	7.0000E-01	4.9850E-01	1105914	11	65
8.0000E-01	4.9706E-01	9.0000E-01	4.9539E-01	1.0000E+00	4.9365E-01	1105914	11	66
0.	7.0000E+00	0	0	1	21105914	11	67	
21	2					105914	11	68
-1.0000E+00	4.9371E-01	-9.0000E-01	4.9544E-01	-8.0000E-01	4.9709E-01	1105914	11	69
-7.0000E-01	4.9853E-01	-6.0000E-01	4.9918E-01	-5.0000E-01	5.0081E-01	1105914	11	70
-4.0000E-01	5.0175E-01	-3.0000E-01	5.0244E-01	-2.0000E-01	5.0283E-01	1105914	11	71
-1.0000E-01	5.0313E-01	0.	5.0323E-01	1.0000E-01	5.0313E-01	1105914	11	72
2.0000E-01	5.0283E-01	3.0000E-01	5.0244E-01	4.0000E-01	5.0175E-01	1105914	11	73
5.0000E-01	5.0081E-01	6.0000E-01	4.9918E-01	7.0000E-01	4.9853E-01	1105914	11	74
8.0000E-01	4.9709E-01	9.0000E-01	4.9544E-01	1.0000E+00	4.9371E-01	1105914	11	75
0.	7.5000E+00	0	0	1	21105914	11	76	
21	2					105914	11	77
-1.0000E+00	4.9378E-01	-9.0000E-01	4.9549E-01	-8.0000E-01	4.9713E-01	1105914	11	78
-7.0000E-01	4.9855E-01	-6.0000E-01	4.9922E-01	-5.0000E-01	5.0080E-01	1105914	11	79
-4.0000E-01	5.0173E-01	-3.0000E-01	5.0240E-01	-2.0000E-01	5.0280E-01	1105914	11	80
-1.0000E-01	5.0309E-01	0.	5.0319E-01	1.0000E-01	5.03C9E-01	1105914	11	81
2.0000E-01	5.0280E-01	3.0000E-01	5.0240E-01	4.0000E-01	5.0173E-01	1105914	11	82
5.0000E-01	5.0080E-01	6.0000E-01	4.9922E-01	7.0000E-01	4.9855E-01	1105914	11	83
8.0000E-01	4.9713E-01	9.0000E-01	4.9549E-01	1.0000E+00	4.9378E-01	1105914	11	84
0.	8.0000E+00	0	0	1	21105914	11	85	

21	2					105914	11	86
-1.0000E+00	4.9383E-01	-9.0000E-01	4.9553E-01	-8.0000E-01	4.9717E-01	1105914	11	87
-7.0000E-01	4.9856E-01	-6.0000E-01	4.9932E-01	-5.0000E-01	5.0079E-01	1105914	11	88
-4.0000E-01	5.0169E-01	-3.0000E-01	5.0235E-01	-2.0000E-01	5.0277E-01	1105914	11	89
-1.0000E-01	5.0304E-01	0.	5.0314E-01	1.0000E-01	5.0304E-01	1105914	11	90
2.0000E-01	5.0277E-01	3.0000E-01	5.0235E-01	4.0000E-01	5.0169E-01	1105914	11	91
5.0000E-01	5.0079E-01	6.0000E-01	4.9932E-01	7.0000E-01	4.9856E-01	1105914	11	92
8.0000E-01	4.9717E-01	9.0000E-01	4.9553E-01	1.0000E+00	4.9383E-01	1105914	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	1105914	11	96
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9949E-01	-5.0000E-01	5.0077E-01	1105914	11	97
-4.0000E-01	5.0166E-01	-3.0000E-01	5.0228E-01	-2.0000E-01	5.0274E-01	1105914	11	98
-1.0000E-01	5.0301E-01	0.	5.0311E-01	1.0000E-01	5.0301E-01	1105914	11	99
2.0000E-01	5.0274E-01	3.0000E-01	5.0228E-01	4.0000E-01	5.0166E-01	1105914	11	100
5.0000E-01	5.0077E-01	6.0000E-01	4.9949E-01	7.0000E-01	4.9858E-01	1105914	11	101
8.0000E-01	4.9720E-01	9.0000E-01	4.9557E-01	1.0000E+00	4.9387E-01	1105914	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	1105914	11	105
-7.0000E-01	4.9858E-01	-6.0000E-01	4.9974E-01	-5.0000E-01	5.0075E-01	1105914	11	106
-4.0000E-01	5.0161E-01	-3.0000E-01	5.0221E-01	-2.0000E-01	5.0271E-01	1105914	11	107
-1.0000E-01	5.0296E-01	0.	5.0306E-01	1.0000E-01	5.0296E-01	1105914	11	108
2.0000E-01	5.0271E-01	3.0000E-01	5.0221E-01	4.0000E-01	5.0161E-01	1105914	11	109
5.0000E-01	5.0075E-01	6.0000E-01	4.9974E-01	7.0000E-01	4.9858E-01	1105914	11	110
8.0000E-01	4.9723E-01	9.0000E-01	4.9562E-01	1.0000E+00	4.9391E-01	1105914	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	1105914	11	116
-7.0000E-01	4.9948E-01	-6.0000E-01	4.9993E-01	-5.0000E-01	5.0027E-01	1105914	11	117
-4.0000E-01	5.0056E-01	-3.0000E-01	5.0086E-01	-2.0000E-01	5.0101E-01	1105914	11	118
-1.0000E-01	5.0111E-01	0.	5.0116E-01	1.0000E-01	5.0111E-01	1105914	11	119
2.0000E-01	5.0101E-01	3.0000E-01	5.0086E-01	4.0000E-01	5.0056E-01	1105914	11	120
5.0000E-01	5.0027E-01	6.0000E-01	4.9993E-01	7.0000E-01	4.9948E-01	1105914	11	121
8.0000E-01	4.9893E-01	9.0000E-01	4.9835E-01	1.0000E+00	4.9775E-01	1105914	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	1105914	11	125
-7.0000E-01	4.9913E-01	-6.0000E-01	4.9990E-01	-5.0000E-01	5.0044E-01	1105914	11	126
-4.0000E-01	5.0095E-01	-3.0000E-01	5.0137E-01	-2.0000E-01	5.0165E-01	1105914	11	127
-1.0000E-01	5.0181E-01	0.	5.0188E-01	1.0000E-01	5.0181E-01	1105914	11	128
2.0000E-01	5.0165E-01	3.0000E-01	5.0137E-01	4.0000E-01	5.0095E-01	1105914	11	129
5.0000E-01	5.0044E-01	6.0000E-01	4.9990E-01	7.0000E-01	4.9913E-01	1105914	11	130
8.0000E-01	4.9826E-01	9.0000E-01	4.9733E-01	1.0000E+00	4.9631E-01	1105914	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	1105914	11	134
-7.0000E-01	4.9869E-01	-6.0000E-01	4.9984E-01	-5.0000E-01	5.0064E-01	1105914	11	135
-4.0000E-01	5.0143E-01	-3.0000E-01	5.0203E-01	-2.0000E-01	5.0245E-01	1105914	11	136
-1.0000E-01	5.0270E-01	0.	5.0279E-01	1.0000E-01	5.0270E-01	1105914	11	137
2.0000E-01	5.0245E-01	3.0000E-01	5.0203E-01	4.0000E-01	5.0143E-01	1105914	11	138
5.0000E-01	5.0064E-01	6.0000E-01	4.9984E-01	7.0000E-01	4.9869E-01	1105914	11	139
8.0000E-01	4.9743E-01	9.0000E-01	4.9605E-01	1.0000E+00	4.9451E-01	1105914	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	1105914	11	143
-7.0000E-01	4.9842E-01	-6.0000E-01	4.9973E-01	-5.0000E-01	5.0078E-01	1105914	11	144
-4.0000E-01	5.0174E-01	-3.0000E-01	5.0245E-01	-2.0000E-01	5.0295E-01	1105914	11	145
-1.0000E-01	5.0325E-01	0.	5.0335E-01	1.0000E-01	5.0325E-01	1105914	11	146
2.0000E-01	5.0295E-01	3.0000E-01	5.0245E-01	4.0000E-01	5.0174E-01	1105914	11	147
5.0000E-01	5.0078E-01	6.0000E-01	4.9973E-01	7.0000E-01	4.9842E-01	1105914	11	148
8.0000E-01	4.9691E-01	9.0000E-01	4.9525E-01	1.0000E+00	4.9339E-01	1105914	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.	5.0332E-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	4.97C9E-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	5.0309E-01	0.	5.0319E-01	1.0000E-01	5.03C9E-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	5.03C4E-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	5.03C1E-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	

	12	2				105914	11	223
0.	3.8380E+00		0	0	1	21105914	11	224
21	2					105914	11	225
-1.0000E+00	4.9775E-01-9.0000E-01	4.9835E-01-8.0000E-01	4.9893E-01105914	11	226			
-7.0000E-01	4.9948E-01-6.0000E-01	4.9993E-01-5.0000E-01	5.0027E-01105914	11	227			
-4.0000E-01	5.0056E-01-3.0000E-01	5.0086E-01-2.0000E-01	5.0101E-01105914	11	228			
-1.0000E-01	5.0111E-01 0.	5.0116E-01 1.0000E-01	5.0111E-01105914	11	229			
2.0000E-01	5.0101E-01 3.0000E-01	5.0086E-01 4.0000E-01	5.0056E-01105914	11	230			
5.0000E-01	5.0027E-01 6.0000E-01	4.9993E-01 7.0000E-01	4.9948E-01105914	11	231			
8.0000E-01	4.9893E-01 9.0000E-01	4.9835E-01 1.0000E+00	4.9775E-01105914	11	232			
0.	4.0000E+00	0	0	1	21105914	11	233	
21	2					105914	11	234
-1.0000E+00	4.9631E-01-9.0000E-01	4.9733E-01-8.0000E-01	4.9826E-01105914	11	235			
-7.0000E-01	4.9913E-01-6.0000E-01	4.9990E-01-5.0000E-01	5.0044E-01105914	11	236			
-4.0000E-01	5.0095E-01-3.0000E-01	5.0137E-01-2.0000E-01	5.0165E-01105914	11	237			
-1.0000F-01	5.0181E-01 0.	5.0188E-01 1.0000E-01	5.0181E-01105914	11	238			
2.0000E-01	5.0165E-01 3.0000E-01	5.0137E-01 4.0000E-01	5.0095E-01105914	11	239			
5.0000E-01	5.0044E-01 6.0000E-01	4.9990E-01 7.0000E-01	4.9913E-01105914	11	240			
8.0000E-01	4.9826E-01 9.0000E-01	4.9733E-01 1.0000E+00	4.9631E-01105914	11	241			
0.	4.5000E+00	0	0	1	21105914	11	242	
21	2					105914	11	243
-1.0000E+00	4.9451E-01-9.0000E-01	4.9605E-01-8.0000E-01	4.9743E-01105914	11	244			
-7.0000E-01	4.9869E-01-6.0000E-01	4.9984E-01-5.0000E-01	5.0064E-01105914	11	245			
-4.0000E-01	5.0143E-01-3.0000E-01	5.0203E-01-2.0000E-01	5.0245E-01105914	11	246			
-1.0000E-01	5.0270E-01 0.	5.0279E-01 1.0000E-01	5.0270E-01105914	11	247			
2.0000E-01	5.0245E-01 3.0000E-01	5.0203E-01 4.0000E-01	5.0143E-01105914	11	248			
5.0000E-01	5.0064E-01 6.0000E-01	4.9984E-01 7.0000E-01	4.9869E-01105914	11	249			
8.0000E-01	4.9743E-01 9.0000E-01	4.9605E-01 1.0000E+00	4.9451E-01105914	11	250			
0.	5.0000E+00	0	0	1	21105914	11	251	
21	2					105914	11	252
-1.0000E+00	4.9339E-01-9.0000E-01	4.9525E-01-8.0000E-01	4.9691E-01105914	11	253			
-7.0000E-01	4.9842E-01-6.0000E-01	4.9973E-01-5.0000E-01	5.0078E-01105914	11	254			
-4.0000E-01	5.0174E-01-3.0000E-01	5.0245E-01-2.0000E-01	5.0295E-01105914	11	255			
-1.0000E-01	5.0325E-01 0.	5.0335E-01 1.0000E-01	5.0325E-01105914	11	256			
2.0000E-01	5.0295E-01 3.0000E-01	5.0245E-01 4.0000E-01	5.0174E-01105914	11	257			
5.0000E-01	5.0078E-01 6.0000E-01	4.9973E-01 7.0000E-01	4.9842E-01105914	11	258			
8.0000E-01	4.9691E-01 9.0000E-01	4.9525E-01 1.0000E+00	4.9339E-01105914	11	259			
0.	5.5000E+00	0	0	1	21105914	11	260	
21	2					105914	11	261
-1.0000E+00	4.9348E-01-9.0000E-01	4.9530E-01-8.0000E-01	4.9696E-01105914	11	262			
-7.0000E-01	4.9845E-01-6.0000E-01	4.9949E-01-5.0000E-01	5.0080E-01105914	11	263			
-4.0000E-01	5.0176E-01-3.0000E-01	5.0247E-01-2.0000E-01	5.0292E-01105914	11	264			
-1.0000E-01	5.0322E-01 0.	5.0332E-01 1.0000E-01	5.0322E-01105914	11	265			
2.0000E-01	5.0292E-01 3.0000E-01	5.0247E-01 4.0000E-01	5.0176E-01105914	11	266			
5.0000E-01	5.0080E-01 6.0000E-01	4.9949E-01 7.0000E-01	4.9845E-01105914	11	267			
8.0000E-01	4.9696E-01 9.0000E-01	4.9530E-01 1.0000E+00	4.9348E-01105914	11	268			
0.	6.0000E+00	0	0	1	21105914	11	269	
21	2					105914	11	270
-1.0000E+00	4.9357E-01-9.0000E-01	4.9535E-01-8.0000E-01	4.97C1E-01105914	11	271			
-7.0000E-01	4.9848E-01-6.0000E-01	4.9931E-01-5.0000E-01	5.0081E-01105914	11	272			
-4.0000E-01	5.0176E-01-3.0000E-01	5.0247E-01-2.0000E-01	5.0289E-01105914	11	273			
-1.0000E-01	5.0320E-01 0.	5.0330E-01 1.0000E-01	5.0320E-01105914	11	274			
2.0000E-01	5.0289E-01 3.0000E-01	5.0247E-01 4.0000E-01	5.0176E-01105914	11	275			
5.0000E-01	5.0081E-01 6.0000E-01	4.9931E-01 7.0000E-01	4.9848E-01105914	11	276			
8.0000E-01	4.9701E-01 9.0000E-01	4.9535E-01 1.0000E+00	4.9357E-01105914	11	277			
0.	6.5000E+00	0	0	1	21105914	11	278	
21	2					105914	11	279
-1.0000E+00	4.9365E-01-9.0000E-01	4.9539E-01-8.0000E-01	4.97C6E-01105914	11	280			
-7.0000E-01	4.9850E-01-6.0000E-01	4.9921E-01-5.0000E-01	5.0081E-01105914	11	281			
-4.0000E-01	5.0176E-01-3.0000E-01	5.0247E-01-2.0000E-01	5.0286E-01105914	11	282			
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2.0000E-01	5.0286E-01 3.0000E-01	5.0247E-01 4.0000E-01	5.0176E-01105914	11	284			
5.0000E-01	5.0081E-01 6.0000E-01	4.9921E-01 7.0000E-01	4.9850E-01105914	11	285			
8.0000E-01	4.9706E-01 9.0000E-01	4.9539E-01 1.0000E+00	4.9365E-01105914	11	286			
0.	7.0000E+00	0	0	1	21105914	11	287	

21	2					105914	11	288
-1.0000E+00	4.9371E-01-9.0000E-01	4.9544E-01-8.0000E-01	4.9709E-01105914	11		289		
-7.0000E-01	4.9853E-01-6.0000E-01	4.9918E-01-5.0000E-01	5.0081E-01105914	11		290		
-4.0000E-01	5.0175E-01-3.0000E-01	5.0244E-01-2.0000E-01	5.0283E-01105914	11		291		
-1.0000E-01	5.0313E-01 0.	5.0323E-01 1.0000E-01	5.0313E-01105914	11		292		
2.0000E-01	5.0283E-01 3.0000E-01	5.0244E-01 4.0000E-01	5.0175E-01105914	11		293		
5.0000E-01	5.0081E-01 6.0000E-01	4.9918E-01 7.0000E-01	4.9853E-01105914	11		294		
8.0000E-01	4.9709E-01 9.0000E-01	4.9544E-01 1.0000E+0C	4.9371E-01105914	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-01105914	11		298		
-7.0000E-01	4.9855E-01-6.0000E-01	4.9922E-01-5.0000E-01	5.0080E-01105914	11		299		
-4.0000E-01	5.0173E-01-3.0000E-01	5.0240E-01-2.0000E-01	5.0280E-01105914	11		300		
-1.0000E-01	5.0309E-01 0.	5.0319E-01 1.0000E-01	5.0309E-01105914	11		301		
2.0000E-01	5.0280E-01 3.0000E-01	5.0240E-01 4.0000E-01	5.0173E-01105914	11		302		
5.0000E-01	5.0080E-01 6.0000E-01	4.9922E-01 7.0000E-01	4.9855E-01105914	11		303		
8.0000E-01	4.9713E-01 9.0000E-01	4.9549E-01 1.0000E+0C	4.9378E-01105914	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-01-8.0000CE-01	4.9717E-01105914	11		307		
-7.0000E-01	4.9856E-01-6.0000E-01	4.9932E-01-5.0000E-01	5.0079E-01105914	11		308		
-4.0000E-01	5.0169E-01-3.0000E-01	5.0235E-01-2.0000E-01	5.0277E-01105914	11		309		
-1.0000E-01	5.0304E-01 0.	5.0314E-01 1.0000E-01	5.0304E-01105914	11		310		
2.0000E-01	5.0277E-01 3.0000E-01	5.0235E-01 4.0000E-01	5.0169E-01105914	11		311		
5.0000E-01	5.0079E-01 6.0000E-01	4.9932E-01 7.0000E-01	4.9856E-01105914	11		312		
8.0000E-01	4.9717E-01 9.0000E-01	4.9553E-01 1.0000E+0C	4.9383E-01105914	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-01105914	11		316		
-7.0000E-01	4.9858E-01-6.0000E-01	4.9949E-01-5.0000E-01	5.0077E-01105914	11		317		
-4.0000E-01	5.0166E-01-3.0000E-01	5.0228E-01-2.0000E-01	5.0274E-01105914	11		318		
-1.0000E-01	5.0301E-01 0.	5.0311E-01 1.0000E-01	5.0301E-01105914	11		319		
2.0000E-01	5.0274E-01 3.0000E-01	5.0228E-01 4.0000E-01	5.0166E-01105914	11		320		
5.0000E-01	5.0077E-01 6.0000E-01	4.9949E-01 7.0000E-01	4.9858E-01105914	11		321		
8.0000E-01	4.9720E-01 9.0000E-01	4.9557E-01 1.0000E+0C	4.9387E-01105914	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-01105914	11		325		
-7.0000E-01	4.9858E-01-6.0000E-01	4.9974E-01-5.0000E-01	5.0075E-01105914	11		326		
-4.0000E-01	5.0161E-01-3.0000E-01	5.0221E-01-2.0000E-01	5.0271E-01105914	11		327		
-1.0000E-01	5.0296E-01 0.	5.0306E-01 1.0000E-01	5.0296E-01105914	11		328		
2.0000E-01	5.0271E-01 3.0000E-01	5.0221E-01 4.0000E-01	5.0161E-01105914	11		329		
5.0000E-01	5.0075E-01 6.0000E-01	4.9974E-01 7.0000E-01	4.9858E-01105914	11		330		
8.0000E-01	4.9723E-01 9.0000E-01	4.9562E-01 1.0000E+0C	4.9391E-01105914	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-01-8.0000CE-01	4.9893E-01105914	11		336		
-7.0000E-01	4.9948E-01-6.0000E-01	4.9993E-01-5.0000E-01	5.0027E-01105914	11		337		
-4.0000E-01	5.0056E-01-3.0000E-01	5.0086E-01-2.0000E-01	5.01C1E-01105914	11		338		
-1.0000E-01	5.0111E-01 0.	5.0116E-01 1.0000E-01	5.0111E-01105914	11		339		
2.0000E-01	5.0101E-01 3.0000E-01	5.0086E-01 4.0000E-01	5.0056E-01105914	11		340		
5.0000E-01	5.0027E-01 6.0000E-01	4.9993E-01 7.0000E-01	4.9948E-01105914	11		341		
8.0000E-01	4.9893E-01 9.0000E-01	4.9835E-01 1.0000E+0C	4.9775E-01105914	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-01105914	11		345		
-7.0000E-01	4.9913E-01-6.0000E-01	4.9990E-01-5.0000CE-01	5.0044E-01105914	11		346		
-4.0000E-01	5.0095E-01-3.0000E-01	5.0137E-01-2.0000E-01	5.0165E-01105914	11		347		
-1.0000E-01	5.0181E-01 0.	5.0188E-01 1.0000E-01	5.0181E-01105914	11		348		
2.0000E-01	5.0165E-01 3.0000E-01	5.0137E-01 4.0000E-01	5.0095E-01105914	11		349		
5.0000E-01	5.0044E-01 6.0000E-01	4.9990E-01 7.0000E-01	4.9913E-01105914	11		350		
8.0000E-01	4.9826E-01 9.0000E-01	4.9733E-01 1.0000E+0C	4.9631E-01105914	11		351		
0.	4.5000E+00	0	0	1	21105914	11	352	



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		
5.0000E-01	5.0075E-01 6.0000E-01	4.9974E-01 7.0000E-01	4.9858E-01	105914	11	440		
8.0000E-01	4.9723E-01 9.0000E-01	4.9562E-01 1.0000E+00	4.9391E-01	105914	11	441		
0.	0.	0	0	0	0105914	0	442	
1.1023E+04	2.2786E+01	0	2	2	0105914	12	1	
3.8500E+00	3.8500E+00	0	0	1	11105914	12	2	
11	2				105914	12	3	
0.	4.0170E+00	0	0	1	21105914	12	4	
21	2				105914	12	5	
-1.0000E+00	4.4307E-01-9.0000E-01	4.5956E-01-8.0000E-01	4.7169E-01	105914	12	6		
-7.0000E-01	4.8636E-01-6.0000E-01	4.9821E-01-5.0000E-01	5.0732E-01	105914	12	7		
-4.0000E-01	5.1496E-01-3.0000E-01	5.2078E-01-2.0000E-01	5.2501E-01	105914	12	8		
-1.0000E-01	5.2766E-01 0.	5.2871E-01 1.0000E-01	5.2766E-01	105914	12	9		
2.0000E-01	5.2501E-01 3.0000E-01	5.2078E-01 4.0000E-01	5.1496E-01	105914	12	10		
5.0000E-01	5.0732E-01 6.0000E-01	4.9821E-01 7.0000E-01	4.8636E-01	105914	12	11		
8.0000E-01	4.7344E-01 9.0000E-01	4.5956E-01 1.0000E+00	4.4307E-01	105914	12	12		
0.	4.5000E+00	0	0	1	21105914	12	13	
21	2				105914	12	14	
-1.0000E+00	4.4378E-01-9.0000E-01	4.6011E-01-8.0000E-01	4.7101E-01	105914	12	15		
-7.0000E-01	4.8666E-01-6.0000E-01	4.9818E-01-5.0000E-01	5.0725E-01	105914	12	16		
-4.0000E-01	5.1469E-01-3.0000E-01	5.2050E-01-2.0000E-01	5.2473E-01	105914	12	17		
-1.0000E-01	5.2738E-01 0.	5.2844E-01 1.0000E-01	5.2738E-01	105914	12	18		
2.0000E-01	5.2473E-01 3.0000E-01	5.2050E-01 4.0000E-01	5.1469E-01	105914	12	19		
5.0000E-01	5.0725E-01 6.0000E-01	4.9818E-01 7.0000E-01	4.8666E-01	105914	12	20		
8.0000E-01	4.7394E-01 9.0000E-01	4.6011E-01 1.0000E+00	4.4378E-01	105914	12	21		
0.	5.0000E+00	0	0	1	21105914	12	22	
21	2				105914	12	23	
-1.0000E+00	4.4225E-01-9.0000E-01	4.5794E-01-8.0000E-01	4.7431E-01	105914	12	24		
-7.0000E-01	4.8665E-01-6.0000E-01	4.9691E-01-5.0000E-01	5.0734E-01	105914	12	25		
-4.0000E-01	5.1542E-01-3.0000E-01	5.2124E-01-2.0000E-01	5.2552E-01	105914	12	26		
-1.0000E-01	5.2817E-01 0.	5.2923E-01 1.0000E-01	5.2817E-01	105914	12	27		
2.0000E-01	5.2552E-01 3.0000E-01	5.2124E-01 4.0000E-01	5.1542E-01	105914	12	28		
5.0000E-01	5.0734E-01 6.0000E-01	4.9691E-01 7.0000E-01	4.8665E-01	105914	12	29		
8.0000E-01	4.7318E-01 9.0000E-01	4.5794E-01 1.0000E+00	4.4225E-01	105914	12	30		
0.	5.5000E+00	0	0	1	21105914	12	31	
21	2				105914	12	32	
-1.0000E+00	4.4143E-01-9.0000E-01	4.5720E-01-8.0000E-01	4.7283E-01	105914	12	33		
-7.0000E-01	4.8653E-01-6.0000E-01	4.9769E-01-5.0000E-01	5.0775E-01	105914	12	34		
-4.0000E-01	5.1641E-01-3.0000E-01	5.2106E-01-2.0000E-01	5.2575E-01	105914	12	35		
-1.0000E-01	5.2840E-01 0.	5.2946E-01 1.0000E-01	5.2840E-01	105914	12	36		
2.0000E-01	5.2575E-01 3.0000E-01	5.2106E-01 4.0000E-01	5.1641E-01	105914	12	37		
5.0000E-01	5.0775E-01 6.0000E-01	4.9769E-01 7.0000E-01	4.8653E-01	105914	12	38		
8.0000E-01	4.7283E-01 9.0000E-01	4.5720E-01 1.0000E+00	4.4143E-01	105914	12	39		
0.	6.0000E+00	0	0	1	21105914	12	40	
21	2				105914	12	41	
-1.0000E+00	4.4214E-01-9.0000E-01	4.5823E-01-8.0000E-01	4.7300E-01	105914	12	42		
-7.0000E-01	4.8679E-01-6.0000E-01	4.9774E-01-5.0000E-01	5.0779E-01	105914	12	43		
-4.0000E-01	5.1314E-01-3.0000E-01	5.2100E-01-2.0000E-01	5.2580E-01	105914	12	44		
-1.0000E-01	5.2844E-01 0.	5.2950E-01 1.0000E-01	5.2844E-01	105914	12	45		
2.0000E-01	5.2580E-01 3.0000E-01	5.2100E-01 4.0000E-01	5.1314E-01	105914	12	46		
5.0000E-01	5.0779E-01 6.0000E-01	4.9774E-01 7.0000E-01	4.8679E-01	105914	12	47		
8.0000E-01	4.7300E-01 9.0000E-01	4.5823E-01 1.0000E+00	4.4214E-01	105914	12	48		
0.	6.5000E+00	0	0	1	21105914	12	49	

21	2					105914	12	50
-1.0000E+00	4.4372E-01	-9.0000E-01	4.6027E-01	-8.0000E-01	4.7349E-01	105914	12	51
-7.0000E-01	4.8722E-01	-6.0000E-01	4.9764E-01	-5.0000E-01	5.0766E-01	105914	12	52
-4.0000E-01	5.0818E-01	-3.0000E-01	5.2088E-01	-2.0000E-01	5.2562E-01	105914	12	53
-1.0000E-01	5.2826E-01	0.	5.2931E-01	1.0000E-01	5.2826E-01	105914	12	54
2.0000E-01	5.2562E-01	3.0000E-01	5.2088E-01	4.0000E-01	5.0818E-01	105914	12	55
5.0000E-01	5.0766E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8722E-01	105914	12	56
8.0000E-01	4.7349E-01	9.0000E-01	4.6027E-01	1.0000E+00	4.4372E-01	105914	12	57
0.	7.0000E+00		0	0	1	21105914	12	58
21	2					105914	12	59
-1.0000E+00	4.4501E-01	-9.0000E-01	4.6169E-01	-8.0000E-01	4.7395E-01	105914	12	60
-7.0000E-01	4.8749E-01	-6.0000E-01	4.9764E-01	-5.0000E-01	5.0752E-01	105914	12	61
-4.0000E-01	5.0571E-01	-3.0000E-01	5.2064E-01	-2.0000E-01	5.2529E-01	105914	12	62
-1.0000E-01	5.2788E-01	0.	5.2894E-01	1.0000E-01	5.2788E-01	105914	12	63
2.0000E-01	5.2529E-01	3.0000E-01	5.2064E-01	4.0000E-01	5.0571E-01	105914	12	64
5.0000E-01	5.0752E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8749E-01	105914	12	65
8.0000E-01	4.7395E-01	9.0000E-01	4.6169E-01	1.0000E+00	4.4501E-01	105914	12	66
0.	7.5000E+00		0	0	1	21105914	12	67
21	2					105914	12	68
-1.0000E+00	4.4621E-01	-9.0000E-01	4.6277E-01	-8.0000E-01	4.7444E-01	105914	12	69
-7.0000E-01	4.8768E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0734E-01	105914	12	70
-4.0000E-01	5.0500E-01	-3.0000E-01	5.2030E-01	-2.0000E-01	5.2480E-01	105914	12	71
-1.0000E-01	5.2731E-01	0.	5.2837E-01	1.0000E-01	5.2731E-01	105914	12	72
2.0000E-01	5.2480E-01	3.0000E-01	5.2030E-01	4.0000E-01	5.0500E-01	105914	12	73
5.0000E-01	5.0734E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8768E-01	105914	12	74
8.0000E-01	4.7444E-01	9.0000E-01	4.6277E-01	1.0000E+00	4.4621E-01	105914	12	75
0.	8.0000E+00		0	0	1	21105914	12	76
21	2					105914	12	77
-1.0000E+00	4.4732E-01	-9.0000E-01	4.6352E-01	-8.0000E-01	4.7496E-01	105914	12	78
-7.0000E-01	4.8776E-01	-6.0000E-01	4.9779E-01	-5.0000E-01	5.0712E-01	105914	12	79
-4.0000E-01	5.0604E-01	-3.0000E-01	5.1985E-01	-2.0000E-01	5.2414E-01	105914	12	80
-1.0000E-01	5.2655E-01	0.	5.2761E-01	1.0000E-01	5.2655E-01	105914	12	81
2.0000E-01	5.2414E-01	3.0000E-01	5.1985E-01	4.0000E-01	5.0604E-01	105914	12	82
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
0.	8.5000E+00		0	0	1	21105914	12	85
21	2					105914	12	86
-1.0000E+00	4.4835E-01	-9.0000E-01	4.6393E-01	-8.0000E-01	4.7551E-01	105914	12	87
-7.0000E-01	4.8776E-01	-6.0000E-01	4.9795E-01	-5.0000E-01	5.0687E-01	105914	12	88
-4.0000E-01	5.0884E-01	-3.0000E-01	5.1930E-01	-2.0000E-01	5.2332E-01	105914	12	89
-1.0000E-01	5.2559E-01	0.	5.2664E-01	1.0000E-01	5.2559E-01	105914	12	90
2.0000E-01	5.2332E-01	3.0000E-01	5.1930E-01	4.0000E-01	5.0884E-01	105914	12	91
5.0000E-01	5.0687E-01	6.0000E-01	4.9795E-01	7.0000E-01	4.8776E-01	105914	12	92
8.0000E-01	4.7551E-01	9.0000E-01	4.6393E-01	1.0000E+00	4.4835E-01	105914	12	93
0.	9.0000E+00		0	0	1	21105914	12	94
21	2					105914	12	95
-1.0000E+00	4.4929E-01	-9.0000E-01	4.6401E-01	-8.0000E-01	4.7609E-01	105914	12	96
-7.0000E-01	4.8765E-01	-6.0000E-01	4.9816E-01	-5.0000E-01	5.0657E-01	105914	12	97
-4.0000E-01	5.1340E-01	-3.0000E-01	5.1866E-01	-2.0000E-01	5.2233E-01	105914	12	98
-1.0000E-01	5.2443E-01	0.	5.2549E-01	1.0000E-01	5.2443E-01	105914	12	99
2.0000E-01	5.2233E-01	3.0000E-01	5.1866E-01	4.0000E-01	5.1340E-01	105914	12	100
5.0000E-01	5.0657E-01	6.0000E-01	4.9816E-01	7.0000E-01	4.8765E-01	105914	12	101
8.0000E-01	4.7609E-01	9.0000E-01	4.6401E-01	1.0000E+00	4.4929E-01	105914	12	102
3.8500E+00	1.7700E+00		0	0	1	11105914	12	103
21	2					105914	12	104
0.	4.0170E+00		0	0	1	21105914	12	105
21	2					105914	12	106
-1.0000E+00	4.4307E-01	-9.0000E-01	4.5956E-01	-8.0000E-01	4.7169E-01	105914	12	107
-7.0000E-01	4.8636E-01	-6.0000E-01	4.9821E-01	-5.0000E-01	5.0732E-01	105914	12	108
-4.0000E-01	5.1496E-01	-3.0000E-01	5.2078E-01	-2.0000E-01	5.25C1E-01	105914	12	109
-1.0000E-01	5.2766E-01	0.	5.2871E-01	1.0000E-01	5.2766E-01	105914	12	110
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
8.0000E-01	4.7344E-01	9.0000E-01	4.5956E-01	1.0000E+00	4.4307E-01	105914	12	113
0.	4.5000E+00		0	0	1	21105914	12	114

21	2				105914	12	115	
-1.0000E+00	4.4378E-01	-9.0000E-01	4.6011E-01	-8.0000E-01	4.7101E-01	1105914	12	116
-7.0000E-01	4.8666E-01	-6.0000E-01	4.9818E-01	-5.0000E-01	5.0725E-01	1105914	12	117
-4.0000E-01	5.1469E-01	-3.0000E-01	5.2050E-01	-2.0000E-01	5.2473E-01	1105914	12	118
-1.0000E-01	5.2738E-01	0.	5.2844E-01	1.0000E-01	5.2738E-01	1105914	12	119
2.0000E-01	5.2473E-01	3.0000E-01	5.2050E-01	4.0000E-01	5.1469E-01	1105914	12	120
5.0000E-01	5.0725E-01	6.0000E-01	4.9818E-01	7.0000E-01	4.8666E-01	1105914	12	121
8.0000E-01	4.7394E-01	9.0000E-01	4.6011E-01	1.0000E+00	4.4378E-01	1105914	12	122
0.	5.0000E+00	0	0	1	21105914	12	123	
21	2				105914	12	124	
-1.0000E+00	4.4225E-01	-9.0000E-01	4.5794E-01	-8.0000E-01	4.7431E-01	1105914	12	125
-7.0000E-01	4.8665E-01	-6.0000E-01	4.9691E-01	-5.0000E-01	5.0734E-01	1105914	12	126
-4.0000E-01	5.1542E-01	-3.0000E-01	5.2124E-01	-2.0000E-01	5.2552E-01	1105914	12	127
-1.0000E-01	5.2817E-01	0.	5.2923E-01	1.0000E-01	5.2817E-01	1105914	12	128
2.0000E-01	5.2552E-01	3.0000E-01	5.2124E-01	4.0000E-01	5.1542E-01	1105914	12	129
5.0000E-01	5.0734E-01	6.0000E-01	4.9691E-01	7.0000E-01	4.8665E-01	1105914	12	130
8.0000E-01	4.7318E-01	9.0000E-01	4.5794E-01	1.0000E+00	4.4225E-01	1105914	12	131
0.	5.5000E+00	0	0	1	21105914	12	132	
21	2				105914	12	133	
-1.0000E+00	4.4143E-01	-9.0000E-01	4.5720E-01	-8.0000E-01	4.7283E-01	1105914	12	134
-7.0000E-01	4.8653E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0775E-01	1105914	12	135
-4.0000E-01	5.1641E-01	-3.0000E-01	5.2106E-01	-2.0000E-01	5.2575E-01	1105914	12	136
-1.0000E-01	5.2840E-01	0.	5.2946E-01	1.0000E-01	5.2840E-01	1105914	12	137
2.0000E-01	5.2575E-01	3.0000E-01	5.2106E-01	4.0000E-01	5.1641E-01	1105914	12	138
5.0000E-01	5.0775E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8653E-01	1105914	12	139
8.0000E-01	4.7283E-01	9.0000E-01	4.5720E-01	1.0000E+00	4.4143E-01	1105914	12	140
0.	6.0000E+00	0	0	1	21105914	12	141	
21	2				105914	12	142	
-1.0000E+00	4.4214E-01	-9.0000E-01	4.5823E-01	-8.0000E-01	4.73C0E-01	1105914	12	143
-7.0000E-01	4.8679E-01	-6.0000E-01	4.9774E-01	-5.0000E-01	5.0779E-01	1105914	12	144
-4.0000E-01	5.1314E-01	-3.0000E-01	5.2100E-01	-2.0000E-01	5.2580E-01	1105914	12	145
-1.0000E-01	5.2844E-01	0.	5.2950E-01	1.0000E-01	5.2844E-01	1105914	12	146
2.0000E-01	5.2580E-01	3.0000E-01	5.2100E-01	4.0000E-01	5.1314E-01	1105914	12	147
5.0000E-01	5.0779E-01	6.0000E-01	4.9774E-01	7.0000E-01	4.8679E-01	1105914	12	148
8.0000E-01	4.7300E-01	9.0000E-01	4.5823E-01	1.0000E+00	4.4214E-01	1105914	12	149
0.	6.5000E+00	0	0	1	21105914	12	150	
21	2				105914	12	151	
-1.0000E+00	4.4372E-01	-9.0000E-01	4.6027E-01	-8.0000E-01	4.7349E-01	1105914	12	152
-7.0000E-01	4.8722E-01	-6.0000E-01	4.9764E-01	-5.0000E-01	5.0766E-01	1105914	12	153
-4.0000E-01	5.0818E-01	-3.0000E-01	5.2088E-01	-2.0000E-01	5.2562E-01	1105914	12	154
-1.0000E-01	5.2826E-01	0.	5.2931E-01	1.0000E-01	5.2826E-01	1105914	12	155
2.0000E-01	5.2562E-01	3.0000E-01	5.2088E-01	4.0000E-01	5.0818E-01	1105914	12	156
5.0000E-01	5.0766E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8722E-01	1105914	12	157
8.0000E-01	4.7349E-01	9.0000E-01	4.6027E-01	1.0000E+00	4.4372E-01	1105914	12	158
0.	7.0000E+00	0	0	1	21105914	12	159	
21	2				105914	12	160	
-1.0000E+00	4.4501E-01	-9.0000E-01	4.6169E-01	-8.0000E-01	4.7395E-01	1105914	12	161
-7.0000E-01	4.8749E-01	-6.0000E-01	4.9764E-01	-5.0000E-01	5.0752E-01	1105914	12	162
-4.0000E-01	5.0571E-01	-3.0000E-01	5.2064E-01	-2.0000E-01	5.2529E-01	1105914	12	163
-1.0000E-01	5.2788E-01	0.	5.2894E-01	1.0000E-01	5.2788E-01	1105914	12	164
2.0000E-01	5.2529E-01	3.0000E-01	5.2064E-01	4.0000E-01	5.0571E-01	1105914	12	165
5.0000E-01	5.0752E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8749E-01	1105914	12	166
8.0000E-01	4.7395E-01	9.0000E-01	4.6169E-01	1.0000E+00	4.4501E-01	1105914	12	167
0.	7.5000E+00	0	0	1	21105914	12	168	
21	2				105914	12	169	
-1.0000E+00	4.4621E-01	-9.0000E-01	4.6277E-01	-8.0000E-01	4.7444E-01	1105914	12	170
-7.0000E-01	4.8768E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0734E-01	1105914	12	171
-4.0000E-01	5.0500E-01	-3.0000E-01	5.2030E-01	-2.0000E-01	5.2480E-01	1105914	12	172
-1.0000E-01	5.2731E-01	0.	5.2837E-01	1.0000E-01	5.2731E-01	1105914	12	173
2.0000E-01	5.2480E-01	3.0000E-01	5.2030E-01	4.0000E-01	5.0500E-01	1105914	12	174
5.0000E-01	5.0734E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8768E-01	1105914	12	175
8.0000E-01	4.7444E-01	9.0000E-01	4.6277E-01	1.0000E+00	4.4621E-01	1105914	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	1105914	12	179
-7.0000E-01	4.8776E-01	-6.0000E-01	4.9779E-01	-5.0000E-01	5.0712E-01	1105914	12	180
-4.0000E-01	5.0604E-01	-3.0000E-01	5.1985E-01	-2.0000E-01	5.2414E-01	1105914	12	181
-1.0000E-01	5.2655E-01	0.	5.2761E-01	1.0000E-01	5.2655E-01	1105914	12	182
2.0000E-01	5.2414E-01	3.0000E-01	5.1985E-01	4.0000E-01	5.0604E-01	1105914	12	183
5.0000E-01	5.0712E-01	6.0000E-01	4.9779E-01	7.0000E-01	4.8776E-01	1105914	12	184
8.0000E-01	4.7496E-01	9.0000E-01	4.6352E-01	1.0000E+00	4.4732E-01	1105914	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	1105914	12	188
-7.0000E-01	4.8776E-01	-6.0000E-01	4.9795E-01	-5.0000E-01	5.0687E-01	1105914	12	189
-4.0000E-01	5.0884E-01	-3.0000E-01	5.1930E-01	-2.0000E-01	5.2332E-01	1105914	12	190
-1.0000E-01	5.2559E-01	0.	5.2664E-01	1.0000E-01	5.2559E-01	1105914	12	191
2.0000E-01	5.2332E-01	3.0000E-01	5.1930E-01	4.0000E-01	5.0884E-01	1105914	12	192
5.0000E-01	5.0687E-01	6.0000E-01	4.9795E-01	7.0000E-01	4.8776E-01	1105914	12	193
8.0000E-01	4.7551E-01	9.0000E-01	4.6393E-01	1.0000E+00	4.4835E-01	1105914	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	1105914	12	197
-7.0000E-01	4.8765E-01	-6.0000E-01	4.9816E-01	-5.0000E-01	5.0657E-01	1105914	12	198
-4.0000E-01	5.1340E-01	-3.0000E-01	5.1866E-01	-2.0000E-01	5.2233E-01	1105914	12	199
-1.0000E-01	5.2443E-01	0.	5.2549E-01	1.0000E-01	5.2443E-01	1105914	12	200
2.0000E-01	5.2233E-01	3.0000E-01	5.1866E-01	4.0000E-01	5.1340E-01	1105914	12	201
5.0000E-01	5.0657E-01	6.0000E-01	4.9816E-01	7.0000E-01	4.8765E-01	1105914	12	202
8.0000E-01	4.7609E-01	9.0000E-01	4.6401E-01	1.0000E+00	4.4929E-01	1105914	12	203
0.	0.	0	0	C	0105914	0	204	
1.1023E+04	2.2786E+01	0	2	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	1105914	13	6
-7.0000E-01	4.8665E-01	-6.0000E-01	4.9764E-01	-5.0000E-01	5.0703E-01	1105914	13	7
-4.0000E-01	5.1497E-01	-3.0000E-01	5.2120E-01	-2.0000E-01	5.2537E-01	1105914	13	8
-1.0000E-01	5.2808E-01	0.	5.2914E-01	1.0000E-01	5.2808E-01	1105914	13	9
2.0000E-01	5.2537E-01	3.0000E-01	5.2120E-01	4.0000E-01	5.1497E-01	1105914	13	10
5.0000E-01	5.0703E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8665E-01	1105914	13	11
8.0000E-01	4.7320E-01	9.0000E-01	4.5845E-01	1.0000E+00	4.4288E-01	1105914	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	1105914	13	15
-7.0000E-01	4.8673E-01	-6.0000E-01	4.9793E-01	-5.0000E-01	5.0690E-01	1105914	13	16
-4.0000E-01	5.1483E-01	-3.0000E-01	5.2062E-01	-2.0000E-01	5.2491E-01	1105914	13	17
-1.0000E-01	5.2750E-01	0.	5.2855E-01	1.0000E-01	5.2750E-01	1105914	13	18
2.0000E-01	5.2491E-01	3.0000E-01	5.2062E-01	4.0000E-01	5.1483E-01	1105914	13	19
5.0000E-01	5.0690E-01	6.0000E-01	4.9793E-01	7.0000E-01	4.8673E-01	1105914	13	20
8.0000E-01	4.7402E-01	9.0000E-01	4.5918E-01	1.0000E+00	4.4435E-01	1105914	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	1105914	13	24
-7.0000E-01	4.8614E-01	-6.0000E-01	4.9854E-01	-5.0000E-01	5.0764E-01	1105914	13	25
-4.0000E-01	5.1562E-01	-3.0000E-01	5.2145E-01	-2.0000E-01	5.2635E-01	1105914	13	26
-1.0000E-01	5.2833E-01	0.	5.2939E-01	1.0000E-01	5.2833E-01	1105914	13	27
2.0000E-01	5.2635E-01	3.0000E-01	5.2145E-01	4.0000E-01	5.1562E-01	1105914	13	28
5.0000E-01	5.0764E-01	6.0000E-01	4.9854E-01	7.0000E-01	4.8614E-01	1105914	13	29
8.0000E-01	4.7271E-01	9.0000E-01	4.5712E-01	1.0000E+00	4.4148E-01	1105914	13	30
0.	5.5000E+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	1105914	13	33
-7.0000E-01	4.8663E-01	-6.0000E-01	4.9720E-01	-5.0000E-01	5.0736E-01	1105914	13	34
-4.0000E-01	5.1575E-01	-3.0000E-01	5.2158E-01	-2.0000E-01	5.2589E-01	1105914	13	35
-1.0000E-01	5.2847E-01	0.	5.2952E-01	1.0000E-01	5.2847E-01	1105914	13	36
2.0000E-01	5.2589E-01	3.0000E-01	5.2158E-01	4.0000E-01	5.1575E-01	1105914	13	37
5.0000E-01	5.0736E-01	6.0000E-01	4.9720E-01	7.0000E-01	4.8663E-01	1105914	13	38
8.0000E-01	4.7339E-01	9.0000E-01	4.5723E-01	1.0000E+00	4.4095E-01	1105914	13	39
0.	6.0000E+00	0	0	1	21105914	13	40	
21	2					105914	13	41
-1.0000E+00	4.4150E-01	-9.0000E-01	4.5796E-01	-8.0000E-01	4.7326E-01	1105914	13	42
-7.0000E-01	4.8649E-01	-6.0000E-01	4.9741E-01	-5.0000E-01	5.0712E-01	1105914	13	43
-4.0000E-01	5.1561E-01	-3.0000E-01	5.2144E-01	-2.0000E-01	5.2565E-01	1105914	13	44
-1.0000E-01	5.2831E-01	0.	5.2937E-01	1.0000E-01	5.2831E-01	1105914	13	45
2.0000E-01	5.2565E-01	3.0000E-01	5.2144E-01	4.0000E-01	5.1561E-01	1105914	13	46
5.0000E-01	5.0712E-01	6.0000E-01	4.9741E-01	7.0000E-01	4.8649E-01	1105914	13	47
8.0000E-01	4.7326E-01	9.0000E-01	4.5796E-01	1.0000E+00	4.4150E-01	1105914	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	105914	13	51
-7.0000E-01	4.8623E-01	-6.0000E-01	4.9810E-01	-5.0000E-01	5.0686E-01	105914	13	52
-4.0000E-01	5.1522E-01	-3.0000E-01	5.2108E-01	-2.0000E-01	5.2531E-01	105914	13	53
-1.0000E-01	5.2795E-01	0.	5.2897E-01	1.0000E-01	5.2795E-01	105914	13	54
2.0000E-01	5.2531E-01	3.0000E-01	5.2108E-01	4.0000E-01	5.1522E-01	105914	13	55
5.0000E-01	5.0686E-01	6.0000E-01	4.9810E-01	7.0000E-01	4.8623E-01	105914	13	56
8.0000E-01	4.7297E-01	9.0000E-01	4.5915E-01	1.0000E+00	4.4279E-01	105914	13	57
0.	7.0000E+00	0	0	1	21105914	13	58	
21	2					105914	13	59
-1.0000E+00	4.4274E-01	-9.0000E-01	4.5899E-01	-8.0000E-01	4.7265E-01	105914	13	60
-7.0000E-01	4.8642E-01	-6.0000E-01	4.9785E-01	-5.0000E-01	5.0739E-01	105914	13	61
-4.0000E-01	5.1475E-01	-3.0000E-01	5.2098E-01	-2.0000E-01	5.2534E-01	105914	13	62
-1.0000E-01	5.2806E-01	0.	5.2870E-01	1.0000E-01	5.2806E-01	105914	13	63
2.0000E-01	5.2534E-01	3.0000E-01	5.2098E-01	4.0000E-01	5.1475E-01	105914	13	64
5.0000E-01	5.0739E-01	6.0000E-01	4.9785E-01	7.0000E-01	4.8642E-01	105914	13	65
8.0000E-01	4.7265E-01	9.0000E-01	4.5899E-01	1.0000E+00	4.4274E-01	105914	13	66
0.	7.5000E+00	0	0	1	21105914	13	67	
21	2					105914	13	68
-1.0000E+00	4.4362E-01	-9.0000E-01	4.5958E-01	-8.0000E-01	4.7289E-01	105914	13	69
-7.0000E-01	4.8668E-01	-6.0000E-01	4.9786E-01	-5.0000E-01	5.0742E-01	105914	13	70
-4.0000E-01	5.1436E-01	-3.0000E-01	5.2069E-01	-2.0000E-01	5.2497E-01	105914	13	71
-1.0000E-01	5.2764E-01	0.	5.2818E-01	1.0000E-01	5.2764E-01	105914	13	72
2.0000E-01	5.2497E-01	3.0000E-01	5.2069E-01	4.0000E-01	5.1436E-01	105914	13	73
5.0000E-01	5.0742E-01	6.0000E-01	4.9786E-01	7.0000E-01	4.8668E-01	105914	13	74
8.0000E-01	4.7289E-01	9.0000E-01	4.5958E-01	1.0000E+00	4.4362E-01	105914	13	75
0.	8.0000E+00	0	0	1	21105914	13	76	
21	2					105914	13	77
-1.0000E+00	4.4501E-01	-9.0000E-01	4.6053E-01	-8.0000E-01	4.7354E-01	105914	13	78
-7.0000E-01	4.8705E-01	-6.0000E-01	4.9791E-01	-5.0000E-01	5.0720E-01	105914	13	79
-4.0000E-01	5.1400E-01	-3.0000E-01	5.2030E-01	-2.0000E-01	5.2435E-01	105914	13	80
-1.0000E-01	5.2690E-01	0.	5.2747E-01	1.0000E-01	5.2690E-01	105914	13	81
2.0000E-01	5.2435E-01	3.0000E-01	5.2030E-01	4.0000E-01	5.1400E-01	105914	13	82
5.0000E-01	5.0720E-01	6.0000E-01	4.9791E-01	7.0000E-01	4.8705E-01	105914	13	83
8.0000E-01	4.7354E-01	9.0000E-01	4.6053E-01	1.0000E+00	4.4501E-01	105914	13	84
0.	8.5000E+00	0	0	1	21105914	13	85	
21	2					105914	13	86
-1.0000E+00	4.4690E-01	-9.0000E-01	4.6183E-01	-8.0000E-01	4.7461E-01	105914	13	87
-7.0000E-01	4.8755E-01	-6.0000E-01	4.9801E-01	-5.0000E-01	5.0674E-01	105914	13	88
-4.0000E-01	5.1368E-01	-3.0000E-01	5.1979E-01	-2.0000E-01	5.2347E-01	105914	13	89
-1.0000E-01	5.2583E-01	0.	5.2657E-01	1.0000E-01	5.2583E-01	105914	13	90
2.0000E-01	5.2347E-01	3.0000E-01	5.1979E-01	4.0000E-01	5.1368E-01	105914	13	91
5.0000E-01	5.0674E-01	6.0000E-01	4.9801E-01	7.0000E-01	4.8755E-01	105914	13	92
8.0000E-01	4.7461E-01	9.0000E-01	4.6183E-01	1.0000E+00	4.4690E-01	105914	13	93
0.	9.0000E+00	0	0	1	21105914	13	94	
21	2					105914	13	95
-1.0000E+00	4.4929E-01	-9.0000E-01	4.6348E-01	-8.0000E-01	4.76C9E-01	105914	13	96
-7.0000E-01	4.8818E-01	-6.0000E-01	4.9816E-01	-5.0000E-01	5.06C4E-01	105914	13	97
-4.0000E-01	5.1340E-01	-3.0000E-01	5.1918E-01	-2.0000E-01	5.2233E-01	105914	13	98
-1.0000E-01	5.2443E-01	0.	5.2549E-01	1.0000E-01	5.2443E-01	105914	13	99
2.0000E-01	5.2233E-01	3.0000E-01	5.1918E-01	4.0000E-01	5.1340E-01	105914	13	100
5.0000E-01	5.0604E-01	6.0000E-01	4.9816E-01	7.0000E-01	4.8818E-01	105914	13	101
8.0000E-01	4.7609E-01	9.0000E-01	4.6348E-01	1.0000E+00	4.4929E-01	105914	13	102
3.9150E+00	3.4758E+00	0	0	1	11105914	13	103	
11	2					105914	13	104
0.	4.0850E+00	0	0	1	21105914	13	105	
21	2					105914	13	106
-1.0000E+00	4.4288E-01	-9.0000E-01	4.5845E-01	-8.0000E-01	4.7320E-01	105914	13	107
-7.0000E-01	4.8665E-01	-6.0000E-01	4.9764E-01	-5.0000E-01	5.0703E-01	105914	13	108
-4.0000E-01	5.1497E-01	-3.0000E-01	5.2120E-01	-2.0000E-01	5.2537E-01	105914	13	109
-1.0000E-01	5.2808E-01	0.	5.2914E-01	1.0000E-01	5.2808E-01	105914	13	110
2.0000E-01	5.2537E-01	3.0000E-01	5.2120E-01	4.0000E-01	5.1497E-01	105914	13	111
5.0000E-01	5.0703E-01	6.0000E-01	4.9764E-01	7.0000E-01	4.8665E-01	105914	13	112
8.0000E-01	4.7320E-01	9.0000E-01	4.5845E-01	1.0000E+00	4.4288E-01	105914	13	113
0.	4.5000E+00	0	0	1	21105914	13	114	

21	2					105914	13
-1.0000E+00	4.4435E-01-9.0000E-01	4.5918E-01-8.0000E-01	4.7402E-01105914	13	115		
-7.0000E-01	4.8673E-01-6.0000E-01	4.9793E-01-5.0000E-01	5.0690E-01105914	13	116		
-4.0000E-01	5.1483E-01-3.0000E-01	5.2062E-01-2.0000E-01	5.2491E-01105914	13	117		
-1.0000E-01	5.2750E-01 0.	5.2855E-01 1.0000E-01	5.2750E-01105914	13	118		
2.0000E-01	5.2491E-01 3.0000E-01	5.2062E-01 4.0000E-01	5.1483E-01105914	13	119		
5.0000E-01	5.0690E-01 6.0000E-01	4.9793E-01 7.0000E-01	4.8673E-01105914	13	120		
8.0000E-01	4.7402E-01 9.0000E-01	4.5918E-01 1.0000E+00	4.4435E-01105914	13	121		
0.	5.0000E+00	0	0	1	21105914	13	122
21	2					105914	13
-1.0000E+00	4.4148E-01-9.0000E-01	4.5712E-01-8.0000E-01	4.7271E-01105914	13	123		
-7.0000E-01	4.8614E-01-6.0000E-01	4.9854E-01-5.0000E-01	5.0764E-01105914	13	124		
-4.0000E-01	5.1562E-01-3.0000E-01	5.2145E-01-2.0000E-01	5.2635E-01105914	13	125		
-1.0000E-01	5.2833E-01 0.	5.2939E-01 1.0000E-01	5.2833E-01105914	13	126		
2.0000E-01	5.2635E-01 3.0000E-01	5.2145E-01 4.0000E-01	5.1562E-01105914	13	127		
5.0000E-01	5.0764E-01 6.0000E-01	4.9854E-01 7.0000E-01	4.8614E-01105914	13	128		
8.0000E-01	4.7271E-01 9.0000E-01	4.5712E-01 1.0000E+00	4.4148E-01105914	13	129		
0.	5.5000E+00	0	0	1	21105914	13	130
21	2					105914	13
-1.0000E+00	4.4095E-01-9.0000E-01	4.5723E-01-8.0000E-01	4.7339E-01105914	13	131		
-7.0000E-01	4.8663E-01-6.0000E-01	4.9720E-01-5.0000E-01	5.0736E-01105914	13	132		
-4.0000E-01	5.1575E-01-3.0000E-01	5.2158E-01-2.0000E-01	5.2589E-01105914	13	133		
-1.0000E-01	5.2847E-01 0.	5.2952E-01 1.0000E-01	5.2847E-01105914	13	134		
2.0000E-01	5.2589E-01 3.0000E-01	5.2158E-01 4.0000E-01	5.1575E-01105914	13	135		
5.0000E-01	5.0736E-01 6.0000E-01	4.9720E-01 7.0000E-01	4.8663E-01105914	13	136		
8.0000E-01	4.7339E-01 9.0000E-01	4.5723E-01 1.0000E+00	4.4095E-01105914	13	137		
0.	6.0000E+00	0	0	1	21105914	13	138
21	2					105914	13
-1.0000E+00	4.4150E-01-9.0000E-01	4.5796E-01-8.0000E-01	4.7326E-01105914	13	139		
-7.0000E-01	4.8649E-01-6.0000E-01	4.9741E-01-5.0000E-01	5.0712E-01105914	13	140		
-4.0000E-01	5.1561E-01-3.0000E-01	5.2144E-01-2.0000E-01	5.2565E-01105914	13	141		
-1.0000E-01	5.2831E-01 0.	5.2937E-01 1.0000E-01	5.2831E-01105914	13	142		
2.0000E-01	5.2565E-01 3.0000E-01	5.2144E-01 4.0000E-01	5.1561E-01105914	13	143		
5.0000E-01	5.0712E-01 6.0000E-01	4.9741E-01 7.0000E-01	4.8649E-01105914	13	144		
8.0000E-01	4.7326E-01 9.0000E-01	4.5796E-01 1.0000E+00	4.4150E-01105914	13	145		
0.	6.5000E+00	0	0	1	21105914	13	146
21	2					105914	13
-1.0000E+00	4.4279E-01-9.0000E-01	4.5915E-01-8.0000E-01	4.7297E-01105914	13	147		
-7.0000E-01	4.8623E-01-6.0000E-01	4.9810E-01-5.0000E-01	5.0686E-01105914	13	148		
-4.0000E-01	5.1522E-01-3.0000E-01	5.2108E-01-2.0000E-01	5.2531E-01105914	13	149		
-1.0000E-01	5.2795E-01 0.	5.2897E-01 1.0000E-01	5.2795E-01105914	13	150		
2.0000E-01	5.2531E-01 3.0000E-01	5.2108E-01 4.0000E-01	5.1522E-01105914	13	151		
5.0000E-01	5.0686E-01 6.0000E-01	4.9810E-01 7.0000E-01	4.8623E-01105914	13	152		
8.0000E-01	4.7297E-01 9.0000E-01	4.5915E-01 1.0000E+00	4.4279E-01105914	13	153		
0.	7.0000E+00	0	0	1	21105914	13	154
21	2					105914	13
-1.0000E+00	4.4274E-01-9.0000E-01	4.5899E-01-8.0000E-01	4.7297E-01105914	13	155		
-7.0000E-01	4.8623E-01-6.0000E-01	4.9810E-01-5.0000E-01	5.0686E-01105914	13	156		
-4.0000E-01	5.1522E-01-3.0000E-01	5.2108E-01-2.0000E-01	5.2531E-01105914	13	157		
-1.0000E-01	5.2795E-01 0.	5.2897E-01 1.0000E-01	5.2795E-01105914	13	158		
2.0000E-01	5.2531E-01 3.0000E-01	5.2108E-01 4.0000E-01	5.1522E-01105914	13	159		
5.0000E-01	5.0739E-01 6.0000E-01	4.9785E-01 7.0000E-01	4.8642E-01105914	13	160		
8.0000E-01	4.7265E-01 9.0000E-01	4.5899E-01 1.0000E+00	4.4274E-01105914	13	161		
0.	7.5000E+00	0	0	1	21105914	13	162
21	2					105914	13
-1.0000E+00	4.4274E-01-9.0000E-01	4.5899E-01-8.0000E-01	4.7265E-01105914	13	163		
-7.0000E-01	4.8642E-01-6.0000E-01	4.9785E-01-5.0000E-01	5.0739E-01105914	13	164		
-4.0000E-01	5.1475E-01-3.0000E-01	5.2098E-01-2.0000E-01	5.2534E-01105914	13	165		
-1.0000E-01	5.2806E-01 0.	5.2870E-01 1.0000E-01	5.2806E-01105914	13	166		
2.0000E-01	5.2534E-01 3.0000E-01	5.2098E-01 4.0000E-01	5.1475E-01105914	13	167		
5.0000E-01	5.0739E-01 6.0000E-01	4.9785E-01 7.0000E-01	4.8642E-01105914	13	168		
8.0000E-01	4.7265E-01 9.0000E-01	4.5899E-01 1.0000E+00	4.4274E-01105914	13	169		
0.	7.5000E+00	0	0	1	21105914	13	170
21	2					105914	13
-1.0000E+00	4.4362E-01-9.0000E-01	4.5958E-01-8.0000E-01	4.7289E-01105914	13	171		
-7.0000E-01	4.8668E-01-6.0000E-01	4.9786E-01-5.0000E-01	5.0742E-01105914	13	172		
-4.0000E-01	5.1436E-01-3.0000E-01	5.2069E-01-2.0000E-01	5.2497E-01105914	13	173		
-1.0000E-01	5.2764E-01 0.	5.2818E-01 1.0000E-01	5.2764E-01105914	13	174		
2.0000E-01	5.2497E-01 3.0000E-01	5.2069E-01 4.0000E-01	5.1436E-01105914	13	175		
5.0000E-01	5.0742E-01 6.0000E-01	4.9786E-01 7.0000E-01	4.8668E-01105914	13	176		
8.0000E-01	4.7289E-01 9.0000E-01	4.5958E-01 1.0000E+00	4.4362E-01105914	13	177		
0.	8.0000E+00	0	0	1	21105914	13	178
21	2					105914	13
-1.0000E+00	4.4501E-01-9.0000E-01	4.6053E-01-8.0000E-01	4.7354E-01105914	13	179		
-7.0000E-01	4.8705E-01-6.0000E-01	4.9791E-01-5.0000E-01	5.0720E-01105914	13	180		
-4.0000E-01	5.1400E-01-3.0000E-01	5.2030E-01-2.0000E-01	5.2435E-01105914	13	181		
-1.0000E-01	5.2690E-01 0.	5.2747E-01 1.0000E-01	5.2690E-01105914	13	182		
2.0000E-01	5.2435E-01 3.0000E-01	5.2030E-01 4.0000E-01	5.1400E-01105914	13	183		
5.0000E-01	5.0720E-01 6.0000E-01	4.9791E-01 7.0000E-01	4.8705E-01105914	13	184		
8.0000E-01	4.7354E-01 9.0000E-01	4.6053E-01 1.0000E+00	4.4501E-01105914	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-01105914	13	188			
-7.0000E-01	4.8755E-01-6.0000E-01	4.9801E-01-5.0000E-01	5.0674E-01105914	13	189			
-4.0000E-01	5.1368E-01-3.0000E-01	5.1979E-01-2.0000E-01	5.2347E-01105914	13	190			
-1.0000E-01	5.2583E-01 0.	5.2657E-01 1.0000E-01	5.2583E-01105914	13	191			
2.0000E-01	5.2347E-01 3.0000E-01	5.1979E-01 4.0000E-01	5.1368E-01105914	13	192			
5.0000E-01	5.0674E-01 6.0000E-01	4.9801E-01 7.0000E-01	4.8755E-01105914	13	193			
8.0000E-01	4.7461E-01 9.0000E-01	4.6183E-01 1.0000E+0C	4.4690E-01105914	13	194			
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	4.76C9E-01105914	13	197			
-7.0000E-01	4.8818E-01-6.0000E-01	4.9816E-01-5.0000E-01	5.06C4E-01105914	13	198			
-4.0000E-01	5.1340E-01-3.0000E-01	5.1918E-01-2.0000E-01	5.2233E-01105914	13	199			
-1.0000E-01	5.2443E-01 0.	5.2549E-01 1.0000E-01	5.2443E-01105914	13	200			
2.0000E-01	5.2233E-01 3.0000E-01	5.1918E-01 4.0000E-01	5.1340E-01105914	13	201			
5.0000E-01	5.0604E-01 6.0000E-01	4.9816E-01 7.0000E-01	4.8818E-01105914	13	202			
8.0000E-01	4.7609E-01 9.0000E-01	4.6348E-01 1.0000E+0C	4.4929E-01105914	13	203			
0.	0.	0	0	0	0105914	0	204	
11023.0	22.786	1	2	1	0105914	14	1	
0.0	0.0	0	0	C	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	
9	2				105914	51	3	
0.	4.9860E+00	0	0	1	21105914	51	4	
21	2				105914	51	5	
-1.0000E+00	4.3970E-01-9.0000E-01	4.5727E-01-8.0000E-01	4.7058E-01105914	51	6			
-7.0000E-01	4.8655E-01-6.0000E-01	4.9400E-01-5.0000E-01	5.0359E-01105914	51	7			
-4.0000E-01	5.1743E-01-3.0000E-01	5.2328E-01-2.0000E-01	5.28C7E-01105914	51	8			
-1.0000E-01	5.3127E-01 0.	5.3233E-01 1.0000E-01	5.3127E-01105914	51	9			
2.0000E-01	5.2807E-01 3.0000E-01	5.2328E-01 4.0000E-01	5.1743E-01105914	51	10			
5.0000E-01	5.0359E-01 6.0000E-01	4.9400E-01 7.0000E-01	4.8655E-01105914	51	11			
8.0000E-01	4.7058E-01 9.0000E-01	4.5727E-01 1.0000E+0C	4.3970E-01105914	51	12			
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-01105914	51	15			
-7.0000E-01	4.8515E-01-6.0000E-01	4.9670E-01-5.0000E-01	5.0711E-01105914	51	16			
-4.0000E-01	5.1645E-01-3.0000E-01	5.2270E-01-2.0000E-01	5.2749E-01105914	51	17			
-1.0000E-01	5.3023E-01 0.	5.3129E-01 1.0000E-01	5.3023E-01105914	51	18			
2.0000E-01	5.2749E-01 3.0000E-01	5.2270E-01 4.0000E-01	5.1645E-01105914	51	19			
5.0000E-01	5.0711E-01 6.0000E-01	4.9670E-01 7.0000E-01	4.8515E-01105914	51	20			
8.0000E-01	4.7129E-01 9.0000E-01	4.5642E-01 1.0000E+0C	4.384CE-01105914	51	21			
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	4.7166E-01105914	51	24			
-7.0000E-01	4.8466E-01-6.0000E-01	4.9806E-01-5.0000E-01	5.0875E-01105914	51	25			
-4.0000E-01	5.1589E-01-3.0000E-01	5.2233E-01-2.0000E-01	5.2711E-01105914	51	26			
-1.0000E-01	5.2977E-01 0.	5.3083E-01 1.0000E-01	5.2977E-01105914	51	27			
2.0000E-01	5.2711E-01 3.0000E-01	5.2233E-01 4.0000E-01	5.1589E-01105914	51	28			
5.0000E-01	5.0875E-01 6.0000E-01	4.9806E-01 7.0000E-01	4.8466E-01105914	51	29			
8.0000E-01	4.7168E-01 9.0000E-01	4.5591E-01 1.0000E+0C	4.3795E-01105914	51	30			
0.	6.5000E+00	0	0	1	21105914	51	31	
21	2				105914	51	32	
-1.0000E+00	4.3647E-01-9.0000E-01	4.5569E-01-8.0000E-01	4.7161E-01105914	51	33			
-7.0000E-01	4.8531E-01-6.0000E-01	4.9769E-01-5.0000E-01	5.0790E-01105914	51	34			
-4.0000E-01	5.1587E-01-3.0000E-01	5.2229E-01-2.0000E-01	5.2711E-01105914	51	35			
-1.0000E-01	5.3023E-01 0.	5.3129E-01 1.0000E-01	5.3023E-01105914	51	36			
2.0000E-01	5.2711E-01 3.0000E-01	5.2229E-01 4.0000E-01	5.1587E-01105914	51	37			
5.0000E-01	5.0790E-01 6.0000E-01	4.9769E-01 7.0000E-01	4.8531E-01105914	51	38			
8.0000E-01	4.7161E-01 9.0000E-01	4.5569E-01 1.0000E+0C	4.3847E-01105914	51	39			
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-01105914	51	42			
-7.0000E-01	4.8586E-01-6.0000E-01	4.9780E-01-5.0000E-01	5.0773E-01105914	51	43			
-4.0000E-01	5.1569E-01-3.0000E-01	5.2196E-01-2.0000E-01	5.2663E-01105914	51	44			
-1.0000E-01	5.2987E-01 0.	5.3093E-01 1.0000E-01	5.2987E-01105914	51	45			
2.0000E-01	5.2663E-01 3.0000E-01	5.2196E-01 4.0000E-01	5.1569E-01105914	51	46			
5.0000E-01	5.0773E-01 6.0000E-01	4.9780E-01 7.0000E-01	4.8586E-01105914	51	47			
8.0000E-01	4.7189E-01 9.0000E-01	4.5602E-01 1.0000E+0C	4.3934E-01105914	51	48			
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	51	58
21	2				105914	51	59
-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	5.15C5E-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	4.42C7E-01	105914	51
0.	8.5000E+00	0	0	1	21105914	51	67
21	2				105914	51	68
-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	5.24C2E-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	76
21	2				105914	51	77
-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	5.23C2E-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	5.13C2E-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	51	85
9	2				105914	51	86
0.	4.9860E+00	0	0	1	21105914	51	87
21	2				105914	51	88
-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	5.28C7E-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	96
21	2				105914	51	97
-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	105
21	2				105914	51	106
-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	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	116
-7.0000E-01	4.8531E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0790E-01	105914	51	117
-4.0000E-01	5.1587E-01	-3.0000E-01	5.2229E-01	-2.0000E-01	5.2711E-01	105914	51	118
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914	51	119
2.0000E-01	5.2711E-01	3.0000E-01	5.2229E-01	4.0000E-01	5.1587E-01	105914	51	120
5.0000E-01	5.0790E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8531E-01	105914	51	121
8.0000E-01	4.7161E-01	9.0000E-01	4.5569E-01	1.0000E+00	4.3847E-01	105914	51	122
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	125
-7.0000E-01	4.8586E-01	-6.0000E-01	4.9780E-01	-5.0000E-01	5.0773E-01	105914	51	126
-4.0000E-01	5.1569E-01	-3.0000E-01	5.2196E-01	-2.0000E-01	5.2663E-01	105914	51	127
-1.0000E-01	5.2987E-01	0.	5.3093E-01	1.0000E-01	5.2987E-01	105914	51	128
2.0000E-01	5.2663E-01	3.0000E-01	5.2196E-01	4.0000E-01	5.1569E-01	105914	51	129
5.0000E-01	5.0773E-01	6.0000E-01	4.9780E-01	7.0000E-01	4.8586E-01	105914	51	130
8.0000E-01	4.7189E-01	9.0000E-01	4.5602E-01	1.0000E+00	4.3934E-01	105914	51	131
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	134
-7.0000E-01	4.8675E-01	-6.0000E-01	4.9800E-01	-5.0000E-01	5.0760E-01	105914	51	135
-4.0000E-01	5.1559E-01	-3.0000E-01	5.2148E-01	-2.0000E-01	5.2578E-01	105914	51	136
-1.0000E-01	5.2901E-01	0.	5.3007E-01	1.0000E-01	5.2901E-01	105914	51	137
2.0000E-01	5.2578E-01	3.0000E-01	5.2148E-01	4.0000E-01	5.1559E-01	105914	51	138
5.0000E-01	5.0760E-01	6.0000E-01	4.9800E-01	7.0000E-01	4.8675E-01	105914	51	139
8.0000E-01	4.7240E-01	9.0000E-01	4.5691E-01	1.0000E+00	4.4088E-01	105914	51	140
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	143
-7.0000E-01	4.8688E-01	-6.0000E-01	4.9783E-01	-5.0000E-01	5.0727E-01	105914	51	144
-4.0000E-01	5.1505E-01	-3.0000E-01	5.2079E-01	-2.0000E-01	5.2494E-01	105914	51	145
-1.0000E-01	5.2797E-01	0.	5.2903E-01	1.0000E-01	5.2797E-01	105914	51	146
2.0000E-01	5.2494E-01	3.0000E-01	5.2079E-01	4.0000E-01	5.1505E-01	105914	51	147
5.0000E-01	5.0727E-01	6.0000E-01	4.9783E-01	7.0000E-01	4.8688E-01	105914	51	148
8.0000E-01	4.7282E-01	9.0000E-01	4.5778E-01	1.0000E+00	4.4207E-01	105914	51	149
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	152
-7.0000E-01	4.8652E-01	-6.0000E-01	4.9740E-01	-5.0000E-01	5.0680E-01	105914	51	153
-4.0000E-01	5.1420E-01	-3.0000E-01	5.1990E-01	-2.0000E-01	5.24C2E-01	105914	51	154
-1.0000E-01	5.2668E-01	0.	5.2773E-01	1.0000E-01	5.2668E-01	105914	51	155
2.0000E-01	5.2402E-01	3.0000E-01	5.1990E-01	4.0000E-01	5.1420E-01	105914	51	156
5.0000E-01	5.0680E-01	6.0000E-01	4.9740E-01	7.0000E-01	4.8652E-01	105914	51	157
8.0000E-01	4.7320E-01	9.0000E-01	4.5877E-01	1.0000E+00	4.4314E-01	105914	51	158
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	161
-7.0000E-01	4.8566E-01	-6.0000E-01	4.9671E-01	-5.0000E-01	5.0618E-01	105914	51	162
-4.0000E-01	5.1302E-01	-3.0000E-01	5.1881E-01	-2.0000E-01	5.2302E-01	105914	51	163
-1.0000E-01	5.2512E-01	0.	5.2618E-01	1.0000E-01	5.2512E-01	105914	51	164
2.0000E-01	5.2302E-01	3.0000E-01	5.1881E-01	4.0000E-01	5.13C2E-01	105914	51	165
5.0000E-01	5.0618E-01	6.0000E-01	4.9671E-01	7.0000E-01	4.8566E-01	105914	51	166
8.0000E-01	4.7356E-01	9.0000E-01	4.5988E-01	1.0000E+00	4.4410E-01	105914	51	167
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	172
-7.0000E-01	4.8655E-01	-6.0000E-01	4.9400E-01	-5.0000E-01	5.0359E-01	105914	51	173
-4.0000E-01	5.1743E-01	-3.0000E-01	5.2328E-01	-2.0000E-01	5.2807E-01	105914	51	174
-1.0000E-01	5.3127E-01	0.	5.3233E-01	1.0000E-01	5.3127E-01	105914	51	175
2.0000E-01	5.2807E-01	3.0000E-01	5.2328E-01	4.0000E-01	5.1743E-01	105914	51	176
5.0000E-01	5.0359E-01	6.0000E-01	4.9400E-01	7.0000E-01	4.8655E-01	105914	51	177
8.0000E-01	4.7058E-01	9.0000E-01	4.5727E-01	1.0000E+00	4.3970E-01	105914	51	178
0.	5.5000E+00	0	0	1	21105914	51	179	



	9	2					
0.	4.9860E+00	0	0	1	105914	51	252
21	2				21105914	51	253
-1.0000E+00	4.3970E-01-9.0000E-01	4.5727E-01-8.0000E-01	4.7058E-01105914	51	254		
-7.0000E-01	4.8655E-01-6.0000E-01	4.9400E-01-5.0000E-01	5.0359E-01105914	51	255		
-4.0000E-01	5.1743E-01-3.0000E-01	5.2328E-01-2.0000E-01	5.2807E-01105914	51	256		
-1.0000E-01	5.3127E-01 0.	5.3233E-01 1.0000E-01	5.3127E-01105914	51	257		
2.0000E-01	5.2807E-01 3.0000E-01	5.2328E-01 4.0000E-01	5.1743E-01105914	51	259		
5.0000E-01	5.0359E-01 6.0000E-01	4.9400E-01 7.0000E-01	4.8655E-01105914	51	260		
8.0000E-01	4.7058E-01 9.0000E-01	4.5727E-01 1.0000E+00	4.3970E-01105914	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-01105914	51	264		
-7.0000E-01	4.8515E-01-6.0000E-01	4.9670E-01-5.0000E-01	5.0711E-01105914	51	265		
-4.0000E-01	5.1645E-01-3.0000E-01	5.2270E-01-2.0000E-01	5.2749E-01105914	51	266		
-1.0000E-01	5.3023E-01 0.	5.3129E-01 1.0000E-01	5.3023E-01105914	51	267		
2.0000E-01	5.2749E-01 3.0000E-01	5.2270E-01 4.0000E-01	5.1645E-01105914	51	268		
5.0000E-01	5.0711E-01 6.0000E-01	4.9670E-01 7.0000E-01	4.8515E-01105914	51	269		
8.0000E-01	4.7129E-01 9.0000E-01	4.5642E-01 1.0000E+00	4.3840E-01105914	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-01105914	51	273		
-7.0000E-01	4.8466E-01-6.0000E-01	4.9806E-01-5.0000E-01	5.0875E-01105914	51	274		
-4.0000E-01	5.1589E-01-3.0000E-01	5.2233E-01-2.0000E-01	5.2711E-01105914	51	275		
-1.0000E-01	5.2977E-01 0.	5.3083E-01 1.0000E-01	5.2977E-01105914	51	276		
2.0000E-01	5.2711E-01 3.0000E-01	5.2233E-01 4.0000E-01	5.1589E-01105914	51	277		
5.0000E-01	5.0875E-01 6.0000E-01	4.9806E-01 7.0000E-01	4.8466E-01105914	51	278		
8.0000E-01	4.7168E-01 9.0000E-01	4.5591E-01 1.0000E+00	4.3795E-01105914	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-01105914	51	282		
-7.0000E-01	4.8531E-01-6.0000E-01	4.9769E-01-5.0000E-01	5.0790E-01105914	51	283		
-4.0000E-01	5.1587E-01-3.0000E-01	5.2229E-01-2.0000E-01	5.2711E-01105914	51	284		
-1.0000E-01	5.3023E-01 0.	5.3129E-01 1.0000E-01	5.3023E-01105914	51	285		
2.0000E-01	5.2711E-01 3.0000E-01	5.2229E-01 4.0000E-01	5.1587E-01105914	51	286		
5.0000E-01	5.0790E-01 6.0000E-01	4.9769E-01 7.0000E-01	4.8531E-01105914	51	287		
8.0000E-01	4.7161E-01 9.0000E-01	4.5569E-01 1.0000E+00	4.3847E-01105914	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-01105914	51	291		
-7.0000E-01	4.8586E-01-6.0000E-01	4.9780E-01-5.0000E-01	5.0773E-01105914	51	292		
-4.0000E-01	5.1569E-01-3.0000E-01	5.2196E-01-2.0000E-01	5.2663E-01105914	51	293		
-1.0000E-01	5.2987E-01 0.	5.3093E-01 1.0000E-01	5.2987E-01105914	51	294		
2.0000E-01	5.2663E-01 3.0000E-01	5.2196E-01 4.0000E-01	5.1569E-01105914	51	295		
5.0000E-01	5.0773E-01 6.0000E-01	4.9780E-01 7.0000E-01	4.8586E-01105914	51	296		
8.0000E-01	4.7189E-01 9.0000E-01	4.5602E-01 1.0000E+00	4.3934E-01105914	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	4.724CE-01105914	51	300		
-7.0000E-01	4.8675E-01-6.0000E-01	4.9800E-01-5.0000E-01	5.0760E-01105914	51	301		
-4.0000E-01	5.1559E-01-3.0000E-01	5.2148E-01-2.0000E-01	5.2578E-01105914	51	302		
-1.0000E-01	5.2901E-01 0.	5.3007E-01 1.0000E-01	5.2901E-01105914	51	303		
2.0000E-01	5.2578E-01 3.0000E-01	5.2148E-01 4.0000E-01	5.1559E-01105914	51	304		
5.0000E-01	5.0760E-01 6.0000E-01	4.9800E-01 7.0000E-01	4.8675E-01105914	51	305		
8.0000E-01	4.7240E-01 9.0000E-01	4.5691E-01 1.0000E+00	4.4088E-01105914	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-01105914	51	309		
-7.0000E-01	4.8688E-01-6.0000E-01	4.9783E-01-5.0000E-01	5.0727E-01105914	51	310		
-4.0000E-01	5.1505E-01-3.0000E-01	5.2079E-01-2.0000E-01	5.2494E-01105914	51	311		
-1.0000E-01	5.2797E-01 0.	5.2903E-01 1.0000E-01	5.2797E-01105914	51	312		
2.0000E-01	5.2494E-01 3.0000E-01	5.2079E-01 4.0000E-01	5.1505E-01105914	51	313		
5.0000E-01	5.0727E-01 6.0000E-01	4.9783E-01 7.0000E-01	4.8688E-01105914	51	314		
8.0000E-01	4.7282E-01 9.0000E-01	4.5778E-01 1.0000E+00	4.4207E-01105914	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	
9	2					105914	51	335
0.	4.9860E+00	0	0	1	21105914	51	336	
21	2					105914	51	337
-1.0000E+00	4.3970E-01	-9.0000E-01	4.5727E-01	-8.0000E-01	4.7058E-01	105914	51	338
-7.0000E-01	4.8655E-01	-6.0000E-01	4.9400E-01	-5.0000E-01	5.0359E-01	105914	51	339
-4.0000E-01	5.1743E-01	-3.0000E-01	5.2328E-01	-2.0000E-01	5.2807E-01	105914	51	340
-1.0000E-01	5.3127E-01	0.	5.3233E-01	1.0000E-01	5.3127E-01	105914	51	341
2.0000E-01	5.2807E-01	3.0000E-01	5.2328E-01	4.0000E-01	5.1743E-01	105914	51	342
5.0000E-01	5.0359E-01	6.0000E-01	4.9400E-01	7.0000E-01	4.8655E-01	105914	51	343
8.0000E-01	4.7058E-01	9.0000E-01	4.5727E-01	1.0000E+00	4.3970E-01	105914	51	344
0.	5.5000E+00	0	0	1	21105914	51	345	
21	2					105914	51	346
-1.0000E+00	4.3840E-01	-9.0000E-01	4.5642E-01	-8.0000E-01	4.7129E-01	105914	51	347
-7.0000E-01	4.8515E-01	-6.0000E-01	4.9670E-01	-5.0000E-01	5.0711E-01	105914	51	348
-4.0000E-01	5.1645E-01	-3.0000E-01	5.2270E-01	-2.0000E-01	5.2749E-01	105914	51	349
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914	51	350
2.0000E-01	5.2749E-01	3.0000E-01	5.2270E-01	4.0000E-01	5.1645E-01	105914	51	351
5.0000E-01	5.0711E-01	6.0000E-01	4.9670E-01	7.0000E-01	4.8515E-01	105914	51	352
8.0000E-01	4.7129E-01	9.0000E-01	4.5642E-01	1.0000E+00	4.3840E-01	105914	51	353
0.	6.0000E+00	0	0	1	21105914	51	354	
21	2					105914	51	355
-1.0000E+00	4.3795E-01	-9.0000E-01	4.5591E-01	-8.0000E-01	4.7168E-01	105914	51	356
-7.0000E-01	4.8466E-01	-6.0000E-01	4.9806E-01	-5.0000E-01	5.0875E-01	105914	51	357
-4.0000E-01	5.1589E-01	-3.0000E-01	5.2233E-01	-2.0000E-01	5.2711E-01	105914	51	358
-1.0000E-01	5.2977E-01	0.	5.3083E-01	1.0000E-01	5.2977E-01	105914	51	359
2.0000E-01	5.2711E-01	3.0000E-01	5.2233E-01	4.0000E-01	5.1589E-01	105914	51	360
5.0000E-01	5.0875E-01	6.0000E-01	4.9806E-01	7.0000E-01	4.8466E-01	105914	51	361
8.0000E-01	4.7168E-01	9.0000E-01	4.5591E-01	1.0000E+00	4.3795E-01	105914	51	362
0.	6.5000E+00	0	0	1	21105914	51	363	
21	2					105914	51	364
-1.0000E+00	4.3847E-01	-9.0000E-01	4.5569E-01	-8.0000E-01	4.7161E-01	105914	51	365
-7.0000E-01	4.8531E-01	-6.0000E-01	4.9769E-01	-5.0000E-01	5.0790E-01	105914	51	366
-4.0000E-01	5.1587E-01	-3.0000E-01	5.2229E-01	-2.0000E-01	5.2711E-01	105914	51	367
-1.0000E-01	5.3023E-01	0.	5.3129E-01	1.0000E-01	5.3023E-01	105914	51	368
2.0000E-01	5.2711E-01	3.0000E-01	5.2229E-01	4.0000E-01	5.1587E-01	105914	51	369
5.0000E-01	5.0790E-01	6.0000E-01	4.9769E-01	7.0000E-01	4.8531E-01	105914	51	370
8.0000E-01	4.7161E-01	9.0000E-01	4.5569E-01	1.0000E+00	4.3847E-01	105914	51	371
0.	7.0000E+00	0	0	1	21105914	51	372	
21	2					105914	51	373
-1.0000E+00	4.3934E-01	-9.0000E-01	4.5602E-01	-8.0000E-01	4.7189E-01	105914	51	374
-7.0000E-01	4.8586E-01	-6.0000E-01	4.9780E-01	-5.0000E-01	5.0773E-01	105914	51	375
-4.0000E-01	5.1569E-01	-3.0000E-01	5.2196E-01	-2.0000E-01	5.2663E-01	105914	51	376
-1.0000E-01	5.2987E-01	0.	5.3093E-01	1.0000E-01	5.2987E-01	105914	51	377
2.0000E-01	5.2663E-01	3.0000E-01	5.2196E-01	4.0000E-01	5.1569E-01	105914	51	378
5.0000E-01	5.0773E-01	6.0000E-01	4.9780E-01	7.0000E-01	4.8586E-01	105914	51	379
8.0000E-01	4.7189E-01	9.0000E-01	4.5602E-01	1.0000E+00	4.3934E-01	105914	51	380
0.	7.5000E+00	0	0	1	21105914	51	381	

21	2					105914	51	382
-1.0000E+00	4.3796E-01-9.0000E-01	4.5691E-01-8.0000E-01	4.7240E-01105914	51		383		
-7.0000E-01	4.8675E-01-6.0000E-01	4.9800E-01-5.0000E-01	5.0760E-01105914	51		384		
-4.0000E-01	5.1559E-01-3.0000E-01	5.2148E-01-2.0000E-01	5.2578E-01105914	51		385		
-1.0000E-01	5.2901E-01 0.	5.3007E-01 1.0000E-01	5.2901E-01105914	51		386		
2.0000E-01	5.2578E-01 3.0000E-01	5.2148E-01 4.0000E-01	5.1559E-01105914	51		387		
5.0000E-01	5.0760E-01 6.0000E-01	4.9800E-01 7.0000E-01	4.8675E-01105914	51		388		
8.0000E-01	4.7240E-01 9.0000E-01	4.5691E-01 1.0000E+00	4.4088E-01105914	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-01105914	51		392		
-7.0000E-01	4.8688E-01-6.0000E-01	4.9783E-01-5.0000E-01	5.0727E-01105914	51		393		
-4.0000E-01	5.1505E-01-3.0000E-01	5.2079E-01-2.0000E-01	5.2494E-01105914	51		394		
-1.0000E-01	5.2797E-01 0.	5.2903E-01 1.0000E-01	5.2797E-01105914	51		395		
2.0000E-01	5.2494E-01 3.0000E-01	5.2079E-01 4.0000E-01	5.1505E-01105914	51		396		
5.0000E-01	5.0727E-01 6.0000E-01	4.9783E-01 7.0000E-01	4.8688E-01105914	51		397		
8.0000E-01	4.7282E-01 9.0000E-01	4.5778E-01 1.0000E+00	4.4207E-01105914	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-01105914	51		401		
-7.0000E-01	4.8652E-01-6.0000E-01	4.9740E-01-5.0000E-01	5.0680E-01105914	51		402		
-4.0000E-01	5.1420E-01-3.0000E-01	5.1990E-01-2.0000E-01	5.2402E-01105914	51		403		
-1.0000E-01	5.2668E-01 0.	5.2773E-01 1.0000E-01	5.2668E-01105914	51		404		
2.0000E-01	5.2402E-01 3.0000E-01	5.1990E-01 4.0000E-01	5.1420E-01105914	51		405		
5.0000E-01	5.0680E-01 6.0000E-01	4.9740E-01 7.0000E-01	4.8652E-01105914	51		406		
8.0000E-01	4.7320E-01 9.0000E-01	4.5877E-01 1.0000E+00	4.4314E-01105914	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-01105914	51		410		
-7.0000E-01	4.8566E-01-6.0000E-01	4.9671E-01-5.0000E-01	5.0618E-01105914	51		411		
-4.0000E-01	5.1302E-01-3.0000E-01	5.1881E-01-2.0000E-01	5.2302E-01105914	51		412		
-1.0000E-01	5.2512E-01 0.	5.2618E-01 1.0000E-01	5.2512E-01105914	51		413		
2.0000E-01	5.2302E-01 3.0000E-01	5.1881E-01 4.0000E-01	5.1302E-01105914	51		414		
5.0000E-01	5.0618E-01 6.0000E-01	4.9671E-01 7.0000E-01	4.8566E-01105914	51		415		
8.0000E-01	4.7356E-01 9.0000E-01	4.5988E-01 1.0000E+00	4.4410E-01105914	51		416		
0.	0.	0	0	C		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-01105914	53		6		
-7.0000E-01	4.7778E-01-6.0000E-01	4.9940E-01-5.0000E-01	5.0928E-01105914	53		7		
-4.0000E-01	5.1880E-01-3.0000E-01	5.2677E-01-2.0000E-01	5.3657E-01105914	53		8		
-1.0000E-01	5.4050E-01 0.	5.4104E-01 1.0000E-01	5.4050E-01105914	53		9		
2.0000E-01	5.3657E-01 3.0000E-01	5.2677E-01 4.0000E-01	5.1880E-01105914	53		10		
5.0000E-01	5.0928E-01 6.0000E-01	4.9940E-01 7.0000E-01	4.7787E-01105914	53		11		
8.0000E-01	4.6414E-01 9.0000E-01	4.4542E-01 1.0000E+0C	4.2177E-01105914	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-01105914	53		15		
-7.0000E-01	4.8114E-01-6.0000E-01	5.0032E-01-5.0000E-01	5.1046E-01105914	53		16		
-4.0000E-01	5.1214E-01-3.0000E-01	5.1983E-01-2.0000E-01	5.3609E-01105914	53		17		
-1.0000E-01	5.4030E-01 0.	5.4084E-01 1.0000E-01	5.4030E-01105914	53		18		
2.0000E-01	5.3609E-01 3.0000E-01	5.1983E-01 4.0000E-01	5.1214E-01105914	53		19		
5.0000E-01	5.1046E-01 6.0000E-01	5.0032E-01 7.0000E-01	4.8114E-01105914	53		20		
8.0000E-01	4.6699E-01 9.0000E-01	4.4869E-01 1.0000E+00	4.2643E-01105914	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-01105914	53		24		
-7.0000E-01	4.8482E-01-6.0000E-01	5.0135E-01-5.0000E-01	5.1180E-01105914	53		25		
-4.0000E-01	5.0461E-01-3.0000E-01	5.1199E-01-2.0000E-01	5.3555E-01105914	53		26		
-1.0000E-01	5.4006E-01 0.	5.4060E-01 1.0000E-01	5.4006E-01105914	53		27		
2.0000E-01	5.3555E-01 3.0000E-01	5.1199E-01 4.0000E-01	5.0461E-01105914	53		28		
5.0000E-01	5.1180E-01 6.0000E-01	5.0135E-01 7.0000E-01	4.8482E-01105914	53		29		
8.0000E-01	4.7021E-01 9.0000E-01	4.5238E-01 1.0000E+00	4.3169E-01105914	53		30		
0.	9.0000E+00	0	0	1		21105914	53	31

21	2				105914	53	32
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-7.0000E-01	4.8901E-01-6.0000E-01	5.0252E-01-5.0000E-01	5.1333E-01105914	53		34	
-4.0000E-01	4.9604E-01-3.0000E-01	5.0306E-01-2.0000E-01	5.3494E-01105914	53		35	
-1.0000E-01	5.3981E-01 0.	5.4035E-01 1.0000E-01	5.3981E-01105914	53		36	
2.0000E-01	5.3494E-01 3.0000E-01	5.0306E-01 4.0000E-01	4.9604E-01105914	53		37	
5.0000E-01	5.1333E-01 6.0000E-01	5.0252E-01 7.0000E-01	4.8901E-01105914	53		38	
8.0000E-01	4.7388E-01 9.0000E-01	4.5659E-01 1.0000E+00	4.3768E-01105914	53		39	
7.110CF+00	6.6708E+00 0	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-01105914	53		44	
-7.0000E-01	4.7787E-01-6.0000E-01	4.9940E-01-5.0000E-01	5.0928E-01105914	53		45	
-4.0000E-01	5.1880E-01-3.0000E-01	5.2677E-01-2.0000E-01	5.3657E-01105914	53		46	
-1.0000E-01	5.4050E-01 0.	5.4104E-01 1.0000E-01	5.4050E-01105914	53		47	
2.0000E-01	5.3657E-01 3.0000E-01	5.2677E-01 4.0000E-01	5.1880E-01105914	53		48	
5.0000E-01	5.0928E-01 6.0000E-01	4.9940E-01 7.0000E-01	4.7787E-01105914	53		49	
8.0000E-01	4.6414E-01 9.0000E-01	4.4542E-01 1.0000E+00	4.2177E-01105914	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-01105914	53		53	
-7.0000E-01	4.8114E-01-6.0000E-01	5.0032E-01-5.0000E-01	5.1046E-01105914	53		54	
-4.0000E-01	5.1214E-01-3.0000E-01	5.1983E-01-2.0000E-01	5.36C9E-01105914	53		55	
-1.0000E-01	5.4030E-01 0.	5.4084E-01 1.0000E-01	5.4030E-01105914	53		56	
2.0000E-01	5.3609E-01 3.0000E-01	5.1983E-01 4.0000E-01	5.1214E-01105914	53		57	
5.0000E-01	5.1046E-01 6.0000E-01	5.0032E-01 7.0000E-01	4.8114E-01105914	53		58	
8.0000E-01	4.6699E-01 9.0000E-01	4.4869E-01 1.0000E+00	4.2643E-01105914	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-01105914	53		62	
-7.0000E-01	4.8482E-01-6.0000E-01	5.0135E-01-5.0000E-01	5.1180E-01105914	53		63	
-4.0000E-01	5.0461E-01-3.0000E-01	5.1199E-01-2.0000E-01	5.3555E-01105914	53		64	
-1.0000E-01	5.4006E-01 0.	5.4060E-01 1.0000E-01	5.4060E-01105914	53		65	
2.0000E-01	5.3555E-01 3.0000E-01	5.1199E-01 4.0000E-01	5.0461E-01105914	53		66	
5.0000E-01	5.1180E-01 6.0000E-01	5.0135E-01 7.0000E-01	4.8482E-01105914	53		67	
8.0000E-01	4.7021E-01 9.0000E-01	4.5238E-01 1.0000E+00	4.3169E-01105914	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-01105914	53		71	
-7.0000E-01	4.8901E-01-6.0000E-01	5.0252E-01-5.0000E-01	5.1333E-01105914	53		72	
-4.0000E-01	4.9604E-01-3.0000E-01	5.0306E-01-2.0000E-01	5.3494E-01105914	53		73	
-1.0000E-01	5.3981E-01 0.	5.4035E-01 1.0000E-01	5.3981E-01105914	53		74	
2.0000E-01	5.3494E-01 3.0000E-01	5.0306E-01 4.0000E-01	4.9604E-01105914	53		75	
5.0000E-01	5.1333E-01 6.0000E-01	5.0252E-01 7.0000E-01	4.8901E-01105914	53		76	
8.0000E-01	4.7388E-01 9.0000E-01	4.5659E-01 1.0000E+00	4.3768E-01105914	53		77	
7.1100E+00	4.4700E+00 0	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-01105914	53		82	
-7.0000E-01	4.7787E-01-6.0000E-01	4.9940E-01-5.0000E-01	5.0928E-01105914	53		83	
-4.0000E-01	5.1880E-01-3.0000E-01	5.2677E-01-2.0000E-01	5.3657E-01105914	53		84	
-1.0000E-01	5.4050E-01 0.	5.4104E-01 1.0000E-01	5.4050E-01105914	53		85	
2.0000E-01	5.3657E-01 3.0000E-01	5.2677E-01 4.0000E-01	5.1880E-01105914	53		86	
5.0000E-01	5.0928E-01 6.0000E-01	4.9940E-01 7.0000E-01	4.7787E-01105914	53		87	
8.0000E-01	4.6414E-01 9.0000E-01	4.4542E-01 1.0000E+00	4.2177E-01105914	53		88	
0.	8.0000E+00	0 0	1 21105914	53		89	
21	2			105914	53	90	
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-7.0000E-01	4.8114E-01-6.0000E-01	5.0032E-01-5.0000E-01	5.1046E-01105914	53		92	
-4.0000E-01	5.1214E-01-3.0000E-01	5.1983E-01-2.0000E-01	5.36C9E-01105914	53		93	
-1.0000E-01	5.4030E-01 0.	5.4084E-01 1.0000E-01	5.4030E-01105914	53		94	
2.0000E-01	5.3609E-01 3.0000E-01	5.1983E-01 4.0000E-01	5.1214E-01105914	53		95	
5.0000E-01	5.1046E-01 6.0000E-01	5.0032E-01 7.0000E-01	4.8114E-01105914	53		96	
8.0000E-01	4.6699E-01 9.0000E-01	4.4869E-01 1.0000E+00	4.2643E-01105914	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	4.96C4E-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	
4	2				105914	53	117	
0.	7.4220E+00	0	0	1	21105914	53	118	
21	2				105914	53	119	
-1.0000E+00	4.2177E-01	-9.0000E-01	4.4542E-01	-8.0000E-01	4.6414E-01	105914	53	120
-7.0000E-01	4.7787E-01	-6.0000E-01	4.9940E-01	-5.0000E-01	5.0928E-01	105914	53	121
-4.0000E-01	5.1880E-01	-3.0000E-01	5.2677E-01	-2.0000E-01	5.3657E-01	105914	53	122
-1.0000E-01	5.4050E-01	0.	5.4104E-01	1.0000E-01	5.4050E-01	105914	53	123
2.0000E-01	5.3657E-01	3.0000E-01	5.2677E-01	4.0000E-01	5.1880E-01	105914	53	124
5.0000E-01	5.0928E-01	6.0000E-01	4.9940E-01	7.0000E-01	4.7787E-01	105914	53	125
8.0000E-01	4.6414E-01	9.0000E-01	4.4542E-01	1.0000E+00	4.2177E-01	105914	53	126
0.	8.0000E+00	0	0	1	21105914	53	127	
21	2				105914	53	128	
-1.0000E+00	4.2643E-01	-9.0000E-01	4.4869E-01	-8.0000E-01	4.6699E-01	105914	53	129
-7.0000E-01	4.8114E-01	-6.0000E-01	5.0032E-01	-5.0000E-01	5.1046E-01	105914	53	130
-4.0000E-01	5.1214E-01	-3.0000E-01	5.1983E-01	-2.0000E-01	5.3609E-01	105914	53	131
-1.0000E-01	5.4030E-01	0.	5.4084E-01	1.0000E-01	5.4030E-01	105914	53	132
2.0000E-01	5.3609E-01	3.0000E-01	5.1983E-01	4.0000E-01	5.1214E-01	105914	53	133
5.0000E-01	5.1046E-01	6.0000E-01	5.0032E-01	7.0000E-01	4.8114E-01	105914	53	134
8.0000E-01	4.6699E-01	9.0000E-01	4.4869E-01	1.0000E+00	4.2643E-01	105914	53	135
0.	8.5000E+00	0	0	1	21105914	53	136	
21	2				105914	53	137	
-1.0000E+00	4.3169E-01	-9.0000E-01	4.5238E-01	-8.0000E-01	4.7021E-01	105914	53	138
-7.0000E-01	4.8482E-01	-6.0000E-01	5.0135E-01	-5.0000E-01	5.118CE-01	105914	53	139
-4.0000E-01	5.0461E-01	-3.0000E-01	5.1199E-01	-2.0000E-01	5.3555E-01	105914	53	140
-1.0000E-01	5.4006E-01	0.	5.4060E-01	1.0000E-01	5.4006E-01	105914	53	141
2.0000E-01	5.3555E-01	3.0000E-01	5.1199E-01	4.0000E-01	5.0461E-01	105914	53	142
5.0000E-01	5.1180E-01	6.0000E-01	5.0135E-01	7.0000E-01	4.8482E-01	105914	53	143
8.0000E-01	4.7021E-01	9.0000E-01	4.5238E-01	1.0000E+00	4.3169E-01	105914	53	144
0.	9.0000E+00	0	0	1	21105914	53	145	
21	2				105914	53	146	
-1.0000E+00	4.3768E-01	-9.0000E-01	4.5659E-01	-8.0000E-01	4.7388E-01	105914	53	147
-7.0000E-01	4.8901E-01	-6.0000E-01	5.0252E-01	-5.0000E-01	5.1333E-01	105914	53	148
-4.0000E-01	4.9604E-01	-3.0000E-01	5.0306E-01	-2.0000E-01	5.3494E-01	105914	53	149
-1.0000E-01	5.3981E-01	0.	5.4035E-01	1.0000E-01	5.3981E-01	105914	53	150
2.0000E-01	5.3494E-01	3.0000E-01	5.0306E-01	4.0000E-01	4.96C4E-01	105914	53	151
5.0000E-01	5.1333E-01	6.0000E-01	5.0252E-01	7.0000E-01	4.89C1E-01	105914	53	152
8.0000E-01	4.7388E-01	9.0000E-01	4.5659E-01	1.0000E+00	4.3768E-01	105914	53	153
0.	0.	0	0	0	0105914	0	154	
11023.0	22.786	1	2	31	0105914102	1		
0.0	0.0	0	0	0	0105914	0	2	
0.0	0.0	0	0	C	01059	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 F+6	0.0		0	0	E	4105915	11	26
2.640 E+6	0.15	2.080 E+6	0.1	0.4392 E+6	0.71	105915	11	27
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	1.00000E+07	9.7689E-01	1.2000E+07	1.0050E+00	105915	15	4
1.4000E+07	1.0836E+00	1.60000E+07	1.1726E+00	1.8000E+07	1.2911E+00	105915	15	5
2.0000E+07	1.4039E+00					105915	15	6
0.	0.		0	1	1	7105915	15	7
		7	2			105915	15	8
9.0500E+06	9.7285E-01	1.00000E+07	9.7689E-01	1.2000E+07	1.0050E+00	105915	15	9
1.4000E+07	1.0836E+00	1.60000E+07	1.1726E+00	1.8000E+07	1.2911E+00	105915	15	10
2.0000E+07	1.4039E+00					105915	15	11
0.	0.		0	0	1	7105915	15	12
		7	2			105915	15	13
0.	9.0500E+06		0	0	1	23105915	15	14
		23	2			105915	15	15
1.00000E+04	1.1485E-20	1.00000E+05	3.4110E-02	2.0000E+05	7.3963E-02	105915	15	16
4.00000E+05	1.4230E-01	6.00000E+05	1.9926E-01	8.0000E+05	2.4899E-01	105915	15	17
1.00000E+06	2.8896E-01	1.20000E+06	3.2307E-01	1.4000E+06	3.4868E-01	105915	15	18
1.60000E+06	3.6568E-01	1.80000E+06	3.5431E-01	2.0000E+06	3.0734E-01	105915	15	19
2.20000E+06	2.5761E-01	2.40000E+06	2.0776E-01	2.6000E+06	1.6217E-01	105915	15	20
2.80000E+06	1.2944E-01	3.00000E+06	1.2243E-01	3.5000E+06	1.1382E-01	105915	15	21
4.00000E+06	1.0382E-01	5.00000E+06	7.8213E-02	6.0000E+06	4.9845E-02	105915	15	22
7.00000E+06	1.2863E-02	8.00000E+06	1.1485E-20			105915	15	23
0.	1.00000E+07		0	0	1	24105915	15	24



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
0.0	0.63					105915	53	7
0.0	0.0		0	0	0	105915	53	8
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

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

## 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  $^{23}\text{Na}$  (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  $^{23}\text{Na}$ , as taken from Drake et al.<sup>5</sup> (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

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

$$+ [TP_{5,2} \cdot TP_{2,1}]$$

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:

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

cesses to gamma-ray emission are shown for  $^{23}\text{Na}$ , so the general case cannot be illustrated unless we assume, say, internal conversion. In Section B.2, we shall formally carry photon transition probabilities ( $GP_j$ ) 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.  $A_{j,i} = (TP_{j,i})(GP_{j,i})$ .

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

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

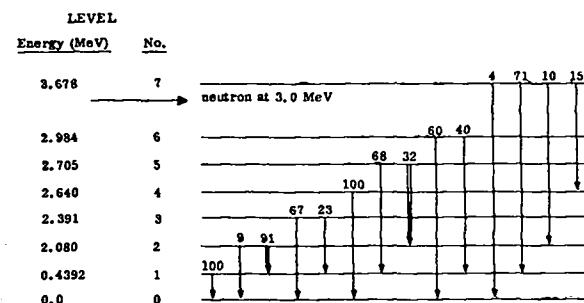


Fig. 1. Partial energy level diagram for  $^{23}\text{Na}$ .

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 jth 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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