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PHOTON AND DECAY DATA LIBRARIES FOR ORIGEN2 CODE
BASED ON JENDL FP DECAY DATA FILE 2000

November 2002

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Photon and Decay Data Libraries for ORIGEN2 Code
Based on JENDL FP Decay Data File 2000

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Photon and decay data libraries for the ORIGEN2 code have been updated by using JENDL FP Decay Data File 2000 (JENDL/FPD-00). As for the decay data, half-lives, branching ratios and recoverable energy values have been replaced with those of the JENDL/FPD-00 file. The data of the photon library has been also replaced with those of the JENDL/FPD-00 file in which photon data of the nuclides without measured data are calculated with a theoretical method. Using the updated photon library, the calculation of photon spectrum at a short time after fission event is able to be made.

Keywords: Decay Data, Photon Spectrum, Fission Products, ORIGEN2, JENDL FP Decay Data File 2000

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JENDL 核分裂生成物崩壊データファイル 2000 に基づく
ORIGEN2 用光子及び崩壊データライブラリー

日本原子力研究所東海研究所エネルギーシステム研究部
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ORIGEN2 コード用の光子及び崩壊データデータのライブラリーを JENDL 核分裂生成物崩壊データライブラリー 2000 (JENDL/FPD-00) に基づいて作成した。崩壊データに関しては、半減期、分岐比、再生 (recoverable) エネルギーについて JENDL/FPD-00 のもので置き換えた。光子ライブラリーについても、JENDL/FPD-00 のデータを基に作り直した。JENDL/FPD-00 の光子データは、測定データのない核種には理論計算による計算値を採用しているものである。この結果、核分裂後の極短時間における光子スペクトルも ORIGEN2 コードで計算できるようになった。

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1 Introduction

The ORIGEN2 code ^{1,2)} is a widely used computer code for calculating the buildup and decay of isotopes in nuclear materials. The number of fission product nuclides which are included in its decay data library is 858, but that of its photon library is 240. The difference between the numbers of the nuclides for the decay data and for the photon data comes from the deficiency of the measured spectrum data of the nuclides with short half-life. The main source of the ORIGEN2 photon library is ENSDF (Evaluated Nuclear Structure Data File) file ³⁾. The ENSDF file has been compiled based on only the measured data. Therefore the ENSDF file does not include the spectrum of the nuclides with no measurements. Then the ORIGEN2 photon library also does not include the spectrum for such nuclides. In this reason the photon spectrum calculated at short time after fission event is not correctly estimated when the photon data of the ORIGEN2 code are used.

JENDL FP Decay Data File 2000 ⁴⁾ (hereafter JENDL/FPD-00) was released in 2000. This JENDL/FPD-00 file contains beta- and gamma-ray spectrum data of all unstable fission product nuclides. When the measured spectrum data were not available at the time of the compilation, a theoretical model was applied to estimate the spectrum data and the theoretically estimated spectra were included in the JENDL/FPD-00 file. The theoretically estimated spectrum data were validated by comparing the calculated aggregate beta- and gamma-ray spectra of fission product nuclides after fissions of various kinds of fissionable nuclides with the measured spectrum data. The comparisons showed good agreement between the calculated results and the measured data.

Then it was expected that the replacement of the ORIGEN2 photon library with the data of the JENDL/FPD-00 file would improve the predictability of the spectrum at short times after fission event calculated by the ORIGEN2 code. The photon data including X-ray data were converted from those of the JENDL file to suite the format of the ORIGEN2 photon library. In this process the energy group structure of the photon library was kept to be the same as that in the original structure.

The decay data in the JENDL/FPD-00 file also have been validated by comparing the calculated decay heat values with the measured ones. The comparison also showed good agreement between them. Then it is reasonable to replace the data of the ORIGEN2 decay data library with those of the JENDL/FPD-00 file. The replacement was carried out except for the data of the natural abundance and the radioactivity concentration guides in the ORIGEN2 decay data library.

In this report the updated photon and decay libraries for the ORIGEN2 code is described.

2 Updated Photon and Decay Data Libraries

2.1 Photon Library

There are photon data of 240 FP nuclides with masses from 66 through 172 in the ORIGEN2 photon library with no bremsstrahlung, although there are decay data of 858 FP nuclides in the decay data library including 6 light nuclides produced by ternary fission. Excepting the light nuclides and stable nuclides, there are 724 unstable nuclides with masses from 66 through 172. These unstable nuclides emit radiations including photons through decay process to more stable nuclides. Although all unstable nuclides not always emit photons in the decay process, it is true that there is a gap between the number of nuclides in the decay data library and the photon library. It is due to the deficiency of the measured data of short-lived unstable nuclides. The decay data in the decay data library were taken from ENDF/B-IV⁵⁾ when the measured data were not available. In the ENDF/B-IV file theoretically estimated decay data (half-life, average decay energy and so on) were adopted when the measured data were not available. The photon data, however, were not provided even in the ENDF/B-IV file because any theoretical methods to give the spectrum data were not given at the time of the compilation. In order to fulfil the gap, the photon data of about 500 FP nuclides are needed.

JENDL FP Decay Data File 2000 provides gamma-ray spectrum data for 1053 FP nuclides including theoretically estimated spectrum data. The spectra of the nuclides without measured data are provided by the calculation with a theoretical method. The number of nuclides with the gamma-ray spectrum in the JENDL/FPD-00 file is enough to make up the deficiency of the original photon library of the ORIGEN2 code. The spectrum data in the JENDL/FPD-00 file consist of measured discrete spectrum and theoretically calculated continuous one. They were merged and converted into the format of the ORIGEN2 photon library.

The format of the photon library is following²⁾:

- First card of each library segment:

NLB TITLE

- First card for each nuclide:

NLB NUCLID NGP(1), RPH(1), … NGP(I), RPH(I)

- Subsequent card(s) for each nuclide:

NGP(I+1), RPH(I+1), … NGP(IMAX), RPH(IMAX), -1

- Last card of each library segment:

-1

where

NLB = the number of this photon library segment,

TITLE = a 72-character alphanumeric photon library segment title beginning in Column 9,
NUCLIDE = a six-digit nuclide identifier for the photon information on the following card(s),
NGP(I) = the number of a photon energy group,
RPH(I) = photon intensity for energy group NGP(I) in photons per disintegration,
IMAX = the number of NGP(I)/RPH(I) pairs specified must be less than 18.
Only those NGP(I)/RPH(I) pairs for which RPH(I) is non-zero need be specified.

The computer code SPEC5⁶⁾ was used for treating the JENDL/FPD-00 file. The code reads the decay data in the ENDF format and produces the spectrum data of gamma-ray, beta-ray, gamma + X-ray, beta + conversion electron and so on. The spectrum of gamma + X-ray is used for the ORIGEN2 photon library. The produced spectrum has the energy group structure of 209 energy bins, which is different from that of the ORIGEN2 photon library. The energy structure of the spectrum produced by the SPEC5 code is listed in Table 2.1 and that of the ORIGEN2 photon library is listed in Table 2.2.

Table 2.1 Energy group structure of the spectrum produced by SPEC5 code

| Group | Group energy (MeV) | | Group | Group energy (MeV) | |
|-------|--------------------|--------------|-------|--------------------|--------------|
| | Lower energy | Upper energy | | Lower energy | Upper energy |
| 1 | 0.0 | 1.0E-02 | 20 | 5.5E-01 | 6.0E-01 |
| 2 | 1.0E-02 | 2.0E-02 | 21 | 6.0E-01 | 6.5E-01 |
| 3 | 2.0E-02 | 3.0E-02 | 22 | 6.5E-01 | 7.0E-01 |
| 4 | 3.0E-02 | 4.0E-02 | 23 | 7.0E-01 | 7.5E-01 |
| 5 | 4.0E-02 | 5.0E-02 | 24 | 7.5E-01 | 8.0E-01 |
| 6 | 5.0E-02 | 6.0E-02 | 25 | 8.0E-01 | 8.5E-01 |
| 7 | 6.0E-02 | 7.0E-02 | 26 | 8.5E-01 | 9.0E-01 |
| 8 | 7.0E-02 | 8.0E-02 | 27 | 9.0E-01 | 9.5E-01 |
| 9 | 8.0E-02 | 9.0E-02 | 28 | 9.5E-01 | 1.00 |
| 10 | 9.0E-02 | 1.0E-01 | 29 | 1.00 | 1.05 |
| 11 | 1.0E-01 | 1.5E-01 | 30 | 1.05 | 1.10 |
| 12 | 1.5E-01 | 2.0E-01 | 31 | 1.10 | 1.15 |
| 13 | 2.0E-01 | 2.5E-01 | 32 | 1.15 | 1.20 |
| 14 | 2.5E-01 | 3.0E-01 | 33 | 1.20 | 1.25 |
| 15 | 3.0E-01 | 3.5E-01 | 34 | 1.25 | 1.30 |
| 16 | 3.5E-01 | 4.0E-01 | 35 | 1.30 | 1.35 |
| 17 | 4.0E-01 | 4.5E-01 | 36 | 1.35 | 1.40 |
| 18 | 4.5E-01 | 5.0E-01 | 37 | 1.40 | 1.45 |
| 19 | 5.0E-01 | 5.5E-01 | 38 | 1.45 | 1.50 |

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| Group | Group energy (MeV) | | Group | Group energy (MeV) | |
|-------|--------------------|--------------|-------|--------------------|--------------|
| | Lower energy | Upper energy | | Lower energy | Upper energy |
| 39 | 1.50 | 1.55 | 73 | 3.20 | 3.25 |
| 40 | 1.55 | 1.60 | 74 | 3.25 | 3.30 |
| 41 | 1.60 | 1.65 | 75 | 3.30 | 3.35 |
| 42 | 1.65 | 1.70 | 76 | 3.35 | 3.40 |
| 43 | 1.70 | 1.75 | 77 | 3.40 | 3.45 |
| 44 | 1.75 | 1.80 | 78 | 3.45 | 3.50 |
| 45 | 1.80 | 1.85 | 79 | 3.50 | 3.55 |
| 46 | 1.85 | 1.90 | 80 | 3.55 | 3.60 |
| 47 | 1.90 | 1.95 | 81 | 3.60 | 3.65 |
| 48 | 1.95 | 2.00 | 82 | 3.65 | 3.70 |
| 49 | 2.00 | 2.05 | 83 | 3.70 | 3.75 |
| 50 | 2.05 | 2.10 | 84 | 3.75 | 3.80 |
| 51 | 2.10 | 2.15 | 85 | 3.80 | 3.85 |
| 52 | 2.15 | 2.20 | 86 | 3.85 | 3.90 |
| 53 | 2.20 | 2.25 | 87 | 3.90 | 3.95 |
| 54 | 2.25 | 2.30 | 88 | 3.95 | 4.00 |
| 55 | 2.30 | 2.35 | 89 | 4.00 | 4.05 |
| 56 | 2.35 | 2.40 | 90 | 4.05 | 4.10 |
| 57 | 2.40 | 2.45 | 91 | 4.10 | 4.15 |
| 58 | 2.45 | 2.50 | 92 | 4.15 | 4.20 |
| 59 | 2.50 | 2.55 | 93 | 4.20 | 4.25 |
| 60 | 2.55 | 2.60 | 94 | 4.25 | 4.30 |
| 61 | 2.60 | 2.65 | 95 | 4.30 | 4.35 |
| 62 | 2.65 | 2.70 | 96 | 4.35 | 4.40 |
| 63 | 2.70 | 2.75 | 97 | 4.40 | 4.45 |
| 64 | 2.75 | 2.80 | 98 | 4.45 | 4.50 |
| 65 | 2.80 | 2.85 | 99 | 4.50 | 4.55 |
| 66 | 2.85 | 2.90 | 100 | 4.55 | 4.60 |
| 67 | 2.90 | 2.95 | 101 | 4.60 | 4.65 |
| 68 | 2.95 | 3.00 | 102 | 4.65 | 4.70 |
| 69 | 3.00 | 3.05 | 103 | 4.70 | 4.75 |
| 70 | 3.05 | 3.10 | 104 | 4.75 | 4.80 |
| 71 | 3.10 | 3.15 | 105 | 4.80 | 4.85 |
| 72 | 3.15 | 3.20 | 106 | 4.85 | 4.90 |

continued on next page

| Group | Group energy (MeV) | | Group | Group energy (MeV) | |
|-------|--------------------|--------------|-------|--------------------|--------------|
| | Lower energy | Upper energy | | Lower energy | Upper energy |
| 107 | 4.90 | 4.95 | 141 | 6.60 | 6.65 |
| 108 | 4.95 | 5.00 | 142 | 6.65 | 6.70 |
| 109 | 5.00 | 5.05 | 143 | 6.70 | 6.75 |
| 110 | 5.05 | 5.10 | 144 | 6.75 | 6.80 |
| 111 | 5.10 | 5.15 | 145 | 6.80 | 6.85 |
| 112 | 5.15 | 5.20 | 146 | 6.85 | 6.90 |
| 113 | 5.20 | 5.25 | 147 | 6.90 | 6.95 |
| 114 | 5.25 | 5.30 | 148 | 6.95 | 7.00 |
| 115 | 5.30 | 5.35 | 149 | 7.00 | 7.05 |
| 116 | 5.35 | 5.40 | 150 | 7.05 | 7.10 |
| 117 | 5.40 | 5.45 | 151 | 7.10 | 7.15 |
| 118 | 5.45 | 5.50 | 152 | 7.15 | 7.20 |
| 119 | 5.50 | 5.55 | 153 | 7.20 | 7.25 |
| 120 | 5.55 | 5.60 | 154 | 7.25 | 7.30 |
| 121 | 5.60 | 5.65 | 155 | 7.30 | 7.35 |
| 122 | 5.65 | 5.70 | 156 | 7.35 | 7.40 |
| 123 | 5.70 | 5.75 | 157 | 7.40 | 7.45 |
| 124 | 5.75 | 5.80 | 158 | 7.45 | 7.50 |
| 125 | 5.80 | 5.85 | 159 | 7.50 | 7.60 |
| 126 | 5.85 | 5.90 | 160 | 7.60 | 7.70 |
| 127 | 5.90 | 5.95 | 161 | 7.70 | 7.80 |
| 128 | 5.95 | 6.00 | 162 | 7.80 | 7.90 |
| 129 | 6.00 | 6.05 | 163 | 7.90 | 8.00 |
| 130 | 6.05 | 6.10 | 164 | 8.00 | 8.10 |
| 131 | 6.10 | 6.15 | 165 | 8.10 | 8.20 |
| 132 | 6.15 | 6.20 | 166 | 8.20 | 8.30 |
| 133 | 6.20 | 6.25 | 167 | 8.30 | 8.40 |
| 134 | 6.25 | 6.30 | 168 | 8.40 | 8.50 |
| 135 | 6.30 | 6.35 | 169 | 8.50 | 8.60 |
| 136 | 6.35 | 6.40 | 170 | 8.60 | 8.70 |
| 137 | 6.40 | 6.45 | 171 | 8.70 | 8.80 |
| 138 | 6.45 | 6.50 | 172 | 8.80 | 8.90 |
| 139 | 6.50 | 6.55 | 173 | 8.90 | 9.00 |
| 140 | 6.55 | 6.60 | 174 | 9.00 | 9.10 |

continued on next page

| Group | Group energy (MeV) | | Group | Group energy (MeV) | |
|-------|--------------------|--------------|-------|--------------------|--------------|
| | Lower energy | Upper energy | | Lower energy | Upper energy |
| 175 | 9.10 | 9.20 | 193 | 10.90 | 11.00 |
| 176 | 9.20 | 9.30 | 194 | 11.00 | 11.10 |
| 177 | 9.30 | 9.40 | 195 | 11.10 | 11.20 |
| 178 | 9.40 | 9.50 | 196 | 11.20 | 11.30 |
| 179 | 9.50 | 9.60 | 197 | 11.30 | 11.40 |
| 180 | 9.60 | 9.70 | 198 | 11.40 | 11.50 |
| 181 | 9.70 | 9.80 | 199 | 11.50 | 11.60 |
| 182 | 9.80 | 9.90 | 200 | 11.60 | 11.70 |
| 183 | 9.90 | 10.00 | 201 | 11.70 | 11.80 |
| 184 | 10.00 | 10.10 | 202 | 11.80 | 11.90 |
| 185 | 10.10 | 10.20 | 203 | 11.90 | 12.00 |
| 186 | 10.20 | 10.30 | 204 | 12.00 | 12.10 |
| 187 | 10.30 | 10.40 | 205 | 12.10 | 12.20 |
| 188 | 10.40 | 10.50 | 206 | 12.20 | 12.30 |
| 189 | 10.50 | 10.60 | 207 | 12.30 | 12.40 |
| 190 | 10.60 | 10.70 | 208 | 12.40 | 12.50 |
| 191 | 10.70 | 10.80 | 209 | 12.50 | 12.60 |
| 192 | 10.80 | 10.90 | | | |

Then the spectrum was converted to suit the energy structure of the ORIGEN2 photon library. In the preparation of the original photon library, the intensity of each energy group was adjusted to conserve energy ⁷⁾. The spectra in the JENDL/FPD-00 file, on the other hand, were prepared in order to keep the consistency between the spectra and the average decay energy per decay. Therefore, the adjustment employed in the original photon library was considered not to be needed. Thus the conversion was carried out as follows:

$$I_o^i = \sum_{k \subseteq i} I_J^k \cdot f_k \quad (2.1)$$

where

I_o^i = Intensity of photons in the ORIGEN2 energy group i ,

I_J^k = Intensity of photons of the JENDL/FPD-00 file in the SPEC5 energy group k ,

f_k = Fraction of photon intensity in the SPEC5 energy group k included in the ORIGEN2 energy group i .

The fraction f_k was the ratio of the fractional energy width of the SPEC5 energy group k included in the ORIGEN2 energy group i to the total energy width of the SPEC5 energy group k . In this manner, the spectra of all of the 1053 FP nuclides in JENDL FP Decay Data File 2000 were prepared in the format of the ORIGEN2 photon library. In the prepared photon library the photon data of only the nuclides

Table 2.2 Photon energy group structure of ORIGEN2 code

| Group | Group energy (MeV) | |
|-------|--------------------|--------------|
| | Lower energy | Upper energy |
| 1 | 0.0 | 2.0E-02 |
| 2 | 2.0E-02 | 3.0E-02 |
| 3 | 3.0E-02 | 4.5E-02 |
| 4 | 4.5E-02 | 7.0E-02 |
| 5 | 7.0E-02 | 1.0E-01 |
| 6 | 1.0E-01 | 1.5E-01 |
| 7 | 1.5E-01 | 3.0E-01 |
| 8 | 3.0E-01 | 4.5E-01 |
| 9 | 4.5E-01 | 7.0E-01 |
| 10 | 7.0E-01 | 1.0E+00 |
| 11 | 1.0E+00 | 1.5E+00 |
| 12 | 1.5E+00 | 2.0E+00 |
| 13 | 2.0E+00 | 2.5E+00 |
| 14 | 2.5E+00 | 3.0E+00 |
| 15 | 3.0E+00 | 4.0E+00 |
| 16 | 4.0E+00 | 6.0E+00 |
| 17 | 6.0E+00 | 8.0E+00 |
| 18 | 8.0E+00 | 1.1E+01 |

which were included in the decay data library of the ORIGEN2 code were selected and put into the photon library. The photon spectrum data of 695 FP nuclides were finally put into the photon library. The photon data of 455 nuclides were newly added into the photon library. In Appendix A the data of the photon library updated at the present work are listed.

As the number of nuclides is increased from 240 in the original library to 695 in the updated photon library, the number of no-zero photon yields in the ORIGEN2 code, LLL, has to be also increased. For the original library, the maximum number of LLL is assigned to be 8000. However, it is needed to be 12000 when using the updated photon library.

Thus created photon library has no bremsstrahlung. There are two kinds of photon libraries including bremsstrahlung available for the ORIGEN2 calculation. One is the bremsstrahlung of H₂O, the other one the bremsstrahlung of UO₂. Comparing the intensities in the bremsstrahlung libraries with those in the no bremsstrahlung library, the net intensities of the bremsstrahlung photons were extracted. Two new libraries including the bremsstrahlung were produced by adding the net intensities of the bremsstrahlung to the intensities in the photon library with no bremsstrahlung.

2.2 Decay Data Library

The decay data of the ORIGEN2 code were replaced with those of JENDL Decay Data File 2000. The format of the decay data library is following²⁾:

- First card of each library segment:

NLB TITLE

- First card for each nuclide:

NLB NUCLID IU THALF FBX FPEC FPECX FA FIT

- Subsequent card(s) for each nuclide:

NLB FSF FN QREC ABUND ARCG WRCG

- Last card of each library segment:

-1

where

NLB = the number of this photon library segment,

TITLE = a 72-character alphanumeric decay data library segment title beginning in Column 9,

NUCLID = a six-digit nuclide identifier for the decay information on the following card(s),

IU = time unit designation of the half-life of NUCLID,

1: seconds,

2: minutes,

3: hours,

4: days,

5: years,

6: stable,

7: 10^3 years (KY),

8: 10^6 years (MY),

9: 10^9 years (GY),

THALF = the half-life of nuclide in the unit given by IU,

FBX = the fraction of negatron beta decay transitions that results in the daughter nuclide being in a relatively long-lived excited state,

FPEC = the fraction of all decay events which take place by positron emission or electron capture,

FPECX = the fraction of positron and/or electron capture decay events that cause the daughter nuclide to be in a relatively long-lived excited state,

- FA = the fraction of all decay events which take place by alpha decay,
- FIT = the fraction of all the decay events of an excited nuclear state which result in the production of the ground state of the same nuclide,
- FSF = the fraction of all decay events which take place by spontaneous fission,
- FN = the fraction of all decay events that are (beta + neutron) decay,
- QREC = the average, total recoverable energy (i.e. does not include neutrino) released by all decay events, in MeV,
- ABUND = the naturally occurring isotopic abundance of NUCLID in atom percent,
- ARCG = the radioactivity concentration guide (RCG) for continuous inhalation of nuclide NUCLID in unrestricted areas as given in Table II, Column I, of Part 10 of Title 20 of the Code of Federal Regulations (the lower of the soluble or insoluble values is used)⁸⁾,
- WRCG = the radioactivity concentration guide (RCG) for continuous inhalation of nuclide NUCLID in unrestricted areas as given in Table II, Column II, of Part 10 of Title 20 of the Code of Federal Regulations (the lower of the soluble or insoluble values is used).

Then the fraction of all decay events which take place by negatron beta decay to the ground state of the daughter nuclide is given by (1.0 - FBX - FPEC - FA - FIT - FSF - FN) and is calculated internally in ORIGEN2. The data shown in the above format excepting ABUND, ARCG and WRCG were replaced by those of the JENDL file.

In this replacement, the following problem was encountered. The nuclides in the ORIGEN2 decay library do not always coincide with the nuclides in the JENDL file even if the decay chain region is limited to that of the ORIGEN2 decay library. Some nuclides in the ORIGEN2 decay library are not included in the JENDL file because of different treatment of unstable nuclides. In Table 2.3 the nuclides not included in JENDL Decay Data File 2000 are listed. Of these nuclides 6 nuclides from ^3H to ^{14}C are light nuclides produced from ternary fission. Of the other 9 nuclides, ^{71m}Ge and ^{145}Sm nuclides are in the neutron deficient region and has small fission yield. The ^{155m}Gd nuclide has no parent nuclide and has also small fission yield. These facts exclude these nuclides in the JENDL file. The other 6 nuclides are all metastable nuclides as seen in Table 2.3. These metastable nuclides, however, are not adopted in the recently compiled ENSDF file or Table of Isotopes 8th edition¹³⁾. This fact seems to mean that these nuclides were considered as metastable nuclides when the ORIGEN2 decay library was compiled, but later experiments showed that these states were not metastable. Then the chain passes to these metastable states are deleted in the updated decay data library even if the data of these states are kept in the library. The reason why the number of the nuclides in the decay data library has been kept is that FP nuclides are related to the fission yields data. Changing the number of nuclides requires the change of the fission yields data, but such update is not the purpose of the present work.

Table 2.3 Nuclides not included in the JENDL Decay Data File 2000

| Nuclide | Half-life (s) | ENSDF |
|--------------------|------------------------|-------------|
| ^3H | 3.897×10^8 | Adopted |
| ^6Li | stable | Adopted |
| ^7Li | stable | Adopted |
| ^9Be | stable | Adopted |
| ^{10}Be | 5.049×10^{13} | Adopted |
| ^{14}C | 1.808×10^{11} | Adopted |
| ^{71m}Ge | 2.190×10^{-2} | Adopted |
| ^{85m}Se | 1.900×10 | Not adopted |
| ^{86m}Br | 4.5000 | Not adopted |
| ^{109m}Rh | 5.000×10 | Not adopted |
| ^{145}Sm | 2.938×10^7 | Not adopted |
| ^{155m}Gd | 3.100×10^{-2} | Not adopted |
| ^{162m}Tb | 8.028×10^3 | Not adopted |
| ^{163m}Tb | 7.000 | Not adopted |
| ^{170m}Tm | 4.100×10^{-6} | Not adopted |

There are also some isomers which are included in the JENDL/FPD-00 file but not in the ORIGEN2 decay data library in the covered mass region by the ORIGEN2 decay data library. The decay chains passing these isomers were also deleted in the update ORIGEN2 library. These isomers are listed in Table 2.4. After these change of the decay pass the update decay library has been produced.

Table 2.4 Isomers not included in the ORIGEN2 decay data library

| |
|--|
| ^{74m}Ga , ^{79m}Ge , ^{84m}As , ^{93m}Y , ^{96m}Y , ^{97m}Y , ^{98m}Y , ^{100m}Y , ^{102m}Nb , |
| ^{104m}Nb , ^{109m}Ru , ^{116n}In , ^{118n}In , ^{120m}Ag , ^{121m}Cd , ^{124m}In , ^{124n}Sb , |
| ^{126m}In , ^{128m}In , ^{129m}In , ^{129m}Sb , ^{130m}Sn , ^{131m}In , ^{131n}In , ^{131m}Sn , |
| ^{132m}I , ^{136m}Cs , ^{143m}Xe , ^{146m}La , ^{148m}Pr , ^{152n}Pm , ^{152n}Eu , ^{154m}Eu |

3 Test Calculation with Updated Libraries

The update photon and decay libraries were used to calculate the aggregate photon spectra and fission products decay heat values after fissions of some fissionable nuclides.

3.1 Aggregate FP Photon Spectrum after Fission

The aggregate fission product gamma-ray spectra were calculated using the updated photon library and the updated decay library and the calculated results were compared with the measured spectra. An example of the spectrum comparison is shown in Fig. 3.1. The measured spectrum was obtained at

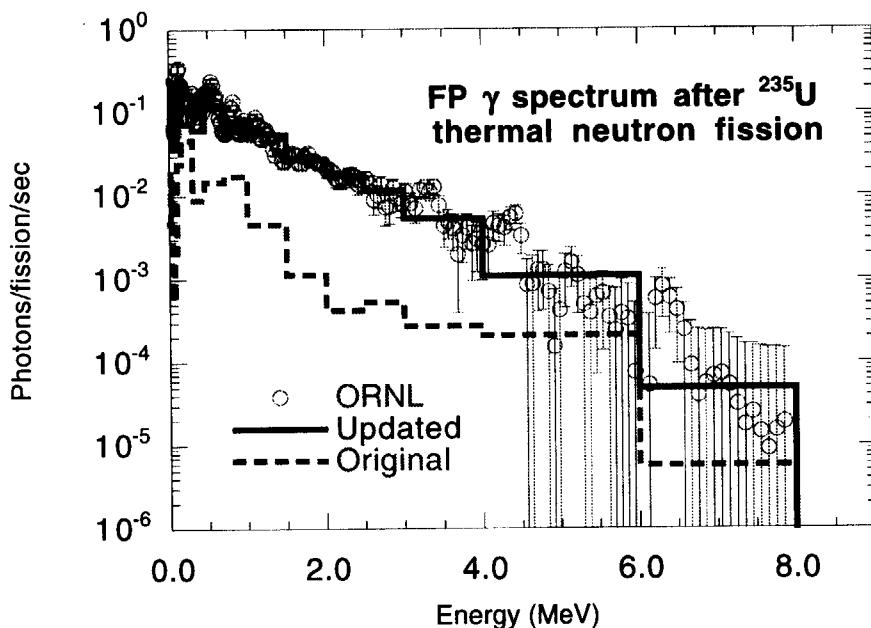


Fig. 3.1 Aggregate FP gamma-ray spectrum after ^{235}U thermal neutron fission

ORNL⁹⁾. Sample of ^{235}U was irradiated for 1 s and the measurement was started at 1.7 s after the end of the irradiation. The measurement time was 1.0 s. In this time region FP nuclides with no measured spectra contribute significantly to the aggregate spectrum. In the figure the ORIGEN2 calculations using the updated library and the original library are shown. As seen in this figure, the calculation using the updated library shows good agreement with the measurement although the calculation using the original library significantly underestimates the measurement. The updated library well compensates the deficiency in the original library.

As another example, photon intensity was calculated and compared with the reference calculation using the JENDL/FPD-00 file. The reference calculation was performed using the program developed

by Oyamatsu¹⁰⁾. The reliability of the combination of the program and the JENDL/FPD-00 file was examined comparing with the exposure rate of FP nuclides at short cooling times after fission burst¹¹⁾. The photon intensities comparing with the reference calculation are shown in Fig. 3.2 for ^{235}U thermal neutron fission. Although the calculation using the original libraries shows large discrepancies at

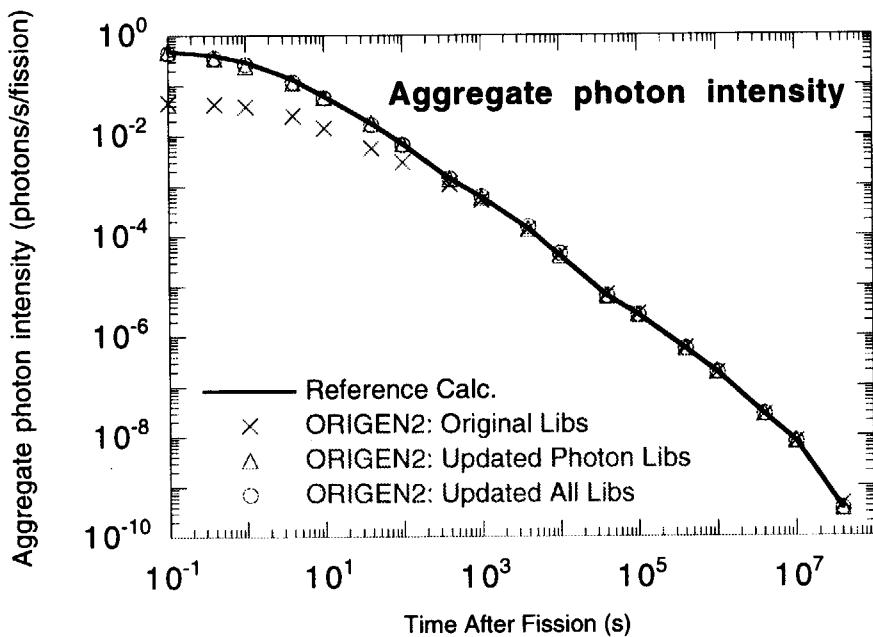


Fig. 3.2 Aggregate FP photon intensity after ^{235}U thermal neutron fission

short cooling times, the calculation using the updated library shows good agreement with the reference calculation. The calculation shown as “Updated All Libs” in Fig. 3.2 was performed using the update photon library, decay library and fission yield data converted from the JNDC-V2¹²⁾ file. This fission yield data were prepared when the ORIGEN2 cross section data based on JENDL-3.2 were produced¹⁴⁾. The underestimation of the original library, however, is diminished after 10^3 s of cooling times and the difference is not clear at this time region. The updated library then affects the intensity at shorter cooling times than 10^3 s.

3.2 FP Decay Heat

Calculation of fission products decay heat was also carried out using the updated decay library. The calculated results were compared with the recommendation of Atomic Energy Society of Japan (hereafter AESJ recommendation)¹⁵⁾. An example is shown in Fig. 3.3. This figure shows the ratios of the calculated decay heat values to the AESJ recommendation for ^{235}U burst fission. The calculation using the original ORIGEN2 decay data library is also shown in this figure. The ratios of the calculated

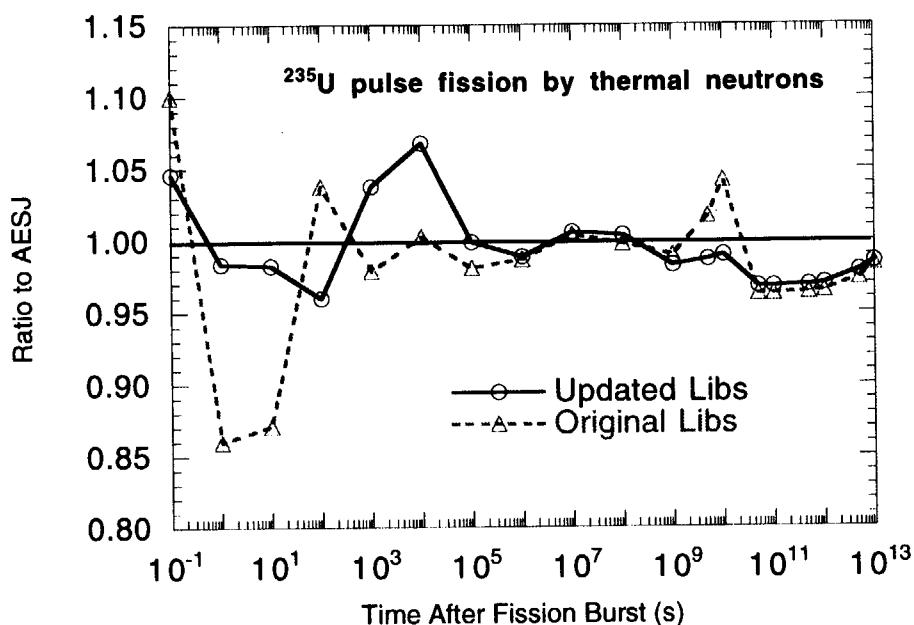


Fig. 3.3 Ratio of decay heat values to those of the AESJ recommendation

decay heat using the updated library to the AESJ recommendation stay within 5 %. The calculation using the original library shows about 15 % deviation between 1 to 10 s. One should notice that the deference seen in Fig. 3.3 is not so large comparing with the deficiency seen in Fig. 3.1 where aggregate FP spectrum is compared. This is because the ORIGEN2 decay data library adopted the ENDF/B-IV⁵⁾ data for short-lived nuclides that had not observed experimentally⁷⁾. For such short-lived nuclides, theoretically estimated decay energy values were adopted in the ENDF/B-IV file. In the JENDL/FPD-00 file which is a basis of the present updated libraries, theoretically estimated decay energy values are also adopted for some short-lived nuclides. The adoption of the theoretically estimated decay energy values in both files makes the differences seen in the decay heat calculation relatively small.

4 Summary

The photon and decay data libraries for the ORIGEN2 code have been updated using JENDL FP Decay Data File 2000. The number of the nuclides having photon data has been increased. The photon data of more than 400 nuclides were newly added in the updated photon library. The calculations of the photon spectrum and the intensity at short cooling times after fission have been improved by using the updated libraries.

In order to use the updated photon library in the ORIGEN2 calculation, the number of non-zero photon yields in the ORIGEN2 code, LLL, should be increased up to at least 12000 because the number of nuclides with photon spectrum is increased from 240 to 695 as described in Chapter 2.1.

Acknowledgements

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Appendix A: Photon Library

The updated ORIGEN2 photon library of FP nuclides with no bremsstrahlung is listed here.

| UPDATED PHOTON LIBRARY: FISSION PRODUCTS (06/02 J. KATAKURA) | | | | | | | |
|--|--------|----|----------|----|----------|----|----------|
| 103 | 290660 | 10 | 1.63E-03 | 11 | 7.40E-02 | -1 | |
| 103 | 290670 | 1 | 6.61E-02 | 5 | 2.31E-01 | 7 | 4.88E-01 |
| 103 | 300690 | 8 | 1.20E-05 | -1 | | | |
| 103 | 300691 | 1 | 2.20E-02 | 8 | 9.48E-01 | -1 | |
| 103 | 310700 | 1 | 1.89E-03 | 7 | 2.90E-03 | 11 | 6.50E-03 |
| 103 | 300710 | 1 | 7.55E-04 | 6 | 2.98E-02 | 8 | 4.49E-02 |
| | | 11 | 2.50E-02 | 12 | 5.79E-03 | 13 | 7.04E-04 |
| 103 | 300711 | 1 | 1.81E-03 | 5 | 6.23E-04 | 6 | 8.46E-02 |
| | | 10 | 1.21E-01 | 11 | 6.53E-02 | 12 | 1.14E-02 |
| 103 | 320710 | 1 | 4.53E-01 | -1 | | | |
| 103 | 270720 | 1 | 4.34E-04 | 2 | 2.17E-04 | 3 | 3.25E-04 |
| | | 6 | 2.25E-03 | 7 | 9.27E-03 | 8 | 1.60E-02 |
| | | 11 | 1.35E-01 | 12 | 1.35E-01 | 13 | 1.40E-01 |
| | | 16 | 3.19E-01 | 17 | 1.11E-01 | 18 | 3.06E-02 |
| 103 | 280720 | 1 | 2.79E-04 | 2 | 1.40E-04 | 3 | 2.10E-04 |
| | | 6 | 1.45E-03 | 7 | 5.97E-03 | 8 | 1.03E-02 |
| | | 11 | 8.51E-02 | 12 | 7.28E-02 | 13 | 6.17E-02 |
| | | 16 | 2.48E-02 | -1 | | | |
| 103 | 290720 | 1 | 4.86E-04 | 2 | 2.43E-04 | 3 | 3.64E-04 |
| | | 6 | 2.52E-03 | 7 | 1.04E-02 | 8 | 1.80E-02 |
| | | 11 | 3.59E-01 | 12 | 3.55E-01 | 13 | 2.20E-01 |
| | | 16 | 3.86E-06 | 17 | 9.74E-07 | -1 | |
| 103 | 300720 | 1 | 5.70E-01 | 3 | 7.05E-03 | 4 | 7.05E-03 |
| | | 7 | 9.37E-02 | -1 | | | |
| 103 | 310720 | 1 | 2.83E-03 | 4 | 1.00E-04 | 6 | 1.52E-03 |
| | | 9 | 3.06E-01 | 10 | 1.15E+00 | 11 | 1.57E-01 |
| | | 14 | 1.38E-01 | 15 | 3.05E-04 | -1 | |
| 103 | 270730 | 1 | 3.16E-04 | 2 | 1.58E-04 | 3 | 2.37E-04 |
| | | 6 | 1.64E-03 | 7 | 6.75E-03 | 8 | 1.17E-02 |
| | | 11 | 9.76E-02 | 12 | 9.46E-02 | 13 | 9.51E-02 |
| | | 16 | 1.98E-01 | 17 | 6.49E-02 | 18 | 1.73E-02 |
| 103 | 280730 | 1 | 2.58E-04 | 2 | 1.29E-04 | 3 | 1.94E-04 |
| | | 6 | 1.34E-03 | 7 | 5.52E-03 | 8 | 9.55E-03 |
| | | 11 | 7.95E-02 | 12 | 7.46E-02 | 13 | 7.20E-02 |
| | | 16 | 9.76E-02 | 17 | 2.14E-02 | 18 | 8.36E-04 |
| 103 | 290730 | 1 | 1.94E-04 | 2 | 9.72E-05 | 3 | 1.46E-04 |
| | | 6 | 1.01E-03 | 7 | 4.16E-03 | 8 | 7.19E-03 |
| | | 11 | 5.92E-02 | 12 | 5.14E-02 | 13 | 4.75E-02 |
| | | 16 | 2.30E-02 | -1 | | | |
| 103 | 300730 | 1 | 5.63E-04 | 2 | 1.57E-04 | 3 | 2.35E-04 |
| | | 6 | 1.63E-03 | 7 | 3.38E-02 | 8 | 1.21E-02 |
| | | 11 | 1.01E-01 | 12 | 9.64E-02 | 13 | 9.30E-02 |
| | | 16 | 1.61E-02 | -1 | | | |
| 103 | 310730 | 1 | 4.35E-04 | 4 | 3.99E-03 | 7 | 8.02E-01 |
| | | 10 | 5.81E-02 | 11 | 1.28E-02 | -1 | |
| 103 | 320731 | 1 | 5.69E-01 | 4 | 1.03E-01 | -1 | |
| 103 | 270740 | 1 | 4.34E-04 | 2 | 2.17E-04 | 3 | 3.26E-04 |
| | | 6 | 2.25E-03 | 7 | 9.28E-03 | 8 | 1.60E-02 |
| | | 11 | 1.35E-01 | 12 | 1.35E-01 | 13 | 1.41E-01 |
| | | 16 | 3.64E-01 | 17 | 1.46E-01 | 18 | 4.79E-02 |
| 103 | 280740 | 1 | 2.56E-04 | 2 | 1.28E-04 | 3 | 1.92E-04 |
| | | 6 | 1.33E-03 | 7 | 5.48E-03 | 8 | 9.48E-03 |
| | | 10 | 4.26E-02 | -1 | | | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 11 | 7.85E-02 | 12 | 7.02E-02 | 13 | 6.25E-02 | 14 | 5.39E-02 | 15 | 7.98E-02 |
| | | 16 | 6.74E-02 | 17 | 5.96E-03 | -1 | | | | | |
| 103 | 290740 | 1 | 4.77E-04 | 2 | 2.38E-04 | 3 | 3.58E-04 | 4 | 5.96E-04 | 5 | 7.15E-04 |
| | | 6 | 2.47E-03 | 7 | 1.02E-02 | 8 | 1.76E-02 | 9 | 4.46E-02 | 10 | 7.92E-02 |
| | | 11 | 1.47E-01 | 12 | 1.42E-01 | 13 | 1.38E-01 | 14 | 1.30E-01 | 15 | 2.04E-01 |
| | | 16 | 2.01E-01 | 17 | 4.70E-02 | 18 | 1.80E-03 | -1 | | | |
| 103 | 300740 | 1 | 7.81E-04 | 2 | 3.90E-04 | 3 | 5.85E-04 | 4 | 9.76E-04 | 5 | 1.17E-03 |
| | | 6 | 4.05E-03 | 7 | 1.67E-02 | 8 | 2.89E-02 | 9 | 7.31E-02 | 10 | 1.30E-01 |
| | | 11 | 2.37E-01 | 12 | 1.69E-01 | 13 | 4.48E-02 | -1 | | | |
| 103 | 310740 | 7 | 2.66E-03 | 8 | 2.57E-03 | 9 | 1.18E+00 | 10 | 1.52E-01 | 11 | 2.72E-01 |
| | | 12 | 1.55E-01 | 13 | 5.50E-01 | 14 | 6.59E-02 | 15 | 3.68E-02 | -1 | |
| 103 | 270750 | 1 | 3.29E-04 | 2 | 1.64E-04 | 3 | 2.47E-04 | 4 | 4.11E-04 | 5 | 4.93E-04 |
| | | 6 | 1.71E-03 | 7 | 7.03E-03 | 8 | 1.22E-02 | 9 | 3.08E-02 | 10 | 5.46E-02 |
| | | 11 | 1.02E-01 | 12 | 9.78E-02 | 13 | 9.86E-02 | 14 | 9.91E-02 | 15 | 1.84E-01 |
| | | 16 | 2.45E-01 | 17 | 9.99E-02 | 18 | 3.46E-02 | -1 | | | |
| 103 | 280750 | 1 | 2.92E-04 | 2 | 1.46E-04 | 3 | 2.19E-04 | 4 | 3.65E-04 | 5 | 4.37E-04 |
| | | 6 | 1.51E-03 | 7 | 6.23E-03 | 8 | 1.08E-02 | 9 | 2.73E-02 | 10 | 4.84E-02 |
| | | 11 | 9.00E-02 | 12 | 8.59E-02 | 13 | 8.49E-02 | 14 | 8.20E-02 | 15 | 1.35E-01 |
| | | 16 | 1.41E-01 | 17 | 3.91E-02 | 18 | 6.94E-03 | -1 | | | |
| 103 | 290750 | 1 | 2.15E-04 | 2 | 1.08E-04 | 3 | 1.61E-04 | 4 | 2.69E-04 | 5 | 3.23E-04 |
| | | 6 | 1.12E-03 | 7 | 4.60E-03 | 8 | 7.96E-03 | 9 | 2.01E-02 | 10 | 3.57E-02 |
| | | 11 | 6.61E-02 | 12 | 6.02E-02 | 13 | 5.61E-02 | 14 | 5.21E-02 | 15 | 7.79E-02 |
| | | 16 | 6.08E-02 | 17 | 4.58E-03 | -1 | | | | | |
| 103 | 300750 | 2 | 4.34E-03 | 7 | 5.36E-01 | 8 | 3.91E-01 | 9 | 2.34E-01 | 10 | 2.03E-01 |
| | | 11 | 1.85E-01 | 12 | 2.05E-01 | 13 | 2.31E-01 | 14 | 3.99E-02 | -1 | |
| 103 | 310750 | 1 | 1.41E-04 | 2 | 7.03E-05 | 3 | 1.06E-04 | 4 | 1.76E-04 | 5 | 2.11E-04 |
| | | 6 | 7.30E-04 | 7 | 3.01E-03 | 8 | 5.20E-03 | 9 | 1.32E-02 | 10 | 2.34E-02 |
| | | 11 | 4.29E-02 | 12 | 3.99E-02 | 13 | 4.30E-02 | 14 | 3.60E-02 | 15 | 7.68E-03 |
| | | -1 | | | | | | | | | |
| 103 | 320750 | 4 | 1.14E-03 | 7 | 1.26E-01 | 8 | 2.10E-03 | 9 | 3.37E-03 | -1 | |
| 103 | 320751 | 1 | 2.68E-01 | 4 | 1.16E-04 | 5 | 3.10E-05 | 6 | 3.88E-01 | -1 | |
| 103 | 280760 | 1 | 2.48E-04 | 2 | 1.24E-04 | 3 | 1.86E-04 | 4 | 3.10E-04 | 5 | 3.72E-04 |
| | | 6 | 1.29E-03 | 7 | 5.30E-03 | 8 | 9.17E-03 | 9 | 2.32E-02 | 10 | 4.12E-02 |
| | | 11 | 7.61E-02 | 12 | 6.92E-02 | 13 | 6.41E-02 | 14 | 5.82E-02 | 15 | 9.35E-02 |
| | | 16 | 9.49E-02 | 17 | 2.40E-02 | 18 | 1.29E-03 | -1 | | | |
| 103 | 290760 | 1 | 8.34E-04 | 2 | 4.17E-04 | 3 | 6.26E-04 | 4 | 1.04E-03 | 5 | 1.25E-03 |
| | | 6 | 4.33E-03 | 7 | 1.78E-02 | 8 | 3.08E-02 | 9 | 7.81E-02 | 10 | 1.39E-01 |
| | | 11 | 2.58E-01 | 12 | 2.36E-01 | 13 | 1.85E-01 | 14 | 1.55E-01 | 15 | 2.22E-01 |
| | | 16 | 1.80E-01 | 17 | 1.94E-02 | 18 | 1.02E-07 | -1 | | | |
| 103 | 300760 | 1 | 1.75E-04 | 2 | 8.76E-05 | 3 | 1.31E-04 | 4 | 2.19E-04 | 5 | 2.24E-01 |
| | | 6 | 1.49E-02 | 7 | 7.42E-01 | 8 | 7.59E-02 | 9 | 4.03E-02 | 10 | 1.13E-01 |
| | | 11 | 1.10E-01 | 12 | 6.07E-02 | 13 | 3.93E-02 | 14 | 2.02E-02 | 15 | 1.60E-02 |
| | | -1 | | | | | | | | | |
| 103 | 310760 | 8 | 1.45E-01 | 9 | 9.27E-01 | 10 | 1.25E-01 | 11 | 2.44E-01 | 12 | 1.45E-01 |
| | | 13 | 1.57E-01 | 14 | 2.18E-01 | 15 | 1.74E-01 | 16 | 4.75E-03 | -1 | |
| 103 | 330760 | 8 | 4.72E-04 | 9 | 5.31E-01 | 10 | 5.28E-03 | 11 | 6.61E-02 | 12 | 3.98E-03 |
| | | 13 | 9.10E-03 | 14 | 4.39E-04 | -1 | | | | | |
| 103 | 280770 | 1 | 3.17E-04 | 2 | 1.59E-04 | 3 | 2.38E-04 | 4 | 3.97E-04 | 5 | 4.76E-04 |
| | | 6 | 1.65E-03 | 7 | 6.78E-03 | 8 | 1.17E-02 | 9 | 2.97E-02 | 10 | 5.27E-02 |
| | | 11 | 9.77E-02 | 12 | 9.26E-02 | 13 | 9.24E-02 | 14 | 9.16E-02 | 15 | 1.63E-01 |
| | | 16 | 2.04E-01 | 17 | 7.36E-02 | 18 | 2.25E-02 | -1 | | | |
| 103 | 290770 | 1 | 2.37E-04 | 2 | 1.18E-04 | 3 | 1.77E-04 | 4 | 2.96E-04 | 5 | 3.55E-04 |
| | | 6 | 1.23E-03 | 7 | 5.06E-03 | 8 | 8.75E-03 | 9 | 2.21E-02 | 10 | 3.93E-02 |
| | | 11 | 7.28E-02 | 12 | 6.76E-02 | 13 | 6.47E-02 | 14 | 6.13E-02 | 15 | 9.78E-02 |
| | | 16 | 9.30E-02 | 17 | 2.11E-02 | 18 | 6.32E-04 | -1 | | | |
| 103 | 300770 | 4 | 1.97E-02 | 6 | 7.87E-02 | 7 | 4.74E-01 | 8 | 2.43E-01 | 9 | 5.15E-01 |
| | | 10 | 3.89E-01 | 11 | 2.81E-01 | 12 | 3.10E-01 | 13 | 2.53E-02 | 14 | 1.66E-02 |
| | | 15 | 4.07E-02 | -1 | | | | | | | |
| 103 | 310770 | 1 | 2.41E-04 | 2 | 1.21E-04 | 3 | 1.81E-04 | 4 | 3.02E-04 | 5 | 3.62E-04 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 6 | 1.25E-03 | 7 | 5.16E-03 | 8 | 8.93E-03 | 9 | 2.26E-02 | 10 | 4.01E-02 |
| | | 11 | 7.26E-02 | 12 | 5.60E-02 | 13 | 4.85E-02 | 14 | 4.37E-02 | 15 | 6.76E-02 |
| | | 16 | 2.01E-02 | -1 | | | | | | | |
| 103 | 320770 | 7 | 1.18E+00 | 8 | 3.84E-01 | 9 | 3.06E-01 | 10 | 2.27E-01 | 11 | 1.73E-01 |
| | | 12 | 2.28E-02 | 13 | 1.93E-02 | -1 | | | | | |
| 103 | 320771 | 1 | 4.41E-02 | 7 | 3.32E-01 | 8 | 9.70E-04 | 9 | 4.50E-04 | -1 | |
| 103 | 330770 | 5 | 2.02E-03 | 6 | 1.11E-04 | 7 | 2.05E-02 | 8 | 1.02E-05 | 9 | 5.58E-03 |
| | | -1 | | | | | | | | | |
| 103 | 340771 | 1 | 2.36E-01 | 7 | 5.25E-01 | -1 | | | | | |
| 103 | 280780 | 1 | 2.39E-04 | 2 | 1.19E-04 | 3 | 1.79E-04 | 4 | 2.98E-04 | 5 | 3.58E-04 |
| | | 6 | 1.24E-03 | 7 | 5.10E-03 | 8 | 8.83E-03 | 9 | 2.23E-02 | 10 | 3.96E-02 |
| | | 11 | 7.31E-02 | 12 | 6.59E-02 | 13 | 6.15E-02 | 14 | 5.77E-02 | 15 | 9.98E-02 |
| | | 16 | 1.22E-01 | 17 | 4.37E-02 | 18 | 9.99E-03 | -1 | | | |
| 103 | 290780 | 1 | 4.17E-04 | 2 | 2.08E-04 | 3 | 3.13E-04 | 4 | 5.21E-04 | 5 | 6.25E-04 |
| | | 6 | 2.16E-03 | 7 | 8.91E-03 | 8 | 1.54E-02 | 9 | 3.90E-02 | 10 | 6.92E-02 |
| | | 11 | 1.29E-01 | 12 | 1.25E-01 | 13 | 1.26E-01 | 14 | 1.25E-01 | 15 | 2.21E-01 |
| | | 16 | 2.71E-01 | 17 | 9.34E-02 | 18 | 2.54E-02 | -1 | | | |
| 103 | 300780 | 4 | 2.59E-02 | 5 | 5.93E-03 | 6 | 9.70E-02 | 7 | 9.89E-01 | 8 | 2.61E-01 |
| | | 9 | 4.16E-01 | 10 | 4.85E-01 | 11 | 1.71E-01 | 12 | 4.52E-02 | 13 | 7.55E-02 |
| 103 | 310780 | 8 | 5.24E-02 | 9 | 1.08E+00 | 10 | 1.05E-01 | 11 | 5.36E-01 | 12 | 2.16E-01 |
| | | 13 | 1.17E-01 | 14 | 7.85E-02 | 15 | 6.64E-02 | 16 | 1.31E-02 | -1 | |
| 103 | 320780 | 7 | 1.00E+00 | -1 | | | | | | | |
| 103 | 330780 | 7 | 2.72E-03 | 8 | 2.26E-02 | 9 | 7.72E-01 | 10 | 1.31E-01 | 11 | 3.00E-01 |
| | | 12 | 1.05E-01 | 13 | 2.20E-02 | 14 | 3.10E-02 | 15 | 6.50E-04 | -1 | |
| 103 | 290790 | 1 | 3.19E-04 | 2 | 1.60E-04 | 3 | 2.39E-04 | 4 | 3.99E-04 | 5 | 4.79E-04 |
| | | 6 | 1.66E-03 | 7 | 6.82E-03 | 8 | 1.18E-02 | 9 | 2.99E-02 | 10 | 5.30E-02 |
| | | 11 | 9.76E-02 | 12 | 8.69E-02 | 13 | 7.91E-02 | 14 | 7.14E-02 | 15 | 1.16E-01 |
| | | 16 | 1.25E-01 | 17 | 3.50E-02 | 18 | 1.84E-03 | -1 | | | |
| 103 | 300790 | 1 | 2.07E-04 | 2 | 1.03E-04 | 3 | 1.55E-04 | 4 | 2.59E-04 | 5 | 3.10E-04 |
| | | 6 | 1.07E-03 | 7 | 2.40E-01 | 8 | 9.06E-02 | 9 | 1.45E-01 | 10 | 1.30E+00 |
| | | 11 | 2.92E-01 | 12 | 2.10E-01 | 13 | 1.23E-01 | 14 | 7.13E-02 | 15 | 9.07E-02 |
| 103 | 310790 | 1 | 9.95E-03 | 5 | 3.19E-02 | 6 | 4.33E-02 | 7 | 1.08E-02 | 8 | 3.22E-02 |
| | | 9 | 5.18E-01 | 10 | 6.90E-02 | 11 | 3.12E-01 | 12 | 1.86E-01 | 13 | 1.86E-01 |
| | | 14 | 1.03E-01 | 15 | 9.67E-02 | 16 | 1.45E-03 | -1 | | | |
| 103 | 320790 | 1 | 1.55E-02 | 2 | 1.88E-05 | 3 | 2.81E-05 | 4 | 4.69E-05 | 5 | 5.63E-05 |
| | | 6 | 2.26E-01 | 7 | 1.79E-02 | 8 | 4.76E-03 | 9 | 3.84E-02 | 10 | 2.74E-02 |
| | | 11 | 5.69E-02 | 12 | 1.13E-01 | 13 | 1.02E-02 | 14 | 1.19E-02 | 15 | 8.44E-03 |
| | | 16 | 1.02E-04 | -1 | | | | | | | |
| 103 | 330790 | 8 | 3.71E-02 | 9 | 4.92E-03 | 10 | 1.94E-02 | -1 | | | |
| 103 | 340791 | 1 | 4.29E-01 | 5 | 9.61E-02 | -1 | | | | | |
| 103 | 350791 | 1 | 1.29E-01 | 7 | 7.64E-01 | -1 | | | | | |
| 103 | 290800 | 1 | 3.77E-04 | 2 | 1.88E-04 | 3 | 2.83E-04 | 4 | 4.71E-04 | 5 | 5.65E-04 |
| | | 6 | 1.96E-03 | 7 | 8.06E-03 | 8 | 1.39E-02 | 9 | 3.53E-02 | 10 | 6.26E-02 |
| | | 11 | 1.16E-01 | 12 | 1.06E-01 | 13 | 1.04E-01 | 14 | 1.04E-01 | 15 | 1.95E-01 |
| | | 16 | 2.90E-01 | 17 | 1.37E-01 | 18 | 5.75E-02 | -1 | | | |
| 103 | 300800 | 5 | 7.17E-02 | 6 | 2.71E-03 | 7 | 1.16E-01 | 8 | 1.11E-01 | 9 | 5.09E-01 |
| | | 10 | 1.23E+00 | 11 | 2.53E-01 | 12 | 5.32E-02 | -1 | | | |
| 103 | 310800 | 1 | 3.09E-04 | 2 | 1.55E-04 | 3 | 2.32E-04 | 4 | 3.87E-04 | 5 | 4.64E-04 |
| | | 6 | 1.61E-03 | 7 | 6.61E-03 | 8 | 1.53E-02 | 9 | 1.03E+00 | 10 | 1.57E-01 |
| | | 11 | 9.96E-01 | 12 | 2.16E-01 | 13 | 1.49E-01 | 14 | 1.36E-01 | 15 | 1.04E-01 |
| | | 16 | 3.89E-02 | 17 | 3.73E-06 | 18 | 5.21E-07 | -1 | | | |
| 103 | 320800 | 1 | 2.62E-04 | 2 | 1.31E-04 | 3 | 1.96E-04 | 4 | 3.27E-04 | 5 | 3.92E-04 |
| | | 6 | 4.83E-02 | 7 | 2.01E-01 | 8 | 3.48E-02 | 9 | 4.93E-02 | 10 | 7.87E-02 |
| | | 11 | 1.42E-01 | 12 | 9.80E-02 | 13 | 4.60E-02 | 14 | 3.47E-03 | -1 | |
| 103 | 330800 | 9 | 4.20E-01 | 10 | 2.02E-02 | 11 | 6.64E-02 | 12 | 9.11E-02 | 13 | 9.66E-03 |
| | | 14 | 7.98E-03 | 15 | 1.26E-03 | -1 | | | | | |
| 103 | 350800 | 1 | 3.34E-02 | 9 | 1.25E-01 | 10 | 2.37E-03 | 11 | 7.40E-04 | -1 | |

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| | | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|--|
| 103 | 350801 | 1 | 7.93E-01 | 3 | 3.93E-01 | 4 | 1.59E-03 | -1 | | | | |
| 103 | 290810 | 1 | 3.12E-04 | 2 | 1.56E-04 | 3 | 2.34E-04 | 4 | 3.90E-04 | 5 | 4.68E-04 | |
| | | 6 | 1.62E-03 | 7 | 6.67E-03 | 8 | 1.15E-02 | 9 | 2.92E-02 | 10 | 5.18E-02 | |
| | | 11 | 9.56E-02 | 12 | 8.80E-02 | 13 | 8.61E-02 | 14 | 8.55E-02 | 15 | 1.57E-01 | |
| | | 16 | 2.19E-01 | 17 | 9.71E-02 | 18 | 3.87E-02 | -1 | | | | |
| 103 | 300810 | 1 | 3.00E-04 | 2 | 1.50E-04 | 3 | 2.25E-04 | 4 | 3.75E-04 | 5 | 4.50E-04 | |
| | | 6 | 1.56E-03 | 7 | 6.41E-03 | 8 | 1.11E-02 | 9 | 2.81E-02 | 10 | 4.98E-02 | |
| | | 11 | 9.18E-02 | 12 | 8.42E-02 | 13 | 8.25E-02 | 14 | 8.12E-02 | 15 | 1.40E-01 | |
| | | 16 | 1.75E-01 | 17 | 6.64E-02 | 18 | 2.08E-02 | -1 | | | | |
| 103 | 310810 | 1 | 1.27E-03 | 7 | 3.79E-01 | 8 | 1.65E-03 | 9 | 1.19E-01 | 10 | 5.50E-01 | |
| | | 11 | 2.68E-01 | 12 | 1.92E-01 | 13 | 1.91E-01 | 14 | 6.79E-02 | 15 | 7.37E-02 | |
| | | 16 | 2.90E-02 | -1 | | | | | | | | |
| 103 | 320810 | 1 | 1.38E-02 | 5 | 1.35E-01 | 6 | 4.40E-02 | 7 | 1.69E-01 | 8 | 6.55E-01 | |
| | | 9 | 2.38E-01 | 10 | 1.02E+00 | 11 | 8.03E-01 | 12 | 2.60E-01 | 13 | 3.55E-02 | |
| | | 14 | 7.38E-02 | -1 | | | | | | | | |
| 103 | 330810 | 1 | 1.39E-04 | 7 | 2.84E-03 | 8 | 8.60E-03 | 9 | 2.99E-01 | 10 | 1.44E-02 | |
| | | 11 | 9.98E-03 | 12 | 8.08E-03 | 13 | 1.13E-02 | 14 | 7.06E-03 | 15 | 3.60E-04 | |
| | | -1 | | | | | | | | | | |
| 103 | 340810 | 1 | 1.07E-04 | 7 | 1.24E-02 | 9 | 3.81E-03 | 10 | 2.84E-03 | 11 | 1.41E-05 | |
| | | -1 | | | | | | | | | | |
| 103 | 340811 | 1 | 4.12E-01 | 6 | 1.27E-01 | -1 | | | | | | |
| 103 | 360810 | 1 | 5.37E-01 | 7 | 2.97E-03 | -1 | | | | | | |
| 103 | 360811 | 1 | 1.78E-01 | 7 | 6.70E-01 | -1 | | | | | | |
| 103 | 300820 | 1 | 2.66E-04 | 2 | 1.33E-04 | 3 | 2.00E-04 | 4 | 3.33E-04 | 5 | 3.99E-04 | |
| | | 6 | 1.38E-03 | 7 | 5.69E-03 | 8 | 9.83E-03 | 9 | 2.49E-02 | 10 | 4.42E-02 | |
| | | 11 | 8.15E-02 | 12 | 7.40E-02 | 13 | 6.95E-02 | 14 | 6.53E-02 | 15 | 1.13E-01 | |
| | | 16 | 1.40E-01 | 17 | 5.12E-02 | 18 | 1.51E-02 | -1 | | | | |
| 103 | 310820 | 1 | 7.50E-04 | 2 | 3.75E-04 | 3 | 5.62E-04 | 4 | 9.37E-04 | 5 | 1.12E-03 | |
| | | 6 | 3.89E-03 | 7 | 1.60E-02 | 8 | 2.77E-02 | 9 | 7.02E-02 | 10 | 1.24E-01 | |
| | | 11 | 2.33E-01 | 12 | 1.98E-01 | 13 | 1.76E-01 | 14 | 1.57E-01 | 15 | 2.48E-01 | |
| | | 16 | 2.48E-01 | 17 | 6.26E-02 | 18 | 4.14E-03 | -1 | | | | |
| 103 | 320820 | 1 | 2.08E-04 | 2 | 1.04E-04 | 3 | 1.56E-04 | 4 | 2.60E-04 | 5 | 3.12E-04 | |
| | | 6 | 1.08E-03 | 7 | 4.45E-03 | 8 | 7.70E-03 | 9 | 1.95E-02 | 10 | 3.46E-02 | |
| | | 11 | 6.26E-02 | 12 | 4.94E-02 | 13 | 4.67E-02 | 14 | 4.94E-02 | 15 | 8.22E-02 | |
| | | 16 | 7.29E-03 | -1 | | | | | | | | |
| 103 | 330820 | 1 | 4.63E-04 | 2 | 2.32E-04 | 3 | 3.47E-04 | 4 | 5.79E-04 | 5 | 6.95E-04 | |
| | | 6 | 2.40E-03 | 7 | 9.90E-03 | 8 | 1.71E-02 | 9 | 1.04E-01 | 10 | 8.41E-02 | |
| | | 11 | 1.52E-01 | 12 | 1.39E-01 | 13 | 9.61E-02 | 14 | 8.06E-02 | 15 | 2.20E-02 | |
| | | 16 | 2.58E-06 | 17 | 3.71E-07 | -1 | | | | | | |
| 103 | 330821 | 8 | 5.76E-01 | 9 | 8.52E-01 | 10 | 3.73E-01 | 11 | 3.21E-01 | 12 | 7.76E-01 | |
| | | -1 | | | | | | | | | | |
| 103 | 350820 | 1 | 1.23E-03 | 5 | 7.18E-03 | 6 | 2.52E-03 | 7 | 3.08E-02 | 8 | 9.93E-04 | |
| | | 9 | 1.44E+00 | 10 | 1.08E+00 | 11 | 7.21E-01 | 12 | 9.20E-03 | -1 | | |
| 103 | 350821 | 1 | 3.88E-01 | 3 | 1.19E-03 | 4 | 1.19E-03 | 9 | 3.60E-04 | 10 | 2.61E-03 | |
| | | 11 | 2.49E-04 | 12 | 1.66E-05 | 14 | 7.26E-07 | -1 | | | | |
| 103 | 300830 | 1 | 4.03E-04 | 2 | 2.02E-04 | 3 | 3.02E-04 | 4 | 5.04E-04 | 5 | 6.05E-04 | |
| | | 6 | 2.09E-03 | 7 | 8.62E-03 | 8 | 1.49E-02 | 9 | 3.77E-02 | 10 | 6.69E-02 | |
| | | 11 | 1.24E-01 | 12 | 1.17E-01 | 13 | 1.16E-01 | 14 | 1.15E-01 | 15 | 2.03E-01 | |
| | | 16 | 2.58E-01 | 17 | 9.74E-02 | 18 | 3.15E-02 | -1 | | | | |
| 103 | 310830 | 1 | 4.18E-04 | 2 | 2.09E-04 | 3 | 3.13E-04 | 4 | 5.22E-04 | 5 | 6.26E-04 | |
| | | 6 | 2.17E-03 | 7 | 8.93E-03 | 8 | 1.54E-02 | 9 | 3.91E-02 | 10 | 6.93E-02 | |
| | | 11 | 1.28E-01 | 12 | 1.20E-01 | 13 | 1.19E-01 | 14 | 1.17E-01 | 15 | 2.06E-01 | |
| | | 16 | 2.45E-01 | 17 | 8.33E-02 | 18 | 2.38E-02 | -1 | | | | |
| 103 | 320830 | 1 | 6.64E-04 | 2 | 3.32E-04 | 3 | 4.98E-04 | 4 | 8.30E-04 | 5 | 9.95E-04 | |
| | | 6 | 3.44E-03 | 7 | 1.42E-02 | 8 | 2.61E-01 | 9 | 6.98E-02 | 10 | 1.51E-01 | |
| | | 11 | 3.66E-01 | 12 | 2.22E-01 | 13 | 1.33E-01 | 14 | 1.25E-01 | 15 | 8.06E-02 | |
| | | 16 | 9.74E-02 | 17 | 1.98E-05 | 18 | 2.32E-07 | -1 | | | | |
| 103 | 330830 | 1 | 6.55E-04 | 2 | 3.28E-04 | 3 | 4.92E-04 | 4 | 8.19E-04 | 5 | 9.83E-04 | |
| | | 6 | 3.40E-03 | 7 | 1.40E-02 | 8 | 2.42E-02 | 9 | 6.13E-02 | 10 | 1.09E-01 | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 11 | 2.00E-01 | 12 | 1.72E-01 | 13 | 1.54E-01 | 14 | 1.44E-01 | 15 | 2.45E-01 |
| | | 16 | 1.05E-01 | -1 | | | | | | | |
| 103 | 340830 | 7 | 3.51E-01 | 8 | 7.54E-01 | 9 | 6.79E-01 | 10 | 7.23E-01 | 11 | 4.48E-01 |
| | | 12 | 2.22E-01 | 13 | 1.54E-01 | -1 | | | | | |
| 103 | 340831 | 7 | 5.06E-03 | 8 | 1.78E-01 | 9 | 1.60E-01 | 10 | 1.92E-01 | 11 | 3.01E-01 |
| | | 12 | 4.36E-02 | 13 | 1.14E-01 | 14 | 9.63E-04 | 15 | 4.38E-04 | -1 | |
| 103 | 350830 | 6 | 1.32E-05 | 9 | 1.28E-02 | 10 | 6.00E-08 | -1 | | | |
| 103 | 360831 | 1 | 2.46E-01 | 3 | 5.49E-04 | -1 | | | | | |
| 103 | 310840 | 1 | 4.43E-04 | 2 | 2.22E-04 | 3 | 3.32E-04 | 4 | 5.54E-04 | 5 | 6.65E-04 |
| | | 6 | 2.30E-03 | 7 | 9.47E-03 | 8 | 1.64E-02 | 9 | 4.15E-02 | 10 | 7.36E-02 |
| | | 11 | 1.37E-01 | 12 | 1.34E-01 | 13 | 1.36E-01 | 14 | 1.35E-01 | 15 | 2.44E-01 |
| | | 16 | 3.12E-01 | 17 | 1.12E-01 | 18 | 3.27E-02 | -1 | | | |
| 103 | 320840 | 1 | 4.66E-04 | 2 | 2.33E-04 | 3 | 3.49E-04 | 4 | 5.82E-04 | 5 | 6.99E-04 |
| | | 6 | 2.42E-03 | 7 | 9.96E-03 | 8 | 1.72E-02 | 9 | 4.36E-02 | 10 | 7.74E-02 |
| | | 11 | 1.43E-01 | 12 | 1.27E-01 | 13 | 1.14E-01 | 14 | 1.00E-01 | 15 | 1.54E-01 |
| | | 16 | 1.46E-01 | 17 | 2.90E-02 | 18 | 1.23E-07 | -1 | | | |
| 103 | 330840 | 1 | 1.25E-04 | 2 | 6.26E-05 | 3 | 9.38E-05 | 4 | 1.56E-04 | 5 | 1.88E-04 |
| | | 6 | 6.49E-04 | 7 | 2.67E-03 | 8 | 4.63E-03 | 9 | 2.54E-01 | 10 | 2.08E-02 |
| | | 11 | 6.16E-01 | 12 | 7.90E-02 | 13 | 1.19E-01 | 14 | 3.26E-02 | 15 | 5.01E-02 |
| | | 16 | 5.17E-02 | 17 | 1.18E-06 | 18 | 1.17E-07 | -1 | | | |
| 103 | 340840 | 8 | 1.00E+00 | 9 | 2.40E-02 | -1 | | | | | |
| 103 | 350840 | 7 | 2.94E-03 | 8 | 9.95E-03 | 9 | 1.94E-02 | 10 | 5.06E-01 | 11 | 1.18E-01 |
| | | 12 | 1.90E-01 | 13 | 1.03E-01 | 14 | 2.25E-02 | 15 | 1.45E-01 | 16 | 2.98E-03 |
| | | -1 | | | | | | | | | |
| 103 | 350841 | 8 | 1.03E+00 | 10 | 9.80E-01 | 11 | 9.80E-01 | 12 | 2.00E-02 | -1 | |
| 103 | 310850 | 1 | 4.41E-04 | 2 | 2.20E-04 | 3 | 3.31E-04 | 4 | 5.51E-04 | 5 | 6.61E-04 |
| | | 6 | 2.29E-03 | 7 | 9.42E-03 | 8 | 1.63E-02 | 9 | 4.12E-02 | 10 | 7.32E-02 |
| | | 11 | 1.36E-01 | 12 | 1.33E-01 | 13 | 1.35E-01 | 14 | 1.34E-01 | 15 | 2.37E-01 |
| | | 16 | 2.85E-01 | 17 | 9.69E-02 | 18 | 2.70E-02 | -1 | | | |
| 103 | 320850 | 1 | 4.58E-04 | 2 | 2.29E-04 | 3 | 3.44E-04 | 4 | 5.73E-04 | 5 | 6.87E-04 |
| | | 6 | 2.38E-03 | 7 | 9.79E-03 | 8 | 1.69E-02 | 9 | 4.29E-02 | 10 | 7.61E-02 |
| | | 11 | 1.41E-01 | 12 | 1.33E-01 | 13 | 1.30E-01 | 14 | 1.25E-01 | 15 | 1.99E-01 |
| | | 16 | 1.97E-01 | 17 | 5.06E-02 | 18 | 6.80E-03 | -1 | | | |
| 103 | 330850 | 1 | 7.44E-04 | 2 | 3.72E-04 | 3 | 5.58E-04 | 4 | 9.29E-04 | 5 | 1.12E-03 |
| | | 6 | 3.86E-03 | 7 | 1.59E-02 | 8 | 2.75E-02 | 9 | 6.96E-02 | 10 | 1.23E-01 |
| | | 11 | 2.28E-01 | 12 | 2.22E-01 | 13 | 2.26E-01 | 14 | 1.76E-01 | 15 | 2.08E-01 |
| | | 16 | 1.03E-01 | 17 | 8.14E-06 | 18 | 1.36E-06 | -1 | | | |
| 103 | 340850 | 8 | 4.83E-01 | 9 | 4.14E-02 | 10 | 1.14E-01 | 11 | 1.97E-01 | 12 | 8.60E-02 |
| | | 13 | 1.03E-01 | 14 | 7.96E-02 | 15 | 2.64E-01 | -1 | | | |
| 103 | 350850 | 5 | 3.77E-04 | 6 | 3.91E-04 | 7 | 1.93E-03 | 8 | 1.06E-03 | 9 | 1.17E-03 |
| | | 10 | 5.65E-02 | 11 | 4.72E-03 | 12 | 5.48E-03 | 13 | 3.47E-04 | -1 | |
| 103 | 360850 | 1 | 1.03E-05 | 9 | 4.34E-03 | -1 | | | | | |
| 103 | 360851 | 1 | 6.24E-02 | 6 | 3.00E-03 | 7 | 7.50E-01 | 8 | 1.40E-01 | 9 | 1.12E-04 |
| | | 10 | 7.50E-05 | -1 | | | | | | | |
| 103 | 320860 | 1 | 4.20E-04 | 2 | 2.10E-04 | 3 | 3.15E-04 | 4 | 5.25E-04 | 5 | 6.31E-04 |
| | | 6 | 2.18E-03 | 7 | 8.99E-03 | 8 | 1.55E-02 | 9 | 3.93E-02 | 10 | 6.98E-02 |
| | | 11 | 1.29E-01 | 12 | 1.21E-01 | 13 | 1.13E-01 | 14 | 1.03E-01 | 15 | 1.64E-01 |
| | | 16 | 1.59E-01 | 17 | 3.85E-02 | 18 | 5.19E-03 | -1 | | | |
| 103 | 330860 | 1 | 4.63E-04 | 2 | 2.32E-04 | 3 | 3.47E-04 | 4 | 5.79E-04 | 5 | 6.95E-04 |
| | | 6 | 2.40E-03 | 7 | 9.90E-03 | 8 | 1.71E-02 | 9 | 4.33E-02 | 10 | 7.69E-02 |
| | | 11 | 1.43E-01 | 12 | 1.39E-01 | 13 | 1.39E-01 | 14 | 1.35E-01 | 15 | 2.26E-01 |
| | | 16 | 2.48E-01 | 17 | 6.97E-02 | 18 | 1.34E-02 | -1 | | | |
| 103 | 340860 | 1 | 9.98E-01 | 3 | 7.68E-02 | 4 | 7.68E-02 | 7 | 1.35E-01 | 8 | 9.42E-02 |
| | | 9 | 3.01E-03 | 10 | 4.69E-02 | 11 | 1.20E-01 | 13 | 6.09E-01 | 14 | 2.16E-01 |
| | | -1 | | | | | | | | | |
| 103 | 350860 | 9 | 4.48E-03 | 10 | 7.30E-02 | 11 | 3.94E-01 | 12 | 8.16E-01 | 13 | 9.54E-02 |
| | | 14 | 2.37E-01 | 16 | 7.42E-02 | 17 | 7.87E-03 | -1 | | | |
| 103 | 370860 | 1 | 1.64E-05 | 11 | 8.64E-02 | -1 | | | | | |
| 103 | 370861 | 1 | 1.07E-02 | 9 | 9.82E-01 | -1 | | | | | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 320870 | 1 | 4.89E-04 | 2 | 2.44E-04 | 3 | 3.67E-04 | 4 | 6.11E-04 | 5 | 7.33E-04 |
| | | 6 | 2.54E-03 | 7 | 1.05E-02 | 8 | 1.81E-02 | 9 | 4.58E-02 | 10 | 8.12E-02 |
| | | 11 | 1.52E-01 | 12 | 1.49E-01 | 13 | 1.50E-01 | 14 | 1.42E-01 | 15 | 2.28E-01 |
| | | 16 | 2.23E-01 | 17 | 5.30E-02 | 18 | 9.36E-03 | -1 | | | |
| 103 | 330870 | 1 | 4.81E-04 | 2 | 2.40E-04 | 3 | 3.61E-04 | 4 | 6.01E-04 | 5 | 7.21E-04 |
| | | 6 | 2.49E-03 | 7 | 1.03E-02 | 8 | 1.78E-02 | 9 | 4.50E-02 | 10 | 7.98E-02 |
| | | 11 | 1.49E-01 | 12 | 1.44E-01 | 13 | 1.43E-01 | 14 | 1.37E-01 | 15 | 2.20E-01 |
| | | 16 | 2.15E-01 | 17 | 5.29E-02 | 18 | 9.32E-03 | -1 | | | |
| 103 | 340870 | 1 | 8.61E-04 | 2 | 4.30E-04 | 3 | 6.46E-04 | 4 | 1.08E-03 | 5 | 1.29E-03 |
| | | 6 | 4.47E-03 | 7 | 3.88E-01 | 8 | 3.78E-01 | 9 | 4.51E-01 | 10 | 2.57E-01 |
| | | 11 | 4.34E-01 | 12 | 2.96E-01 | 13 | 1.49E-01 | 14 | 8.63E-02 | 15 | 9.09E-02 |
| | | 16 | 4.18E-05 | 17 | 7.45E-06 | -1 | | | | | |
| 103 | 350870 | 5 | 1.30E-03 | 6 | 3.60E-04 | 7 | 8.70E-03 | 8 | 3.56E-02 | 9 | 1.03E-01 |
| | | 10 | 7.01E-02 | 11 | 4.33E-01 | 12 | 1.56E-01 | 13 | 1.72E-01 | 14 | 1.53E-01 |
| | | 15 | 1.34E-01 | 16 | 2.26E-01 | -1 | | | | | |
| 103 | 360870 | 1 | 1.23E-03 | 6 | 4.46E-04 | 8 | 4.96E-01 | 9 | 1.99E-02 | 10 | 8.53E-02 |
| | | 11 | 2.22E-02 | 12 | 2.77E-02 | 13 | 3.20E-02 | 14 | 1.36E-01 | 15 | 5.31E-03 |
| | | -1 | | | | | | | | | |
| 103 | 380871 | 1 | 1.06E-01 | 8 | 8.19E-01 | -1 | | | | | |
| 103 | 320880 | 1 | 4.32E-04 | 2 | 2.16E-04 | 3 | 3.24E-04 | 4 | 5.40E-04 | 5 | 6.48E-04 |
| | | 6 | 2.24E-03 | 7 | 9.24E-03 | 8 | 1.60E-02 | 9 | 4.05E-02 | 10 | 7.18E-02 |
| | | 11 | 1.34E-01 | 12 | 1.30E-01 | 13 | 1.26E-01 | 14 | 1.17E-01 | 15 | 1.89E-01 |
| | | 16 | 1.84E-01 | 17 | 4.41E-02 | 18 | 7.92E-03 | -1 | | | |
| 103 | 330880 | 1 | 5.14E-04 | 2 | 2.57E-04 | 3 | 3.86E-04 | 4 | 6.43E-04 | 5 | 7.71E-04 |
| | | 6 | 2.67E-03 | 7 | 1.10E-02 | 8 | 1.90E-02 | 9 | 4.81E-02 | 10 | 8.54E-02 |
| | | 11 | 1.60E-01 | 12 | 1.63E-01 | 13 | 1.67E-01 | 14 | 1.60E-01 | 15 | 2.65E-01 |
| | | 16 | 2.73E-01 | 17 | 6.76E-02 | 18 | 1.25E-02 | -1 | | | |
| 103 | 340880 | 1 | 1.07E-01 | 2 | 3.74E-04 | 3 | 5.60E-04 | 4 | 9.34E-04 | 5 | 1.12E-03 |
| | | 6 | 1.29E-02 | 7 | 2.93E-01 | 8 | 6.27E-02 | 9 | 8.66E-02 | 10 | 1.24E-01 |
| | | 11 | 2.55E-01 | 12 | 3.44E-01 | 13 | 1.19E-01 | 14 | 1.23E-01 | 15 | 7.21E-02 |
| | | 16 | 9.80E-04 | 17 | 2.85E-06 | -1 | | | | | |
| 103 | 350880 | 6 | 3.15E-04 | 7 | 2.27E-03 | 8 | 2.27E-03 | 9 | 2.48E-02 | 10 | 8.25E-01 |
| | | 11 | 1.18E-01 | 12 | 1.32E-01 | 13 | 8.18E-02 | 14 | 1.14E-01 | 15 | 1.40E-01 |
| | | 16 | 2.57E-01 | 17 | 4.41E-03 | -1 | | | | | |
| 103 | 360880 | 1 | 8.39E-02 | 2 | 1.97E-02 | 6 | 1.97E-03 | 7 | 2.94E-01 | 8 | 3.30E-02 |
| | | 9 | 1.38E-02 | 10 | 1.68E-01 | 11 | 7.81E-02 | 12 | 1.47E-01 | 13 | 6.06E-01 |
| | | 14 | 8.13E-03 | -1 | | | | | | | |
| 103 | 370880 | 1 | 1.55E-05 | 8 | 7.79E-04 | 9 | 2.78E-04 | 10 | 1.41E-01 | 11 | 9.07E-03 |
| | | 12 | 2.17E-01 | 13 | 5.67E-03 | 14 | 2.25E-02 | 15 | 5.99E-03 | 16 | 1.63E-03 |
| | | -1 | | | | | | | | | |
| 103 | 330890 | 1 | 5.20E-04 | 2 | 2.60E-04 | 3 | 3.90E-04 | 4 | 6.50E-04 | 5 | 7.80E-04 |
| | | 6 | 2.70E-03 | 7 | 1.11E-02 | 8 | 1.92E-02 | 9 | 4.87E-02 | 10 | 8.64E-02 |
| | | 11 | 1.62E-01 | 12 | 1.64E-01 | 13 | 1.65E-01 | 14 | 1.58E-01 | 15 | 2.54E-01 |
| | | 16 | 2.46E-01 | 17 | 5.69E-02 | 18 | 1.01E-02 | -1 | | | |
| 103 | 340890 | 1 | 3.34E-04 | 2 | 1.67E-04 | 3 | 2.51E-04 | 4 | 4.18E-04 | 5 | 5.01E-04 |
| | | 6 | 1.73E-03 | 7 | 7.14E-03 | 8 | 1.23E-02 | 9 | 3.13E-02 | 10 | 5.55E-02 |
| | | 11 | 1.03E-01 | 12 | 9.98E-02 | 13 | 9.74E-02 | 14 | 8.78E-02 | 15 | 1.27E-01 |
| | | 16 | 1.03E-01 | 17 | 1.83E-02 | 18 | 8.27E-04 | -1 | | | |
| 103 | 350890 | 1 | 2.31E-04 | 2 | 1.15E-04 | 3 | 1.73E-04 | 4 | 2.89E-04 | 5 | 3.46E-04 |
| | | 6 | 1.20E-03 | 7 | 5.53E-03 | 8 | 3.81E-02 | 9 | 3.66E-02 | 10 | 1.97E-01 |
| | | 11 | 2.46E-01 | 12 | 1.51E-01 | 13 | 1.51E-01 | 14 | 8.87E-02 | 15 | 1.38E-01 |
| | | 16 | 1.96E-01 | 17 | 9.18E-03 | 18 | 2.86E-05 | -1 | | | |
| 103 | 360890 | 5 | 6.03E-04 | 7 | 2.31E-01 | 8 | 1.23E-01 | 9 | 3.57E-01 | 10 | 3.19E-01 |
| | | 11 | 2.38E-01 | 12 | 2.18E-01 | 13 | 6.57E-02 | 14 | 5.99E-02 | 15 | 9.79E-02 |
| | | 16 | 8.38E-03 | -1 | | | | | | | |
| 103 | 370890 | 6 | 1.16E-04 | 7 | 1.97E-02 | 9 | 1.01E-01 | 10 | 9.56E-02 | 11 | 1.02E+00 |
| | | 12 | 3.16E-02 | 13 | 1.62E-01 | 14 | 1.20E-01 | 15 | 1.40E-02 | 16 | 7.54E-04 |
| | | -1 | | | | | | | | | |
| 103 | 390891 | 1 | 5.43E-03 | 10 | 9.91E-01 | -1 | | | | | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 330900 | 1 | 5.00E-04 | 2 | 2.50E-04 | 3 | 3.75E-04 | 4 | 6.24E-04 | 5 | 7.49E-04 |
| | | 6 | 2.59E-03 | 7 | 1.07E-02 | 8 | 1.85E-02 | 9 | 4.68E-02 | 10 | 8.30E-02 |
| | | 11 | 1.57E-01 | 12 | 1.67E-01 | 13 | 1.74E-01 | 14 | 1.69E-01 | 15 | 2.81E-01 |
| | | 16 | 2.84E-01 | 17 | 6.92E-02 | 18 | 1.26E-02 | -1 | | | |
| 103 | 340900 | 1 | 5.23E-04 | 2 | 2.62E-04 | 3 | 3.92E-04 | 4 | 6.54E-04 | 5 | 7.85E-04 |
| | | 6 | 2.71E-03 | 7 | 1.12E-02 | 8 | 1.93E-02 | 9 | 4.90E-02 | 10 | 8.69E-02 |
| | | 11 | 1.61E-01 | 12 | 1.51E-01 | 13 | 1.38E-01 | 14 | 1.20E-01 | 15 | 1.74E-01 |
| | | 16 | 1.37E-01 | 17 | 2.26E-02 | 18 | 1.13E-03 | -1 | | | |
| 103 | 350900 | 1 | 9.88E-04 | 2 | 3.65E-04 | 3 | 5.48E-04 | 4 | 9.13E-04 | 5 | 1.10E-03 |
| | | 6 | 3.79E-03 | 7 | 1.56E-02 | 8 | 6.58E-02 | 9 | 1.58E-01 | 10 | 6.03E-01 |
| | | 11 | 4.26E-01 | 12 | 2.39E-01 | 13 | 1.77E-01 | 14 | 1.42E-01 | 15 | 1.17E-01 |
| | | 16 | 4.25E-02 | 17 | 3.79E-06 | 18 | 2.84E-07 | -1 | | | |
| 103 | 360900 | 1 | 2.28E-02 | 6 | 3.95E-01 | 7 | 1.41E-01 | 8 | 2.38E-02 | 9 | 4.14E-01 |
| | | 10 | 3.72E-02 | 11 | 4.50E-01 | 12 | 2.09E-01 | 13 | 2.97E-02 | 14 | 1.47E-02 |
| | | 15 | 4.33E-03 | 16 | 3.10E-04 | -1 | | | | | |
| 103 | 370900 | 1 | 3.55E-04 | 2 | 1.77E-04 | 3 | 2.66E-04 | 4 | 4.44E-04 | 5 | 5.32E-04 |
| | | 6 | 1.84E-03 | 7 | 7.75E-03 | 8 | 1.31E-02 | 9 | 3.33E-02 | 10 | 1.31E-01 |
| | | 11 | 1.28E-01 | 12 | 1.08E-01 | 13 | 1.05E-01 | 14 | 9.00E-02 | 15 | 1.48E-01 |
| 103 | 370901 | 1 | 1.38E-02 | 6 | 2.19E-03 | 8 | 1.02E-02 | 9 | 1.26E-02 | 10 | 1.07E+00 |
| | | 11 | 3.47E-01 | 12 | 1.38E-01 | 13 | 8.70E-02 | 14 | 1.62E-01 | 15 | 2.40E-01 |
| | | 16 | 5.22E-02 | -1 | | | | | | | |
| 103 | 390900 | 1 | 7.47E-05 | -1 | | | | | | | |
| 103 | 390901 | 1 | 7.28E-02 | 7 | 9.73E-01 | 9 | 9.11E-01 | -1 | | | |
| 103 | 400901 | 1 | 1.51E-05 | 6 | 4.19E-02 | 8 | 4.20E-05 | 13 | 1.00E+00 | -1 | |
| 103 | 340910 | 1 | 4.79E-04 | 2 | 2.40E-04 | 3 | 3.60E-04 | 4 | 5.99E-04 | 5 | 7.19E-04 |
| | | 6 | 2.49E-03 | 7 | 1.02E-02 | 8 | 1.77E-02 | 9 | 4.49E-02 | 10 | 7.96E-02 |
| | | 11 | 1.49E-01 | 12 | 1.51E-01 | 13 | 1.50E-01 | 14 | 1.39E-01 | 15 | 2.10E-01 |
| | | 16 | 1.80E-01 | 17 | 3.39E-02 | 18 | 4.60E-03 | -1 | | | |
| 103 | 350910 | 1 | 3.80E-04 | 2 | 1.90E-04 | 3 | 2.85E-04 | 4 | 4.75E-04 | 5 | 5.70E-04 |
| | | 6 | 1.97E-03 | 7 | 8.12E-03 | 8 | 1.40E-02 | 9 | 3.56E-02 | 10 | 6.31E-02 |
| | | 11 | 1.18E-01 | 12 | 1.15E-01 | 13 | 1.12E-01 | 14 | 1.02E-01 | 15 | 1.47E-01 |
| | | 16 | 1.13E-01 | 17 | 1.84E-02 | 18 | 1.40E-03 | -1 | | | |
| 103 | 360910 | 1 | 3.31E-02 | 2 | 2.55E-04 | 3 | 3.82E-04 | 4 | 6.37E-04 | 5 | 7.64E-04 |
| | | 6 | 4.38E-01 | 7 | 1.27E-02 | 8 | 7.73E-02 | 9 | 4.38E-01 | 10 | 1.82E-01 |
| | | 11 | 3.92E-01 | 12 | 2.01E-01 | 13 | 9.88E-02 | 14 | 1.02E-01 | 15 | 5.93E-02 |
| | | 16 | 2.02E-03 | 17 | 2.61E-07 | -1 | | | | | |
| 103 | 370910 | 1 | 2.59E-01 | 5 | 3.37E-01 | 8 | 1.04E-01 | 9 | 4.29E-02 | 10 | 2.15E-02 |
| | | 11 | 1.03E-01 | 12 | 1.95E-01 | 13 | 3.78E-02 | 14 | 1.83E-01 | 15 | 2.19E-01 |
| | | 16 | 9.34E-02 | -1 | | | | | | | |
| 103 | 380910 | 1 | 3.33E-04 | 6 | 7.35E-04 | 7 | 1.74E-02 | 8 | 2.47E-03 | 9 | 1.42E-01 |
| | | 10 | 2.88E-01 | 11 | 3.59E-01 | 12 | 5.51E-03 | 13 | 8.35E-05 | -1 | |
| 103 | 390910 | 11 | 3.00E-03 | -1 | | | | | | | |
| 103 | 390911 | 1 | 3.23E-02 | 9 | 9.49E-01 | -1 | | | | | |
| 103 | 340920 | 1 | 3.77E-04 | 2 | 1.89E-04 | 3 | 2.83E-04 | 4 | 4.71E-04 | 5 | 5.66E-04 |
| | | 6 | 1.96E-03 | 7 | 8.06E-03 | 8 | 1.39E-02 | 9 | 3.53E-02 | 10 | 6.26E-02 |
| | | 11 | 1.17E-01 | 12 | 1.15E-01 | 13 | 1.10E-01 | 14 | 9.87E-02 | 15 | 1.49E-01 |
| | | 16 | 1.25E-01 | 17 | 2.31E-02 | 18 | 3.00E-03 | -1 | | | |
| 103 | 350920 | 1 | 9.86E-04 | 2 | 4.93E-04 | 3 | 7.40E-04 | 4 | 1.23E-03 | 5 | 1.48E-03 |
| | | 6 | 5.12E-03 | 7 | 2.11E-02 | 8 | 3.65E-02 | 9 | 9.23E-02 | 10 | 1.64E-01 |
| | | 11 | 2.97E-01 | 12 | 2.51E-01 | 13 | 2.12E-01 | 14 | 1.68E-01 | 15 | 2.07E-01 |
| | | 16 | 1.11E-01 | 17 | 2.74E-03 | 18 | 5.29E-07 | -1 | | | |
| 103 | 360920 | 1 | 2.16E-02 | 6 | 6.41E-01 | 7 | 1.80E-02 | 8 | 9.31E-02 | 9 | 2.07E-01 |
| | | 10 | 2.05E-01 | 11 | 6.90E-01 | 12 | 2.22E-02 | 13 | 1.65E-02 | 14 | 1.67E-02 |
| | | 15 | 1.06E-02 | -1 | | | | | | | |
| 103 | 370920 | 5 | 3.91E-04 | 8 | 3.64E-03 | 9 | 1.36E-02 | 10 | 8.73E-02 | 11 | 1.80E-02 |
| | | 12 | 1.68E-02 | 13 | 3.67E-03 | 14 | 1.74E-02 | 15 | 5.19E-03 | 16 | 5.36E-02 |
| | | 17 | 5.34E-03 | -1 | | | | | | | |
| 103 | 380920 | 7 | 2.93E-02 | 8 | 3.33E-02 | 9 | 6.48E-03 | 10 | 3.60E-02 | 11 | 9.28E-01 |

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| | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|-------------|
| | | 13 | 9.73E-02 | 14 | 5.41E-02 | 15 | 8.53E-02 | 16 | 4.74E-04 | -1 |
| 103 | 400950 | 1 | 9.79E-04 | 10 | 9.86E-01 | -1 | | | | |
| 103 | 410950 | 1 | 1.05E-03 | 7 | 2.79E-04 | 9 | 1.30E-04 | 10 | 9.98E-01 | -1 |
| 103 | 410951 | 1 | 1.58E+00 | 7 | 9.17E-01 | 9 | 5.36E-04 | -1 | | |
| 103 | 350960 | 1 | 6.93E-04 | 2 | 3.47E-04 | 3 | 5.20E-04 | 4 | 8.67E-04 | 5 1.04E-03 |
| | | 6 | 3.60E-03 | 7 | 1.48E-02 | 8 | 2.56E-02 | 9 | 6.49E-02 | 10 1.15E-01 |
| | | 11 | 2.20E-01 | 12 | 2.40E-01 | 13 | 2.46E-01 | 14 | 2.26E-01 | 15 3.37E-01 |
| | | 16 | 2.70E-01 | 17 | 4.55E-02 | 18 | 5.49E-03 | -1 | | |
| 103 | 360960 | 1 | 3.93E-04 | 2 | 1.96E-04 | 3 | 2.94E-04 | 4 | 4.91E-04 | 5 5.89E-04 |
| | | 6 | 2.04E-03 | 7 | 8.39E-03 | 8 | 1.45E-02 | 9 | 3.67E-02 | 10 6.52E-02 |
| | | 11 | 1.22E-01 | 12 | 1.14E-01 | 13 | 1.01E-01 | 14 | 8.19E-02 | 15 1.04E-01 |
| | | 16 | 6.06E-02 | 17 | 5.70E-03 | 18 | 2.55E-05 | -1 | | |
| 103 | 370960 | 1 | 3.41E-03 | 2 | 1.71E-04 | 3 | 2.56E-04 | 4 | 4.27E-04 | 5 5.13E-04 |
| | | 6 | 1.77E-03 | 7 | 7.31E-03 | 8 | 5.33E-02 | 9 | 1.77E-01 | 10 9.80E-01 |
| | | 11 | 3.20E-01 | 12 | 2.21E-01 | 13 | 1.81E-01 | 14 | 1.03E-01 | 15 1.16E-01 |
| | | 16 | 6.17E-02 | 17 | 9.86E-07 | 18 | 1.02E-07 | -1 | | |
| 103 | 380960 | 1 | 5.30E-02 | 2 | 1.25E-04 | 3 | 1.88E-04 | 4 | 3.14E-04 | 5 3.76E-04 |
| | | 6 | 4.46E-01 | 7 | 5.78E-02 | 8 | 1.24E-02 | 9 | 8.55E-02 | 10 5.28E-01 |
| | | 11 | 8.32E-02 | 12 | 8.21E-02 | 13 | 6.56E-02 | 14 | 5.54E-02 | 15 5.57E-02 |
| | | 16 | 1.24E-02 | -1 | | | | | | |
| 103 | 390960 | 1 | 2.42E-04 | 2 | 1.21E-04 | 3 | 1.82E-04 | 4 | 3.03E-04 | 5 3.63E-04 |
| | | 6 | 1.64E-03 | 7 | 5.17E-03 | 8 | 9.21E-03 | 9 | 2.49E-02 | 10 4.09E-02 |
| | | 11 | 7.53E-02 | 12 | 8.40E-02 | 13 | 6.87E-02 | 14 | 5.87E-02 | 15 8.37E-02 |
| | | 16 | 5.61E-02 | 17 | 6.25E-03 | -1 | | | | |
| 103 | 410960 | 1 | 1.79E-03 | 6 | 8.49E-04 | 7 | 6.83E-02 | 8 | 5.51E-02 | 9 9.17E-01 |
| | | 10 | 1.40E+00 | 11 | 7.27E-01 | 12 | 1.54E-03 | -1 | | |
| 103 | 360970 | 1 | 5.62E-04 | 2 | 2.81E-04 | 3 | 4.21E-04 | 4 | 7.02E-04 | 5 8.43E-04 |
| | | 6 | 2.91E-03 | 7 | 1.20E-02 | 8 | 2.08E-02 | 9 | 5.26E-02 | 10 9.33E-02 |
| | | 11 | 1.76E-01 | 12 | 1.82E-01 | 13 | 1.77E-01 | 14 | 1.54E-01 | 15 2.09E-01 |
| | | 16 | 1.41E-01 | 17 | 1.77E-02 | 18 | 1.53E-03 | -1 | | |
| 103 | 370970 | 1 | 3.56E-02 | 2 | 3.88E-04 | 3 | 4.87E-03 | 4 | 5.05E-02 | 5 5.32E-03 |
| | | 6 | 7.27E-02 | 7 | 2.97E-01 | 8 | 1.92E-01 | 9 | 5.92E-01 | 10 2.48E-01 |
| | | 11 | 2.70E-01 | 12 | 2.16E-01 | 13 | 1.65E-01 | 14 | 1.32E-01 | 15 1.33E-01 |
| | | 16 | 5.94E-02 | 17 | 9.59E-04 | 18 | 4.64E-08 | -1 | | |
| 103 | 380970 | 1 | 8.34E-04 | 6 | 2.50E-03 | 7 | 1.15E-02 | 8 | 2.11E-01 | 9 3.06E-01 |
| | | 10 | 3.62E-01 | 11 | 1.35E-01 | 12 | 3.15E-01 | 13 | 1.85E-01 | 14 9.15E-02 |
| | | -1 | | | | | | | | |
| 103 | 390970 | 1 | 1.21E-03 | 2 | 3.77E-04 | 3 | 5.66E-04 | 4 | 9.44E-04 | 5 1.13E-03 |
| | | 6 | 3.92E-03 | 7 | 1.96E-02 | 8 | 2.79E-02 | 9 | 7.33E-02 | 10 1.28E-01 |
| | | 11 | 2.63E-01 | 12 | 1.90E-01 | 13 | 1.05E-01 | 14 | 5.53E-02 | 15 7.60E-02 |
| | | 16 | 7.16E-06 | 17 | 3.96E-07 | -1 | | | | |
| 103 | 400970 | 1 | 3.43E-05 | 6 | 6.50E-04 | 7 | 1.75E-02 | 8 | 2.58E-02 | 9 7.43E-02 |
| | | 10 | 3.23E-02 | 11 | 6.98E-02 | 12 | 1.40E-02 | -1 | | |
| 103 | 410970 | 1 | 1.43E-03 | 7 | 9.82E-04 | 9 | 9.83E-01 | 10 | 1.76E-03 | 11 1.37E-02 |
| | | 12 | 1.46E-03 | -1 | | | | | | |
| 103 | 410971 | 10 | 9.79E-01 | -1 | | | | | | |
| 103 | 360980 | 1 | 4.33E-04 | 2 | 2.16E-04 | 3 | 3.25E-04 | 4 | 5.41E-04 | 5 6.49E-04 |
| | | 6 | 2.24E-03 | 7 | 9.25E-03 | 8 | 1.60E-02 | 9 | 4.05E-02 | 10 7.19E-02 |
| | | 11 | 1.35E-01 | 12 | 1.31E-01 | 13 | 1.19E-01 | 14 | 9.74E-02 | 15 1.25E-01 |
| | | 16 | 7.37E-02 | 17 | 7.45E-03 | 18 | 3.45E-04 | -1 | | |
| 103 | 370980 | 1 | 7.45E-02 | 2 | 2.66E-04 | 3 | 4.00E-04 | 4 | 6.66E-04 | 5 8.62E-03 |
| | | 6 | 2.62E-01 | 7 | 3.18E-02 | 8 | 2.04E-02 | 9 | 6.08E-02 | 10 1.06E-01 |
| | | 11 | 2.34E-01 | 12 | 2.83E-01 | 13 | 2.55E-01 | 14 | 1.19E-01 | 15 1.91E-01 |
| | | 16 | 7.77E-02 | 17 | 6.45E-03 | 18 | 9.59E-05 | -1 | | |
| 103 | 380980 | 1 | 3.66E-01 | 2 | 5.71E-04 | 3 | 2.38E-02 | 4 | 1.03E-02 | 5 1.71E-03 |
| | | 6 | 8.83E-02 | 7 | 3.48E-02 | 8 | 1.34E-01 | 9 | 1.42E-01 | 10 1.90E-01 |
| | | 11 | 3.37E-01 | 12 | 1.68E-01 | 13 | 8.30E-03 | 14 | 2.73E-05 | 15 3.56E-05 |
| | | 16 | 1.77E-05 | -1 | | | | | | |
| 103 | 390980 | 1 | 1.04E-01 | 2 | 2.31E-04 | 3 | 3.47E-04 | 4 | 5.78E-04 | 5 6.94E-04 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 6 | 2.40E-03 | 7 | 6.42E-02 | 8 | 2.67E-02 | 9 | 7.10E-02 | 10 | 9.91E-02 |
| | | 11 | 2.88E-01 | 12 | 2.11E-01 | 13 | 1.40E-01 | 14 | 1.41E-01 | 15 | 1.03E-01 |
| | | 16 | 3.66E-02 | 17 | 1.49E-07 | 18 | 2.56E-13 | -1 | | | |
| 103 | 400980 | 1 | 1.76E-04 | 2 | 8.80E-05 | 3 | 1.32E-04 | 4 | 2.20E-04 | 5 | 2.64E-04 |
| | | 6 | 9.13E-04 | 7 | 3.76E-03 | 8 | 6.51E-03 | 9 | 1.65E-02 | 10 | 2.92E-02 |
| | | 11 | 5.19E-02 | 12 | 3.04E-02 | 13 | 4.32E-03 | -1 | | | |
| 103 | 410980 | 1 | 2.24E-04 | 2 | 1.12E-04 | 3 | 1.68E-04 | 4 | 2.80E-04 | 5 | 3.36E-04 |
| | | 6 | 1.16E-03 | 7 | 4.79E-03 | 8 | 1.03E-02 | 9 | 4.39E-02 | 10 | 1.42E-01 |
| | | 11 | 1.46E-01 | 12 | 7.03E-02 | 13 | 6.35E-02 | 14 | 4.84E-02 | 15 | 3.29E-02 |
| | | 16 | 3.20E-03 | -1 | | | | | | | |
| 103 | 410981 | 5 | 3.92E-03 | 6 | 1.68E-03 | 7 | 3.56E-02 | 8 | 1.30E-01 | 9 | 1.25E-01 |
| | | 10 | 2.08E+00 | 11 | 3.92E-01 | 12 | 3.11E-01 | 13 | 2.38E-02 | 14 | 5.68E-03 |
| | | 15 | 2.52E-04 | -1 | | | | | | | |
| 103 | 370990 | 1 | 7.49E-04 | 2 | 3.74E-04 | 3 | 5.62E-04 | 4 | 9.36E-04 | 5 | 1.12E-03 |
| | | 6 | 3.88E-03 | 7 | 1.60E-02 | 8 | 2.77E-02 | 9 | 7.01E-02 | 10 | 1.24E-01 |
| | | 11 | 2.32E-01 | 12 | 2.17E-01 | 13 | 1.86E-01 | 14 | 1.44E-01 | 15 | 1.69E-01 |
| | | 16 | 8.50E-02 | 17 | 5.83E-03 | 18 | 6.86E-06 | -1 | | | |
| 103 | 380990 | 1 | 1.93E-02 | 2 | 1.47E-04 | 3 | 2.20E-04 | 4 | 1.41E-02 | 5 | 4.41E-04 |
| | | 6 | 1.81E-01 | 7 | 4.01E-02 | 8 | 2.25E-02 | 9 | 3.20E-01 | 10 | 6.73E-02 |
| | | 11 | 3.49E-01 | 12 | 1.99E-01 | 13 | 3.11E-01 | 14 | 4.52E-02 | 15 | 4.87E-02 |
| | | 16 | 2.02E-02 | 17 | 1.52E-04 | 18 | 5.91E-10 | -1 | | | |
| 103 | 390990 | 1 | 6.61E-02 | 2 | 1.52E-04 | 3 | 2.28E-04 | 4 | 7.04E-03 | 5 | 9.23E-03 |
| | | 6 | 3.59E-01 | 7 | 6.73E-02 | 8 | 5.00E-02 | 9 | 3.36E-01 | 10 | 2.81E-01 |
| | | 11 | 1.68E-01 | 12 | 1.23E-01 | 13 | 4.85E-02 | 14 | 2.91E-02 | 15 | 1.56E-02 |
| | | 16 | 3.12E-07 | 17 | 2.37E-09 | -1 | | | | | |
| 103 | 400990 | 1 | 1.46E-01 | 2 | 1.66E-02 | 4 | 2.20E-02 | 5 | 2.80E-02 | 7 | 5.40E-02 |
| | | 8 | 1.28E-01 | 9 | 1.48E+00 | 10 | 5.52E-03 | -1 | | | |
| 103 | 410990 | 1 | 4.41E-01 | 2 | 1.67E-04 | 3 | 2.51E-04 | 4 | 4.18E-04 | 5 | 2.77E-01 |
| | | 6 | 5.83E-01 | 7 | 7.14E-03 | 8 | 1.24E-02 | 9 | 3.13E-02 | 10 | 5.55E-02 |
| | | 11 | 1.06E-01 | 12 | 7.32E-02 | 13 | 3.93E-02 | 14 | 2.07E-02 | 15 | 9.69E-03 |
| | | -1 | | | | | | | | | |
| 103 | 410991 | 1 | 8.50E-02 | 2 | 3.45E-04 | 3 | 5.18E-04 | 4 | 8.63E-04 | 5 | 3.06E-03 |
| | | 6 | 3.98E-03 | 7 | 1.64E-02 | 8 | 2.69E-02 | 9 | 6.81E-02 | 10 | 1.17E-01 |
| | | 11 | 2.12E-01 | 12 | 1.77E-01 | 13 | 1.41E-01 | 14 | 1.13E-01 | 15 | 1.08E-01 |
| | | 16 | 8.20E-07 | -1 | | | | | | | |
| 103 | 420990 | 1 | 3.28E-02 | 2 | 5.99E-03 | 3 | 5.28E-03 | 4 | 5.28E-03 | 5 | 3.03E-05 |
| | | 6 | 4.52E-02 | 7 | 6.03E-02 | 8 | 1.22E-02 | 9 | 1.07E-03 | 10 | 1.65E-01 |
| | | 11 | 1.69E-05 | -1 | | | | | | | |
| 103 | 430991 | 1 | 6.60E-02 | 2 | 1.20E-02 | 6 | 8.91E-01 | -1 | | | |
| 103 | 371000 | 1 | 7.71E-04 | 2 | 3.85E-04 | 3 | 5.78E-04 | 4 | 9.63E-04 | 5 | 1.16E-03 |
| | | 6 | 4.00E-03 | 7 | 1.65E-02 | 8 | 2.85E-02 | 9 | 7.21E-02 | 10 | 1.28E-01 |
| | | 11 | 2.44E-01 | 12 | 2.67E-01 | 13 | 2.67E-01 | 14 | 2.37E-01 | 15 | 3.32E-01 |
| | | 16 | 2.33E-01 | 17 | 3.14E-02 | 18 | 2.98E-03 | -1 | | | |
| 103 | 381000 | 1 | 3.62E-02 | 2 | 2.37E-04 | 3 | 3.55E-04 | 4 | 5.75E-02 | 5 | 1.61E-02 |
| | | 6 | 3.67E-03 | 7 | 3.55E-02 | 8 | 2.54E-02 | 9 | 5.94E-02 | 10 | 2.41E-01 |
| | | 11 | 1.56E-01 | 12 | 1.20E-01 | 13 | 8.69E-02 | 14 | 5.83E-02 | 15 | 5.55E-02 |
| | | 16 | 1.25E-02 | 17 | 1.80E-07 | -1 | | | | | |
| 103 | 391000 | 1 | 4.07E-04 | 2 | 2.03E-04 | 3 | 3.05E-04 | 4 | 5.08E-04 | 5 | 6.10E-04 |
| | | 6 | 1.56E-01 | 7 | 7.44E-01 | 8 | 3.23E-02 | 9 | 2.32E-01 | 10 | 2.17E-01 |
| | | 11 | 3.07E-01 | 12 | 2.04E-01 | 13 | 2.28E-01 | 14 | 3.23E-01 | 15 | 8.01E-02 |
| | | 16 | 1.65E-02 | 17 | 2.43E-07 | 18 | 9.28E-09 | -1 | | | |
| 103 | 401000 | 1 | 2.53E-04 | 2 | 1.26E-04 | 3 | 1.90E-04 | 4 | 3.16E-04 | 5 | 3.79E-04 |
| | | 6 | 5.73E-03 | 7 | 7.12E-03 | 8 | 1.37E-01 | 9 | 2.33E-01 | 10 | 4.44E-02 |
| | | 11 | 7.97E-02 | 12 | 7.66E-02 | 13 | 5.74E-02 | 14 | 3.74E-02 | 15 | 6.48E-03 |
| | | -1 | | | | | | | | | |
| 103 | 411000 | 7 | 8.80E-02 | 8 | 1.48E-02 | 9 | 5.79E-01 | 10 | 9.09E-02 | 11 | 1.07E-01 |
| | | 12 | 7.52E-02 | 13 | 1.39E-02 | 14 | 1.15E-02 | -1 | | | |
| 103 | 411001 | 7 | 5.34E-02 | 9 | 1.95E+00 | 10 | 4.98E-01 | 11 | 3.45E-01 | -1 | |
| 103 | 431000 | 8 | 2.94E-04 | 9 | 1.28E-01 | 10 | 7.91E-04 | 11 | 1.47E-03 | 12 | 5.05E-03 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 13 | 1.89E-04 | 14 | 1.40E-05 | -1 | | | | | |
| 103 | 371010 | 1 | 5.77E-04 | 2 | 2.89E-04 | 3 | 4.33E-04 | 4 | 7.22E-04 | 5 | 8.37E-02 |
| | | 6 | 1.96E-01 | 7 | 9.71E-01 | 8 | 1.11E-01 | 9 | 5.40E-02 | 10 | 9.59E-02 |
| | | 11 | 4.50E-01 | 12 | 1.78E-01 | 13 | 1.62E-01 | 14 | 1.33E-01 | 15 | 1.68E-01 |
| 103 | 381010 | 16 | 9.64E-02 | 17 | 9.22E-03 | 18 | 5.51E-04 | -1 | | | |
| | | 1 | 5.14E-04 | 2 | 2.57E-04 | 3 | 3.86E-04 | 4 | 6.43E-04 | 5 | 1.55E-02 |
| | | 6 | 1.95E-01 | 7 | 7.10E-02 | 8 | 6.92E-02 | 9 | 2.99E-01 | 10 | 1.58E-01 |
| | | 11 | 4.37E-01 | 12 | 2.07E-01 | 13 | 1.45E-01 | 14 | 1.96E-01 | 15 | 1.00E-01 |
| 103 | 391010 | 16 | 4.52E-02 | 17 | 2.10E-03 | 18 | 1.50E-08 | -1 | | | |
| | | 1 | 7.23E-02 | 2 | 1.69E-04 | 3 | 2.53E-04 | 4 | 4.21E-04 | 5 | 1.26E-01 |
| | | 6 | 5.02E-02 | 7 | 9.22E-02 | 8 | 1.80E-02 | 9 | 1.15E-01 | 10 | 1.39E-01 |
| | | 11 | 1.73E-01 | 12 | 1.15E-01 | 13 | 1.04E-01 | 14 | 7.09E-02 | 15 | 7.85E-02 |
| 103 | 401010 | 16 | 3.64E-02 | 17 | 1.84E-03 | -1 | | | | | |
| | | 1 | 1.68E-02 | 2 | 1.20E-04 | 3 | 1.80E-04 | 4 | 3.01E-04 | 5 | 3.61E-04 |
| | | 6 | 8.98E-02 | 7 | 6.67E-02 | 8 | 1.68E-02 | 9 | 7.63E-02 | 10 | 1.28E-01 |
| | | 11 | 1.15E-01 | 12 | 1.33E-01 | 13 | 8.16E-02 | 14 | 4.56E-02 | 15 | 4.44E-02 |
| 103 | 411010 | 16 | 1.60E-02 | -1 | | | | | | | |
| | | 1 | 2.25E-01 | 2 | 1.33E-04 | 3 | 6.97E-02 | 4 | 6.98E-02 | 5 | 1.79E-03 |
| | | 6 | 2.36E-02 | 7 | 2.50E-01 | 8 | 5.34E-02 | 9 | 9.82E-02 | 10 | 7.96E-02 |
| | | 11 | 8.89E-02 | 12 | 6.54E-02 | 13 | 4.38E-02 | 14 | 2.95E-02 | 15 | 2.69E-02 |
| 103 | 421010 | 16 | 3.09E-03 | -1 | | | | | | | |
| | | 1 | 1.25E-01 | 2 | 5.97E-03 | 5 | 3.84E-02 | 6 | 4.47E-03 | 7 | 2.28E-01 |
| | | 8 | 6.80E-02 | 9 | 5.33E-01 | 10 | 1.97E-01 | 11 | 4.10E-01 | 12 | 1.59E-01 |
| 103 | 431010 | 13 | 1.11E-01 | -1 | | | | | | | |
| | | 1 | 1.32E-02 | 2 | 2.44E-03 | 6 | 2.86E-02 | 7 | 2.98E-02 | 8 | 8.85E-01 |
| | | 9 | 7.84E-02 | 10 | 1.51E-02 | -1 | | | | | |
| 103 | 381020 | 1 | 5.01E-04 | 2 | 2.50E-04 | 3 | 1.74E-03 | 4 | 2.10E-02 | 5 | 3.54E-02 |
| | | 6 | 1.15E-02 | 7 | 2.66E-01 | 8 | 2.63E-02 | 9 | 5.40E-02 | 10 | 1.05E-01 |
| | | 11 | 2.40E-01 | 12 | 1.39E-01 | 13 | 1.06E-01 | 14 | 7.51E-02 | 15 | 7.78E-02 |
| 103 | 391020 | 16 | 3.00E-02 | 17 | 3.05E-04 | 18 | 7.57E-10 | -1 | | | |
| | | 1 | 1.01E-03 | 2 | 5.04E-04 | 3 | 7.56E-04 | 4 | 1.26E-03 | 5 | 1.51E-03 |
| | | 6 | 5.23E-03 | 7 | 2.15E-02 | 8 | 3.73E-02 | 9 | 9.43E-02 | 10 | 1.67E-01 |
| | | 11 | 3.16E-01 | 12 | 3.09E-01 | 13 | 2.72E-01 | 14 | 2.11E-01 | 15 | 2.47E-01 |
| 103 | 401020 | 16 | 1.24E-01 | 17 | 8.80E-03 | 18 | 1.21E-04 | -1 | | | |
| | | 1 | 1.24E-03 | 2 | 6.34E-03 | 3 | 7.86E-04 | 4 | 3.00E-02 | 5 | 1.01E-02 |
| | | 6 | 1.71E-02 | 7 | 4.61E-02 | 8 | 4.50E-02 | 9 | 1.92E-01 | 10 | 1.78E-01 |
| | | 11 | 3.05E-01 | 12 | 4.22E-02 | 13 | 3.13E-05 | 14 | 1.87E-05 | 15 | 5.70E-06 |
| 103 | 411020 | -1 | | | | | | | | | |
| | | 1 | 5.44E-04 | 2 | 2.72E-04 | 3 | 4.08E-04 | 4 | 6.80E-04 | 5 | 8.16E-04 |
| | | 6 | 2.82E-03 | 7 | 1.16E-02 | 8 | 2.01E-02 | 9 | 5.09E-02 | 10 | 9.03E-02 |
| | | 11 | 1.67E-01 | 12 | 1.43E-01 | 13 | 1.12E-01 | 14 | 7.99E-02 | 15 | 8.90E-02 |
| 103 | 421020 | 16 | 2.60E-02 | 17 | 8.89E-09 | -1 | | | | | |
| | | 1 | 1.34E-04 | 2 | 6.69E-05 | 3 | 2.18E-04 | 4 | 2.85E-04 | 5 | 1.18E-03 |
| | | 6 | 3.89E-02 | 7 | 5.40E-02 | 8 | 7.03E-03 | 9 | 1.08E-02 | 10 | 2.27E-02 |
| | | 11 | 5.27E-08 | -1 | | | | | | | |
| 103 | 431020 | 1 | 4.96E-04 | 2 | 2.48E-04 | 3 | 3.72E-04 | 4 | 6.20E-04 | 5 | 7.44E-04 |
| | | 6 | 2.57E-03 | 7 | 1.07E-02 | 8 | 1.83E-02 | 9 | 7.73E-02 | 10 | 8.59E-02 |
| | | 11 | 1.55E-01 | 12 | 1.03E-01 | 13 | 7.17E-02 | 14 | 5.71E-02 | 15 | 8.49E-02 |
| 103 | 431021 | 16 | 2.04E-02 | -1 | | | | | | | |
| | | 8 | 5.52E-02 | 9 | 1.47E+00 | 10 | 8.35E-03 | 11 | 4.87E-01 | 12 | 3.30E-01 |
| | | 13 | 2.50E-01 | 14 | 5.05E-03 | -1 | | | | | |
| 103 | 381030 | 1 | 6.29E-04 | 2 | 3.14E-04 | 3 | 4.72E-04 | 4 | 7.86E-04 | 5 | 9.43E-04 |
| | | 6 | 3.26E-03 | 7 | 1.34E-02 | 8 | 2.32E-02 | 9 | 5.89E-02 | 10 | 1.04E-01 |
| | | 11 | 1.98E-01 | 12 | 2.04E-01 | 13 | 1.92E-01 | 14 | 1.60E-01 | 15 | 2.03E-01 |
| 103 | 391030 | 16 | 1.19E-01 | 17 | 1.17E-02 | 18 | 7.71E-04 | -1 | | | |
| | | 1 | 5.11E-04 | 2 | 2.55E-04 | 3 | 3.83E-04 | 4 | 6.38E-04 | 5 | 7.66E-04 |
| | | 6 | 2.65E-03 | 7 | 1.09E-02 | 8 | 1.89E-02 | 9 | 4.78E-02 | 10 | 8.48E-02 |
| | | 11 | 1.60E-01 | 12 | 1.57E-01 | 13 | 1.41E-01 | 14 | 1.12E-01 | 15 | 1.30E-01 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 401030 | 1 | 4.45E-06 | 2 | 2.23E-06 | 3 | 3.34E-06 | 4 | 5.57E-06 | 5 | 6.68E-06 |
| | | 6 | 2.31E-05 | 7 | 9.52E-05 | 8 | 1.65E-04 | 9 | 4.17E-04 | 10 | 7.40E-04 |
| | | 11 | 1.38E-03 | 12 | 1.30E-03 | 13 | 1.14E-03 | 14 | 8.63E-04 | 15 | 8.87E-04 |
| | | 16 | 3.68E-04 | 17 | 1.02E-05 | -1 | | | | | |
| 103 | 411030 | 1 | 7.99E-04 | 2 | 3.99E-04 | 3 | 5.99E-04 | 4 | 9.99E-04 | 5 | 1.20E-03 |
| | | 6 | 4.14E-03 | 7 | 1.71E-02 | 8 | 2.95E-02 | 9 | 7.48E-02 | 10 | 1.33E-01 |
| | | 11 | 2.39E-01 | 12 | 1.66E-01 | 13 | 8.38E-02 | 14 | 1.49E-02 | 15 | 2.40E-06 |
| | | 16 | 3.68E-07 | -1 | | | | | | | |
| 103 | 421030 | 1 | 4.07E-01 | 2 | 7.60E-02 | 3 | 1.10E-01 | 4 | 1.10E-01 | 5 | 4.73E-01 |
| | | 7 | 3.12E-01 | 8 | 4.14E-01 | 9 | 6.14E-01 | 10 | 8.36E-02 | 11 | 3.43E-01 |
| | | -1 | | | | | | | | | |
| 103 | 431030 | 1 | 1.85E-02 | 2 | 3.52E-03 | 3 | 3.37E-04 | 4 | 5.62E-04 | 5 | 6.74E-04 |
| | | 6 | 1.12E-01 | 7 | 1.05E-01 | 8 | 1.97E-01 | 9 | 1.18E-01 | 10 | 9.72E-02 |
| | | 11 | 1.40E-01 | 12 | 6.10E-02 | 13 | 7.28E-03 | -1 | | | |
| 103 | 441030 | 1 | 6.40E-04 | 2 | 9.99E-03 | 3 | 2.60E-05 | 4 | 4.46E-03 | 6 | 1.09E-04 |
| | | 7 | 3.27E-03 | 8 | 3.73E-03 | 9 | 9.78E-01 | -1 | | | |
| 103 | 451031 | 1 | 4.00E-02 | 2 | 7.70E-02 | 3 | 6.80E-04 | -1 | | | |
| 103 | 381040 | 1 | 4.73E-04 | 2 | 2.36E-04 | 3 | 3.55E-04 | 4 | 5.91E-04 | 5 | 7.09E-04 |
| | | 6 | 2.45E-03 | 7 | 1.01E-02 | 8 | 1.75E-02 | 9 | 4.43E-02 | 10 | 7.85E-02 |
| | | 11 | 1.48E-01 | 12 | 1.43E-01 | 13 | 1.27E-01 | 14 | 1.01E-01 | 15 | 1.22E-01 |
| | | 16 | 6.42E-02 | 17 | 5.31E-03 | 18 | 1.89E-04 | -1 | | | |
| 103 | 391040 | 1 | 7.68E-04 | 2 | 3.84E-04 | 3 | 5.76E-04 | 4 | 9.60E-04 | 5 | 1.15E-03 |
| | | 6 | 3.98E-03 | 7 | 1.64E-02 | 8 | 2.84E-02 | 9 | 7.19E-02 | 10 | 1.28E-01 |
| | | 11 | 2.43E-01 | 12 | 2.57E-01 | 13 | 2.45E-01 | 14 | 2.05E-01 | 15 | 2.61E-01 |
| | | 16 | 1.52E-01 | 17 | 1.46E-02 | 18 | 9.09E-04 | -1 | | | |
| 103 | 401040 | 1 | 4.10E-04 | 2 | 2.05E-04 | 3 | 3.07E-04 | 4 | 5.12E-04 | 5 | 6.14E-04 |
| | | 6 | 2.12E-03 | 7 | 8.75E-03 | 8 | 1.51E-02 | 9 | 3.83E-02 | 10 | 6.80E-02 |
| | | 11 | 1.25E-01 | 12 | 1.02E-01 | 13 | 7.37E-02 | 14 | 4.81E-02 | 15 | 4.31E-02 |
| | | 16 | 7.19E-03 | -1 | | | | | | | |
| 103 | 411040 | 1 | 1.12E-03 | 2 | 5.59E-04 | 3 | 8.38E-04 | 4 | 1.40E-03 | 5 | 1.68E-03 |
| | | 6 | 5.80E-03 | 7 | 2.39E-02 | 8 | 4.13E-02 | 9 | 1.05E-01 | 10 | 1.86E-01 |
| | | 11 | 3.45E-01 | 12 | 3.13E-01 | 13 | 2.61E-01 | 14 | 2.00E-01 | 15 | 2.09E-01 |
| | | 16 | 6.88E-02 | 17 | 2.17E-07 | 18 | 1.16E-08 | -1 | | | |
| 103 | 421040 | 1 | 1.42E+00 | 2 | 2.60E-01 | 3 | 1.05E-01 | 4 | 5.17E-01 | 5 | 5.89E-02 |
| | | 6 | 1.57E-02 | 7 | 2.96E-02 | 8 | 7.43E-02 | 9 | 5.75E-02 | 10 | 1.01E-01 |
| | | 11 | 1.55E-01 | 12 | 8.41E-02 | 13 | 6.67E-03 | -1 | | | |
| 103 | 431040 | 1 | 9.12E-03 | 2 | 1.69E-03 | 6 | 1.78E-03 | 7 | 6.78E-02 | 8 | 9.40E-01 |
| | | 9 | 3.97E-01 | 10 | 2.58E-01 | 11 | 1.72E-01 | 12 | 3.15E-01 | 13 | 1.16E-01 |
| | | 14 | 8.86E-02 | 15 | 6.35E-02 | -1 | | | | | |
| 103 | 451040 | 1 | 2.83E-03 | 2 | 5.30E-04 | 9 | 2.01E-02 | 10 | 2.09E-04 | 11 | 7.84E-04 |
| | | 12 | 1.02E-05 | -1 | | | | | | | |
| 103 | 451041 | 1 | 6.40E-02 | 2 | 6.56E-01 | 4 | 4.83E-01 | 5 | 5.07E-02 | -1 | |
| 103 | 391050 | 1 | 5.80E-04 | 2 | 2.90E-04 | 3 | 4.35E-04 | 4 | 7.26E-04 | 5 | 8.71E-04 |
| | | 6 | 3.01E-03 | 7 | 1.24E-02 | 8 | 2.15E-02 | 9 | 5.43E-02 | 10 | 9.64E-02 |
| | | 11 | 1.82E-01 | 12 | 1.83E-01 | 13 | 1.67E-01 | 14 | 1.34E-01 | 15 | 1.58E-01 |
| | | 16 | 8.00E-02 | 17 | 6.20E-03 | 18 | 2.40E-04 | -1 | | | |
| 103 | 401050 | 1 | 5.15E-04 | 2 | 2.57E-04 | 3 | 3.86E-04 | 4 | 6.43E-04 | 5 | 7.72E-04 |
| | | 6 | 2.67E-03 | 7 | 1.10E-02 | 8 | 1.90E-02 | 9 | 4.82E-02 | 10 | 8.54E-02 |
| | | 11 | 1.60E-01 | 12 | 1.54E-01 | 13 | 1.34E-01 | 14 | 1.03E-01 | 15 | 1.09E-01 |
| | | 16 | 4.67E-02 | 17 | 2.20E-03 | -1 | | | | | |
| 103 | 411050 | 1 | 4.77E-04 | 2 | 2.39E-04 | 3 | 3.58E-04 | 4 | 5.97E-04 | 5 | 7.16E-04 |
| | | 6 | 2.48E-03 | 7 | 1.02E-02 | 8 | 1.76E-02 | 9 | 4.47E-02 | 10 | 7.92E-02 |
| | | 11 | 1.48E-01 | 12 | 1.41E-01 | 13 | 1.17E-01 | 14 | 7.83E-02 | 15 | 7.78E-02 |
| | | 16 | 2.80E-02 | 17 | 9.93E-05 | -1 | | | | | |
| 103 | 421050 | 1 | 1.65E-01 | 2 | 3.02E-02 | 3 | 3.66E-04 | 4 | 1.73E-02 | 5 | 1.42E-01 |
| | | 6 | 5.89E-02 | 7 | 1.57E-01 | 8 | 8.05E-02 | 9 | 5.74E-02 | 10 | 9.75E-02 |
| | | 11 | 1.71E-01 | 12 | 1.39E-01 | 13 | 1.01E-01 | 14 | 6.99E-02 | 15 | 7.66E-02 |
| | | 16 | 2.32E-02 | -1 | | | | | | | |
| 103 | 431050 | 2 | 1.57E-02 | 3 | 1.96E-04 | 4 | 1.13E-02 | 5 | 7.19E-02 | 6 | 3.66E-01 |

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|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 7 | 3.23E-01 | 8 | 2.98E-01 | 9 | 2.92E-01 | 10 | 1.12E-01 | 11 | 9.04E-02 |
| | | 12 | 4.79E-02 | 13 | 5.93E-02 | -1 | | | | | |
| 103 | 441050 | 1 | 3.31E-04 | 2 | 4.99E-03 | 4 | 6.60E-04 | 5 | 5.20E-04 | 6 | 1.80E-02 |
| | | 7 | 7.07E-02 | 8 | 2.04E-01 | 9 | 4.08E-01 | 10 | 5.41E-01 | 11 | 7.62E-03 |
| | | 12 | 7.70E-04 | -1 | | | | | | | |
| 103 | 451050 | 1 | 2.95E-04 | 2 | 4.11E-03 | 3 | 2.48E-04 | 7 | 1.66E-03 | 8 | 2.42E-01 |
| | | -1 | | | | | | | | | |
| 103 | 451051 | 1 | 3.69E-02 | 2 | 4.17E-01 | 6 | 2.00E-01 | -1 | | | |
| 103 | 391060 | 1 | 8.34E-04 | 2 | 4.17E-04 | 3 | 6.25E-04 | 4 | 1.04E-03 | 5 | 1.25E-03 |
| | | 6 | 4.33E-03 | 7 | 1.78E-02 | 8 | 3.08E-02 | 9 | 7.80E-02 | 10 | 1.38E-01 |
| | | 11 | 2.64E-01 | 12 | 2.85E-01 | 13 | 2.73E-01 | 14 | 2.29E-01 | 15 | 2.93E-01 |
| | | 16 | 1.72E-01 | 17 | 1.68E-02 | 18 | 1.13E-03 | -1 | | | |
| 103 | 401060 | 1 | 4.34E-04 | 2 | 2.17E-04 | 3 | 3.25E-04 | 4 | 5.42E-04 | 5 | 6.51E-04 |
| | | 6 | 2.25E-03 | 7 | 9.27E-03 | 8 | 1.60E-02 | 9 | 4.06E-02 | 10 | 7.20E-02 |
| | | 11 | 1.33E-01 | 12 | 1.14E-01 | 13 | 8.68E-02 | 14 | 5.92E-02 | 15 | 5.73E-02 |
| | | 16 | 1.81E-02 | -1 | | | | | | | |
| 103 | 411060 | 1 | 5.88E-04 | 2 | 2.94E-04 | 3 | 4.41E-04 | 4 | 7.35E-04 | 5 | 8.82E-04 |
| | | 6 | 3.05E-03 | 7 | 1.26E-02 | 8 | 2.17E-02 | 9 | 5.51E-02 | 10 | 9.77E-02 |
| | | 11 | 1.85E-01 | 12 | 1.91E-01 | 13 | 1.76E-01 | 14 | 1.42E-01 | 15 | 1.71E-01 |
| | | 16 | 9.26E-02 | 17 | 7.26E-03 | 18 | 2.81E-04 | -1 | | | |
| 103 | 421060 | 1 | 4.49E-04 | 2 | 2.24E-04 | 3 | 3.36E-04 | 4 | 5.61E-04 | 5 | 6.73E-04 |
| | | 6 | 2.33E-03 | 7 | 9.59E-03 | 8 | 1.66E-02 | 9 | 4.20E-02 | 10 | 7.45E-02 |
| | | 11 | 1.35E-01 | 12 | 1.02E-01 | 13 | 6.73E-02 | 14 | 3.75E-02 | 15 | 1.55E-02 |
| | | -1 | | | | | | | | | |
| 103 | 431060 | 1 | 1.34E-02 | 2 | 2.54E-03 | 3 | 1.48E-04 | 4 | 2.47E-04 | 5 | 2.96E-04 |
| | | 6 | 1.02E-03 | 7 | 5.64E-01 | 8 | 2.01E-02 | 9 | 1.01E-01 | 10 | 1.39E-01 |
| | | 11 | 9.30E-02 | 12 | 2.05E-01 | 13 | 2.36E-01 | 14 | 2.93E-01 | 15 | 2.02E-01 |
| | | 16 | 2.19E-02 | 17 | 3.76E-04 | -1 | | | | | |
| 103 | 451060 | 1 | 7.90E-05 | 2 | 1.06E-03 | 8 | 1.03E-03 | 9 | 3.11E-01 | 10 | 4.56E-03 |
| | | 11 | 2.13E-02 | 12 | 2.70E-03 | 13 | 8.33E-04 | 14 | 8.48E-05 | 15 | 1.79E-06 |
| | | -1 | | | | | | | | | |
| 103 | 451061 | 1 | 6.90E-04 | 2 | 9.33E-03 | 7 | 9.06E-02 | 8 | 3.15E-01 | 9 | 1.39E+00 |
| | | 10 | 9.64E-01 | 11 | 6.94E-01 | 12 | 2.89E-01 | -1 | | | |
| 103 | 391070 | 1 | 6.38E-04 | 2 | 3.19E-04 | 3 | 4.78E-04 | 4 | 7.97E-04 | 5 | 9.57E-04 |
| | | 6 | 3.31E-03 | 7 | 1.36E-02 | 8 | 2.36E-02 | 9 | 5.97E-02 | 10 | 1.06E-01 |
| | | 11 | 2.01E-01 | 12 | 2.07E-01 | 13 | 1.91E-01 | 14 | 1.56E-01 | 15 | 1.90E-01 |
| | | 16 | 1.02E-01 | 17 | 8.83E-03 | 18 | 4.94E-04 | -1 | | | |
| 103 | 401070 | 1 | 6.02E-04 | 2 | 3.01E-04 | 3 | 4.51E-04 | 4 | 7.52E-04 | 5 | 9.02E-04 |
| | | 6 | 3.12E-03 | 7 | 1.29E-02 | 8 | 2.22E-02 | 9 | 5.63E-02 | 10 | 9.99E-02 |
| | | 11 | 1.88E-01 | 12 | 1.86E-01 | 13 | 1.64E-01 | 14 | 1.26E-01 | 15 | 1.39E-01 |
| | | 16 | 6.35E-02 | 17 | 3.96E-03 | 18 | 5.80E-05 | -1 | | | |
| 103 | 411070 | 1 | 5.17E-04 | 2 | 2.59E-04 | 3 | 3.88E-04 | 4 | 6.47E-04 | 5 | 7.76E-04 |
| | | 6 | 2.68E-03 | 7 | 1.11E-02 | 8 | 1.91E-02 | 9 | 4.84E-02 | 10 | 8.59E-02 |
| | | 11 | 1.61E-01 | 12 | 1.56E-01 | 13 | 1.36E-01 | 14 | 1.05E-01 | 15 | 1.14E-01 |
| | | 16 | 4.98E-02 | 17 | 2.66E-03 | -1 | | | | | |
| 103 | 421070 | 1 | 6.19E-04 | 2 | 3.10E-04 | 3 | 4.64E-04 | 4 | 7.74E-04 | 5 | 9.29E-04 |
| | | 6 | 3.21E-03 | 7 | 1.32E-02 | 8 | 2.29E-02 | 9 | 5.79E-02 | 10 | 1.03E-01 |
| | | 11 | 1.91E-01 | 12 | 1.63E-01 | 13 | 1.12E-01 | 14 | 7.31E-02 | 15 | 6.62E-02 |
| | | 16 | 1.47E-02 | 17 | 4.14E-09 | -1 | | | | | |
| 103 | 431070 | 1 | 1.30E-02 | 2 | 2.56E-03 | 3 | 1.41E-03 | 4 | 6.31E-04 | 5 | 4.51E-03 |
| | | 6 | 1.08E-01 | 7 | 6.45E-02 | 8 | 5.67E-02 | 9 | 1.09E-01 | 10 | 1.01E-01 |
| | | 11 | 1.77E-01 | 12 | 1.38E-01 | 13 | 9.85E-02 | 14 | 7.16E-02 | 15 | 7.61E-02 |
| | | 16 | 1.92E-02 | -1 | | | | | | | |
| 103 | 441070 | 1 | 1.60E-03 | 2 | 1.26E-02 | 3 | 4.64E-04 | 4 | 2.92E-03 | 5 | 1.12E-03 |
| | | 6 | 5.69E-03 | 7 | 9.97E-02 | 8 | 6.84E-02 | 9 | 1.13E-01 | 10 | 1.72E-01 |
| | | 11 | 2.09E-01 | 12 | 4.77E-02 | 13 | 2.86E-03 | 14 | 2.30E-04 | 15 | 2.23E-07 |
| | | -1 | | | | | | | | | |
| 103 | 451070 | 1 | 2.27E-04 | 2 | 2.83E-03 | 5 | 5.90E-04 | 6 | 5.40E-03 | 7 | 3.13E-02 |
| | | 8 | 8.71E-01 | 9 | 4.17E-02 | 10 | 2.67E-03 | 11 | 7.40E-04 | -1 | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 461071 | 1 | 1.62E-02 | 2 | 1.93E-01 | 7 | 6.87E-01 | -1 | | | |
| 103 | 401080 | 1 | 4.63E-04 | 2 | 2.32E-04 | 3 | 3.47E-04 | 4 | 5.79E-04 | 5 | 6.95E-04 |
| | | 6 | 2.40E-03 | 7 | 9.90E-03 | 8 | 1.71E-02 | 9 | 4.34E-02 | 10 | 7.69E-02 |
| | | 11 | 1.43E-01 | 12 | 1.29E-01 | 13 | 1.04E-01 | 14 | 7.40E-02 | 15 | 7.62E-02 |
| | | 16 | 2.95E-02 | 17 | 8.34E-04 | -1 | | | | | |
| 103 | 411080 | 1 | 6.93E-04 | 2 | 3.46E-04 | 3 | 5.19E-04 | 4 | 8.66E-04 | 5 | 1.04E-03 |
| | | 6 | 3.59E-03 | 7 | 1.48E-02 | 8 | 2.56E-02 | 9 | 6.48E-02 | 10 | 1.15E-01 |
| | | 11 | 2.19E-01 | 12 | 2.30E-01 | 13 | 2.14E-01 | 14 | 1.74E-01 | 15 | 2.12E-01 |
| | | 16 | 1.14E-01 | 17 | 9.42E-03 | 18 | 4.76E-04 | -1 | | | |
| 103 | 421080 | 1 | 5.41E-01 | 2 | 1.12E-01 | 3 | 3.65E-04 | 4 | 5.28E-02 | 5 | 4.15E-02 |
| | | 6 | 2.63E-02 | 7 | 2.01E-01 | 8 | 1.15E-01 | 9 | 8.65E-02 | 10 | 8.08E-02 |
| | | 11 | 1.48E-01 | 12 | 1.19E-01 | 13 | 8.49E-02 | 14 | 5.44E-02 | 15 | 4.72E-02 |
| | | 16 | 7.32E-03 | -1 | | | | | | | |
| 103 | 431080 | 1 | 6.38E-04 | 2 | 3.19E-04 | 3 | 4.79E-04 | 4 | 7.98E-04 | 5 | 9.57E-04 |
| | | 6 | 3.31E-03 | 7 | 8.61E-01 | 8 | 7.20E-02 | 9 | 2.58E-01 | 10 | 3.93E-01 |
| | | 11 | 3.94E-01 | 12 | 3.67E-01 | 13 | 2.30E-01 | 14 | 1.27E-01 | 15 | 9.75E-02 |
| | | 16 | 5.44E-03 | 17 | 1.35E-07 | -1 | | | | | |
| 103 | 441080 | 5 | 3.53E-02 | 7 | 3.58E-01 | -1 | | | | | |
| 103 | 451080 | 1 | 4.62E-04 | 2 | 2.31E-04 | 3 | 3.46E-04 | 4 | 5.77E-04 | 5 | 6.92E-04 |
| | | 6 | 2.39E-03 | 7 | 9.87E-03 | 8 | 1.61E-01 | 9 | 4.32E-02 | 10 | 7.66E-02 |
| | | 11 | 1.42E-01 | 12 | 1.28E-01 | 13 | 1.15E-01 | 14 | 7.90E-02 | 15 | 4.61E-02 |
| 103 | 451081 | 8 | 1.25E+00 | 9 | 1.00E+00 | 10 | 1.00E+00 | 11 | 1.32E-01 | 13 | 2.63E-01 |
| | | -1 | | | | | | | | | |
| 103 | 471080 | 1 | 1.35E-03 | 2 | 1.82E-02 | 8 | 4.99E-03 | 9 | 2.32E-02 | 12 | 1.05E-05 |
| | | -1 | | | | | | | | | |
| 103 | 471081 | 1 | 5.34E-02 | 2 | 6.50E-01 | 5 | 6.63E+00 | 8 | 9.05E-01 | 9 | 8.98E-01 |
| | | 10 | 9.08E-01 | -1 | | | | | | | |
| 103 | 401090 | 1 | 6.60E-04 | 2 | 3.30E-04 | 3 | 4.95E-04 | 4 | 8.25E-04 | 5 | 9.90E-04 |
| | | 6 | 3.42E-03 | 7 | 1.41E-02 | 8 | 2.44E-02 | 9 | 6.18E-02 | 10 | 1.10E-01 |
| | | 11 | 2.07E-01 | 12 | 2.11E-01 | 13 | 1.92E-01 | 14 | 1.53E-01 | 15 | 1.80E-01 |
| | | 16 | 9.04E-02 | 17 | 6.93E-03 | 18 | 3.09E-04 | -1 | | | |
| 103 | 411090 | 1 | 5.96E-04 | 2 | 2.98E-04 | 3 | 4.47E-04 | 4 | 7.45E-04 | 5 | 8.94E-04 |
| | | 6 | 3.09E-03 | 7 | 1.27E-02 | 8 | 2.20E-02 | 9 | 5.58E-02 | 10 | 9.89E-02 |
| | | 11 | 1.87E-01 | 12 | 1.86E-01 | 13 | 1.66E-01 | 14 | 1.29E-01 | 15 | 1.46E-01 |
| | | 16 | 6.87E-02 | 17 | 4.60E-03 | 18 | 1.19E-04 | -1 | | | |
| 103 | 421090 | 1 | 5.52E-04 | 2 | 2.76E-04 | 3 | 4.14E-04 | 4 | 6.90E-04 | 5 | 8.28E-04 |
| | | 6 | 2.86E-03 | 7 | 1.18E-02 | 8 | 2.04E-02 | 9 | 5.17E-02 | 10 | 9.17E-02 |
| | | 11 | 1.72E-01 | 12 | 1.66E-01 | 13 | 1.44E-01 | 14 | 1.08E-01 | 15 | 1.15E-01 |
| | | 16 | 4.89E-02 | 17 | 2.33E-03 | -1 | | | | | |
| 103 | 431090 | 1 | 6.71E-04 | 2 | 3.35E-04 | 3 | 5.03E-04 | 4 | 8.39E-04 | 5 | 1.01E-03 |
| | | 6 | 3.48E-03 | 7 | 1.43E-02 | 8 | 2.48E-02 | 9 | 6.28E-02 | 10 | 1.11E-01 |
| | | 11 | 1.99E-01 | 12 | 1.46E-01 | 13 | 9.50E-02 | 14 | 5.36E-02 | 15 | 2.91E-02 |
| | | 16 | 4.58E-07 | -1 | | | | | | | |
| 103 | 441090 | 1 | 7.70E-03 | 2 | 9.74E-02 | 3 | 4.64E-03 | 4 | 3.13E-02 | 6 | 8.29E-02 |
| | | 7 | 5.79E-01 | 8 | 2.95E-01 | 9 | 1.21E-01 | 10 | 1.48E-01 | 11 | 2.50E-01 |
| | | 12 | 4.97E-01 | 13 | 1.95E-02 | -1 | | | | | |
| 103 | 451090 | 1 | 8.19E-03 | 2 | 1.06E-01 | 3 | 1.21E-02 | 4 | 7.08E-04 | 5 | 6.64E-03 |
| | | 6 | 5.85E-02 | 7 | 2.76E-01 | 8 | 6.03E-01 | 9 | 1.90E-02 | 10 | 1.42E-02 |
| | | 11 | 2.75E-02 | 12 | 1.37E-02 | 13 | 5.09E-03 | -1 | | | |
| 103 | 461090 | 2 | 4.12E-05 | 3 | 5.49E-06 | 4 | 5.49E-06 | 8 | 5.42E-04 | 9 | 4.25E-04 |
| | | 10 | 1.77E-04 | 11 | 6.10E-07 | -1 | | | | | |
| 103 | 461091 | 1 | 2.28E-02 | 2 | 2.64E-01 | 7 | 5.59E-01 | -1 | | | |
| 103 | 471091 | 1 | 1.89E-02 | 2 | 1.23E-01 | 5 | 3.56E-01 | -1 | | | |
| 103 | 481090 | 1 | 5.44E-02 | 2 | 6.75E-01 | -1 | | | | | |
| 103 | 411100 | 1 | 7.66E-04 | 2 | 3.83E-04 | 3 | 5.75E-04 | 4 | 9.58E-04 | 5 | 1.15E-03 |
| | | 6 | 3.98E-03 | 7 | 1.64E-02 | 8 | 2.83E-02 | 9 | 7.17E-02 | 10 | 1.27E-01 |
| | | 11 | 2.43E-01 | 12 | 2.60E-01 | 13 | 2.48E-01 | 14 | 2.06E-01 | 15 | 2.61E-01 |
| | | 16 | 1.50E-01 | 17 | 1.41E-02 | 18 | 8.99E-04 | -1 | | | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 421100 | 1 | 4.53E-04 | 2 | 2.27E-04 | 3 | 3.40E-04 | 4 | 5.67E-04 | 5 | 6.80E-04 |
| | | 6 | 2.35E-03 | 7 | 9.69E-03 | 8 | 1.68E-02 | 9 | 4.24E-02 | 10 | 7.53E-02 |
| | | 11 | 1.39E-01 | 12 | 1.20E-01 | 13 | 9.14E-02 | 14 | 6.24E-02 | 15 | 6.05E-02 |
| | | 16 | 1.99E-02 | 17 | 3.36E-08 | -1 | | | | | |
| 103 | 431100 | 1 | 6.14E-04 | 2 | 3.07E-04 | 3 | 4.60E-04 | 4 | 7.67E-04 | 5 | 9.21E-04 |
| | | 6 | 3.18E-03 | 7 | 5.23E-01 | 8 | 1.44E-01 | 9 | 2.04E-01 | 10 | 1.21E-01 |
| | | 11 | 2.46E-01 | 12 | 2.01E-01 | 13 | 1.44E-01 | 14 | 1.01E-01 | 15 | 9.85E-02 |
| | | 16 | 3.56E-02 | 17 | 5.17E-04 | -1 | | | | | |
| 103 | 441100 | 1 | 4.03E-03 | 2 | 5.32E-02 | 3 | 3.23E-04 | 4 | 2.71E-03 | 5 | 3.09E-03 |
| | | 6 | 1.43E-01 | 7 | 1.27E-02 | 8 | 1.82E-02 | 9 | 4.14E-02 | 10 | 7.15E-02 |
| | | 11 | 1.42E-01 | 12 | 1.52E-01 | 13 | 1.87E-02 | -1 | | | |
| 103 | 451100 | 1 | 4.61E-04 | 2 | 2.30E-04 | 3 | 3.46E-04 | 4 | 5.76E-04 | 5 | 6.91E-04 |
| | | 6 | 2.39E-03 | 7 | 9.85E-03 | 8 | 2.54E-01 | 9 | 4.89E-02 | 10 | 1.10E-01 |
| | | 11 | 1.43E-01 | 12 | 1.12E-01 | 13 | 8.67E-02 | 14 | 6.68E-02 | 15 | 3.14E-02 |
| | | 16 | 7.78E-09 | -1 | | | | | | | |
| 103 | 451101 | 8 | 1.30E+00 | 9 | 9.65E-01 | 10 | 6.85E-01 | 11 | 3.13E-01 | 12 | 1.89E-01 |
| | | -1 | | | | | | | | | |
| 103 | 471100 | 1 | 1.60E-04 | 2 | 2.20E-03 | 7 | 7.64E-05 | 9 | 4.50E-02 | 10 | 4.72E-04 |
| | | 11 | 2.38E-04 | 12 | 1.39E-04 | 13 | 3.60E-05 | -1 | | | |
| 103 | 471101 | 1 | 1.41E-02 | 2 | 7.07E-03 | 6 | 9.02E-04 | 7 | 1.86E-03 | 8 | 3.96E-02 |
| | | 9 | 1.14E+00 | 10 | 1.57E+00 | 11 | 2.85E-01 | 12 | 1.40E-01 | 13 | 1.03E-05 |
| | | -1 | | | | | | | | | |
| 103 | 411110 | 1 | 6.21E-04 | 2 | 3.11E-04 | 3 | 4.66E-04 | 4 | 7.77E-04 | 5 | 9.32E-04 |
| | | 6 | 3.22E-03 | 7 | 1.33E-02 | 8 | 2.30E-02 | 9 | 5.81E-02 | 10 | 1.03E-01 |
| | | 11 | 1.95E-01 | 12 | 1.98E-01 | 13 | 1.80E-01 | 14 | 1.45E-01 | 15 | 1.72E-01 |
| | | 16 | 8.75E-02 | 17 | 6.87E-03 | 18 | 3.04E-04 | -1 | | | |
| 103 | 421110 | 1 | 6.27E-04 | 2 | 3.14E-04 | 3 | 4.71E-04 | 4 | 7.84E-04 | 5 | 9.41E-04 |
| | | 6 | 3.26E-03 | 7 | 1.34E-02 | 8 | 2.32E-02 | 9 | 5.87E-02 | 10 | 1.04E-01 |
| | | 11 | 1.97E-01 | 12 | 1.96E-01 | 13 | 1.75E-01 | 14 | 1.37E-01 | 15 | 1.57E-01 |
| | | 16 | 7.50E-02 | 17 | 5.17E-03 | 18 | 1.41E-04 | -1 | | | |
| 103 | 431110 | 1 | 4.74E-04 | 2 | 2.37E-04 | 3 | 3.55E-04 | 4 | 5.92E-04 | 5 | 7.11E-04 |
| | | 6 | 2.46E-03 | 7 | 1.01E-02 | 8 | 1.75E-02 | 9 | 4.43E-02 | 10 | 7.87E-02 |
| | | 11 | 1.47E-01 | 12 | 1.38E-01 | 13 | 1.18E-01 | 14 | 8.78E-02 | 15 | 8.99E-02 |
| | | 16 | 3.43E-02 | 17 | 9.40E-04 | -1 | | | | | |
| 103 | 441110 | 1 | 3.69E-04 | 2 | 1.85E-04 | 3 | 2.77E-04 | 4 | 4.62E-04 | 5 | 5.54E-04 |
| | | 6 | 1.92E-03 | 7 | 7.90E-03 | 8 | 1.37E-02 | 9 | 3.46E-02 | 10 | 6.14E-02 |
| | | 11 | 1.14E-01 | 12 | 1.02E-01 | 13 | 8.46E-02 | 14 | 5.85E-02 | 15 | 4.92E-02 |
| | | 16 | 1.05E-02 | -1 | | | | | | | |
| 103 | 451110 | 1 | 2.08E-03 | 2 | 1.04E-03 | 3 | 1.56E-03 | 4 | 2.60E-03 | 5 | 3.12E-03 |
| | | 6 | 1.08E-02 | 7 | 4.44E-02 | 8 | 7.68E-02 | 9 | 1.94E-01 | 10 | 3.45E-01 |
| | | 11 | 3.89E-01 | 12 | 1.39E-04 | 13 | 1.03E-04 | 14 | 6.46E-05 | 15 | 1.69E-05 |
| | | -1 | | | | | | | | | |
| 103 | 461110 | 1 | 5.20E-04 | 2 | 6.72E-03 | 5 | 7.96E-03 | 6 | 5.00E-05 | 7 | 1.98E-03 |
| | | 8 | 7.68E-03 | 9 | 2.76E-02 | 10 | 6.72E-03 | 11 | 1.45E-02 | 12 | 7.76E-04 |
| | | -1 | | | | | | | | | |
| 103 | 461111 | 1 | 2.19E-02 | 2 | 2.50E-01 | 5 | 8.22E-02 | 6 | 3.80E-03 | 7 | 3.57E-01 |
| | | 8 | 1.07E-01 | 9 | 1.48E-01 | 10 | 5.08E-02 | 11 | 4.13E-02 | 12 | 3.60E-02 |
| | | 13 | 4.80E-04 | -1 | | | | | | | |
| 103 | 471110 | 1 | 1.79E-04 | 2 | 2.20E-03 | 5 | 2.00E-03 | 7 | 1.24E-02 | 8 | 6.68E-02 |
| | | 9 | 3.35E-04 | 10 | 1.12E-04 | -1 | | | | | |
| 103 | 471111 | 1 | 4.85E-02 | 2 | 1.90E-01 | 4 | 5.31E-03 | 7 | 4.65E-03 | 8 | 9.10E-04 |
| | | 9 | 1.19E-03 | 10 | 3.10E-04 | -1 | | | | | |
| 103 | 481111 | 1 | 4.40E-02 | 2 | 3.99E-01 | 7 | 1.23E+00 | -1 | | | |
| 103 | 411120 | 1 | 7.89E-04 | 2 | 3.94E-04 | 3 | 5.92E-04 | 4 | 9.86E-04 | 5 | 1.18E-03 |
| | | 6 | 4.09E-03 | 7 | 1.69E-02 | 8 | 2.92E-02 | 9 | 7.38E-02 | 10 | 1.31E-01 |
| | | 11 | 2.50E-01 | 12 | 2.72E-01 | 13 | 2.63E-01 | 14 | 2.24E-01 | 15 | 2.95E-01 |
| | | 16 | 1.83E-01 | 17 | 1.98E-02 | 18 | 1.49E-03 | -1 | | | |
| 103 | 421120 | 1 | 4.63E-04 | 2 | 2.32E-04 | 3 | 3.47E-04 | 4 | 5.79E-04 | 5 | 6.95E-04 |
| | | 6 | 2.40E-03 | 7 | 9.90E-03 | 8 | 1.71E-02 | 9 | 4.33E-02 | 10 | 7.69E-02 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 11 | 1.43E-01 | 12 | 1.29E-01 | 13 | 1.04E-01 | 14 | 7.46E-02 | 15 | 7.79E-02 |
| | | 16 | 3.10E-02 | 17 | 9.12E-04 | -1 | | | | | |
| 103 | 431120 | 1 | 6.51E-04 | 2 | 3.25E-04 | 3 | 4.88E-04 | 4 | 8.13E-04 | 5 | 9.76E-04 |
| | | 6 | 3.37E-03 | 7 | 1.39E-02 | 8 | 2.40E-02 | 9 | 6.09E-02 | 10 | 1.08E-01 |
| | | 11 | 2.05E-01 | 12 | 2.12E-01 | 13 | 1.95E-01 | 14 | 1.57E-01 | 15 | 1.87E-01 |
| | | 16 | 9.85E-02 | 17 | 7.57E-03 | 18 | 3.10E-04 | -1 | | | |
| 103 | 441120 | 1 | 4.84E-04 | 2 | 2.42E-04 | 3 | 3.63E-04 | 4 | 6.05E-04 | 5 | 7.26E-04 |
| | | 6 | 2.51E-03 | 7 | 1.03E-02 | 8 | 1.79E-02 | 9 | 4.53E-02 | 10 | 8.04E-02 |
| | | 11 | 1.46E-01 | 12 | 1.06E-01 | 13 | 6.55E-02 | 14 | 3.18E-02 | 15 | 6.70E-03 |
| | | -1 | | | | | | | | | |
| 103 | 451120 | 1 | 4.16E-04 | 2 | 2.08E-04 | 3 | 3.12E-04 | 4 | 5.20E-04 | 5 | 6.24E-04 |
| | | 6 | 2.16E-03 | 7 | 8.89E-03 | 8 | 1.61E-01 | 9 | 4.39E-02 | 10 | 9.68E-02 |
| | | 11 | 1.29E-01 | 12 | 1.18E-01 | 13 | 9.03E-02 | 14 | 5.85E-02 | 15 | 5.71E-02 |
| | | 16 | 1.52E-02 | 17 | 1.24E-13 | -1 | | | | | |
| 103 | 461120 | 1 | 3.06E-01 | -1 | | | | | | | |
| 103 | 471120 | 6 | 9.03E-04 | 7 | 4.30E-04 | 8 | 2.06E-03 | 9 | 5.04E-01 | 10 | 2.48E-02 |
| | | 11 | 9.27E-02 | 12 | 5.80E-02 | 13 | 3.78E-02 | 14 | 2.08E-02 | 15 | 4.30E-05 |
| | | -1 | | | | | | | | | |
| 103 | 421130 | 1 | 6.52E-04 | 2 | 3.26E-04 | 3 | 4.89E-04 | 4 | 8.15E-04 | 5 | 9.78E-04 |
| | | 6 | 3.38E-03 | 7 | 1.39E-02 | 8 | 2.41E-02 | 9 | 6.10E-02 | 10 | 1.08E-01 |
| | | 11 | 2.05E-01 | 12 | 2.09E-01 | 13 | 1.92E-01 | 14 | 1.56E-01 | 15 | 1.89E-01 |
| | | 16 | 1.01E-01 | 17 | 8.55E-03 | 18 | 4.36E-04 | -1 | | | |
| 103 | 431130 | 1 | 5.29E-04 | 2 | 2.65E-04 | 3 | 3.97E-04 | 4 | 6.62E-04 | 5 | 7.94E-04 |
| | | 6 | 2.75E-03 | 7 | 1.13E-02 | 8 | 1.96E-02 | 9 | 4.95E-02 | 10 | 8.79E-02 |
| | | 11 | 1.65E-01 | 12 | 1.59E-01 | 13 | 1.39E-01 | 14 | 1.06E-01 | 15 | 1.12E-01 |
| | | 16 | 4.86E-02 | 17 | 2.44E-03 | -1 | | | | | |
| 103 | 441130 | 1 | 8.60E-03 | 2 | 1.18E-01 | 3 | 3.74E-04 | 4 | 6.23E-04 | 5 | 8.17E-02 |
| | | 6 | 2.59E-03 | 7 | 5.62E-01 | 8 | 2.00E-01 | 9 | 2.28E-01 | 10 | 1.27E-01 |
| | | 11 | 1.56E-01 | 12 | 1.22E-01 | 13 | 8.47E-02 | 14 | 5.49E-02 | 15 | 4.90E-02 |
| | | 16 | 1.12E-02 | 17 | 1.73E-09 | -1 | | | | | |
| 103 | 451130 | 1 | 2.87E-02 | 2 | 2.77E-01 | 3 | 2.74E-03 | 4 | 5.37E-04 | 5 | 4.01E-02 |
| | | 6 | 4.99E-02 | 7 | 2.12E-01 | 8 | 1.37E-01 | 9 | 9.69E-02 | 10 | 8.30E-02 |
| | | 11 | 1.29E-01 | 12 | 9.48E-02 | 13 | 5.94E-02 | 14 | 3.10E-02 | 15 | 1.12E-02 |
| | | 16 | 1.11E-07 | -1 | | | | | | | |
| 103 | 461130 | 1 | 3.87E-02 | 2 | 6.93E-02 | 3 | 7.42E-04 | 4 | 1.11E-03 | 5 | 1.73E-02 |
| | | 6 | 4.42E-03 | 7 | 2.56E-02 | 8 | 2.93E-02 | 9 | 8.85E-02 | 10 | 1.27E-01 |
| | | 11 | 2.04E-01 | 12 | 9.88E-02 | 13 | 4.68E-03 | 14 | 1.64E-06 | 15 | 1.12E-07 |
| | | -1 | | | | | | | | | |
| 103 | 471130 | 1 | 9.20E-04 | 2 | 3.13E-03 | 5 | 3.70E-04 | 6 | 6.60E-04 | 7 | 1.17E-01 |
| | | 8 | 2.93E-02 | 9 | 1.89E-02 | 10 | 8.61E-03 | 11 | 6.05E-03 | -1 | |
| 103 | 471131 | 1 | 4.64E-02 | 2 | 5.88E-02 | 3 | 3.27E-04 | 4 | 3.27E-04 | 6 | 3.15E-02 |
| | | 7 | 1.20E-01 | 8 | 3.01E-01 | 9 | 5.36E-02 | 10 | 5.49E-02 | -1 | |
| 103 | 481131 | 1 | 5.40E-05 | 2 | 4.24E-04 | 7 | 2.30E-04 | -1 | | | |
| 103 | 491131 | 1 | 2.39E-02 | 2 | 2.44E-01 | 8 | 6.42E-01 | -1 | | | |
| 103 | 421140 | 1 | 4.67E-04 | 2 | 2.34E-04 | 3 | 3.51E-04 | 4 | 5.84E-04 | 5 | 7.01E-04 |
| | | 6 | 2.42E-03 | 7 | 9.99E-03 | 8 | 1.73E-02 | 9 | 4.38E-02 | 10 | 7.76E-02 |
| | | 11 | 1.45E-01 | 12 | 1.36E-01 | 13 | 1.15E-01 | 14 | 8.71E-02 | 15 | 9.83E-02 |
| | | 16 | 4.52E-02 | 17 | 2.71E-03 | -1 | | | | | |
| 103 | 431140 | 1 | 6.95E-04 | 2 | 3.48E-04 | 3 | 5.21E-04 | 4 | 8.69E-04 | 5 | 1.04E-03 |
| | | 6 | 3.61E-03 | 7 | 1.49E-02 | 8 | 2.57E-02 | 9 | 6.51E-02 | 10 | 1.15E-01 |
| | | 11 | 2.20E-01 | 12 | 2.31E-01 | 13 | 2.18E-01 | 14 | 1.80E-01 | 15 | 2.25E-01 |
| | | 16 | 1.26E-01 | 17 | 1.14E-02 | 18 | 6.36E-04 | -1 | | | |
| 103 | 441140 | 1 | 6.54E-03 | 2 | 9.42E-02 | 3 | 3.27E-04 | 4 | 3.17E-02 | 5 | 1.45E-02 |
| | | 6 | 1.66E-01 | 7 | 4.51E-02 | 8 | 1.61E-02 | 9 | 4.08E-02 | 10 | 7.24E-02 |
| | | 11 | 1.32E-01 | 12 | 1.02E-01 | 13 | 6.92E-02 | 14 | 4.18E-02 | 15 | 3.05E-02 |
| | | 16 | 1.02E-03 | -1 | | | | | | | |
| 103 | 451140 | 1 | 1.21E-03 | 2 | 8.78E-03 | 3 | 4.27E-04 | 4 | 7.12E-04 | 5 | 8.54E-04 |
| | | 6 | 2.95E-03 | 7 | 1.22E-02 | 8 | 7.83E-01 | 9 | 2.07E-01 | 10 | 1.51E-01 |
| | | 11 | 1.76E-01 | 12 | 1.59E-01 | 13 | 1.23E-01 | 14 | 7.60E-02 | 15 | 6.30E-02 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 461140 | 16 | 6.67E-03 | 17 | 1.08E-07 | -1 | | | | | |
| | | 1 | 9.79E-04 | 2 | 1.04E-02 | 3 | 9.67E-05 | 4 | 1.61E-04 | 5 | 1.93E-04 |
| | | 6 | 5.07E-02 | 7 | 5.47E-02 | 8 | 1.99E-02 | 9 | 1.21E-02 | 10 | 2.14E-02 |
| | | 11 | 2.41E-02 | -1 | | | | | | | |
| 103 | 471140 | 9 | 2.32E-01 | 10 | 1.01E-02 | 11 | 3.09E-02 | 12 | 2.34E-02 | 13 | 8.12E-03 |
| | | 14 | 5.43E-03 | 15 | 8.77E-04 | -1 | | | | | |
| 103 | 491140 | 1 | 3.10E-04 | 2 | 3.50E-03 | 9 | 6.00E-05 | 11 | 1.39E-03 | -1 | |
| 103 | 491141 | 1 | 5.29E-02 | 2 | 3.63E-01 | 7 | 1.56E-01 | 9 | 3.14E-02 | 10 | 3.14E-02 |
| | | -1 | | | | | | | | | |
| 103 | 421150 | 1 | 6.31E-04 | 2 | 3.15E-04 | 3 | 4.73E-04 | 4 | 7.88E-04 | 5 | 9.46E-04 |
| | | 6 | 3.27E-03 | 7 | 1.35E-02 | 8 | 2.33E-02 | 9 | 5.90E-02 | 10 | 1.05E-01 |
| | | 11 | 1.98E-01 | 12 | 2.04E-01 | 13 | 1.93E-01 | 14 | 1.62E-01 | 15 | 2.07E-01 |
| | | 16 | 1.23E-01 | 17 | 1.25E-02 | 18 | 8.34E-04 | -1 | | | |
| 103 | 431150 | 1 | 5.67E-04 | 2 | 2.83E-04 | 3 | 4.25E-04 | 4 | 7.08E-04 | 5 | 8.50E-04 |
| | | 6 | 2.94E-03 | 7 | 1.21E-02 | 8 | 2.09E-02 | 9 | 5.30E-02 | 10 | 9.41E-02 |
| | | 11 | 1.77E-01 | 12 | 1.75E-01 | 13 | 1.57E-01 | 14 | 1.23E-01 | 15 | 1.40E-01 |
| | | 16 | 6.75E-02 | 17 | 4.65E-03 | 18 | 7.49E-05 | -1 | | | |
| 103 | 441150 | 1 | 5.40E-04 | 2 | 2.70E-04 | 3 | 4.05E-04 | 4 | 6.76E-04 | 5 | 8.11E-04 |
| | | 6 | 2.80E-03 | 7 | 1.16E-02 | 8 | 2.00E-02 | 9 | 5.06E-02 | 10 | 8.97E-02 |
| | | 11 | 1.68E-01 | 12 | 1.61E-01 | 13 | 1.39E-01 | 14 | 1.05E-01 | 15 | 1.10E-01 |
| | | 16 | 4.59E-02 | 17 | 1.87E-03 | -1 | | | | | |
| 103 | 451150 | 1 | 1.19E-02 | 2 | 1.56E-01 | 3 | 3.36E-04 | 4 | 5.60E-04 | 5 | 6.71E-04 |
| | | 6 | 4.53E-01 | 7 | 2.65E-01 | 8 | 6.06E-02 | 9 | 4.19E-02 | 10 | 7.43E-02 |
| | | 11 | 1.34E-01 | 12 | 1.05E-01 | 13 | 7.53E-02 | 14 | 4.82E-02 | 15 | 4.20E-02 |
| | | 16 | 7.72E-03 | -1 | | | | | | | |
| 103 | 461150 | 1 | 7.37E-04 | 2 | 3.68E-04 | 3 | 5.52E-04 | 4 | 9.21E-04 | 5 | 1.10E-03 |
| | | 6 | 3.82E-03 | 7 | 1.57E-02 | 8 | 2.72E-02 | 9 | 6.89E-02 | 10 | 1.22E-01 |
| | | 11 | 2.22E-01 | 12 | 1.67E-01 | 13 | 1.09E-01 | 14 | 6.20E-02 | 15 | 3.41E-02 |
| | | 16 | 1.23E-07 | -1 | | | | | | | |
| 103 | 471150 | 1 | 1.60E-03 | 2 | 1.87E-02 | 6 | 2.95E-02 | 7 | 2.40E-01 | 8 | 5.98E-02 |
| | | 9 | 1.16E-01 | 10 | 2.96E-02 | 11 | 4.14E-02 | 12 | 7.60E-02 | 13 | 5.38E-02 |
| | | 14 | 3.08E-03 | -1 | | | | | | | |
| 103 | 471151 | 1 | 1.03E-02 | 2 | 1.33E-02 | 3 | 7.35E-05 | 4 | 7.35E-05 | 6 | 5.73E-01 |
| | | 7 | 7.06E-01 | 8 | 4.57E-01 | 9 | 1.05E-01 | 10 | 4.07E-02 | -1 | |
| 103 | 481150 | 1 | 3.25E-03 | 2 | 3.42E-02 | 3 | 4.21E-03 | 7 | 2.77E-02 | 9 | 3.55E-01 |
| | | 10 | 2.48E-05 | -1 | | | | | | | |
| 103 | 481151 | 2 | 1.02E-04 | 6 | 4.42E-05 | 8 | 1.20E-06 | 9 | 9.78E-05 | 10 | 2.00E-02 |
| | | 11 | 1.76E-04 | -1 | | | | | | | |
| 103 | 491151 | 1 | 3.34E-02 | 2 | 3.37E-01 | 8 | 4.59E-01 | 9 | 4.70E-06 | -1 | |
| 103 | 431160 | 1 | 6.83E-04 | 2 | 3.42E-04 | 3 | 5.13E-04 | 4 | 8.54E-04 | 5 | 1.03E-03 |
| | | 6 | 3.54E-03 | 7 | 1.46E-02 | 8 | 2.53E-02 | 9 | 6.40E-02 | 10 | 1.13E-01 |
| | | 11 | 2.16E-01 | 12 | 2.29E-01 | 13 | 2.20E-01 | 14 | 1.87E-01 | 15 | 2.45E-01 |
| | | 16 | 1.51E-01 | 17 | 1.60E-02 | 18 | 1.11E-03 | -1 | | | |
| 103 | 441160 | 1 | 4.38E-04 | 2 | 2.19E-04 | 3 | 3.29E-04 | 4 | 5.48E-04 | 5 | 6.57E-04 |
| | | 6 | 2.27E-03 | 7 | 9.37E-03 | 8 | 1.62E-02 | 9 | 4.10E-02 | 10 | 7.28E-02 |
| | | 11 | 1.34E-01 | 12 | 1.10E-01 | 13 | 8.03E-02 | 14 | 5.26E-02 | 15 | 4.80E-02 |
| | | 16 | 1.06E-02 | -1 | | | | | | | |
| 103 | 451160 | 1 | 1.02E-03 | 2 | 6.58E-03 | 3 | 4.19E-04 | 4 | 6.98E-04 | 5 | 8.37E-04 |
| | | 6 | 2.90E-03 | 7 | 1.19E-02 | 8 | 6.33E-01 | 9 | 5.23E-02 | 10 | 2.10E-01 |
| | | 11 | 1.74E-01 | 12 | 1.67E-01 | 13 | 1.46E-01 | 14 | 1.10E-01 | 15 | 1.20E-01 |
| | | 16 | 5.12E-02 | 17 | 2.68E-03 | 18 | 1.02E-10 | -1 | | | |
| 103 | 461160 | 1 | 1.11E-02 | 2 | 1.08E-01 | 3 | 7.07E-04 | 4 | 1.18E-03 | 5 | 3.43E-02 |
| | | 6 | 3.64E-01 | 7 | 1.02E-01 | 8 | 4.82E-02 | 9 | 8.82E-02 | 10 | 1.57E-01 |
| | | 11 | 2.52E-01 | 12 | 1.53E-02 | 13 | 7.79E-06 | -1 | | | |
| 103 | 471160 | 1 | 4.49E-04 | 2 | 2.24E-04 | 3 | 3.37E-04 | 4 | 4.36E-03 | 5 | 6.73E-04 |
| | | 6 | 2.33E-03 | 7 | 9.59E-03 | 8 | 2.12E-02 | 9 | 9.69E-01 | 10 | 1.99E-01 |
| | | 11 | 3.75E-01 | 12 | 1.31E-01 | 13 | 2.25E-01 | 14 | 1.91E-01 | 15 | 1.10E-02 |
| | | 16 | 1.30E-06 | 17 | 1.05E-12 | -1 | | | | | |
| 103 | 471161 | 1 | 4.10E-03 | 2 | 1.74E-02 | 3 | 9.73E-04 | 4 | 1.62E-03 | 5 | 5.50E-02 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 6 | 2.44E-02 | 7 | 1.43E-01 | 8 | 4.80E-02 | 9 | 1.17E+00 | 10 | 1.22E+00 |
| | | 11 | 7.11E-01 | 12 | 1.37E-01 | 13 | 1.48E-02 | 14 | 1.23E-06 | 15 | 1.26E-06 |
| | | 16 | 5.93E-07 | 17 | 2.43E-09 | -1 | | | | | |
| 103 | 491160 | 9 | 2.55E-03 | 10 | 2.73E-04 | 11 | 1.36E-02 | 13 | 2.64E-04 | 14 | 1.17E-05 |
| | | -1 | | | | | | | | | |
| 103 | 491161 | 1 | 9.50E-04 | 2 | 9.59E-03 | 5 | 1.69E-04 | 6 | 3.35E-02 | 7 | 4.95E-03 |
| | | 8 | 2.87E-01 | 9 | 1.35E-02 | 10 | 1.27E-01 | 11 | 1.41E+00 | 12 | 1.24E-01 |
| | | 13 | 1.56E-01 | -1 | | | | | | | |
| 103 | 431170 | 1 | 5.51E-04 | 2 | 2.75E-04 | 3 | 4.13E-04 | 4 | 6.89E-04 | 5 | 8.26E-04 |
| | | 6 | 2.86E-03 | 7 | 1.18E-02 | 8 | 2.04E-02 | 9 | 5.16E-02 | 10 | 9.15E-02 |
| | | 11 | 1.72E-01 | 12 | 1.72E-01 | 13 | 1.60E-01 | 14 | 1.32E-01 | 15 | 1.62E-01 |
| | | 16 | 9.03E-02 | 17 | 8.22E-03 | 18 | 3.22E-04 | -1 | | | |
| 103 | 441170 | 1 | 5.47E-04 | 2 | 2.73E-04 | 3 | 4.10E-04 | 4 | 6.83E-04 | 5 | 8.20E-04 |
| | | 6 | 2.84E-03 | 7 | 1.17E-02 | 8 | 2.02E-02 | 9 | 5.12E-02 | 10 | 9.08E-02 |
| | | 11 | 1.70E-01 | 12 | 1.66E-01 | 13 | 1.48E-01 | 14 | 1.15E-01 | 15 | 1.30E-01 |
| | | 16 | 6.21E-02 | 17 | 3.78E-03 | -1 | | | | | |
| 103 | 451170 | 1 | 5.02E-04 | 2 | 2.51E-04 | 3 | 3.77E-04 | 4 | 6.28E-04 | 5 | 7.54E-04 |
| | | 6 | 2.61E-03 | 7 | 1.07E-02 | 8 | 1.86E-02 | 9 | 4.70E-02 | 10 | 8.34E-02 |
| | | 11 | 1.55E-01 | 12 | 1.33E-01 | 13 | 1.04E-01 | 14 | 7.37E-02 | 15 | 7.55E-02 |
| | | 16 | 2.84E-02 | 17 | 3.20E-04 | -1 | | | | | |
| 103 | 461170 | 1 | 4.90E-04 | 2 | 2.45E-04 | 3 | 3.68E-04 | 4 | 6.13E-04 | 5 | 7.36E-04 |
| | | 6 | 2.54E-03 | 7 | 1.05E-02 | 8 | 1.81E-02 | 9 | 4.59E-02 | 10 | 8.14E-02 |
| | | 11 | 1.50E-01 | 12 | 1.22E-01 | 13 | 8.88E-02 | 14 | 5.79E-02 | 15 | 5.22E-02 |
| | | 16 | 1.09E-02 | -1 | | | | | | | |
| 103 | 471170 | 1 | 4.80E-03 | 2 | 5.57E-02 | 6 | 2.50E-01 | 7 | 9.57E-02 | 8 | 2.94E-01 |
| | | 9 | 6.65E-02 | 10 | 5.63E-02 | 11 | 5.24E-02 | 12 | 2.15E-01 | 13 | 1.81E-01 |
| | | 14 | 6.95E-02 | 15 | 9.66E-03 | -1 | | | | | |
| 103 | 471171 | 1 | 1.27E-02 | 2 | 1.12E-01 | 6 | 5.65E-01 | 7 | 4.76E-01 | 8 | 7.60E-01 |
| | | 9 | 3.44E-01 | 10 | 7.64E-02 | 11 | 7.59E-02 | 12 | 3.08E-03 | -1 | |
| 103 | 481170 | 1 | 5.80E-03 | 2 | 5.48E-02 | 5 | 3.65E-02 | 6 | 5.58E-04 | 7 | 3.03E-01 |
| | | 8 | 2.87E-01 | 9 | 1.59E-02 | 10 | 1.29E-01 | 11 | 3.76E-01 | 12 | 1.78E-01 |
| | | 13 | 1.73E-03 | -1 | | | | | | | |
| 103 | 481171 | 5 | 1.15E-02 | 6 | 7.86E-04 | 7 | 1.07E-02 | 8 | 4.30E-02 | 9 | 2.18E-01 |
| | | 10 | 2.19E-01 | 11 | 6.48E-01 | 12 | 2.75E-01 | 13 | 1.77E-01 | 14 | 1.49E-03 |
| | | -1 | | | | | | | | | |
| 103 | 491170 | 1 | 1.00E-02 | 2 | 1.01E-01 | 7 | 8.70E-01 | 8 | 1.74E-03 | 9 | 1.00E+00 |
| | | -1 | | | | | | | | | |
| 103 | 491171 | 1 | 1.63E-02 | 2 | 1.98E-01 | 7 | 1.59E-01 | 8 | 1.91E-01 | 10 | 2.10E-04 |
| | | 11 | 1.30E-04 | -1 | | | | | | | |
| 103 | 501171 | 1 | 7.90E-02 | 2 | 6.59E-01 | 7 | 8.85E-01 | -1 | | | |
| 103 | 431180 | 1 | 6.62E-04 | 2 | 3.31E-04 | 3 | 4.97E-04 | 4 | 8.28E-04 | 5 | 9.93E-04 |
| | | 6 | 3.43E-03 | 7 | 1.42E-02 | 8 | 2.45E-02 | 9 | 6.20E-02 | 10 | 1.10E-01 |
| | | 11 | 2.09E-01 | 12 | 2.23E-01 | 13 | 2.20E-01 | 14 | 1.94E-01 | 15 | 2.71E-01 |
| | | 16 | 1.89E-01 | 17 | 2.46E-02 | 18 | 2.25E-03 | -1 | | | |
| 103 | 441180 | 1 | 4.23E-04 | 2 | 2.12E-04 | 3 | 3.18E-04 | 4 | 5.29E-04 | 5 | 6.35E-04 |
| | | 6 | 2.20E-03 | 7 | 9.05E-03 | 8 | 1.57E-02 | 9 | 3.96E-02 | 10 | 7.03E-02 |
| | | 11 | 1.30E-01 | 12 | 1.12E-01 | 13 | 8.66E-02 | 14 | 6.09E-02 | 15 | 6.23E-02 |
| | | 16 | 2.16E-02 | -1 | | | | | | | |
| 103 | 451180 | 1 | 5.65E-04 | 2 | 2.82E-04 | 3 | 4.24E-04 | 4 | 7.06E-04 | 5 | 8.47E-04 |
| | | 6 | 2.93E-03 | 7 | 1.21E-02 | 8 | 2.09E-02 | 9 | 5.29E-02 | 10 | 9.38E-02 |
| | | 11 | 1.77E-01 | 12 | 1.81E-01 | 13 | 1.68E-01 | 14 | 1.36E-01 | 15 | 1.68E-01 |
| | | 16 | 9.62E-02 | 17 | 7.90E-03 | 18 | 2.54E-04 | -1 | | | |
| 103 | 461180 | 1 | 5.03E-02 | 2 | 5.81E-01 | 3 | 5.87E-02 | 4 | 6.55E-02 | 5 | 5.94E-02 |
| | | 6 | 5.55E-01 | 7 | 4.51E-01 | 8 | 2.10E-01 | 9 | 9.20E-02 | 10 | 4.78E-02 |
| | | 11 | 8.64E-02 | 12 | 6.30E-02 | 13 | 3.84E-02 | 14 | 1.72E-02 | 15 | 2.11E-03 |
| | | -1 | | | | | | | | | |
| 103 | 471180 | 8 | 4.37E-03 | 9 | 9.21E-01 | 10 | 9.23E-02 | 11 | 4.86E-02 | 12 | 3.16E-02 |
| | | 13 | 4.36E-02 | 14 | 1.69E-01 | 15 | 9.07E-02 | -1 | | | |
| 103 | 471181 | 1 | 1.97E-02 | 2 | 1.67E-01 | 3 | 4.41E-04 | 4 | 7.36E-04 | 5 | 8.83E-04 |

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|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 6 | 1.51E+00 | 7 | 3.25E-02 | 8 | 4.24E-02 | 9 | 3.09E-01 | 10 | 1.76E-01 |
| | | 11 | 2.57E-01 | 12 | 1.44E-01 | 13 | 1.59E-01 | 14 | 1.21E-01 | 15 | 7.72E-02 |
| | | 16 | 1.24E-06 | 17 | 5.76E-08 | -1 | | | | | |
| 103 | 481180 | 1 | 7.72E-04 | 2 | 3.86E-04 | 3 | 5.79E-04 | 4 | 9.65E-04 | 5 | 1.16E-03 |
| | | 6 | 4.25E-03 | 7 | 1.78E-02 | 8 | 2.59E-02 | 9 | 2.57E-02 | 10 | 3.45E-08 |
| | | -1 | | | | | | | | | |
| 103 | 491180 | 9 | 7.00E-03 | 10 | 2.30E-03 | 11 | 5.53E-02 | 12 | 1.30E-03 | 13 | 1.05E-03 |
| | | -1 | | | | | | | | | |
| 103 | 491181 | 1 | 2.31E-04 | 2 | 2.33E-03 | 7 | 3.51E-02 | 8 | 5.57E-02 | 9 | 6.20E-01 |
| | | 10 | 5.41E-02 | 11 | 1.87E+00 | 12 | 2.02E-02 | 13 | 4.50E-02 | 14 | 2.39E-03 |
| | | 15 | 1.92E-04 | -1 | | | | | | | |
| 103 | 441190 | 1 | 5.51E-04 | 2 | 2.76E-04 | 3 | 4.13E-04 | 4 | 6.89E-04 | 5 | 8.27E-04 |
| | | 6 | 2.86E-03 | 7 | 1.18E-02 | 8 | 2.04E-02 | 9 | 5.16E-02 | 10 | 9.15E-02 |
| | | 11 | 1.72E-01 | 12 | 1.71E-01 | 13 | 1.57E-01 | 14 | 1.27E-01 | 15 | 1.54E-01 |
| | | 16 | 8.52E-02 | 17 | 7.39E-03 | 18 | 1.46E-04 | -1 | | | |
| 103 | 451190 | 1 | 4.55E-04 | 2 | 2.28E-04 | 3 | 3.42E-04 | 4 | 5.69E-04 | 5 | 6.83E-04 |
| | | 6 | 2.36E-03 | 7 | 9.74E-03 | 8 | 1.68E-02 | 9 | 4.26E-02 | 10 | 7.56E-02 |
| | | 11 | 1.41E-01 | 12 | 1.34E-01 | 13 | 1.19E-01 | 14 | 9.30E-02 | 15 | 1.01E-01 |
| | | 16 | 4.57E-02 | 17 | 1.76E-03 | -1 | | | | | |
| 103 | 461190 | 1 | 5.07E-04 | 2 | 2.53E-04 | 3 | 3.80E-04 | 4 | 6.33E-04 | 5 | 7.60E-04 |
| | | 6 | 2.63E-03 | 7 | 1.08E-02 | 8 | 1.87E-02 | 9 | 4.74E-02 | 10 | 8.41E-02 |
| | | 11 | 1.58E-01 | 12 | 1.44E-01 | 13 | 1.05E-01 | 14 | 7.16E-02 | 15 | 7.16E-02 |
| | | 16 | 2.29E-02 | 17 | 1.21E-12 | -1 | | | | | |
| 103 | 471190 | 1 | 4.86E-02 | 2 | 5.79E-01 | 4 | 6.89E-02 | 5 | 2.52E-02 | 7 | 1.97E-01 |
| | | 8 | 3.60E-01 | 9 | 4.46E-01 | 10 | 1.86E-01 | 11 | 1.98E-01 | 12 | 1.14E-01 |
| | | 13 | 1.35E-01 | 14 | 9.83E-02 | -1 | | | | | |
| 103 | 481190 | 1 | 2.96E-03 | 2 | 3.09E-02 | 4 | 3.61E-03 | 6 | 7.51E-02 | 7 | 3.77E-01 |
| | | 8 | 2.13E-01 | 9 | 1.95E-02 | 10 | 1.31E-01 | 11 | 2.80E-01 | 12 | 3.76E-01 |
| | | 13 | 1.10E-01 | 14 | 3.12E-02 | -1 | | | | | |
| 103 | 481191 | 1 | 9.80E-04 | 2 | 1.06E-02 | 4 | 2.03E-05 | 5 | 7.69E-03 | 6 | 3.28E-02 |
| | | 7 | 1.89E-02 | 8 | 1.44E-01 | 9 | 7.51E-02 | 10 | 3.26E-01 | 11 | 7.83E-01 |
| | | 12 | 1.12E-01 | 13 | 3.49E-01 | 14 | 2.80E-02 | -1 | | | |
| 103 | 491190 | 1 | 5.32E-02 | 2 | 1.61E-01 | 9 | 4.86E-03 | 10 | 9.92E-01 | 11 | 4.56E-03 |
| | | -1 | | | | | | | | | |
| 103 | 491191 | 1 | 2.37E-03 | 2 | 2.25E-02 | 3 | 5.08E-05 | 4 | 8.46E-05 | 5 | 1.02E-04 |
| | | 6 | 3.51E-04 | 7 | 1.45E-03 | 8 | 3.72E-03 | 9 | 6.34E-03 | 10 | 1.16E-02 |
| | | 11 | 2.43E-02 | 12 | 2.10E-02 | 13 | 1.66E-02 | 14 | 1.49E-03 | -1 | |
| 103 | 501191 | 1 | 1.19E-01 | 2 | 5.86E-01 | 4 | 1.98E-04 | -1 | | | |
| 103 | 441200 | 1 | 4.15E-04 | 2 | 2.07E-04 | 3 | 3.11E-04 | 4 | 5.19E-04 | 5 | 6.22E-04 |
| | | 6 | 2.15E-03 | 7 | 8.87E-03 | 8 | 1.53E-02 | 9 | 3.88E-02 | 10 | 6.89E-02 |
| | | 11 | 1.28E-01 | 12 | 1.14E-01 | 13 | 9.27E-02 | 14 | 6.88E-02 | 15 | 7.65E-02 |
| | | 16 | 3.41E-02 | 17 | 5.44E-04 | -1 | | | | | |
| 103 | 451200 | 1 | 5.71E-04 | 2 | 2.85E-04 | 3 | 4.28E-04 | 4 | 7.14E-04 | 5 | 8.56E-04 |
| | | 6 | 2.96E-03 | 7 | 1.22E-02 | 8 | 2.11E-02 | 9 | 5.34E-02 | 10 | 9.48E-02 |
| | | 11 | 1.79E-01 | 12 | 1.85E-01 | 13 | 1.77E-01 | 14 | 1.50E-01 | 15 | 1.96E-01 |
| | | 16 | 1.25E-01 | 17 | 1.31E-02 | 18 | 7.26E-04 | -1 | | | |
| 103 | 461200 | 1 | 4.43E-04 | 2 | 2.21E-04 | 3 | 3.32E-04 | 4 | 5.53E-04 | 5 | 6.64E-04 |
| | | 6 | 2.30E-03 | 7 | 9.46E-03 | 8 | 1.64E-02 | 9 | 4.14E-02 | 10 | 7.35E-02 |
| | | 11 | 1.34E-01 | 12 | 1.03E-01 | 13 | 7.14E-02 | 14 | 4.37E-02 | 15 | 2.77E-02 |
| | | -1 | | | | | | | | | |
| 103 | 471200 | 1 | 6.18E-04 | 2 | 3.09E-04 | 3 | 4.63E-04 | 4 | 7.72E-04 | 5 | 9.27E-04 |
| | | 6 | 3.20E-03 | 7 | 1.32E-02 | 8 | 2.28E-02 | 9 | 1.07E+00 | 10 | 2.13E-01 |
| | | 11 | 2.81E-01 | 12 | 1.77E-01 | 13 | 1.52E-01 | 14 | 1.20E-01 | 15 | 1.40E-01 |
| | | 16 | 5.87E-02 | 17 | 1.06E-03 | -1 | | | | | |
| 103 | 481200 | 1 | 2.02E-04 | 2 | 1.01E-04 | 3 | 1.51E-04 | 4 | 2.52E-04 | 5 | 3.02E-04 |
| | | 6 | 1.05E-03 | 7 | 4.31E-03 | 8 | 7.45E-03 | 9 | 1.89E-02 | 10 | 3.35E-02 |
| | | 11 | 5.63E-02 | 12 | 8.68E-03 | -1 | | | | | |
| 103 | 491200 | 1 | 3.40E-04 | 2 | 1.70E-04 | 3 | 2.55E-04 | 4 | 4.25E-04 | 5 | 5.10E-04 |
| | | 6 | 1.76E-03 | 7 | 8.54E-03 | 8 | 1.26E-02 | 9 | 3.18E-02 | 10 | 6.69E-02 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 11 | 2.38E-01 | 12 | 7.37E-02 | 13 | 6.08E-02 | 14 | 6.57E-03 | 15 | 1.97E-07 |
| | | 16 | 9.90E-08 | -1 | | | | | | | |
| 103 | 491201 | 5 | 7.80E-01 | 7 | 9.24E-01 | 8 | 1.31E-01 | .9 | 3.12E-01 | 10 | 5.95E-01 |
| | | 11 | 2.03E+00 | -1 | | | | | | | |
| 103 | 451210 | 1 | 4.72E-04 | 2 | 2.36E-04 | 3 | 3.54E-04 | 4 | 5.89E-04 | 5 | 7.07E-04 |
| | | 6 | 2.45E-03 | 7 | 1.01E-02 | 8 | 1.74E-02 | 9 | 4.41E-02 | 10 | 7.83E-02 |
| | | 11 | 1.47E-01 | 12 | 1.41E-01 | 13 | 1.28E-01 | 14 | 1.05E-01 | 15 | 1.23E-01 |
| | | 16 | 6.37E-02 | 17 | 4.30E-03 | -1 | | | | | |
| 103 | 461210 | 1 | 4.65E-04 | 2 | 2.33E-04 | 3 | 3.49E-04 | 4 | 5.82E-04 | 5 | 6.98E-04 |
| | | 6 | 2.41E-03 | 7 | 9.94E-03 | 8 | 1.72E-02 | 9 | 4.35E-02 | 10 | 7.73E-02 |
| | | 11 | 1.44E-01 | 12 | 1.37E-01 | 13 | 1.23E-01 | 14 | 9.42E-02 | 15 | 1.03E-01 |
| | | 16 | 4.79E-02 | 17 | 1.49E-03 | -1 | | | | | |
| 103 | 471210 | 1 | 8.82E-03 | 2 | 2.58E-02 | 3 | 4.02E-04 | 4 | 1.47E-03 | 5 | 8.04E-04 |
| | | 6 | 5.99E-02 | 7 | 6.86E-02 | 8 | 7.69E-01 | 9 | 2.31E-01 | 10 | 3.02E-01 |
| | | 11 | 3.85E-01 | 12 | 3.06E-01 | 13 | 1.13E-01 | 14 | 5.97E-02 | 15 | 6.83E-04 |
| | | 16 | 4.96E-06 | -1 | | | | | | | |
| 103 | 481210 | 1 | 1.18E-03 | 2 | 1.27E-02 | 7 | 6.68E-02 | 8 | 7.01E-01 | 9 | 1.49E-01 |
| | | 10 | 1.51E-01 | 11 | 5.95E-01 | 12 | 2.99E-01 | 13 | 2.48E-03 | -1 | |
| 103 | 491210 | 1 | 1.30E-03 | 2 | 7.14E-03 | 3 | 1.10E-04 | 4 | 2.22E-03 | 5 | 2.19E-04 |
| | | 6 | 7.59E-04 | 7 | 6.63E-02 | 8 | 5.41E-03 | 9 | 7.05E-02 | 10 | 7.65E-01 |
| | | 11 | 4.72E-02 | 12 | 3.80E-02 | 13 | 3.43E-02 | 14 | 2.72E-02 | 15 | 7.34E-03 |
| | | -1 | | | | | | | | | |
| 103 | 491211 | 1 | 3.71E-02 | 2 | 3.76E-01 | 4 | 2.04E-01 | 8 | 4.80E-03 | 10 | 3.57E-03 |
| | | 11 | 2.60E-02 | 14 | 2.14E-03 | 15 | 1.02E-03 | -1 | | | |
| 103 | 501211 | 1 | 5.46E-02 | 2 | 1.54E-01 | 3 | 1.85E-02 | -1 | | | |
| 103 | 451220 | 1 | 5.63E-04 | 2 | 2.82E-04 | 3 | 4.22E-04 | 4 | 7.04E-04 | 5 | 8.45E-04 |
| | | 6 | 2.92E-03 | 7 | 1.20E-02 | 8 | 2.08E-02 | 9 | 5.27E-02 | 10 | 9.35E-02 |
| | | 11 | 1.77E-01 | 12 | 1.84E-01 | 13 | 1.78E-01 | 14 | 1.55E-01 | 15 | 2.14E-01 |
| | | 16 | 1.49E-01 | 17 | 1.87E-02 | 18 | 1.39E-03 | -1 | | | |
| 103 | 461220 | 1 | 4.13E-04 | 2 | 2.07E-04 | 3 | 3.10E-04 | 4 | 5.17E-04 | 5 | 6.20E-04 |
| | | 6 | 2.14E-03 | 7 | 8.83E-03 | 8 | 1.53E-02 | 9 | 3.87E-02 | 10 | 6.86E-02 |
| | | 11 | 1.26E-01 | 12 | 1.02E-01 | 13 | 7.51E-02 | 14 | 5.07E-02 | 15 | 4.74E-02 |
| | | 16 | 7.13E-03 | -1 | | | | | | | |
| 103 | 471220 | 1 | 3.82E-04 | 2 | 1.91E-04 | 3 | 2.87E-04 | 4 | 4.78E-04 | 5 | 5.73E-04 |
| | | 6 | 1.98E-03 | 7 | 8.17E-03 | 8 | 1.41E-02 | 9 | 1.20E+00 | 10 | 5.14E-01 |
| | | 11 | 1.90E-01 | 12 | 1.08E-01 | 13 | 9.39E-02 | 14 | 7.55E-02 | 15 | 9.59E-02 |
| | | 16 | 4.68E-02 | 17 | 1.36E-03 | -1 | | | | | |
| 103 | 481220 | 1 | 4.25E-04 | 2 | 2.13E-04 | 3 | 3.19E-04 | 4 | 5.32E-04 | 5 | 6.38E-04 |
| | | 6 | 2.21E-03 | 7 | 9.09E-03 | 8 | 1.57E-02 | 9 | 3.98E-02 | 10 | 7.06E-02 |
| | | 11 | 1.27E-01 | 12 | 8.36E-02 | 13 | 2.69E-02 | -1 | | | |
| 103 | 491220 | 1 | 6.08E-04 | 2 | 3.04E-04 | 3 | 4.56E-04 | 4 | 7.59E-04 | 5 | 9.11E-04 |
| | | 6 | 3.15E-03 | 7 | 1.30E-02 | 8 | 2.51E-02 | 9 | 5.69E-02 | 10 | 1.06E-01 |
| | | 11 | 5.30E-01 | 12 | 1.29E-01 | 13 | 4.51E-02 | 14 | 4.54E-02 | 15 | 4.93E-03 |
| | | 16 | 2.61E-03 | 17 | 1.34E-08 | -1 | | | | | |
| 103 | 491221 | 1 | 7.60E-04 | 2 | 7.66E-03 | 6 | 5.98E-02 | 7 | 1.52E-02 | 8 | 4.16E-02 |
| | | 9 | 2.09E-02 | 10 | 3.33E-01 | 11 | 2.11E+00 | 12 | 9.71E-02 | 13 | 5.53E-02 |
| | | 14 | 3.38E-02 | -1 | | | | | | | |
| 103 | 511220 | 1 | 1.78E-03 | 2 | 1.78E-02 | 9 | 7.45E-01 | 10 | 1.63E-04 | 11 | 1.57E-02 |
| | | 12 | 9.19E-05 | -1 | | | | | | | |
| 103 | 511221 | 1 | 1.00E-01 | 2 | 3.09E-01 | 4 | 5.54E-01 | 5 | 1.36E-03 | -1 | |
| 103 | 451230 | 1 | 4.69E-04 | 2 | 2.35E-04 | 3 | 3.52E-04 | 4 | 5.86E-04 | 5 | 7.04E-04 |
| | | 6 | 2.43E-03 | 7 | 1.00E-02 | 8 | 1.73E-02 | 9 | 4.39E-02 | 10 | 7.79E-02 |
| | | 11 | 1.46E-01 | 12 | 1.43E-01 | 13 | 1.34E-01 | 14 | 1.14E-01 | 15 | 1.46E-01 |
| | | 16 | 9.15E-02 | 17 | 9.77E-03 | 18 | 1.47E-04 | -1 | | | |
| 103 | 461230 | 1 | 4.71E-04 | 2 | 2.36E-04 | 3 | 3.54E-04 | 4 | 5.89E-04 | 5 | 7.07E-04 |
| | | 6 | 2.45E-03 | 7 | 1.01E-02 | 8 | 1.74E-02 | 9 | 4.41E-02 | 10 | 7.83E-02 |
| | | 11 | 1.46E-01 | 12 | 1.40E-01 | 13 | 1.29E-01 | 14 | 1.04E-01 | 15 | 1.23E-01 |
| | | 16 | 6.59E-02 | 17 | 4.01E-03 | -1 | | | | | |
| 103 | 471230 | 1 | 6.05E-03 | 2 | 6.22E-02 | 3 | 3.37E-04 | 4 | 5.62E-04 | 5 | 6.75E-04 |

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|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 6 | 1.36E-01 | 7 | 3.89E-01 | 8 | 3.09E-01 | 9 | 2.76E-01 | 10 | 1.19E-01 |
| | | 11 | 2.29E-01 | 12 | 2.25E-01 | 13 | 1.19E-01 | 14 | 1.22E-01 | 15 | 2.44E-02 |
| | | 16 | 4.70E-06 | 17 | 2.98E-07 | -1 | | | | | |
| 103 | 481230 | 1 | 6.20E-04 | 2 | 6.86E-03 | 7 | 3.14E-02 | 8 | 6.06E-01 | 9 | 6.85E-02 |
| | | 10 | 2.12E-01 | 11 | 6.47E-01 | 12 | 3.69E-01 | 13 | 6.17E-02 | -1 | |
| 103 | 491230 | 1 | 1.16E-04 | 2 | 1.17E-03 | 7 | 5.79E-03 | 8 | 1.61E-03 | 9 | 3.33E-02 |
| | | 10 | 1.90E-02 | 11 | 9.14E-01 | 13 | 2.57E-03 | -1 | | | |
| 103 | 491231 | 1 | 8.40E-03 | 2 | 8.50E-02 | 6 | 3.84E-01 | 10 | 7.49E-04 | 11 | 9.60E-04 |
| | | 13 | 1.73E-04 | 14 | 8.93E-04 | 15 | 3.26E-03 | -1 | | | |
| 103 | 501230 | 7 | 1.93E-05 | 11 | 6.33E-03 | -1 | | | | | |
| 103 | 501231 | 1 | 1.11E-02 | 2 | 1.07E-01 | 7 | 8.57E-01 | 8 | 4.20E-04 | 9 | 3.00E-04 |
| | | -1 | | | | | | | | | |
| 103 | 521230 | 1 | 6.06E-02 | 2 | 1.55E-03 | -1 | | | | | |
| 103 | 521231 | 1 | 9.30E-02 | 2 | 4.22E-01 | 3 | 9.50E-02 | 5 | 9.24E-04 | 7 | 8.40E-01 |
| | | -1 | | | | | | | | | |
| 103 | 461240 | 1 | 3.86E-04 | 2 | 1.93E-04 | 3 | 2.90E-04 | 4 | 4.83E-04 | 5 | 5.80E-04 |
| | | 6 | 2.00E-03 | 7 | 8.26E-03 | 8 | 1.43E-02 | 9 | 3.62E-02 | 10 | 6.42E-02 |
| | | 11 | 1.18E-01 | 12 | 1.01E-01 | 13 | 7.99E-02 | 14 | 5.85E-02 | 15 | 6.47E-02 |
| | | 16 | 2.34E-02 | -1 | | | | | | | |
| 103 | 471240 | 1 | 5.03E-04 | 2 | 2.51E-04 | 3 | 3.77E-04 | 4 | 6.28E-04 | 5 | 7.54E-04 |
| | | 6 | 2.61E-03 | 7 | 1.07E-02 | 8 | 1.86E-02 | 9 | 4.70E-02 | 10 | 8.34E-02 |
| | | 11 | 1.57E-01 | 12 | 1.60E-01 | 13 | 1.53E-01 | 14 | 1.32E-01 | 15 | 1.81E-01 |
| | | 16 | 1.27E-01 | 17 | 1.52E-02 | 18 | 7.52E-04 | -1 | | | |
| 103 | 481240 | 1 | 4.13E-02 | 2 | 4.49E-01 | 3 | 3.10E-02 | 4 | 1.54E-01 | 5 | 4.54E-04 |
| | | 6 | 8.78E-02 | 7 | 3.41E-01 | 8 | 1.12E-02 | 9 | 2.83E-02 | 10 | 5.03E-02 |
| | | 11 | 9.13E-02 | 12 | 6.91E-02 | 13 | 4.51E-02 | 14 | 2.24E-02 | 15 | 4.15E-03 |
| | | -1 | | | | | | | | | |
| 103 | 491240 | 1 | 3.78E-04 | 2 | 6.60E-04 | 3 | 2.47E-04 | 4 | 4.12E-04 | 5 | 4.94E-04 |
| | | 6 | 1.71E-03 | 7 | 7.04E-03 | 8 | 1.64E-02 | 9 | 3.78E-02 | 10 | 2.09E-01 |
| | | 11 | 6.02E-01 | 12 | 1.44E-01 | 13 | 1.11E-01 | 14 | 6.63E-02 | 15 | 1.65E-01 |
| | | 16 | 1.44E-02 | 17 | 3.52E-07 | -1 | | | | | |
| 103 | 511240 | 1 | 4.54E-04 | 2 | 3.44E-03 | 3 | 7.77E-04 | 7 | 4.89E-04 | 8 | 5.18E-03 |
| | | 9 | 1.06E+00 | 10 | 1.76E-01 | 11 | 1.01E-01 | 12 | 4.83E-01 | 13 | 5.87E-02 |
| | | 14 | 4.11E-05 | -1 | | | | | | | |
| 103 | 511241 | 1 | 4.90E-02 | 9 | 7.45E-01 | 11 | 5.00E-03 | -1 | | | |
| 103 | 461250 | 1 | 4.47E-04 | 2 | 2.24E-04 | 3 | 3.35E-04 | 4 | 5.59E-04 | 5 | 6.71E-04 |
| | | 6 | 2.32E-03 | 7 | 9.56E-03 | 8 | 1.65E-02 | 9 | 4.19E-02 | 10 | 7.43E-02 |
| | | 11 | 1.39E-01 | 12 | 1.34E-01 | 13 | 1.27E-01 | 14 | 1.09E-01 | 15 | 1.42E-01 |
| | | 16 | 9.50E-02 | 17 | 1.04E-02 | -1 | | | | | |
| 103 | 471250 | 1 | 4.25E-04 | 2 | 2.13E-04 | 3 | 3.19E-04 | 4 | 5.31E-04 | 5 | 6.38E-04 |
| | | 6 | 2.21E-03 | 7 | 9.09E-03 | 8 | 1.57E-02 | 9 | 3.98E-02 | 10 | 7.06E-02 |
| | | 11 | 1.32E-01 | 12 | 1.25E-01 | 13 | 1.17E-01 | 14 | 9.95E-02 | 15 | 1.24E-01 |
| | | 16 | 7.32E-02 | 17 | 5.65E-03 | -1 | | | | | |
| 103 | 481250 | 7 | 3.48E-02 | 8 | 4.65E-01 | 9 | 3.58E-02 | 10 | 1.69E-01 | 11 | 4.29E-01 |
| | | 12 | 2.74E-01 | 13 | 3.76E-01 | 14 | 6.61E-03 | -1 | | | |
| 103 | 491250 | 1 | 6.00E-05 | 2 | 6.55E-04 | 8 | 2.44E-02 | 9 | 7.90E-02 | 10 | 1.03E-01 |
| | | 11 | 8.05E-01 | 12 | 9.30E-03 | -1 | | | | | |
| 103 | 491251 | 1 | 4.88E-03 | 2 | 5.01E-02 | 3 | 1.34E-04 | 4 | 2.23E-04 | 5 | 2.67E-04 |
| | | 6 | 9.24E-04 | 7 | 3.67E-01 | 8 | 6.58E-03 | 9 | 1.67E-02 | 10 | 2.96E-02 |
| | | 11 | 5.49E-02 | 12 | 5.13E-02 | 13 | 4.66E-02 | 14 | 3.64E-02 | 15 | 3.88E-02 |
| | | 16 | 1.55E-02 | -1 | | | | | | | |
| 103 | 501250 | 1 | 4.30E-05 | 2 | 4.28E-04 | 7 | 1.91E-03 | 8 | 1.76E-02 | 9 | 1.62E-02 |
| | | 10 | 1.04E-01 | 11 | 1.76E-01 | 12 | 2.62E-03 | 13 | 2.21E-02 | -1 | |
| 103 | 501251 | 1 | 1.83E-03 | 2 | 1.78E-02 | 7 | 6.80E-04 | 8 | 9.74E-01 | 9 | 3.60E-03 |
| | | 10 | 8.07E-04 | 11 | 1.20E-02 | 12 | 2.00E-03 | 13 | 1.94E-05 | -1 | |
| 103 | 511250 | 1 | 5.02E-02 | 2 | 3.80E-01 | 3 | 1.29E-01 | 4 | 2.69E-04 | 6 | 2.86E-03 |
| | | 7 | 7.63E-02 | 8 | 3.20E-01 | 9 | 4.65E-01 | -1 | | | |
| 103 | 521251 | 1 | 1.52E-01 | 2 | 9.41E-01 | 3 | 2.80E-01 | 6 | 2.74E-03 | -1 | |
| 103 | 461260 | 1 | 3.51E-04 | 2 | 1.76E-04 | 3 | 2.63E-04 | 4 | 4.39E-04 | 5 | 5.27E-04 |

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|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 6 | 1.82E-03 | 7 | 7.50E-03 | 8 | 1.30E-02 | 9 | 3.29E-02 | 10 | 5.83E-02 |
| | | 11 | 1.08E-01 | 12 | 9.50E-02 | 13 | 8.09E-02 | 14 | 6.50E-02 | 15 | 8.42E-02 |
| | | 16 | 5.18E-02 | 17 | 1.38E-03 | -1 | | | | | |
| 103 | 471260 | 1 | 5.54E-04 | 2 | 2.77E-04 | 3 | 4.15E-04 | 4 | 6.92E-04 | 5 | 8.31E-04 |
| | | 6 | 2.87E-03 | 7 | 1.18E-02 | 8 | 2.05E-02 | 9 | 5.18E-02 | 10 | 9.20E-02 |
| | | 11 | 1.73E-01 | 12 | 1.74E-01 | 13 | 1.71E-01 | 14 | 1.54E-01 | 15 | 2.31E-01 |
| | | 16 | 1.97E-01 | 17 | 3.35E-02 | 18 | 3.12E-03 | -1 | | | |
| 103 | 481260 | 1 | 3.43E-04 | 2 | 1.71E-04 | 3 | 2.57E-04 | 4 | 4.29E-04 | 5 | 5.14E-04 |
| | | 6 | 1.78E-03 | 7 | 7.33E-03 | 8 | 1.27E-02 | 9 | 3.21E-02 | 10 | 5.69E-02 |
| | | 11 | 1.04E-01 | 12 | 8.30E-02 | 13 | 6.15E-02 | 14 | 4.17E-02 | 15 | 3.48E-02 |
| | | 16 | 7.34E-04 | -1 | | | | | | | |
| 103 | 491260 | 7 | 2.74E-03 | 8 | 4.03E-03 | 9 | 2.35E-02 | 10 | 2.03E-01 | 11 | 6.64E-01 |
| | | 12 | 8.56E-02 | 13 | 1.02E-01 | 14 | 4.35E-02 | 15 | 3.30E-01 | 16 | 4.90E-02 |
| | | -1 | | | | | | | | | |
| 103 | 501260 | 1 | 1.90E-01 | 2 | 6.71E-01 | 3 | 4.50E-03 | 4 | 1.78E-01 | 5 | 8.30E-01 |
| | | -1 | | | | | | | | | |
| 103 | 511260 | 1 | 1.93E-03 | 2 | 1.46E-02 | 3 | 3.30E-03 | 6 | 3.98E-03 | 7 | 9.26E-02 |
| | | 8 | 8.47E-01 | 9 | 2.54E+00 | 10 | 8.05E-01 | 11 | 4.56E-02 | -1 | |
| 103 | 511261 | 1 | 1.15E-02 | 2 | 1.11E-02 | 3 | 2.49E-03 | 8 | 8.60E-01 | 9 | 1.70E+00 |
| | | 10 | 1.29E-02 | 11 | 2.67E-02 | -1 | | | | | |
| 103 | 471270 | 1 | 4.03E-04 | 2 | 2.02E-04 | 3 | 3.03E-04 | 4 | 5.04E-04 | 5 | 6.05E-04 |
| | | 6 | 2.09E-03 | 7 | 8.62E-03 | 8 | 1.49E-02 | 9 | 3.78E-02 | 10 | 6.70E-02 |
| | | 11 | 1.25E-01 | 12 | 1.19E-01 | 13 | 1.15E-01 | 14 | 1.03E-01 | 15 | 1.47E-01 |
| | | 16 | 1.17E-01 | 17 | 1.86E-02 | 18 | 4.16E-04 | -1 | | | |
| 103 | 481270 | 1 | 4.80E-04 | 2 | 2.40E-04 | 3 | 3.60E-04 | 4 | 6.00E-04 | 5 | 7.20E-04 |
| | | 6 | 2.49E-03 | 7 | 1.03E-02 | 8 | 1.77E-02 | 9 | 4.49E-02 | 10 | 7.97E-02 |
| | | 11 | 1.48E-01 | 12 | 1.40E-01 | 13 | 1.33E-01 | 14 | 1.10E-01 | 15 | 1.35E-01 |
| | | 16 | 8.22E-02 | 17 | 2.87E-03 | -1 | | | | | |
| 103 | 491270 | 1 | 1.12E-04 | 2 | 1.80E-04 | 3 | 7.61E-05 | 4 | 1.27E-04 | 5 | 1.52E-04 |
| | | 6 | 2.12E-03 | 7 | 7.35E-03 | 8 | 1.37E-02 | 9 | 9.55E-02 | 10 | 1.95E-01 |
| | | 11 | 1.38E-01 | 12 | 4.58E-01 | 13 | 3.35E-02 | 14 | 2.67E-02 | 15 | 2.73E-02 |
| | | 16 | 1.51E-02 | 17 | 2.65E-04 | -1 | | | | | |
| 103 | 491271 | 1 | 1.53E-03 | 2 | 1.31E-02 | 3 | 3.08E-04 | 4 | 5.13E-04 | 5 | 6.16E-04 |
| | | 6 | 2.13E-03 | 7 | 9.89E-02 | 8 | 1.52E-02 | 9 | 3.93E-02 | 10 | 7.92E-02 |
| | | 11 | 1.30E-01 | 12 | 1.18E-01 | 13 | 1.11E-01 | 14 | 9.33E-02 | 15 | 1.21E-01 |
| | | 16 | 6.55E-02 | 17 | 1.76E-03 | -1 | | | | | |
| 103 | 501270 | 1 | 5.70E-03 | 2 | 4.86E-02 | 3 | 7.99E-04 | 4 | 3.06E-03 | 5 | 1.10E-02 |
| | | 6 | 3.82E-02 | 7 | 1.91E-01 | 8 | 1.35E-01 | 9 | 2.61E-01 | 10 | 4.85E-01 |
| | | 11 | 7.66E-01 | 12 | 4.91E-02 | 13 | 8.23E-02 | 14 | 5.03E-02 | -1 | |
| 103 | 501271 | 1 | 3.71E-04 | 2 | 1.85E-04 | 3 | 2.78E-04 | 4 | 4.63E-04 | 5 | 5.56E-04 |
| | | 6 | 1.92E-03 | 7 | 7.92E-03 | 8 | 1.37E-02 | 9 | 5.83E-01 | 10 | 6.15E-02 |
| | | 11 | 1.12E-01 | 12 | 1.08E-01 | 13 | 5.16E-02 | 14 | 2.11E-02 | 15 | 9.94E-04 |
| | | -1 | | | | | | | | | |
| 103 | 511270 | 1 | 4.40E-03 | 2 | 3.07E-02 | 3 | 7.00E-03 | 4 | 1.44E-02 | 7 | 1.16E-01 |
| | | 8 | 1.01E-01 | 9 | 7.72E-01 | 10 | 1.84E-01 | 11 | 8.50E-03 | -1 | |
| 103 | 521270 | 1 | 1.22E-04 | 2 | 8.80E-04 | 3 | 1.99E-04 | 4 | 2.97E-04 | 6 | 3.27E-05 |
| | | 7 | 9.67E-04 | 8 | 9.90E-03 | 9 | 1.29E-06 | -1 | | | |
| 103 | 521271 | 1 | 3.46E-02 | 2 | 3.00E-01 | 3 | 6.76E-02 | 4 | 5.02E-03 | 5 | 8.39E-03 |
| | | -1 | | | | | | | | | |
| 103 | 471280 | 1 | 4.81E-04 | 2 | 2.41E-04 | 3 | 3.61E-04 | 4 | 6.01E-04 | 5 | 7.22E-04 |
| | | 6 | 2.50E-03 | 7 | 1.03E-02 | 8 | 1.78E-02 | 9 | 4.50E-02 | 10 | 7.99E-02 |
| | | 11 | 1.49E-01 | 12 | 1.44E-01 | 13 | 1.42E-01 | 14 | 1.34E-01 | 15 | 2.23E-01 |
| | | 16 | 2.43E-01 | 17 | 6.35E-02 | 18 | 1.12E-02 | -1 | | | |
| 103 | 481280 | 1 | 3.46E-04 | 2 | 1.73E-04 | 3 | 2.60E-04 | 4 | 4.33E-04 | 5 | 5.19E-04 |
| | | 6 | 1.80E-03 | 7 | 7.40E-03 | 8 | 1.28E-02 | 9 | 3.24E-02 | 10 | 5.75E-02 |
| | | 11 | 1.05E-01 | 12 | 8.88E-02 | 13 | 7.20E-02 | 14 | 5.56E-02 | 15 | 6.69E-02 |
| | | 16 | 2.23E-02 | -1 | | | | | | | |
| 103 | 491280 | 8 | 8.80E-03 | 9 | 1.81E-02 | 10 | 9.09E-02 | 11 | 6.75E-01 | 12 | 1.40E-01 |
| | | 13 | 1.14E-01 | 14 | 2.42E-02 | 15 | 2.85E-01 | 16 | 1.40E-01 | -1 | |

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| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| 103 | 501280 | 1 1.44E-01 | 2 1.41E+00 | 3 1.05E-01 | 4 6.49E-02 | 5 2.79E-01 |
| | | 6 1.77E-03 | 7 6.49E-02 | 8 1.00E-01 | 9 9.14E-01 | -1 |
| 103 | 511280 | 1 2.54E-03 | 2 1.91E-02 | 3 4.32E-03 | 6 1.00E-02 | 7 5.50E-02 |
| | | 8 7.25E-01 | 9 1.43E+00 | 10 2.29E+00 | 11 1.91E-01 | 12 1.70E-02 |
| | | -1 | | | | |
| 103 | 511281 | 1 3.30E-03 | 7 9.60E-03 | 8 8.83E-01 | 9 3.26E-02 | 10 2.04E+00 |
| | | 11 4.70E-02 | 12 7.68E-03 | -1 | | |
| 103 | 531280 | 1 5.59E-03 | 2 4.43E-02 | 3 1.00E-02 | 8 1.69E-01 | 9 1.59E-02 |
| | | 10 5.69E-03 | 11 1.03E-04 | -1 | | |
| 103 | 481290 | 1 4.24E-04 | 2 2.12E-04 | 3 3.18E-04 | 4 5.30E-04 | 5 6.36E-04 |
| | | 6 2.20E-03 | 7 9.06E-03 | 8 1.57E-02 | 9 3.97E-02 | 10 7.04E-02 |
| | | 11 1.30E-01 | 12 1.20E-01 | 13 1.18E-01 | 14 1.06E-01 | 15 1.49E-01 |
| | | 16 1.25E-01 | 17 1.46E-02 | -1 | | |
| 103 | 491290 | 1 3.40E-05 | 2 3.42E-04 | 7 1.82E-02 | 8 1.34E-02 | 9 2.94E-02 |
| | | 10 1.44E-01 | 11 2.52E-01 | 12 3.52E-01 | 13 4.93E-01 | 14 1.56E-02 |
| | | -1 | | | | |
| 103 | 501290 | 7 1.66E-02 | 8 3.85E-02 | 9 9.01E-01 | 10 1.25E-01 | 11 1.44E-01 |
| | | 12 4.90E-02 | 13 1.92E-02 | -1 | | |
| 103 | 501291 | 1 6.87E-04 | 2 3.43E-04 | 3 5.15E-04 | 4 8.59E-04 | 5 1.03E-03 |
| | | 6 3.56E-03 | 7 1.47E-02 | 8 2.54E-02 | 9 6.43E-02 | 10 1.14E-01 |
| | | 11 2.17E-01 | 12 2.69E-01 | 13 2.52E-01 | 14 1.34E-01 | 15 8.05E-02 |
| | | 16 7.20E-07 | -1 | | | |
| 103 | 511290 | 1 4.80E-04 | 2 3.65E-03 | 3 8.20E-04 | 5 1.72E-03 | 6 3.87E-03 |
| | | 7 4.78E-02 | 8 5.57E-02 | 9 3.29E-01 | 10 8.31E-01 | 11 1.98E-01 |
| | | 12 1.61E-01 | 13 1.48E-02 | -1 | | |
| 103 | 521290 | 1 6.20E-02 | 2 1.64E-01 | 3 2.71E-04 | 7 1.30E-02 | 8 5.77E-04 |
| | | 9 9.31E-02 | 10 3.27E-03 | 11 5.23E-03 | -1 | |
| 103 | 521291 | 1 4.91E-02 | 2 2.33E-01 | 3 5.30E-02 | 6 1.47E-03 | 9 3.14E-02 |
| | | 10 7.60E-03 | 11 5.09E-05 | -1 | | |
| 103 | 531290 | 3 7.50E-02 | -1 | | | |
| 103 | 541291 | 1 1.60E-01 | 2 1.03E+00 | 3 3.13E-01 | 7 4.59E-02 | -1 |
| 103 | 481300 | 1 3.04E-04 | 2 1.52E-04 | 3 2.28E-04 | 4 3.80E-04 | 5 4.56E-04 |
| | | 6 1.58E-03 | 7 6.50E-03 | 8 1.12E-02 | 9 2.85E-02 | 10 5.05E-02 |
| | | 11 9.27E-02 | 12 7.94E-02 | 13 6.81E-02 | 14 5.76E-02 | 15 8.38E-02 |
| | | 16 6.36E-02 | 17 8.20E-04 | -1 | | |
| 103 | 491300 | 1 2.64E-02 | 2 2.59E-01 | 3 2.06E-04 | 4 3.44E-04 | 5 2.04E-01 |
| | | 6 4.32E-01 | 7 1.75E-02 | 8 1.02E-02 | 9 2.57E-02 | 10 4.12E-01 |
| | | 11 4.07E-01 | 12 5.04E-01 | 13 1.06E-01 | 14 6.32E-02 | 15 7.28E-02 |
| | | 16 3.20E-02 | 17 1.39E-06 | 18 2.05E-07 | -1 | |
| 103 | 501300 | 1 5.40E-02 | 2 5.29E-01 | 4 3.55E-01 | 6 6.04E-02 | 7 9.37E-01 |
| | | 8 1.92E-01 | 9 3.91E-02 | 10 7.99E-01 | -1 | |
| 103 | 511300 | 1 1.22E-02 | 2 8.75E-02 | 3 1.98E-02 | 7 7.24E-01 | 8 8.38E-01 |
| | | 9 4.77E-01 | 10 2.50E+00 | 11 2.49E-01 | 12 1.33E-01 | 13 4.00E-03 |
| | | -1 | | | | |
| 103 | 511301 | 1 7.20E-03 | 2 5.10E-02 | 3 1.15E-02 | 7 4.10E-01 | 8 7.60E-02 |
| | | 9 2.19E-01 | 10 2.12E+00 | 11 5.62E-01 | 12 4.70E-02 | 13 1.50E-02 |
| | | 14 3.00E-03 | -1 | | | |
| 103 | 531300 | 1 1.80E-03 | 2 1.23E-02 | 3 2.83E-03 | 7 1.05E-03 | 8 3.44E-01 |
| | | 9 2.02E+00 | 10 8.39E-01 | 11 1.35E-01 | 12 1.30E-03 | -1 |
| 103 | 531301 | 1 6.38E-02 | 2 1.46E-01 | 3 3.34E-02 | 9 1.68E-01 | 10 8.01E-06 |
| | | 11 2.18E-03 | 12 4.47E-03 | 13 2.97E-04 | 14 1.46E-04 | -1 |
| 103 | 481310 | 1 3.69E-04 | 2 1.85E-04 | 3 2.77E-04 | 4 4.61E-04 | 5 5.54E-04 |
| | | 6 1.91E-03 | 7 7.89E-03 | 8 1.36E-02 | 9 3.45E-02 | 10 6.13E-02 |
| | | 11 1.13E-01 | 12 1.01E-01 | 13 9.66E-02 | 14 9.09E-02 | 15 1.57E-01 |
| | | 16 2.07E-01 | 17 8.75E-02 | 18 2.80E-02 | -1 | |
| 103 | 491310 | 1 4.30E-04 | 2 2.15E-04 | 3 3.23E-04 | 4 5.38E-04 | 5 6.45E-04 |
| | | 6 2.23E-03 | 7 9.20E-03 | 8 1.59E-02 | 9 4.03E-02 | 10 7.84E-02 |
| | | 11 1.18E-01 | 12 1.72E-02 | 13 6.39E-01 | 14 1.04E-05 | 15 1.88E-02 |
| | | 16 2.64E-02 | 17 7.58E-06 | 18 2.66E-07 | -1 | |

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| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| 103 | 501310 | 1 3.49E-04 | 2 1.75E-04 | 3 2.62E-04 | 4 4.37E-04 | 5 5.24E-04 |
| | | 6 1.81E-03 | 7 7.47E-03 | 8 1.29E-02 | 9 3.27E-02 | 10 5.80E-02 |
| | | 11 1.09E-01 | 12 1.09E-01 | 13 1.03E-01 | 14 7.63E-02 | 15 8.50E-02 |
| | | 16 1.41E-02 | -1 | | | |
| 103 | 511310 | 1 1.40E-04 | 2 1.08E-03 | 3 2.50E-04 | 6 2.50E-02 | 7 3.26E-02 |
| | | 8 6.70E-02 | 9 3.40E-01 | 10 8.55E-01 | 11 2.64E-01 | 12 1.84E-01 |
| | | 13 8.41E-02 | 14 1.34E-02 | -1 | | |
| 103 | 521310 | 1 1.46E-02 | 2 1.06E-01 | 3 2.41E-02 | 6 6.89E-01 | 7 4.20E-03 |
| | | 8 1.72E-02 | 9 2.98E-01 | 10 7.98E-02 | 11 6.92E-02 | 12 2.07E-03 |
| | | 13 1.31E-04 | -1 | | | |
| 103 | 521311 | 1 2.85E-02 | 2 1.88E-01 | 3 4.26E-02 | 4 9.39E-04 | 5 4.49E-02 |
| | | 6 1.47E-01 | 7 2.27E-01 | 8 1.41E-01 | 9 1.21E-01 | 10 9.99E-01 |
| | | 11 2.92E-01 | 12 2.91E-02 | 13 2.80E-02 | -1 | |
| 103 | 531310 | 1 5.70E-03 | 2 3.94E-02 | 3 9.10E-03 | 5 2.62E-02 | 7 6.47E-02 |
| | | 8 8.22E-01 | 9 7.75E-02 | 10 1.77E-02 | -1 | |
| 103 | 541311 | 1 8.00E-02 | 2 4.40E-01 | 3 1.02E-01 | 7 1.95E-02 | -1 |
| 103 | 481320 | 1 2.95E-04 | 2 1.47E-04 | 3 2.21E-04 | 4 3.69E-04 | 5 4.42E-04 |
| | | 6 1.53E-03 | 7 6.31E-03 | 8 1.09E-02 | 9 2.76E-02 | 10 4.90E-02 |
| | | 11 9.02E-02 | 12 8.01E-02 | 13 7.30E-02 | 14 6.64E-02 | 15 1.09E-01 |
| | | 16 1.20E-01 | 17 3.56E-02 | 18 4.09E-03 | -1 | |
| 103 | 491320 | 1 1.03E-02 | 2 9.53E-02 | 3 9.90E-05 | 4 1.11E-02 | 5 1.11E-02 |
| | | 6 1.71E-01 | 7 4.02E-01 | 8 5.09E-01 | 9 3.83E-01 | 10 2.19E-02 |
| | | 11 3.99E-02 | 12 3.07E-02 | 13 3.82E-01 | 14 2.66E-02 | 15 5.87E-02 |
| | | 16 7.27E-01 | 17 3.66E-05 | 18 2.51E-05 | -1 | |
| 103 | 501320 | 1 3.63E-02 | 2 3.52E-01 | 5 4.84E-01 | 6 1.18E-03 | 7 4.24E-01 |
| | | 8 4.94E-01 | 9 7.13E-02 | 10 8.21E-01 | 11 1.23E-01 | 12 8.66E-03 |
| | | -1 | | | | |
| 103 | 511320 | 1 1.70E-02 | 2 1.09E-01 | 3 2.50E-02 | 6 1.46E-01 | 8 1.65E-01 |
| | | 9 9.80E-01 | 10 1.31E+00 | 11 2.48E-01 | 12 1.26E-01 | 13 9.90E-03 |
| | | 14 2.48E-02 | -1 | | | |
| 103 | 511321 | 1 4.60E-02 | 2 2.95E-01 | 3 6.70E-02 | 6 3.50E-01 | 7 7.40E-01 |
| | | 8 1.40E-01 | 9 1.13E+00 | 10 1.12E+00 | 11 3.20E-01 | 12 6.00E-02 |
| | | 14 4.00E-02 | -1 | | | |
| 103 | 521320 | 1 8.20E-02 | 2 5.92E-01 | 3 2.10E-01 | 4 7.48E-02 | 6 3.70E-02 |
| | | 7 8.80E-01 | -1 | | | |
| 103 | 531320 | 1 1.20E-03 | 2 8.51E-03 | 3 1.97E-03 | 6 3.16E-03 | 7 2.48E-02 |
| | | 8 3.12E-02 | 9 1.49E+00 | 10 1.14E+00 | 11 2.21E-01 | 12 2.27E-02 |
| | | 13 1.97E-02 | 14 5.69E-04 | -1 | | |
| 103 | 551320 | 1 9.00E-02 | 2 6.03E-01 | 3 1.40E-01 | 8 6.83E-04 | 9 1.02E+00 |
| | | 10 7.22E-04 | 11 1.24E-02 | 12 7.02E-04 | -1 | |
| 103 | 491330 | 1 3.69E-04 | 2 1.85E-04 | 3 2.77E-04 | 4 4.61E-04 | 5 5.54E-04 |
| | | 6 1.91E-03 | 7 7.89E-03 | 8 1.36E-02 | 9 3.45E-02 | 10 6.13E-02 |
| | | 11 1.13E-01 | 12 1.01E-01 | 13 9.73E-02 | 14 9.33E-02 | 15 1.63E-01 |
| | | 16 2.17E-01 | 17 9.09E-02 | 18 3.20E-02 | -1 | |
| 103 | 501330 | 1 2.70E-03 | 2 1.35E-03 | 3 2.03E-03 | 4 3.38E-03 | 5 4.05E-03 |
| | | 6 1.40E-02 | 7 5.78E-02 | 8 9.99E-02 | 9 2.53E-01 | 10 5.69E-01 |
| | | 11 7.38E-01 | 12 5.14E-02 | 13 7.20E-04 | 14 3.67E-03 | 15 5.45E-03 |
| | | 16 2.31E-02 | 17 3.97E-03 | -1 | | |
| 103 | 511330 | 7 2.54E-02 | 8 1.28E-01 | 9 1.26E-01 | 10 3.56E-01 | 11 9.65E-01 |
| | | 12 3.50E-01 | 13 1.02E-01 | 14 1.25E-01 | -1 | |
| 103 | 521330 | 1 2.27E-03 | 2 1.55E-02 | 3 3.50E-03 | 4 1.06E-03 | 7 3.12E-03 |
| | | 8 9.21E-01 | 9 6.41E-02 | 10 2.94E-01 | 11 2.50E-01 | 12 7.51E-02 |
| | | 13 6.04E-02 | 14 1.25E-02 | -1 | | |
| 103 | 521331 | 1 2.56E-02 | 2 1.56E-01 | 3 3.84E-02 | 4 2.10E-03 | 5 5.27E-02 |
| | | 6 7.30E-03 | 7 2.32E-01 | 8 2.57E-01 | 9 3.67E-01 | 10 1.13E+00 |
| | | 11 1.31E-01 | 12 1.23E-01 | 13 4.86E-02 | 14 2.49E-03 | 15 3.21E-03 |
| | | -1 | | | | |
| 103 | 531330 | 1 6.90E-04 | 2 5.41E-03 | 3 1.26E-03 | 7 6.24E-03 | 8 8.37E-03 |
| | | 9 9.02E-01 | 10 8.18E-02 | 11 4.60E-02 | 12 2.96E-05 | -1 |

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|-----|--------|-------------|-------------|-------------|-------------|-------------|
| 103 | 531331 | 1 8.10E-02 | 2 5.38E-01 | 3 1.23E-01 | 5 3.80E-02 | 9 1.00E+00 |
| | | 10 1.00E+00 | -1 | | | |
| 103 | 541330 | 1 6.30E-02 | 3 4.97E-01 | 5 3.83E-01 | 7 6.60E-04 | 8 7.20E-05 |
| | | -1 | | | | |
| 103 | 541331 | 1 7.80E-02 | 2 4.59E-01 | 3 1.06E-01 | 7 1.00E-01 | -1 |
| 103 | 491340 | 1 4.42E-04 | 2 2.21E-04 | 3 3.32E-04 | 4 5.53E-04 | 5 6.63E-04 |
| | | 6 2.29E-03 | 7 9.45E-03 | 8 1.64E-02 | 9 4.14E-02 | 10 7.34E-02 |
| | | 11 1.36E-01 | 12 1.27E-01 | 13 1.24E-01 | 14 1.20E-01 | 15 2.20E-01 |
| | | 16 3.06E-01 | 17 1.27E-01 | 18 4.67E-02 | -1 | |
| 103 | 501340 | 1 1.03E-03 | 2 5.15E-04 | 3 7.73E-04 | 4 2.55E-03 | 5 1.55E-03 |
| | | 6 5.34E-03 | 7 2.20E-02 | 8 6.93E-02 | 9 1.14E-01 | 10 2.36E-01 |
| | | 11 3.19E-01 | 12 2.25E-01 | 13 7.23E-02 | 14 1.10E-04 | 15 1.52E-04 |
| | | 16 1.25E-04 | 17 2.80E-06 | -1 | | |
| 103 | 511340 | 1 5.68E-04 | 2 4.02E-04 | 3 4.42E-04 | 4 9.89E-04 | 5 8.26E-04 |
| | | 6 2.86E-03 | 7 1.30E-02 | 8 2.04E-02 | 9 5.16E-02 | 10 9.23E-02 |
| | | 11 1.89E-01 | 12 1.52E-01 | 13 1.58E-01 | 14 1.52E-01 | 15 1.83E-01 |
| | | 16 4.64E-02 | 17 5.00E-03 | 18 7.69E-08 | -1 | |
| 103 | 511341 | 1 4.40E-02 | 2 2.90E-01 | 3 6.50E-02 | 6 4.90E-01 | 7 9.70E-01 |
| | | 8 1.50E-02 | 10 5.74E-01 | 11 1.02E+00 | -1 | |
| 103 | 521340 | 1 3.32E-02 | 2 2.46E-01 | 3 5.60E-02 | 5 2.12E-01 | 6 6.49E-03 |
| | | 7 7.21E-01 | 8 1.89E-01 | 9 3.68E-01 | 10 5.27E-01 | 11 4.43E-03 |
| | | -1 | | | | |
| 103 | 531340 | 1 2.40E-03 | 2 1.71E-02 | 3 3.94E-03 | 6 5.05E-02 | 7 3.65E-02 |
| | | 8 1.29E-01 | 9 4.60E-01 | 10 1.85E+00 | 11 3.39E-01 | 12 1.42E-01 |
| | | 13 1.06E-02 | 14 2.04E-03 | -1 | | |
| 103 | 531341 | 1 8.56E-02 | 2 6.03E-01 | 3 1.90E-01 | 4 5.20E-02 | 7 8.06E-01 |
| | | 8 2.40E-03 | 10 4.64E-02 | -1 | | |
| 103 | 541341 | 1 2.70E-02 | 2 1.49E-01 | 3 3.40E-02 | 7 6.80E-01 | 10 1.94E+00 |
| | | -1 | | | | |
| 103 | 551340 | 1 1.20E-03 | 3 8.40E-03 | 7 2.70E-04 | 8 1.62E-04 | 9 1.23E+00 |
| | | 10 9.42E-01 | 11 5.79E-02 | -1 | | |
| 103 | 551341 | 1 1.71E-01 | 3 3.16E-01 | 6 1.26E-01 | -1 | |
| 103 | 501350 | 1 4.24E-04 | 2 2.12E-04 | 3 3.18E-04 | 4 5.30E-04 | 5 6.36E-04 |
| | | 6 2.20E-03 | 7 9.06E-03 | 8 1.57E-02 | 9 3.97E-02 | 10 7.04E-02 |
| | | 11 1.30E-01 | 12 1.22E-01 | 13 1.17E-01 | 14 1.06E-01 | 15 1.60E-01 |
| | | 16 1.49E-01 | 17 2.87E-02 | 18 1.14E-04 | -1 | |
| 103 | 511350 | 1 3.41E-04 | 2 1.70E-04 | 3 2.56E-04 | 4 4.26E-04 | 5 5.11E-04 |
| | | 6 1.77E-03 | 7 7.29E-03 | 8 1.26E-02 | 9 3.19E-02 | 10 5.66E-02 |
| | | 11 1.04E-01 | 12 9.62E-02 | 13 9.30E-02 | 14 8.44E-02 | 15 1.22E-01 |
| | | 16 1.02E-01 | 17 1.12E-02 | -1 | | |
| 103 | 521350 | 1 2.01E-03 | 2 1.01E-03 | 3 1.51E-03 | 4 2.52E-03 | 5 3.02E-03 |
| | | 6 1.19E-02 | 7 1.47E-01 | 8 7.64E-02 | 9 5.61E-01 | 10 4.12E-01 |
| | | 11 4.86E-01 | 12 8.11E-03 | 13 1.76E-02 | 14 1.80E-03 | 15 1.24E-02 |
| | | 16 1.03E-02 | 17 3.10E-06 | -1 | | |
| 103 | 531350 | 1 2.20E-04 | 2 1.71E-03 | 3 4.00E-04 | 6 1.97E-04 | 7 5.77E-02 |
| | | 8 5.31E-02 | 9 8.51E-02 | 10 1.02E-01 | 11 7.70E-01 | 12 2.50E-01 |
| | | 13 2.65E-02 | -1 | | | |
| 103 | 541350 | 1 6.30E-03 | 3 5.10E-02 | 7 9.03E-01 | 8 5.93E-03 | 9 2.95E-02 |
| | | 10 1.25E-03 | 11 4.00E-05 | -1 | | |
| 103 | 541351 | 1 1.40E-02 | 2 1.15E-01 | 3 2.66E-02 | 9 8.05E-01 | -1 |
| 103 | 551351 | 1 2.60E-04 | 3 2.42E-03 | 10 1.96E+00 | -1 | |
| 103 | 561351 | 7 1.56E-01 | -1 | | | |
| 103 | 501360 | 1 3.24E-04 | 2 1.62E-04 | 3 2.43E-04 | 4 4.05E-04 | 5 4.86E-04 |
| | | 6 1.68E-03 | 7 6.92E-03 | 8 1.20E-02 | 9 3.03E-02 | 10 5.38E-02 |
| | | 11 9.92E-02 | 12 8.81E-02 | 13 7.77E-02 | 14 6.61E-02 | 15 9.47E-02 |
| | | 16 7.40E-02 | 17 7.09E-03 | -1 | | |
| 103 | 511360 | 1 3.97E-04 | 2 1.98E-04 | 3 2.98E-04 | 4 4.96E-04 | 5 5.95E-04 |
| | | 6 2.06E-03 | 7 8.48E-03 | 8 1.47E-02 | 9 3.71E-02 | 10 6.59E-02 |
| | | 11 1.23E-01 | 12 1.18E-01 | 13 1.14E-01 | 14 1.04E-01 | 15 1.65E-01 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 16 | 1.66E-01 | 17 | 3.44E-02 | 18 | 2.32E-03 | -1 | | | |
| 103 | 521360 | 1 | 1.30E-02 | 2 | 9.40E-02 | 3 | 2.13E-02 | 5 | 1.20E-01 | 6 | 2.82E-02 |
| | | 7 | 5.64E-03 | 8 | 2.09E-01 | 9 | 3.50E-01 | 10 | 5.45E-02 | 11 | 1.88E-02 |
| | | 12 | 1.32E-02 | 13 | 2.73E-01 | 14 | 2.01E-01 | 15 | 1.71E-01 | -1 | |
| 103 | 531360 | 1 | 2.30E-04 | 2 | 1.72E-03 | 3 | 4.00E-04 | 7 | 1.03E-02 | 8 | 5.22E-02 |
| | | 9 | 3.60E-03 | 10 | 5.79E-02 | 11 | 9.47E-01 | 12 | 6.38E-02 | 13 | 1.77E-01 |
| | | 14 | 1.22E-01 | 15 | 1.99E-02 | 16 | 1.59E-02 | 17 | 4.39E-03 | -1 | |
| 103 | 531361 | 1 | 1.40E-02 | 2 | 9.08E-02 | 3 | 2.10E-02 | 7 | 7.92E-01 | 8 | 1.22E+00 |
| | | 9 | 2.59E-02 | 10 | 1.42E-01 | 11 | 1.00E+00 | 12 | 1.15E-02 | 13 | 2.05E-02 |
| | | 15 | 1.51E-03 | 16 | 3.00E-04 | -1 | | | | | |
| 103 | 551360 | 1 | 1.90E-02 | 3 | 1.11E-01 | 4 | 4.79E-02 | 5 | 5.18E-02 | 6 | 2.09E-03 |
| | | 7 | 3.10E-01 | 8 | 4.27E-01 | 9 | 1.05E-02 | 10 | 9.97E-01 | 11 | 9.98E-01 |
| | | 12 | 1.15E-03 | -1 | | | | | | | |
| 103 | 561361 | 1 | 7.00E-02 | 3 | 3.10E-01 | 7 | 3.07E-01 | 8 | 2.15E-04 | 10 | 9.98E-01 |
| | | 11 | 1.00E+00 | 12 | 9.21E-05 | -1 | | | | | |
| 103 | 511370 | 1 | 4.54E-04 | 2 | 2.27E-04 | 3 | 3.41E-04 | 4 | 5.68E-04 | 5 | 6.81E-04 |
| | | 6 | 2.36E-03 | 7 | 9.71E-03 | 8 | 1.68E-02 | 9 | 4.25E-02 | 10 | 7.54E-02 |
| | | 11 | 1.40E-01 | 12 | 1.33E-01 | 13 | 1.28E-01 | 14 | 1.14E-01 | 15 | 1.62E-01 |
| | | 16 | 1.27E-01 | 17 | 1.83E-02 | 18 | 4.26E-05 | -1 | | | |
| 103 | 521370 | 1 | 3.83E-04 | 2 | 1.92E-04 | 3 | 2.88E-04 | 4 | 4.79E-04 | 5 | 5.75E-04 |
| | | 6 | 1.99E-03 | 7 | 8.20E-03 | 8 | 1.42E-02 | 9 | 3.59E-02 | 10 | 6.37E-02 |
| | | 11 | 1.18E-01 | 12 | 1.12E-01 | 13 | 1.05E-01 | 14 | 8.75E-02 | 15 | 1.11E-01 |
| | | 16 | 6.77E-02 | 17 | 1.68E-03 | -1 | | | | | |
| 103 | 531370 | 7 | 2.13E-03 | 8 | 1.61E-02 | 9 | 8.68E-02 | 10 | 5.07E-02 | 11 | 2.49E-01 |
| | | 12 | 1.33E-01 | 13 | 6.53E-02 | 14 | 3.10E-02 | 15 | 5.40E-02 | 16 | 1.57E-02 |
| | | -1 | | | | | | | | | |
| 103 | 541370 | 1 | 4.20E-04 | 3 | 3.30E-03 | 7 | 1.19E-03 | 8 | 1.40E-03 | 9 | 3.13E-01 |
| | | 10 | 9.49E-03 | 11 | 8.04E-03 | 12 | 1.00E-02 | 13 | 1.71E-03 | 14 | 2.28E-03 |
| | | 15 | 2.97E-04 | -1 | | | | | | | |
| 103 | 561371 | 1 | 1.00E-02 | 3 | 7.32E-02 | 9 | 9.01E-01 | -1 | | | |
| 103 | 511380 | 1 | 5.41E-04 | 2 | 2.71E-04 | 3 | 4.06E-04 | 4 | 6.77E-04 | 5 | 8.12E-04 |
| | | 6 | 2.81E-03 | 7 | 1.16E-02 | 8 | 2.00E-02 | 9 | 5.07E-02 | 10 | 8.99E-02 |
| | | 11 | 1.69E-01 | 12 | 1.69E-01 | 13 | 1.66E-01 | 14 | 1.52E-01 | 15 | 2.36E-01 |
| | | 16 | 2.15E-01 | 17 | 4.15E-02 | 18 | 4.78E-03 | -1 | | | |
| 103 | 521380 | 1 | 3.63E-04 | 2 | 1.82E-04 | 3 | 2.72E-04 | 4 | 4.54E-04 | 5 | 5.45E-04 |
| | | 6 | 1.88E-03 | 7 | 7.76E-03 | 8 | 1.34E-02 | 9 | 3.40E-02 | 10 | 6.03E-02 |
| | | 11 | 1.11E-01 | 12 | 9.53E-02 | 13 | 7.73E-02 | 14 | 5.87E-02 | 15 | 6.84E-02 |
| | | 16 | 2.60E-02 | -1 | | | | | | | |
| 103 | 531380 | 8 | 2.80E-03 | 9 | 5.98E-01 | 10 | 1.55E-01 | 11 | 7.39E-02 | 12 | 1.06E-01 |
| | | 13 | 9.02E-02 | 14 | 4.60E-02 | 15 | 3.92E-02 | 16 | 2.86E-02 | -1 | |
| 103 | 541380 | 1 | 6.99E-02 | 3 | 3.65E-02 | 4 | 4.72E-04 | 6 | 6.93E-04 | 7 | 4.14E-01 |
| | | 8 | 2.94E-01 | 9 | 1.86E-02 | 10 | 3.31E-02 | 11 | 3.76E-02 | 12 | 1.97E-01 |
| | | 13 | 2.26E-01 | -1 | | | | | | | |
| 103 | 551380 | 1 | 1.90E-03 | 3 | 1.37E-02 | 6 | 1.62E-02 | 7 | 2.52E-02 | 8 | 5.93E-02 |
| | | 9 | 4.21E-01 | 10 | 6.61E-02 | 11 | 1.11E+00 | 12 | 1.19E-02 | 13 | 1.59E-01 |
| | | 14 | 8.16E-02 | 15 | 5.41E-03 | 16 | 1.75E-04 | -1 | | | |
| 103 | 551381 | 1 | 7.90E-02 | 2 | 7.08E-05 | 3 | 4.38E-01 | 4 | 1.77E-04 | 5 | 3.08E-03 |
| | | 6 | 1.40E-02 | 7 | 1.26E-01 | 8 | 1.51E-02 | 9 | 1.62E-01 | 10 | 2.47E-02 |
| | | 11 | 1.91E-01 | 12 | 4.79E-02 | 13 | 5.54E-02 | 14 | 2.74E-02 | 15 | 2.34E-03 |
| | | 16 | 1.56E-03 | -1 | | | | | | | |
| 103 | 571380 | 1 | 6.70E-02 | 3 | 3.87E-01 | 10 | 3.36E-01 | 11 | 6.65E-01 | -1 | |
| 103 | 511390 | 1 | 5.01E-04 | 2 | 2.51E-04 | 3 | 3.76E-04 | 4 | 6.27E-04 | 5 | 7.52E-04 |
| | | 6 | 2.60E-03 | 7 | 1.07E-02 | 8 | 1.85E-02 | 9 | 4.69E-02 | 10 | 8.33E-02 |
| | | 11 | 1.56E-01 | 12 | 1.53E-01 | 13 | 1.47E-01 | 14 | 1.29E-01 | 15 | 1.83E-01 |
| | | 16 | 1.38E-01 | 17 | 2.06E-02 | 18 | 1.06E-03 | -1 | | | |
| 103 | 521390 | 1 | 5.30E-04 | 2 | 2.65E-04 | 3 | 3.97E-04 | 4 | 6.62E-04 | 5 | 7.94E-04 |
| | | 6 | 2.75E-03 | 7 | 1.13E-02 | 8 | 1.96E-02 | 9 | 4.96E-02 | 10 | 8.79E-02 |
| | | 11 | 1.64E-01 | 12 | 1.60E-01 | 13 | 1.48E-01 | 14 | 1.23E-01 | 15 | 1.59E-01 |
| | | 16 | 1.01E-01 | 17 | 8.98E-03 | -1 | | | | | |

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| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| 103 | 531390 | 1 3.55E-04 | 2 1.78E-04 | 3 2.67E-04 | 4 4.44E-04 | 5 5.33E-04 |
| | | 6 1.84E-03 | 7 7.60E-03 | 8 1.31E-02 | 9 3.33E-02 | 10 5.90E-02 |
| | | 11 1.10E-01 | 12 1.03E-01 | 13 9.39E-02 | 14 7.65E-02 | 15 8.90E-02 |
| | | 16 4.39E-02 | 17 4.21E-04 | -1 | | |
| 103 | 541390 | 1 1.10E-02 | 3 7.81E-02 | 4 1.06E-03 | 5 2.02E-03 | 6 9.13E-03 |
| | | 7 1.10E+00 | 8 8.51E-02 | 9 1.46E-01 | 10 1.25E-01 | 11 1.15E-01 |
| | | 12 9.40E-02 | 13 5.64E-02 | 14 3.00E-02 | 15 6.83E-03 | -1 |
| 103 | 551390 | 7 9.63E-04 | 8 2.32E-03 | 9 3.01E-02 | 10 1.23E-02 | 11 1.11E-01 |
| | | 12 3.28E-02 | 13 2.75E-02 | 14 1.41E-02 | 15 7.45E-03 | -1 |
| 103 | 561390 | 1 6.70E-03 | 3 4.60E-02 | 7 2.38E-01 | 11 3.25E-03 | 12 7.31E-07 |
| | | 13 4.96E-07 | -1 | | | |
| 103 | 521400 | 1 3.84E-04 | 2 1.92E-04 | 3 2.88E-04 | 4 4.80E-04 | 5 5.76E-04 |
| | | 6 1.99E-03 | 7 8.21E-03 | 8 1.42E-02 | 9 3.59E-02 | 10 6.38E-02 |
| | | 11 1.18E-01 | 12 1.06E-01 | 13 8.86E-02 | 14 6.85E-02 | 15 8.15E-02 |
| | | 16 4.09E-02 | 17 8.16E-04 | -1 | | |
| 103 | 531400 | 1 6.54E-04 | 2 3.27E-04 | 3 4.90E-04 | 4 8.17E-04 | 5 9.81E-04 |
| | | 6 3.39E-03 | 7 1.40E-02 | 8 9.30E-01 | 9 9.22E-01 | 10 3.62E-01 |
| | | 11 2.05E-01 | 12 2.28E-01 | 13 1.74E-01 | 14 5.46E-02 | 15 2.54E-03 |
| | | 16 4.70E-05 | 17 6.21E-06 | 18 1.69E-07 | -1 | |
| 103 | 541400 | 1 6.63E-02 | 2 2.14E-04 | 3 2.20E-01 | 4 7.55E-03 | 5 2.11E-02 |
| | | 6 4.70E-02 | 7 4.30E-02 | 8 5.11E-02 | 9 1.69E-01 | 10 2.31E-01 |
| | | 11 2.84E-01 | 12 1.13E-01 | 13 8.42E-02 | 14 6.00E-02 | 15 6.21E-02 |
| | | 16 9.64E-07 | -1 | | | |
| 103 | 551400 | 1 5.29E-04 | 2 6.45E-05 | 3 2.98E-03 | 4 1.61E-04 | 5 1.94E-04 |
| | | 6 6.69E-04 | 7 2.76E-03 | 8 7.76E-03 | 9 5.85E-01 | 10 1.33E-01 |
| | | 11 2.22E-01 | 12 1.87E-01 | 13 2.20E-01 | 14 9.08E-02 | 15 9.55E-02 |
| | | 16 1.79E-02 | 17 4.78E-08 | -1 | | |
| 103 | 561400 | 1 1.62E-01 | 2 1.41E-01 | 3 1.55E-02 | 6 2.80E-03 | 7 6.22E-02 |
| | | 8 6.23E-02 | 9 2.44E-01 | -1 | | |
| 103 | 571400 | 1 3.70E-03 | 2 1.43E-05 | 3 1.82E-02 | 4 8.97E-04 | 6 6.87E-03 |
| | | 7 1.01E-02 | 8 2.34E-01 | 9 4.55E-01 | 10 4.32E-01 | 11 1.49E-03 |
| | | 12 9.55E-01 | 13 8.72E-03 | 14 3.63E-02 | 15 2.86E-04 | -1 |
| 103 | 521410 | 1 5.77E-04 | 2 2.89E-04 | 3 4.33E-04 | 4 7.22E-04 | 5 8.66E-04 |
| | | 6 2.99E-03 | 7 1.23E-02 | 8 2.13E-02 | 9 5.40E-02 | 10 9.59E-02 |
| | | 11 1.80E-01 | 12 1.78E-01 | 13 1.65E-01 | 14 1.38E-01 | 15 1.77E-01 |
| | | 16 1.08E-01 | 17 1.09E-02 | 18 1.62E-04 | -1 | |
| 103 | 531410 | 1 4.69E-04 | 2 2.35E-04 | 3 3.52E-04 | 4 5.86E-04 | 5 7.04E-04 |
| | | 6 2.43E-03 | 7 1.00E-02 | 8 1.73E-02 | 9 4.39E-02 | 10 7.79E-02 |
| | | 11 1.46E-01 | 12 1.40E-01 | 13 1.27E-01 | 14 9.99E-02 | 15 1.16E-01 |
| | | 16 5.95E-02 | 17 2.94E-03 | -1 | | |
| 103 | 541410 | 1 4.80E-02 | 3 2.88E-01 | 4 4.88E-02 | 5 4.03E-02 | 6 2.95E-01 |
| | | 7 4.26E-02 | 8 9.10E-02 | 9 2.92E-01 | 10 3.77E-01 | 11 1.40E-01 |
| | | 12 8.12E-02 | 13 2.65E-02 | 14 2.14E-02 | 15 1.20E-03 | -1 |
| 103 | 551410 | 1 8.84E-02 | 2 1.46E-04 | 3 5.33E-01 | 4 2.82E-02 | 5 4.37E-04 |
| | | 6 1.51E-03 | 7 6.23E-03 | 8 1.18E-02 | 9 1.75E-01 | 10 6.19E-02 |
| | | 11 2.23E-01 | 12 1.17E-01 | 13 6.74E-02 | 14 3.14E-02 | 15 3.29E-02 |
| | | 16 9.41E-07 | -1 | | | |
| 103 | 561410 | 1 1.10E-02 | 3 7.79E-02 | 4 1.15E-05 | 6 1.12E-02 | 7 7.05E-01 |
| | | 8 4.23E-01 | 9 3.04E-01 | 10 1.50E-01 | 11 1.59E-01 | 12 6.57E-02 |
| | | 13 1.31E-02 | 14 4.37E-04 | -1 | | |
| 103 | 571410 | 8 1.31E-05 | 9 2.95E-04 | 10 6.56E-05 | 11 1.66E-02 | 12 1.10E-03 |
| | | 13 9.38E-04 | -1 | | | |
| 103 | 581410 | 1 2.60E-02 | 3 1.54E-01 | 4 1.68E-02 | 6 4.82E-01 | -1 |
| 103 | 521420 | 1 4.07E-04 | 2 2.03E-04 | 3 3.05E-04 | 4 5.08E-04 | 5 6.10E-04 |
| | | 6 2.11E-03 | 7 8.69E-03 | 8 1.50E-02 | 9 3.81E-02 | 10 6.75E-02 |
| | | 11 1.26E-01 | 12 1.14E-01 | 13 9.66E-02 | 14 7.46E-02 | 15 8.73E-02 |
| | | 16 4.31E-02 | 17 1.73E-03 | -1 | | |
| 103 | 531420 | 1 6.76E-04 | 2 3.38E-04 | 3 5.07E-04 | 4 8.45E-04 | 5 1.01E-03 |
| | | 6 3.51E-03 | 7 1.45E-02 | 8 2.50E-02 | 9 6.33E-02 | 10 1.12E-01 |

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|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 11 | 2.12E-01 | 12 | 2.17E-01 | 13 | 2.03E-01 | 14 | 1.70E-01 | 15 | 2.20E-01 |
| | | 16 | 1.37E-01 | 17 | 1.33E-02 | 18 | 4.82E-04 | -1 | | | |
| 103 | 541420 | 1 | 7.15E-04 | 2 | 3.58E-04 | 3 | 5.37E-04 | 4 | 8.94E-04 | 5 | 1.07E-03 |
| | | 6 | 3.71E-03 | 7 | 1.53E-02 | 8 | 2.64E-02 | 9 | 6.70E-02 | 10 | 1.19E-01 |
| | | 11 | 2.16E-01 | 12 | 1.75E-01 | 13 | 1.29E-01 | 14 | 8.56E-02 | 15 | 7.85E-02 |
| | | 16 | 1.40E-02 | -1 | | | | | | | |
| 103 | 551420 | 1 | 2.31E-03 | 2 | 7.90E-04 | 3 | 6.35E-03 | 4 | 1.97E-03 | 5 | 2.37E-03 |
| | | 6 | 8.20E-03 | 7 | 3.51E-02 | 8 | 3.30E-01 | 9 | 1.76E-01 | 10 | 3.64E-01 |
| | | 11 | 6.36E-01 | 12 | 4.58E-02 | 13 | 2.10E-02 | 14 | 3.00E-02 | 15 | 3.31E-02 |
| | | 16 | 2.45E-02 | 17 | 2.93E-05 | -1 | | | | | |
| 103 | 561420 | 1 | 1.12E-02 | 3 | 2.91E-02 | 4 | 5.13E-03 | 5 | 9.54E-02 | 6 | 1.06E-02 |
| | | 7 | 3.89E-01 | 8 | 1.79E-01 | 9 | 4.56E-02 | 10 | 2.99E-01 | 11 | 5.02E-01 |
| | | -1 | | | | | | | | | |
| 103 | 571420 | 1 | 3.60E-04 | 3 | 2.46E-03 | 6 | 1.42E-03 | 7 | 3.32E-03 | 8 | 1.37E-02 |
| | | 9 | 4.97E-01 | 10 | 1.09E-01 | 11 | 1.75E-01 | 12 | 1.81E-01 | 13 | 2.83E-01 |
| | | 14 | 1.97E-01 | 15 | 7.70E-02 | -1 | | | | | |
| 103 | 591420 | 1 | 1.80E-05 | 3 | 1.20E-04 | 9 | 2.28E-04 | 12 | 3.68E-02 | -1 | |
| 103 | 531430 | 1 | 6.06E-04 | 2 | 3.03E-04 | 3 | 4.55E-04 | 4 | 7.58E-04 | 5 | 9.09E-04 |
| | | 6 | 3.14E-03 | 7 | 1.30E-02 | 8 | 2.24E-02 | 9 | 5.67E-02 | 10 | 1.01E-01 |
| | | 11 | 1.89E-01 | 12 | 1.82E-01 | 13 | 1.63E-01 | 14 | 1.28E-01 | 15 | 1.45E-01 |
| | | 16 | 7.06E-02 | 17 | 3.91E-03 | -1 | | | | | |
| 103 | 541430 | 1 | 6.67E-04 | 2 | 3.33E-04 | 3 | 5.00E-04 | 4 | 8.34E-04 | 5 | 1.00E-03 |
| | | 6 | 3.46E-03 | 7 | 1.43E-02 | 8 | 2.47E-02 | 9 | 6.24E-02 | 10 | 1.11E-01 |
| | | 11 | 2.08E-01 | 12 | 1.98E-01 | 13 | 1.59E-01 | 14 | 1.14E-01 | 15 | 1.23E-01 |
| | | 16 | 5.09E-02 | 17 | 1.16E-03 | -1 | | | | | |
| 103 | 551430 | 1 | 3.59E-02 | 2 | 4.70E-04 | 3 | 9.28E-03 | 4 | 1.18E-03 | 5 | 1.59E-03 |
| | | 6 | 6.39E-03 | 7 | 5.12E-02 | 8 | 4.28E-02 | 9 | 1.13E-01 | 10 | 1.65E-01 |
| | | 11 | 2.79E-01 | 12 | 1.94E-01 | 13 | 1.04E-01 | 14 | 2.59E-02 | 15 | 1.04E-05 |
| | | 16 | 4.40E-06 | -1 | | | | | | | |
| 103 | 561430 | 1 | 4.07E-02 | 2 | 9.96E-04 | 3 | 3.27E-02 | 6 | 1.99E-04 | 7 | 4.43E-01 |
| | | 8 | 1.05E-01 | 9 | 1.34E-01 | 10 | 5.13E-01 | 11 | 2.96E-01 | 12 | 2.01E-02 |
| | | 13 | 4.34E-02 | -1 | | | | | | | |
| 103 | 571430 | 8 | 1.51E-03 | 9 | 6.66E-02 | 10 | 2.55E-02 | 11 | 6.03E-02 | 12 | 4.38E-02 |
| | | 13 | 5.58E-03 | 14 | 1.55E-02 | -1 | | | | | |
| 103 | 581430 | 1 | 9.60E-02 | 3 | 5.61E-01 | 4 | 1.78E-01 | 6 | 8.56E-04 | 7 | 4.49E-01 |
| | | 8 | 3.54E-02 | 9 | 8.23E-02 | 10 | 6.55E-02 | 11 | 5.67E-03 | -1 | |
| 103 | 531440 | 1 | 7.08E-04 | 2 | 3.54E-04 | 3 | 5.31E-04 | 4 | 8.85E-04 | 5 | 1.06E-03 |
| | | 6 | 3.67E-03 | 7 | 1.51E-02 | 8 | 2.62E-02 | 9 | 6.63E-02 | 10 | 1.18E-01 |
| | | 11 | 2.22E-01 | 12 | 2.28E-01 | 13 | 2.12E-01 | 14 | 1.75E-01 | 15 | 2.22E-01 |
| | | 16 | 1.32E-01 | 17 | 1.20E-02 | 18 | 4.40E-04 | -1 | | | |
| 103 | 541440 | 1 | 4.02E-04 | 2 | 2.01E-04 | 3 | 3.02E-04 | 4 | 5.03E-04 | 5 | 6.03E-04 |
| | | 6 | 2.09E-03 | 7 | 8.59E-03 | 8 | 1.49E-02 | 9 | 3.76E-02 | 10 | 6.68E-02 |
| | | 11 | 1.23E-01 | 12 | 1.03E-01 | 13 | 7.58E-02 | 14 | 5.00E-02 | 15 | 4.56E-02 |
| | | 16 | 9.89E-03 | -1 | | | | | | | |
| 103 | 551440 | 1 | 5.85E-04 | 2 | 2.92E-04 | 3 | 4.39E-04 | 4 | 7.31E-04 | 5 | 8.77E-04 |
| | | 6 | 3.03E-03 | 7 | 1.25E-02 | 8 | 2.16E-02 | 9 | 5.47E-02 | 10 | 9.71E-02 |
| | | 11 | 1.83E-01 | 12 | 1.83E-01 | 13 | 1.61E-01 | 14 | 1.23E-01 | 15 | 1.41E-01 |
| | | 16 | 6.78E-02 | 17 | 3.67E-03 | 18 | 8.02E-09 | -1 | | | |
| 103 | 561440 | 1 | 5.36E-04 | 2 | 2.68E-04 | 3 | 4.02E-04 | 4 | 6.70E-04 | 5 | 8.04E-04 |
| | | 6 | 2.78E-03 | 7 | 1.15E-02 | 8 | 1.98E-02 | 9 | 5.01E-02 | 10 | 8.90E-02 |
| | | 11 | 1.60E-01 | 12 | 1.12E-01 | 13 | 6.15E-02 | 14 | 2.12E-02 | 15 | 5.41E-07 |
| | | -1 | | | | | | | | | |
| 103 | 571440 | 1 | 2.80E-03 | 3 | 1.84E-02 | 8 | 1.02E+00 | 9 | 5.39E-01 | 10 | 5.30E-01 |
| | | 11 | 3.43E-01 | 12 | 2.25E-01 | 13 | 9.00E-02 | 14 | 4.55E-02 | 15 | 7.64E-03 |
| | | -1 | | | | | | | | | |
| 103 | 581440 | 1 | 1.61E-02 | 3 | 8.18E-02 | 4 | 1.08E-02 | 5 | 1.40E-02 | 6 | 1.11E-01 |
| | | -1 | | | | | | | | | |
| 103 | 591440 | 9 | 1.34E-02 | 10 | 5.60E-05 | 11 | 6.78E-05 | 12 | 8.72E-06 | 13 | 2.68E-06 |
| | | -1 | | | | | | | | | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 591441 | 1 | 1.11E-01 | 3 | 2.76E-01 | 4 | 3.07E-02 | -1 | | | |
| 103 | 531450 | 1 | 6.03E-04 | 2 | 3.02E-04 | 3 | 4.53E-04 | 4 | 7.54E-04 | 5 | 9.05E-04 |
| | | 6 | 3.13E-03 | 7 | 1.29E-02 | 8 | 2.23E-02 | 9 | 5.65E-02 | 10 | 1.00E-01 |
| | | 11 | 1.88E-01 | 12 | 1.83E-01 | 13 | 1.66E-01 | 14 | 1.31E-01 | 15 | 1.53E-01 |
| | | 16 | 7.87E-02 | 17 | 5.27E-03 | -1 | | | | | |
| 103 | 541450 | 1 | 5.56E-04 | 2 | 2.78E-04 | 3 | 4.17E-04 | 4 | 6.95E-04 | 5 | 8.34E-04 |
| | | 6 | 2.88E-03 | 7 | 1.19E-02 | 8 | 2.06E-02 | 9 | 5.20E-02 | 10 | 9.23E-02 |
| | | 11 | 1.73E-01 | 12 | 1.65E-01 | 13 | 1.41E-01 | 14 | 1.05E-01 | 15 | 1.11E-01 |
| | | 16 | 4.58E-02 | 17 | 1.35E-03 | -1 | | | | | |
| 103 | 551450 | 1 | 1.94E-02 | 2 | 2.23E-04 | 3 | 1.21E-01 | 4 | 5.57E-04 | 5 | 1.13E-02 |
| | | 6 | 3.95E-02 | 7 | 1.76E-01 | 8 | 9.36E-02 | 9 | 1.57E-01 | 10 | 1.09E-01 |
| | | 11 | 1.45E-01 | 12 | 1.34E-01 | 13 | 1.06E-01 | 14 | 6.96E-02 | 15 | 6.24E-02 |
| | | 16 | 1.67E-02 | 17 | 6.98E-09 | -1 | | | | | |
| 103 | 561450 | 1 | 6.01E-02 | 2 | 5.31E-04 | 3 | 4.07E-01 | 4 | 4.82E-03 | 5 | 1.77E-02 |
| | | 6 | 6.30E-03 | 7 | 3.24E-02 | 8 | 5.34E-02 | 9 | 1.15E-01 | 10 | 1.79E-01 |
| | | 11 | 3.18E-01 | 12 | 2.02E-01 | 13 | 6.93E-02 | 14 | 3.67E-04 | 15 | 4.54E-06 |
| | | 16 | 1.33E-06 | -1 | | | | | | | |
| 103 | 571450 | 1 | 7.59E-02 | 2 | 9.33E-04 | 3 | 4.73E-01 | 4 | 1.28E-01 | 5 | 2.80E-03 |
| | | 6 | 4.61E-02 | 7 | 1.28E-01 | 8 | 2.21E-01 | 9 | 3.00E-01 | 10 | 4.56E-01 |
| | | 11 | 5.54E-01 | 12 | 8.78E-02 | 13 | 7.51E-02 | 14 | 3.08E-03 | 15 | 1.74E-05 |
| | | 16 | 3.89E-07 | -1 | | | | | | | |
| 103 | 581450 | 1 | 8.14E-02 | 2 | 2.17E-04 | 3 | 4.72E-01 | 4 | 1.25E-01 | 5 | 6.51E-04 |
| | | 6 | 4.94E-03 | 7 | 7.99E-02 | 8 | 1.10E-01 | 9 | 8.00E-02 | 10 | 4.30E-01 |
| | | 11 | 2.02E-01 | 12 | 1.21E-01 | 13 | 5.29E-02 | -1 | | | |
| 103 | 591450 | 1 | 1.32E-03 | 3 | 6.95E-03 | 4 | 8.49E-04 | 5 | 2.70E-03 | 7 | 6.93E-05 |
| | | 8 | 4.72E-04 | 9 | 6.43E-03 | 10 | 1.03E-02 | 11 | 4.40E-03 | 12 | 1.57E-05 |
| | | -1 | | | | | | | | | |
| 103 | 541460 | 1 | 4.34E-04 | 2 | 2.17E-04 | 3 | 3.25E-04 | 4 | 5.42E-04 | 5 | 6.50E-04 |
| | | 6 | 2.25E-03 | 7 | 9.27E-03 | 8 | 1.60E-02 | 9 | 4.06E-02 | 10 | 7.20E-02 |
| | | 11 | 1.33E-01 | 12 | 1.14E-01 | 13 | 8.69E-02 | 14 | 5.95E-02 | 15 | 5.76E-02 |
| | | 16 | 1.67E-02 | -1 | | | | | | | |
| 103 | 551460 | 1 | 7.87E-04 | 2 | 3.94E-04 | 3 | 5.91E-04 | 4 | 9.84E-04 | 5 | 1.18E-03 |
| | | 6 | 4.08E-03 | 7 | 1.68E-02 | 8 | 2.91E-02 | 9 | 7.37E-02 | 10 | 1.31E-01 |
| | | 11 | 2.43E-01 | 12 | 2.19E-01 | 13 | 1.80E-01 | 14 | 1.29E-01 | 15 | 1.19E-01 |
| | | 16 | 3.84E-02 | 17 | 4.29E-05 | -1 | | | | | |
| 103 | 561460 | 1 | 2.41E-02 | 4 | 7.53E-03 | 5 | 1.53E-02 | 6 | 3.99E-01 | 7 | 8.19E-01 |
| | | 8 | 3.28E-01 | 9 | 1.56E-01 | 10 | 1.73E-01 | 11 | 1.58E-01 | 12 | 2.19E-02 |
| | | 13 | 1.42E-03 | -1 | | | | | | | |
| 103 | 571460 | 1 | 6.13E-03 | 2 | 2.16E-04 | 3 | 3.72E-02 | 4 | 5.40E-04 | 5 | 6.48E-04 |
| | | 6 | 2.85E-03 | 7 | 6.54E-01 | 8 | 6.88E-02 | 9 | 1.26E-01 | 10 | 3.02E-01 |
| | | 11 | 2.67E-01 | 12 | 8.68E-02 | 13 | 1.23E-01 | 14 | 4.99E-02 | 15 | 2.28E-02 |
| | | 16 | 2.17E-03 | 17 | 2.50E-08 | -1 | | | | | |
| 103 | 581460 | 1 | 1.48E-02 | 2 | 1.12E-04 | 3 | 8.78E-02 | 4 | 1.36E-02 | 5 | 3.99E-02 |
| | | 6 | 1.46E-01 | 7 | 3.78E-01 | 8 | 6.01E-01 | 9 | 2.02E-02 | -1 | |
| 103 | 591460 | 6 | 4.46E-04 | 7 | 1.54E-04 | 8 | 7.68E-04 | 9 | 5.24E-01 | 10 | 1.74E-01 |
| | | 11 | 1.39E-01 | 12 | 1.91E-01 | 13 | 4.11E-02 | 14 | 1.45E-02 | 15 | 4.47E-03 |
| | | -1 | | | | | | | | | |
| 103 | 541470 | 1 | 6.42E-04 | 2 | 3.21E-04 | 3 | 4.82E-04 | 4 | 8.03E-04 | 5 | 9.63E-04 |
| | | 6 | 3.33E-03 | 7 | 1.37E-02 | 8 | 2.37E-02 | 9 | 6.01E-02 | 10 | 1.07E-01 |
| | | 11 | 2.00E-01 | 12 | 1.94E-01 | 13 | 1.70E-01 | 14 | 1.31E-01 | 15 | 1.47E-01 |
| | | 16 | 6.89E-02 | 17 | 3.41E-03 | -1 | | | | | |
| 103 | 551470 | 1 | 1.66E-02 | 2 | 5.19E-04 | 3 | 1.08E-01 | 4 | 2.10E-03 | 5 | 7.16E-03 |
| | | 6 | 8.51E-03 | 7 | 2.36E-02 | 8 | 4.00E-02 | 9 | 6.26E-02 | 10 | 1.01E-01 |
| | | 11 | 1.88E-01 | 12 | 1.69E-01 | 13 | 1.26E-01 | 14 | 8.55E-02 | 15 | 8.17E-02 |
| | | 16 | 2.47E-02 | 17 | 7.94E-09 | -1 | | | | | |
| 103 | 561470 | 1 | 1.68E-02 | 2 | 3.90E-04 | 3 | 7.01E-02 | 4 | 1.60E-03 | 5 | 7.14E-03 |
| | | 6 | 1.49E-02 | 7 | 5.66E-02 | 8 | 4.25E-02 | 9 | 8.14E-02 | 10 | 1.32E-01 |
| | | 11 | 2.42E-01 | 12 | 1.82E-01 | 13 | 1.10E-01 | 14 | 5.83E-02 | 15 | 2.68E-02 |
| | | 16 | 1.91E-07 | -1 | | | | | | | |

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| | | | | | | |
|-----|--------|-------------|-------------|-------------|-------------|-------------|
| 103 | 571470 | 1 1.87E-02 | 2 3.64E-04 | 3 1.08E-01 | 4 2.67E-03 | 5 2.97E-03 |
| | | 6 4.18E-02 | 7 9.24E-02 | 8 7.59E-02 | 9 9.31E-02 | 10 1.22E-01 |
| | | 11 2.17E-01 | 12 1.45E-01 | 13 7.07E-02 | 14 1.61E-02 | 15 1.12E-06 |
| | | 16 9.70E-08 | -1 | | | |
| 103 | 581470 | 1 9.06E-04 | 2 4.53E-04 | 3 8.60E-04 | 4 2.42E-03 | 5 1.12E-02 |
| | | 6 5.56E-03 | 7 4.93E-02 | 8 4.35E-02 | 9 1.07E-01 | 10 1.59E-01 |
| | | 11 2.72E-01 | 12 1.72E-01 | 13 6.33E-02 | 14 2.49E-02 | 15 3.18E-03 |
| | | -1 | | | | |
| 103 | 591470 | 1 1.58E-01 | 3 8.27E-01 | 4 1.15E-01 | 5 1.86E-01 | 6 6.74E-02 |
| | | 7 3.00E-02 | 8 1.99E-01 | 9 2.77E-01 | 10 5.09E-02 | 11 9.13E-02 |
| | | 12 1.59E-02 | 13 4.49E-03 | -1 | | |
| 103 | 601470 | 1 7.90E-02 | 3 4.09E-01 | 4 4.55E-02 | 5 2.79E-01 | 6 3.96E-03 |
| | | 7 1.03E-02 | 8 4.16E-02 | 9 1.44E-01 | -1 | |
| 103 | 611470 | 3 5.63E-06 | 4 5.64E-06 | 6 2.85E-05 | -1 | |
| 103 | 551480 | 1 9.62E-04 | 2 4.81E-04 | 3 7.22E-04 | 4 1.20E-03 | 5 1.44E-03 |
| | | 6 4.99E-03 | 7 2.06E-02 | 8 3.56E-02 | 9 9.00E-02 | 10 1.60E-01 |
| | | 11 3.00E-01 | 12 2.76E-01 | 13 2.22E-01 | 14 1.64E-01 | 15 1.76E-01 |
| | | 16 7.36E-02 | 17 2.74E-03 | -1 | | |
| 103 | 561480 | 1 4.16E-02 | 2 2.95E-04 | 3 2.84E-01 | 4 1.56E-01 | 5 4.69E-02 |
| | | 6 3.96E-02 | 7 7.84E-02 | 8 7.82E-02 | 9 7.25E-02 | 10 1.05E-01 |
| | | 11 1.87E-01 | 12 1.20E-01 | 13 6.27E-02 | 14 1.88E-02 | 15 4.49E-06 |
| | | 16 4.52E-08 | -1 | | | |
| 103 | 571480 | 1 2.50E-02 | 3 1.50E-01 | 4 5.00E-03 | 7 6.50E-01 | 8 8.12E-02 |
| | | 9 2.07E-01 | 10 3.86E-01 | 11 8.90E-02 | 12 9.73E-02 | 13 1.50E-01 |
| | | 14 3.34E-03 | -1 | | | |
| 103 | 581480 | 1 5.80E-02 | 3 3.31E-01 | 4 3.59E-02 | 5 1.74E-01 | 6 2.60E-01 |
| | | 7 6.87E-01 | 8 1.95E-01 | 9 2.02E-02 | -1 | |
| 103 | 591480 | 1 4.26E-03 | 2 1.32E-04 | 3 2.11E-02 | 4 2.63E-03 | 5 3.96E-04 |
| | | 6 2.90E-03 | 7 9.00E-03 | 8 6.36E-01 | 9 1.96E-01 | 10 1.89E-01 |
| | | 11 3.41E-01 | 12 9.14E-02 | 13 5.63E-02 | 14 2.44E-02 | 15 6.05E-07 |
| | | 16 1.18E-07 | -1 | | | |
| 103 | 611480 | 1 3.50E-04 | 3 1.22E-03 | 4 6.80E-04 | 8 6.44E-04 | 9 2.34E-01 |
| | | 10 1.27E-01 | 11 2.23E-01 | 12 6.17E-04 | 13 4.44E-04 | -1 |
| 103 | 611481 | 1 1.60E-02 | 3 4.43E-02 | 4 1.24E-02 | 5 3.57E-02 | 7 1.37E-01 |
| | | 8 2.80E-01 | 9 2.09E+00 | 10 4.98E-01 | 11 2.03E-01 | -1 |
| 103 | 551490 | 1 6.63E-04 | 2 3.32E-04 | 3 4.97E-04 | 4 8.29E-04 | 5 9.95E-04 |
| | | 6 3.44E-03 | 7 1.42E-02 | 8 2.45E-02 | 9 6.21E-02 | 10 1.10E-01 |
| | | 11 2.07E-01 | 12 2.02E-01 | 13 1.79E-01 | 14 1.37E-01 | 15 1.52E-01 |
| | | 16 7.06E-02 | 17 4.07E-03 | 18 6.39E-09 | -1 | |
| 103 | 561490 | 1 5.53E-04 | 2 2.76E-04 | 3 4.14E-04 | 4 6.91E-04 | 5 8.29E-04 |
| | | 6 2.87E-03 | 7 1.18E-02 | 8 2.04E-02 | 9 5.17E-02 | 10 9.18E-02 |
| | | 11 1.71E-01 | 12 1.58E-01 | 13 1.27E-01 | 14 8.78E-02 | 15 8.07E-02 |
| | | 16 2.47E-02 | 17 3.32E-05 | -1 | | |
| 103 | 571490 | 1 4.72E-04 | 2 2.36E-04 | 3 3.54E-04 | 4 5.90E-04 | 5 7.08E-04 |
| | | 6 2.45E-03 | 7 1.01E-02 | 8 1.74E-02 | 9 4.42E-02 | 10 7.83E-02 |
| | | 11 1.45E-01 | 12 1.28E-01 | 13 9.83E-02 | 14 6.13E-02 | 15 4.65E-02 |
| | | 16 8.51E-03 | -1 | | | |
| 103 | 581490 | 1 7.16E-04 | 2 3.58E-04 | 3 5.37E-04 | 4 8.95E-04 | 5 1.07E-03 |
| | | 6 3.71E-03 | 7 1.53E-02 | 8 2.65E-02 | 9 6.70E-02 | 10 1.19E-01 |
| | | 11 2.14E-01 | 12 1.44E-01 | 13 8.49E-02 | 14 4.33E-02 | 15 2.07E-02 |
| | | -1 | | | | |
| 103 | 591490 | 1 4.03E-02 | 2 1.44E-04 | 3 1.91E-01 | 4 2.14E-02 | 5 4.08E-03 |
| | | 6 1.95E-01 | 7 2.50E-01 | 8 2.16E-01 | 9 1.63E-01 | 10 1.01E-01 |
| | | 11 8.55E-02 | 12 5.41E-02 | 13 2.71E-02 | 14 7.84E-03 | -1 |
| 103 | 601490 | 1 6.60E-02 | 2 5.44E-05 | 3 2.89E-01 | 4 4.54E-02 | 5 3.85E-02 |
| | | 6 2.05E-01 | 7 6.50E-01 | 8 1.72E-01 | 9 1.71E-01 | 10 1.15E-02 |
| | | 11 4.41E-03 | 12 5.18E-06 | -1 | | |
| 103 | 611490 | 1 1.40E-03 | 2 2.48E-04 | 3 1.49E-03 | 4 8.30E-04 | 7 3.15E-02 |
| | | 8 9.61E-05 | 9 1.20E-03 | 10 1.68E-03 | -1 | |

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|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 551500 | 1 | 7.51E-04 | 2 | 3.75E-04 | 3 | 5.63E-04 | 4 | 9.38E-04 | 5 | 1.13E-03 |
| | | 6 | 3.89E-03 | 7 | 1.60E-02 | 8 | 2.78E-02 | 9 | 7.03E-02 | 10 | 1.25E-01 |
| | | 11 | 2.36E-01 | 12 | 2.43E-01 | 13 | 2.24E-01 | 14 | 1.82E-01 | 15 | 2.26E-01 |
| | | 16 | 1.27E-01 | 17 | 1.08E-02 | 18 | 4.10E-04 | -1 | | | |
| 103 | 561500 | 1 | 4.62E-04 | 2 | 2.31E-04 | 3 | 3.46E-04 | 4 | 5.77E-04 | 5 | 6.93E-04 |
| | | 6 | 2.40E-03 | 7 | 9.87E-03 | 8 | 1.71E-02 | 9 | 4.32E-02 | 10 | 7.67E-02 |
| | | 11 | 1.42E-01 | 12 | 1.21E-01 | 13 | 8.99E-02 | 14 | 5.93E-02 | 15 | 5.38E-02 |
| | | 16 | 1.42E-02 | -1 | | | | | | | |
| 103 | 571500 | 1 | 8.25E-04 | 2 | 4.12E-04 | 3 | 6.19E-04 | 4 | 1.03E-03 | 5 | 1.24E-03 |
| | | 6 | 4.28E-03 | 7 | 1.76E-02 | 8 | 3.05E-02 | 9 | 7.72E-02 | 10 | 1.37E-01 |
| | | 11 | 2.58E-01 | 12 | 2.48E-01 | 13 | 2.05E-01 | 14 | 1.45E-01 | 15 | 1.46E-01 |
| | | 16 | 5.52E-02 | 17 | 1.36E-03 | -1 | | | | | |
| 103 | 581500 | 1 | 4.95E-04 | 2 | 2.48E-04 | 3 | 3.72E-04 | 4 | 6.19E-04 | 5 | 7.43E-04 |
| | | 6 | 2.57E-03 | 7 | 1.06E-02 | 8 | 1.83E-02 | 9 | 4.64E-02 | 10 | 8.23E-02 |
| | | 11 | 1.45E-01 | 12 | 7.58E-02 | 13 | 9.69E-03 | -1 | | | |
| 103 | 591500 | 1 | 3.57E-02 | 2 | 3.44E-04 | 3 | 1.54E-01 | 4 | 1.74E-02 | 5 | 1.03E-03 |
| | | 6 | 3.24E-01 | 7 | 4.68E-02 | 8 | 8.01E-02 | 9 | 1.15E-01 | 10 | 3.71E-01 |
| | | 11 | 3.80E-01 | 12 | 9.08E-02 | 13 | 2.59E-03 | 14 | 9.76E-04 | 15 | 1.44E-05 |
| | | 16 | 3.34E-06 | -1 | | | | | | | |
| 103 | 611500 | 1 | 4.00E-03 | 3 | 1.31E-02 | 4 | 7.30E-03 | 7 | 5.85E-03 | 8 | 7.56E-01 |
| | | 9 | 5.00E-02 | 10 | 3.27E-01 | 11 | 5.08E-01 | 12 | 1.15E-01 | 13 | 1.94E-02 |
| | | 14 | 1.11E-02 | 15 | 8.02E-04 | -1 | | | | | |
| 103 | 561510 | 1 | 7.02E-04 | 2 | 3.51E-04 | 3 | 5.26E-04 | 4 | 8.77E-04 | 5 | 1.05E-03 |
| | | 6 | 3.64E-03 | 7 | 1.50E-02 | 8 | 2.59E-02 | 9 | 6.57E-02 | 10 | 1.17E-01 |
| | | 11 | 2.19E-01 | 12 | 2.10E-01 | 13 | 1.77E-01 | 14 | 1.29E-01 | 15 | 1.34E-01 |
| | | 16 | 5.29E-02 | 17 | 1.75E-03 | -1 | | | | | |
| 103 | 571510 | 1 | 5.76E-04 | 2 | 2.88E-04 | 3 | 4.32E-04 | 4 | 7.21E-04 | 5 | 8.65E-04 |
| | | 6 | 2.99E-03 | 7 | 1.23E-02 | 8 | 2.13E-02 | 9 | 5.40E-02 | 10 | 9.57E-02 |
| | | 11 | 1.79E-01 | 12 | 1.66E-01 | 13 | 1.34E-01 | 14 | 9.18E-02 | 15 | 8.46E-02 |
| | | 16 | 2.70E-02 | 17 | 3.23E-04 | -1 | | | | | |
| 103 | 581510 | 1 | 5.12E-04 | 2 | 2.56E-04 | 3 | 3.84E-04 | 4 | 6.40E-04 | 5 | 7.69E-04 |
| | | 6 | 2.66E-03 | 7 | 1.10E-02 | 8 | 1.89E-02 | 9 | 4.80E-02 | 10 | 8.51E-02 |
| | | 11 | 1.55E-01 | 12 | 1.18E-01 | 13 | 7.47E-02 | 14 | 4.09E-02 | 15 | 2.61E-02 |
| | | 16 | 8.22E-04 | -1 | | | | | | | |
| 103 | 591510 | 1 | 2.71E-04 | 2 | 1.05E-02 | 3 | 2.03E-04 | 4 | 8.05E-02 | 5 | 2.49E-02 |
| | | 6 | 4.93E-02 | 7 | 1.33E-01 | 8 | 1.24E-01 | 9 | 3.15E-01 | 10 | 1.39E-01 |
| | | 11 | 8.11E-02 | 12 | 5.60E-02 | 13 | 3.12E-02 | 14 | 1.38E-02 | 15 | 3.64E-03 |
| | | -1 | | | | | | | | | |
| 103 | 601510 | 1 | 4.01E-02 | 3 | 1.90E-01 | 4 | 3.92E-02 | 5 | 4.34E-02 | 6 | 5.24E-01 |
| | | 7 | 3.26E-01 | 8 | 1.62E-01 | 9 | 1.26E-01 | 10 | 2.63E-01 | 11 | 3.30E-01 |
| | | 12 | 3.50E-02 | 13 | 1.38E-03 | -1 | | | | | |
| 103 | 611510 | 1 | 5.76E-02 | 2 | 9.67E-03 | 3 | 1.92E-01 | 4 | 1.44E-01 | 5 | 6.73E-03 |
| | | 6 | 8.70E-02 | 7 | 3.47E-01 | 8 | 3.45E-01 | 9 | 5.40E-02 | 10 | 9.70E-02 |
| | | 11 | 3.60E-05 | -1 | | | | | | | |
| 103 | 621510 | 2 | 3.14E-04 | -1 | | | | | | | |
| 103 | 561520 | 1 | 4.61E-04 | 2 | 2.31E-04 | 3 | 3.46E-04 | 4 | 5.76E-04 | 5 | 6.92E-04 |
| | | 6 | 2.39E-03 | 7 | 9.86E-03 | 8 | 1.70E-02 | 9 | 4.32E-02 | 10 | 7.66E-02 |
| | | 11 | 1.43E-01 | 12 | 1.30E-01 | 13 | 1.06E-01 | 14 | 7.74E-02 | 15 | 8.16E-02 |
| | | 16 | 3.25E-02 | 17 | 1.01E-03 | -1 | | | | | |
| 103 | 571520 | 1 | 8.30E-04 | 2 | 4.15E-04 | 3 | 6.22E-04 | 4 | 1.04E-03 | 5 | 1.24E-03 |
| | | 6 | 4.30E-03 | 7 | 1.77E-02 | 8 | 3.07E-02 | 9 | 7.76E-02 | 10 | 1.38E-01 |
| | | 11 | 2.60E-01 | 12 | 2.58E-01 | 13 | 2.22E-01 | 14 | 1.65E-01 | 15 | 1.77E-01 |
| | | 16 | 7.62E-02 | 17 | 3.49E-03 | 18 | 7.86E-06 | -1 | | | |
| 103 | 581520 | 1 | 5.24E-04 | 2 | 2.62E-04 | 3 | 3.93E-04 | 4 | 6.55E-04 | 5 | 7.86E-04 |
| | | 6 | 2.72E-03 | 7 | 1.12E-02 | 8 | 1.94E-02 | 9 | 4.91E-02 | 10 | 8.70E-02 |
| | | 11 | 1.58E-01 | 12 | 1.13E-01 | 13 | 6.69E-02 | 14 | 3.25E-02 | 15 | 1.11E-02 |
| | | -1 | | | | | | | | | |
| 103 | 591520 | 1 | 1.20E-03 | 2 | 5.98E-04 | 3 | 8.96E-04 | 4 | 1.49E-03 | 5 | 1.79E-03 |
| | | 6 | 6.20E-03 | 7 | 2.55E-02 | 8 | 4.42E-02 | 9 | 1.12E-01 | 10 | 1.98E-01 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 11 | 3.64E-01 | 12 | 2.99E-01 | 13 | 2.22E-01 | 14 | 1.08E-01 | 15 | 3.01E-02 |
| | | 16 | 8.10E-08 | -1 | | | | | | | |
| 103 | 601520 | 1 | 1.55E-01 | 2 | 1.28E-02 | 3 | 9.57E-03 | 4 | 1.06E-03 | 5 | 1.28E-02 |
| | | 7 | 5.89E-01 | -1 | | | | | | | |
| 103 | 611520 | 1 | 2.60E-02 | 3 | 6.40E-02 | 4 | 3.60E-02 | 6 | 1.57E-01 | 7 | 5.81E-03 |
| | | 8 | 2.91E-03 | 9 | 1.98E-02 | 10 | 7.66E-02 | 11 | 1.79E-02 | 12 | 2.66E-03 |
| | | 13 | 5.64E-03 | 14 | 6.64E-04 | -1 | | | | | |
| 103 | 611521 | 1 | 8.60E-02 | 3 | 2.21E-01 | 4 | 1.24E-01 | 6 | 4.51E-01 | 7 | 7.84E-01 |
| | | 8 | 3.38E-01 | 9 | 1.08E-01 | 10 | 1.78E-01 | 11 | 6.80E-01 | 12 | 1.72E-02 |
| | | 13 | 1.55E-02 | 14 | 5.17E-03 | -1 | | | | | |
| 103 | 631520 | 1 | 1.53E-01 | 3 | 4.78E-01 | 4 | 2.68E-01 | 6 | 2.85E-01 | 7 | 8.17E-02 |
| | | 8 | 3.32E-01 | 9 | 3.60E-02 | 10 | 3.38E-01 | 11 | 5.11E-01 | 12 | 2.92E-03 |
| | | -1 | | | | | | | | | |
| 103 | 631521 | 1 | 5.32E-02 | 3 | 1.74E-01 | 4 | 9.69E-02 | 6 | 7.23E-02 | 7 | 1.02E-03 |
| | | 8 | 2.47E-02 | 9 | 4.05E-03 | 10 | 2.75E-01 | 11 | 8.45E-03 | 12 | 2.26E-04 |
| | | -1 | | | | | | | | | |
| 103 | 571530 | 1 | 6.34E-04 | 2 | 3.17E-04 | 3 | 4.76E-04 | 4 | 7.93E-04 | 5 | 9.51E-04 |
| | | 6 | 3.29E-03 | 7 | 1.36E-02 | 8 | 2.34E-02 | 9 | 5.94E-02 | 10 | 1.05E-01 |
| | | 11 | 1.98E-01 | 12 | 1.91E-01 | 13 | 1.64E-01 | 14 | 1.21E-01 | 15 | 1.25E-01 |
| | | 16 | 5.02E-02 | 17 | 2.23E-03 | -1 | | | | | |
| 103 | 581530 | 1 | 4.73E-04 | 2 | 2.37E-04 | 3 | 3.55E-04 | 4 | 5.92E-04 | 5 | 7.10E-04 |
| | | 6 | 2.46E-03 | 7 | 1.01E-02 | 8 | 1.75E-02 | 9 | 4.43E-02 | 10 | 7.86E-02 |
| | | 11 | 1.46E-01 | 12 | 1.30E-01 | 13 | 9.95E-02 | 14 | 6.38E-02 | 15 | 5.10E-02 |
| | | 16 | 1.02E-02 | -1 | | | | | | | |
| 103 | 591530 | 1 | 4.84E-04 | 2 | 2.42E-04 | 3 | 3.63E-04 | 4 | 6.06E-04 | 5 | 7.27E-04 |
| | | 6 | 2.51E-03 | 7 | 1.04E-02 | 8 | 1.79E-02 | 9 | 4.53E-02 | 10 | 8.05E-02 |
| | | 11 | 1.50E-01 | 12 | 1.30E-01 | 13 | 9.25E-02 | 14 | 5.25E-02 | 15 | 3.96E-02 |
| | | 16 | 5.81E-03 | -1 | | | | | | | |
| 103 | 601530 | 1 | 4.95E-04 | 2 | 2.47E-04 | 3 | 3.71E-04 | 4 | 6.18E-04 | 5 | 7.42E-04 |
| | | 6 | 2.57E-03 | 7 | 1.06E-02 | 8 | 1.83E-02 | 9 | 4.63E-02 | 10 | 8.21E-02 |
| | | 11 | 1.48E-01 | 12 | 1.02E-01 | 13 | 5.60E-02 | 14 | 2.39E-02 | 15 | 4.62E-03 |
| | | -1 | | | | | | | | | |
| 103 | 611530 | 1 | 2.33E-04 | 2 | 1.16E-04 | 3 | 1.74E-04 | 4 | 2.91E-04 | 5 | 3.49E-04 |
| | | 6 | 1.21E-03 | 7 | 4.97E-03 | 8 | 8.60E-03 | 9 | 2.18E-02 | 10 | 3.86E-02 |
| | | 11 | 7.25E-02 | 12 | 1.60E-02 | -1 | | | | | |
| 103 | 621530 | 1 | 7.00E-02 | 3 | 2.11E-01 | 4 | 2.60E-01 | 5 | 1.59E-02 | 6 | 3.14E-01 |
| | | 7 | 9.22E-04 | 8 | 2.53E-05 | 9 | 1.58E-03 | 10 | 8.01E-07 | -1 | |
| 103 | 641530 | 1 | 1.51E-01 | 3 | 3.78E-01 | 4 | 4.04E-01 | 5 | 3.06E-01 | 6 | 2.14E-01 |
| | | 7 | 4.80E-04 | -1 | | | | | | | |
| 103 | 571540 | 1 | 8.23E-04 | 2 | 4.11E-04 | 3 | 6.17E-04 | 4 | 1.03E-03 | 5 | 1.23E-03 |
| | | 6 | 4.27E-03 | 7 | 1.76E-02 | 8 | 3.04E-02 | 9 | 7.70E-02 | 10 | 1.37E-01 |
| | | 11 | 2.59E-01 | 12 | 2.63E-01 | 13 | 2.34E-01 | 14 | 1.82E-01 | 15 | 2.08E-01 |
| | | 16 | 9.94E-02 | 17 | 6.24E-03 | 18 | 1.42E-04 | -1 | | | |
| 103 | 581540 | 1 | 4.94E-04 | 2 | 2.47E-04 | 3 | 3.70E-04 | 4 | 6.17E-04 | 5 | 7.41E-04 |
| | | 6 | 2.56E-03 | 7 | 1.06E-02 | 8 | 1.83E-02 | 9 | 4.62E-02 | 10 | 8.20E-02 |
| | | 11 | 1.49E-01 | 12 | 1.17E-01 | 13 | 8.03E-02 | 14 | 4.84E-02 | 15 | 3.80E-02 |
| | | 16 | 5.55E-03 | -1 | | | | | | | |
| 103 | 591540 | 1 | 1.16E-01 | 2 | 4.13E-04 | 3 | 3.15E-01 | 4 | 3.55E-02 | 5 | 1.13E-01 |
| | | 6 | 4.28E-03 | 7 | 1.70E-01 | 8 | 3.05E-02 | 9 | 1.81E-01 | 10 | 3.50E-01 |
| | | 11 | 2.67E-01 | 12 | 2.31E-01 | 13 | 1.80E-01 | 14 | 1.19E-01 | 15 | 1.01E-01 |
| | | 16 | 2.80E-02 | 17 | 1.63E-04 | -1 | | | | | |
| 103 | 601540 | 1 | 1.24E-01 | 2 | 2.70E-03 | 3 | 2.79E-01 | 4 | 7.04E-02 | 5 | 8.65E-02 |
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| | | 11 | 1.37E-01 | 12 | 3.37E-02 | 13 | 6.82E-07 | -1 | | | |
| 103 | 611540 | 1 | 8.70E-02 | 3 | 1.55E-01 | 4 | 8.69E-02 | 5 | 1.26E-01 | 6 | 2.50E-03 |
| | | 7 | 5.52E-02 | 8 | 5.82E-03 | 9 | 3.42E-02 | 10 | 3.68E-01 | 11 | 4.23E-01 |
| | | 12 | 5.92E-02 | 13 | 3.17E-01 | 14 | 3.89E-02 | 15 | 1.13E-03 | -1 | |
| 103 | 611541 | 1 | 1.04E-01 | 3 | 2.14E-01 | 4 | 1.66E-01 | 5 | 1.46E-01 | 6 | 7.26E-02 |
| | | 7 | 6.53E-01 | 8 | 1.52E-01 | 9 | 2.24E-01 | 10 | 3.28E-01 | 11 | 5.06E-01 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 12 | 2.46E-01 | 13 | 1.45E-02 | 14 | 1.90E-03 | -1 | | | |
| 103 | 631540 | 1 | 7.71E-02 | 3 | 1.30E-01 | 4 | 1.30E-01 | 5 | 6.16E-05 | 6 | 4.06E-01 |
| | | 7 | 7.25E-02 | 8 | 1.00E-02 | 9 | 9.16E-02 | 10 | 5.06E-01 | 11 | 5.56E-01 |
| | | 12 | 1.86E-02 | -1 | | | | | | | |
| 103 | 571550 | 1 | 7.13E-04 | 2 | 3.57E-04 | 3 | 5.35E-04 | 4 | 8.91E-04 | 5 | 1.07E-03 |
| | | 6 | 3.70E-03 | 7 | 1.52E-02 | 8 | 2.64E-02 | 9 | 6.67E-02 | 10 | 1.18E-01 |
| | | 11 | 2.24E-01 | 12 | 2.23E-01 | 13 | 1.98E-01 | 14 | 1.54E-01 | 15 | 1.74E-01 |
| | | 16 | 8.15E-02 | 17 | 5.40E-03 | 18 | 1.20E-04 | -1 | | | |
| 103 | 581550 | 1 | 5.78E-04 | 2 | 2.89E-04 | 3 | 4.34E-04 | 4 | 7.23E-04 | 5 | 8.68E-04 |
| | | 6 | 3.00E-03 | 7 | 1.24E-02 | 8 | 2.14E-02 | 9 | 5.41E-02 | 10 | 9.61E-02 |
| | | 11 | 1.79E-01 | 12 | 1.65E-01 | 13 | 1.32E-01 | 14 | 9.02E-02 | 15 | 8.21E-02 |
| | | 16 | 2.48E-02 | 17 | 4.59E-05 | -1 | | | | | |
| 103 | 591550 | 1 | 5.78E-04 | 2 | 2.89E-04 | 3 | 4.34E-04 | 4 | 7.23E-04 | 5 | 8.68E-04 |
| | | 6 | 3.00E-03 | 7 | 1.24E-02 | 8 | 2.14E-02 | 9 | 5.41E-02 | 10 | 9.60E-02 |
| | | 11 | 1.79E-01 | 12 | 1.62E-01 | 13 | 1.28E-01 | 14 | 8.37E-02 | 15 | 7.19E-02 |
| | | 16 | 1.98E-02 | 17 | 5.41E-05 | -1 | | | | | |
| 103 | 601550 | 1 | 5.23E-04 | 2 | 2.61E-04 | 3 | 3.92E-04 | 4 | 6.53E-04 | 5 | 7.84E-04 |
| | | 6 | 2.71E-03 | 7 | 1.12E-02 | 8 | 1.93E-02 | 9 | 4.89E-02 | 10 | 8.68E-02 |
| | | 11 | 1.58E-01 | 12 | 1.16E-01 | 13 | 7.03E-02 | 14 | 3.65E-02 | 15 | 2.02E-02 |
| | | 16 | 1.69E-04 | -1 | | | | | | | |
| 103 | 611550 | 1 | 5.11E-04 | 2 | 2.56E-04 | 3 | 3.83E-04 | 4 | 6.39E-04 | 5 | 7.67E-04 |
| | | 6 | 2.65E-03 | 7 | 1.09E-02 | 8 | 1.89E-02 | 9 | 4.79E-02 | 10 | 8.49E-02 |
| | | 11 | 1.52E-01 | 12 | 1.00E-01 | 13 | 5.07E-02 | 14 | 1.68E-02 | 15 | 4.55E-07 |
| | | -1 | | | | | | | | | |
| 103 | 621550 | 1 | 3.60E-02 | 2 | 5.22E-03 | 3 | 9.38E-02 | 4 | 9.08E-02 | 5 | 2.97E-03 |
| | | 6 | 7.67E-01 | 7 | 3.93E-02 | 8 | 2.31E-04 | 9 | 3.53E-03 | 10 | 4.42E-04 |
| | | 11 | 1.31E-03 | -1 | | | | | | | |
| 103 | 631550 | 1 | 8.18E-02 | 2 | 3.25E-03 | 3 | 1.22E-01 | 4 | 1.34E-01 | 5 | 3.09E-01 |
| | | 6 | 2.12E-01 | -1 | | | | | | | |
| 103 | 581560 | 1 | 4.75E-04 | 2 | 2.38E-04 | 3 | 3.57E-04 | 4 | 5.94E-04 | 5 | 7.13E-04 |
| | | 6 | 2.47E-03 | 7 | 1.02E-02 | 8 | 1.76E-02 | 9 | 4.45E-02 | 10 | 7.89E-02 |
| | | 11 | 1.46E-01 | 12 | 1.27E-01 | 13 | 9.58E-02 | 14 | 6.37E-02 | 15 | 5.86E-02 |
| | | 16 | 1.70E-02 | 17 | 1.86E-08 | -1 | | | | | |
| 103 | 591560 | 1 | 8.51E-04 | 2 | 4.25E-04 | 3 | 6.38E-04 | 4 | 1.06E-03 | 5 | 1.28E-03 |
| | | 6 | 4.41E-03 | 7 | 1.82E-02 | 8 | 3.15E-02 | 9 | 7.96E-02 | 10 | 1.41E-01 |
| | | 11 | 2.67E-01 | 12 | 2.59E-01 | 13 | 2.15E-01 | 14 | 1.54E-01 | 15 | 1.55E-01 |
| | | 16 | 5.97E-02 | 17 | 1.90E-03 | -1 | | | | | |
| 103 | 601560 | 1 | 5.71E-04 | 2 | 2.85E-04 | 3 | 4.28E-04 | 4 | 7.13E-04 | 5 | 8.56E-04 |
| | | 6 | 2.96E-03 | 7 | 1.22E-02 | 8 | 2.11E-02 | 9 | 5.34E-02 | 10 | 9.48E-02 |
| | | 11 | 1.69E-01 | 12 | 1.09E-01 | 13 | 6.25E-02 | 14 | 2.89E-02 | 15 | 8.13E-03 |
| | | -1 | | | | | | | | | |
| 103 | 611560 | 1 | 1.63E-03 | 2 | 8.16E-04 | 3 | 1.22E-03 | 4 | 2.04E-03 | 5 | 2.45E-03 |
| | | 6 | 8.46E-03 | 7 | 3.49E-02 | 8 | 6.03E-02 | 9 | 1.53E-01 | 10 | 2.71E-01 |
| | | 11 | 4.87E-01 | 12 | 3.75E-01 | 13 | 1.33E-01 | 14 | 1.52E-05 | 15 | 1.32E-05 |
| | | 16 | 3.52E-06 | -1 | | | | | | | |
| 103 | 621560 | 1 | 2.50E-01 | 2 | 7.25E-02 | 3 | 7.25E-02 | 4 | 8.00E-02 | 5 | 2.40E-01 |
| | | 6 | 1.76E-02 | 7 | 4.10E-01 | -1 | | | | | |
| 103 | 631560 | 1 | 5.10E-02 | 3 | 6.35E-02 | 4 | 6.35E-02 | 5 | 8.44E-02 | 6 | 7.86E-05 |
| | | 7 | 8.02E-03 | 8 | 3.07E-03 | 9 | 8.89E-02 | 10 | 2.23E-01 | 11 | 4.26E-01 |
| | | 12 | 8.11E-02 | 13 | 1.51E-01 | -1 | | | | | |
| 103 | 581570 | 1 | 6.49E-04 | 2 | 3.24E-04 | 3 | 4.87E-04 | 4 | 8.11E-04 | 5 | 9.73E-04 |
| | | 6 | 3.37E-03 | 7 | 1.39E-02 | 8 | 2.40E-02 | 9 | 6.07E-02 | 10 | 1.08E-01 |
| | | 11 | 2.02E-01 | 12 | 1.95E-01 | 13 | 1.66E-01 | 14 | 1.20E-01 | 15 | 1.23E-01 |
| | | 16 | 4.86E-02 | 17 | 1.92E-03 | -1 | | | | | |
| 103 | 591570 | 1 | 6.41E-04 | 2 | 3.21E-04 | 3 | 4.81E-04 | 4 | 8.01E-04 | 5 | 9.62E-04 |
| | | 6 | 3.33E-03 | 7 | 1.37E-02 | 8 | 2.37E-02 | 9 | 6.00E-02 | 10 | 1.06E-01 |
| | | 11 | 2.00E-01 | 12 | 1.89E-01 | 13 | 1.55E-01 | 14 | 1.08E-01 | 15 | 1.03E-01 |
| | | 16 | 3.58E-02 | 17 | 9.91E-04 | -1 | | | | | |
| 103 | 601570 | 1 | 5.17E-04 | 2 | 2.59E-04 | 3 | 3.88E-04 | 4 | 6.47E-04 | 5 | 7.76E-04 |

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|-----|--------|-------------|-------------|-------------|-------------|-------------|
| | | 6 2.68E-03 | 7 1.11E-02 | 8 1.91E-02 | 9 4.84E-02 | 10 8.59E-02 |
| | | 11 1.59E-01 | 12 1.40E-01 | 13 1.04E-01 | 14 6.08E-02 | 15 4.57E-02 |
| | | 16 7.26E-03 | -1 | | | |
| 103 | 611570 | 1 4.93E-04 | 2 2.47E-04 | 3 3.70E-04 | 4 6.16E-04 | 5 7.40E-04 |
| | | 6 2.56E-03 | 7 1.05E-02 | 8 1.82E-02 | 9 4.62E-02 | 10 8.19E-02 |
| | | 11 1.51E-01 | 12 1.18E-01 | 13 6.97E-02 | 14 3.77E-02 | 15 2.37E-02 |
| | | 16 7.50E-04 | -1 | | | |
| 103 | 621570 | 1 4.20E-02 | 3 8.21E-02 | 4 9.05E-02 | 5 2.21E-02 | 6 4.76E-02 |
| | | 7 7.86E-01 | 8 1.40E-01 | 9 3.80E-02 | 10 5.85E-02 | 11 8.35E-02 |
| | | -1 | | | | |
| 103 | 631570 | 1 1.39E-01 | 3 3.07E-01 | 4 5.83E-01 | 5 2.11E-03 | 6 1.08E-03 |
| | | 7 6.03E-03 | 8 3.85E-01 | 9 1.40E-01 | 10 1.66E-02 | 11 1.17E-03 |
| | | -1 | | | | |
| 103 | 591580 | 1 8.80E-04 | 2 4.40E-04 | 3 6.60E-04 | 4 1.10E-03 | 5 1.32E-03 |
| | | 6 4.56E-03 | 7 1.88E-02 | 8 3.25E-02 | 9 8.24E-02 | 10 1.46E-01 |
| | | 11 2.77E-01 | 12 2.79E-01 | 13 2.42E-01 | 14 1.81E-01 | 15 1.96E-01 |
| | | 16 8.48E-02 | 17 4.46E-03 | 18 7.33E-05 | -1 | |
| 103 | 601580 | 1 4.95E-04 | 2 2.47E-04 | 3 3.71E-04 | 4 6.19E-04 | 5 7.42E-04 |
| | | 6 2.57E-03 | 7 1.06E-02 | 8 1.83E-02 | 9 4.63E-02 | 10 8.22E-02 |
| | | 11 1.51E-01 | 12 1.18E-01 | 13 7.85E-02 | 14 4.53E-02 | 15 3.29E-02 |
| | | 16 3.29E-03 | -1 | | | |
| 103 | 611580 | 1 9.63E-04 | 2 4.81E-04 | 3 7.22E-04 | 4 1.20E-03 | 5 1.44E-03 |
| | | 6 4.99E-03 | 7 2.06E-02 | 8 3.56E-02 | 9 9.01E-02 | 10 1.60E-01 |
| | | 11 2.99E-01 | 12 2.60E-01 | 13 1.84E-01 | 14 1.13E-01 | 15 9.31E-02 |
| | | 16 2.17E-02 | -1 | | | |
| 103 | 621580 | 1 8.92E-04 | 2 4.46E-04 | 3 6.69E-04 | 4 1.11E-03 | 5 1.34E-03 |
| | | 6 4.63E-03 | 7 1.91E-02 | 8 3.30E-02 | 9 8.34E-02 | 10 1.48E-01 |
| | | 11 2.46E-01 | 12 3.54E-02 | -1 | | |
| 103 | 631580 | 1 1.02E-01 | 3 1.09E-01 | 4 1.09E-01 | 5 1.10E-01 | 7 2.07E-02 |
| | | 9 5.46E-02 | 10 6.63E-01 | 11 2.17E-01 | 12 3.58E-02 | 13 3.72E-02 |
| | | 14 3.13E-03 | -1 | | | |
| 103 | 591590 | 1 6.87E-04 | 2 3.44E-04 | 3 5.15E-04 | 4 8.59E-04 | 5 1.03E-03 |
| | | 6 3.56E-03 | 7 1.47E-02 | 8 2.54E-02 | 9 6.43E-02 | 10 1.14E-01 |
| | | 11 2.15E-01 | 12 2.11E-01 | 13 1.82E-01 | 14 1.35E-01 | 15 1.42E-01 |
| | | 16 5.84E-02 | 17 3.00E-03 | 18 2.84E-05 | -1 | |
| 103 | 601590 | 1 6.33E-04 | 2 3.17E-04 | 3 4.75E-04 | 4 7.92E-04 | 5 9.50E-04 |
| | | 6 3.29E-03 | 7 1.35E-02 | 8 2.34E-02 | 9 5.93E-02 | 10 1.05E-01 |
| | | 11 1.97E-01 | 12 1.81E-01 | 13 1.42E-01 | 14 9.29E-02 | 15 8.34E-02 |
| | | 16 2.45E-02 | 17 1.61E-04 | -1 | | |
| 103 | 611590 | 1 5.10E-04 | 2 2.55E-04 | 3 3.83E-04 | 4 6.38E-04 | 5 7.65E-04 |
| | | 6 2.65E-03 | 7 1.09E-02 | 8 1.89E-02 | 9 4.77E-02 | 10 8.47E-02 |
| | | 11 1.57E-01 | 12 1.38E-01 | 13 1.03E-01 | 14 6.41E-02 | 15 4.92E-02 |
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| 103 | 621590 | 1 6.85E-04 | 2 3.42E-04 | 3 5.13E-04 | 4 8.56E-04 | 5 1.03E-03 |
| | | 6 3.55E-03 | 7 1.46E-02 | 8 2.53E-02 | 9 6.41E-02 | 10 1.14E-01 |
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| | | -1 | | | | |
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| | | 11 1.11E-01 | 12 6.91E-02 | 13 2.81E-02 | 14 1.44E-03 | -1 |
| 103 | 641590 | 1 4.00E-02 | 3 7.40E-02 | 4 1.33E-01 | 5 4.59E-04 | 6 6.05E-05 |
| | | 7 2.66E-03 | 8 1.13E-01 | 9 1.02E-03 | 10 1.68E-06 | -1 |
| 103 | 601600 | 1 5.07E-04 | 2 2.54E-04 | 3 3.81E-04 | 4 6.34E-04 | 5 7.61E-04 |
| | | 6 2.63E-03 | 7 1.08E-02 | 8 1.88E-02 | 9 4.75E-02 | 10 8.43E-02 |
| | | 11 1.56E-01 | 12 1.35E-01 | 13 1.00E-01 | 14 6.50E-02 | 15 5.75E-02 |
| | | 16 1.56E-02 | 17 1.72E-08 | -1 | | |
| 103 | 611600 | 1 8.56E-04 | 2 4.28E-04 | 3 6.42E-04 | 4 1.07E-03 | 5 1.28E-03 |
| | | 6 4.44E-03 | 7 1.83E-02 | 8 3.17E-02 | 9 8.01E-02 | 10 1.42E-01 |
| | | 11 2.68E-01 | 12 2.55E-01 | 13 2.05E-01 | 14 1.41E-01 | 15 1.37E-01 |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| | | 16 | 4.78E-02 | 17 | 9.64E-04 | -1 | | | | | |
| 103 | 621600 | 1 | 5.87E-04 | 2 | 2.93E-04 | 3 | 4.40E-04 | 4 | 7.33E-04 | 5 | 8.80E-04 |
| | | 6 | 3.04E-03 | 7 | 1.25E-02 | 8 | 2.17E-02 | 9 | 5.49E-02 | 10 | 9.74E-02 |
| 103 | 631600 | 11 | 1.75E-01 | 12 | 1.14E-01 | 13 | 5.39E-02 | 14 | 1.03E-02 | -1 | |
| | | 5 | 2.40E-01 | 7 | 1.00E+00 | 8 | 5.60E-01 | 9 | 6.00E-01 | 10 | 1.15E+00 |
| | | 11 | 6.10E-01 | -1 | | | | | | | |
| 103 | 651600 | 1 | 1.05E-01 | 3 | 8.34E-02 | 4 | 1.26E-01 | 5 | 1.31E-01 | 7 | 3.48E-01 |
| | | 8 | 2.59E-02 | 9 | 6.98E-03 | 10 | 6.75E-01 | 11 | 3.12E-01 | -1 | |
| 103 | 601610 | 1 | 6.69E-04 | 2 | 3.34E-04 | 3 | 5.01E-04 | 4 | 8.36E-04 | 5 | 1.00E-03 |
| | | 6 | 3.47E-03 | 7 | 1.43E-02 | 8 | 2.47E-02 | 9 | 6.26E-02 | 10 | 1.11E-01 |
| | | 11 | 2.08E-01 | 12 | 1.95E-01 | 13 | 1.55E-01 | 14 | 1.05E-01 | 15 | 1.01E-01 |
| | | 16 | 3.35E-02 | 17 | 6.08E-04 | -1 | | | | | |
| 103 | 611610 | 1 | 6.46E-04 | 2 | 3.23E-04 | 3 | 4.85E-04 | 4 | 8.08E-04 | 5 | 9.69E-04 |
| | | 6 | 3.35E-03 | 7 | 1.38E-02 | 8 | 2.39E-02 | 9 | 6.05E-02 | 10 | 1.07E-01 |
| | | 11 | 2.01E-01 | 12 | 1.85E-01 | 13 | 1.44E-01 | 14 | 9.39E-02 | 15 | 8.48E-02 |
| | | 16 | 2.51E-02 | 17 | 2.36E-04 | -1 | | | | | |
| 103 | 621610 | 1 | 6.10E-04 | 2 | 3.05E-04 | 3 | 4.58E-04 | 4 | 7.63E-04 | 5 | 9.16E-04 |
| | | 6 | 3.17E-03 | 7 | 1.30E-02 | 8 | 2.26E-02 | 9 | 5.71E-02 | 10 | 1.01E-01 |
| | | 11 | 1.86E-01 | 12 | 1.46E-01 | 13 | 9.69E-02 | 14 | 5.56E-02 | 15 | 3.99E-02 |
| | | 16 | 4.21E-03 | -1 | | | | | | | |
| 103 | 631610 | 1 | 7.11E-04 | 2 | 3.55E-04 | 3 | 5.33E-04 | 4 | 8.88E-04 | 5 | 1.07E-03 |
| | | 6 | 3.69E-03 | 7 | 1.52E-02 | 8 | 2.63E-02 | 9 | 6.65E-02 | 10 | 1.18E-01 |
| | | 11 | 2.13E-01 | 12 | 1.50E-01 | 13 | 8.51E-02 | 14 | 3.87E-02 | 15 | 1.07E-02 |
| | | -1 | | | | | | | | | |
| 103 | 641610 | 1 | 1.28E-01 | 3 | 2.35E-01 | 4 | 3.93E-01 | 5 | 1.52E-02 | 6 | 1.48E-01 |
| | | 7 | 1.18E-01 | 8 | 8.51E-01 | 9 | 3.99E-02 | 10 | 2.99E-04 | 11 | 8.60E-04 |
| | | 12 | 6.51E-05 | -1 | | | | | | | |
| 103 | 651610 | 1 | 1.47E-01 | 2 | 2.32E-01 | 3 | 1.76E-01 | 4 | 2.41E-01 | 5 | 1.04E-01 |
| | | 6 | 1.79E-03 | 7 | 5.81E-04 | 8 | 1.63E-04 | 9 | 5.52E-04 | -1 | |
| 103 | 611620 | 1 | 8.62E-04 | 2 | 4.31E-04 | 3 | 6.47E-04 | 4 | 1.08E-03 | 5 | 1.29E-03 |
| | | 6 | 4.47E-03 | 7 | 1.84E-02 | 8 | 3.19E-02 | 9 | 8.07E-02 | 10 | 1.43E-01 |
| | | 11 | 2.70E-01 | 12 | 2.59E-01 | 13 | 2.10E-01 | 14 | 1.48E-01 | 15 | 1.50E-01 |
| | | 16 | 5.39E-02 | 17 | 1.54E-03 | -1 | | | | | |
| 103 | 621620 | 1 | 5.31E-04 | 2 | 2.66E-04 | 3 | 3.99E-04 | 4 | 6.64E-04 | 5 | 7.97E-04 |
| | | 6 | 2.76E-03 | 7 | 1.14E-02 | 8 | 1.96E-02 | 9 | 4.97E-02 | 10 | 8.83E-02 |
| | | 11 | 1.59E-01 | 12 | 1.17E-01 | 13 | 7.42E-02 | 14 | 4.05E-02 | 15 | 2.51E-02 |
| | | 16 | 3.88E-04 | -1 | | | | | | | |
| 103 | 631620 | 1 | 8.31E-04 | 2 | 4.15E-04 | 3 | 6.23E-04 | 4 | 1.04E-03 | 5 | 1.25E-03 |
| | | 6 | 4.31E-03 | 7 | 1.78E-02 | 8 | 3.07E-02 | 9 | 7.77E-02 | 10 | 1.38E-01 |
| | | 11 | 2.58E-01 | 12 | 2.32E-01 | 13 | 1.72E-01 | 14 | 1.08E-01 | 15 | 9.66E-02 |
| | | 16 | 2.32E-02 | -1 | | | | | | | |
| 103 | 641620 | 1 | 6.25E-02 | 2 | 2.39E-04 | 3 | 4.00E-02 | 4 | 3.89E-03 | 5 | 7.18E-04 |
| | | 6 | 2.48E-03 | 7 | 1.02E-02 | 8 | 7.43E-01 | 9 | 4.48E-02 | 10 | 7.95E-02 |
| | | 11 | 8.96E-02 | -1 | | | | | | | |
| 103 | 651620 | 1 | 9.30E-02 | 3 | 6.75E-02 | 4 | 1.02E-01 | 5 | 8.65E-02 | 7 | 9.72E-01 |
| | | 8 | 1.63E-05 | 9 | 3.58E-02 | 10 | 9.50E-01 | 11 | 8.47E-03 | 12 | 3.55E-03 |
| | | 13 | 7.37E-04 | -1 | | | | | | | |
| 103 | 621630 | 1 | 5.93E-04 | 2 | 2.96E-04 | 3 | 4.44E-04 | 4 | 7.41E-04 | 5 | 8.89E-04 |
| | | 6 | 3.07E-03 | 7 | 1.27E-02 | 8 | 2.19E-02 | 9 | 5.55E-02 | 10 | 9.84E-02 |
| | | 11 | 1.83E-01 | 12 | 1.62E-01 | 13 | 1.17E-01 | 14 | 7.04E-02 | 15 | 5.71E-02 |
| | | 16 | 1.09E-02 | -1 | | | | | | | |
| 103 | 631630 | 1 | 5.57E-04 | 2 | 2.78E-04 | 3 | 4.17E-04 | 4 | 6.96E-04 | 5 | 8.35E-04 |
| | | 6 | 2.89E-03 | 7 | 1.19E-02 | 8 | 2.06E-02 | 9 | 5.21E-02 | 10 | 9.24E-02 |
| | | 11 | 1.71E-01 | 12 | 1.41E-01 | 13 | 9.11E-02 | 14 | 5.27E-02 | 15 | 3.83E-02 |
| | | 16 | 4.18E-03 | -1 | | | | | | | |
| 103 | 641630 | 1 | 7.42E-04 | 2 | 3.71E-04 | 3 | 5.57E-04 | 4 | 9.28E-04 | 5 | 1.11E-03 |
| | | 6 | 3.85E-03 | 7 | 1.59E-02 | 8 | 2.74E-02 | 9 | 6.95E-02 | 10 | 1.23E-01 |
| | | 11 | 2.22E-01 | 12 | 1.51E-01 | 13 | 8.02E-02 | 14 | 2.93E-02 | 15 | 1.66E-03 |
| | | -1 | | | | | | | | | |

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| | | | | | | | | | | | |
|-----|--------|----|----------|----|----------|----|----------|----|----------|----|----------|
| 103 | 651630 | 1 | 4.80E-02 | 3 | 3.50E-02 | 4 | 5.29E-02 | 5 | 2.34E-02 | 6 | 5.02E-03 |
| | | 7 | 1.07E-01 | 8 | 1.07E+00 | 9 | 6.36E-01 | 10 | 2.25E-02 | -1 | |
| 103 | 621640 | 1 | 4.95E-04 | 2 | 2.47E-04 | 3 | 3.71E-04 | 4 | 6.19E-04 | 5 | 7.42E-04 |
| | | 6 | 2.57E-03 | 7 | 1.06E-02 | 8 | 1.83E-02 | 9 | 4.63E-02 | 10 | 8.22E-02 |
| | | 11 | 1.52E-01 | 12 | 1.25E-01 | 13 | 8.84E-02 | 14 | 5.45E-02 | 15 | 4.45E-02 |
| | | 16 | 8.62E-03 | -1 | | | | | | | |
| 103 | 631640 | 1 | 8.30E-04 | 2 | 4.15E-04 | 3 | 6.22E-04 | 4 | 1.04E-03 | 5 | 1.24E-03 |
| | | 6 | 4.31E-03 | 7 | 1.77E-02 | 8 | 3.07E-02 | 9 | 7.77E-02 | 10 | 1.38E-01 |
| | | 11 | 2.58E-01 | 12 | 2.36E-01 | 13 | 1.80E-01 | 14 | 1.18E-01 | 15 | 1.10E-01 |
| | | 16 | 3.05E-02 | -1 | | | | | | | |
| 103 | 641640 | 1 | 6.58E-04 | 2 | 3.29E-04 | 3 | 4.94E-04 | 4 | 8.23E-04 | 5 | 9.88E-04 |
| | | 6 | 3.42E-03 | 7 | 1.41E-02 | 8 | 2.43E-02 | 9 | 6.16E-02 | 10 | 1.09E-01 |
| | | 11 | 1.90E-01 | 12 | 1.08E-01 | 13 | 3.74E-02 | 14 | 6.55E-07 | -1 | |
| 103 | 651640 | 1 | 1.54E-01 | 3 | 1.14E-01 | 4 | 1.67E-01 | 5 | 9.54E-02 | 6 | 6.47E-02 |
| | | 7 | 7.74E-01 | 8 | 1.71E-01 | 9 | 9.42E-01 | 10 | 7.82E-01 | 11 | 4.70E-01 |
| | | 12 | 5.83E-02 | 13 | 4.05E-02 | 14 | 4.22E-02 | -1 | | | |
| 103 | 621650 | 1 | 6.51E-04 | 2 | 3.26E-04 | 3 | 4.88E-04 | 4 | 8.14E-04 | 5 | 9.77E-04 |
| | | 6 | 3.38E-03 | 7 | 1.39E-02 | 8 | 2.41E-02 | 9 | 6.10E-02 | 10 | 1.08E-01 |
| | | 11 | 2.03E-01 | 12 | 1.85E-01 | 13 | 1.43E-01 | 14 | 9.31E-02 | 15 | 8.49E-02 |
| | | 16 | 2.47E-02 | 17 | 7.82E-05 | -1 | | | | | |
| 103 | 631650 | 1 | 5.88E-04 | 2 | 2.94E-04 | 3 | 4.41E-04 | 4 | 7.35E-04 | 5 | 8.82E-04 |
| | | 6 | 3.05E-03 | 7 | 1.26E-02 | 8 | 2.17E-02 | 9 | 5.50E-02 | 10 | 9.77E-02 |
| | | 11 | 1.82E-01 | 12 | 1.64E-01 | 13 | 1.23E-01 | 14 | 7.56E-02 | 15 | 6.40E-02 |
| | | 16 | 1.52E-02 | -1 | | | | | | | |
| 103 | 641650 | 1 | 5.55E-04 | 2 | 2.78E-04 | 3 | 4.17E-04 | 4 | 6.94E-04 | 5 | 8.33E-04 |
| | | 6 | 2.88E-03 | 7 | 1.19E-02 | 8 | 2.05E-02 | 9 | 5.20E-02 | 10 | 9.22E-02 |
| | | 11 | 1.68E-01 | 12 | 1.24E-01 | 13 | 7.56E-02 | 14 | 3.92E-02 | 15 | 1.89E-02 |
| | | -1 | | | | | | | | | |
| 103 | 651650 | 4 | 5.63E-02 | 7 | 6.08E-02 | 9 | 1.43E-01 | 10 | 3.65E-02 | 11 | 4.03E-01 |
| | | 12 | 1.28E-01 | -1 | | | | | | | |
| 103 | 661650 | 1 | 2.20E-02 | 2 | 4.20E-05 | 3 | 3.70E-02 | 4 | 5.65E-02 | 5 | 3.60E-02 |
| | | 6 | 1.64E-04 | 7 | 5.22E-03 | 8 | 8.51E-03 | 9 | 1.26E-02 | 10 | 6.14E-03 |
| | | 11 | 1.26E-03 | -1 | | | | | | | |
| 103 | 661651 | 1 | 1.53E-01 | 3 | 3.87E-02 | 4 | 5.85E-02 | 6 | 3.00E-02 | 8 | 5.34E-03 |
| | | -1 | | | | | | | | | |
| 103 | 661660 | 1 | 1.95E-01 | 2 | 1.13E-02 | 3 | 2.02E-01 | 4 | 3.15E-01 | 5 | 1.38E-01 |
| | | 7 | 1.38E-04 | 8 | 1.16E-02 | -1 | | | | | |
| 103 | 671660 | 1 | 8.30E-02 | 3 | 4.30E-02 | 4 | 6.55E-02 | 5 | 6.71E-02 | 7 | 2.00E-05 |
| | | 9 | 1.94E-04 | 10 | 2.50E-04 | 11 | 9.31E-03 | 12 | 3.43E-03 | -1 | |
| 103 | 671661 | 1 | 2.09E-01 | 3 | 1.51E-01 | 4 | 2.31E-01 | 5 | 1.25E-01 | 6 | 5.64E-03 |
| | | 7 | 1.07E+00 | 8 | 1.80E-01 | 9 | 2.89E-01 | 10 | 1.43E+00 | 11 | 2.54E-02 |
| | | 12 | 1.60E-04 | -1 | | | | | | | |
| 103 | 681671 | 1 | 1.06E-01 | 3 | 7.51E-02 | 4 | 1.14E-01 | 7 | 4.17E-01 | -1 | |
| 103 | 681690 | 1 | 1.58E-03 | 4 | 1.30E-05 | 6 | 1.30E-05 | -1 | | | |
| 103 | 701690 | 1 | 5.13E-01 | 2 | 1.90E-03 | 3 | 2.66E-01 | 4 | 2.04E+00 | 5 | 2.61E-02 |
| | | 6 | 3.10E-01 | 7 | 5.98E-01 | 8 | 1.03E-01 | 9 | 1.06E-04 | 10 | 5.66E-08 |
| | | -1 | | | | | | | | | |
| 103 | 691700 | 1 | 3.13E-02 | 3 | 4.05E-04 | 4 | 3.45E-02 | 5 | 2.48E-02 | -1 | |
| 103 | 681710 | 1 | 1.46E-01 | 3 | 6.60E-02 | 4 | 3.95E-01 | 5 | 6.00E-04 | 6 | 3.19E-01 |
| | | 7 | 3.06E-01 | 8 | 6.48E-01 | 9 | 8.56E-03 | 10 | 1.85E-02 | 11 | 1.81E-04 |
| | | -1 | | | | | | | | | |
| 103 | 691710 | 1 | 3.60E-03 | 4 | 1.05E-02 | -1 | | | | | |
| 103 | 681720 | 1 | 9.20E-02 | 2 | 7.58E-05 | 3 | 4.61E-02 | 4 | 3.36E-01 | 5 | 1.30E-03 |
| | | 6 | 2.14E-02 | 7 | 1.73E-02 | 8 | 4.81E-01 | 9 | 1.38E-02 | 10 | 1.35E-04 |
| | | -1 | | | | | | | | | |
| 103 | 691720 | 1 | 1.08E-01 | 4 | 1.04E-01 | 5 | 6.56E-02 | 6 | 1.12E-03 | 7 | 2.79E-02 |
| | | 8 | 4.18E-03 | 9 | 5.87E-03 | 10 | 1.90E-02 | 11 | 2.15E-01 | 12 | 9.89E-02 |
| | | -1 | | | | | | | | | |

-1

Appendix B: Decay Data Library

The updated ORIGEN2 decay data library of FP nuclides is listed here.

| DECAY LIBRARY: FISSION PRODUCTS (2/8 J. KATAKURA) | | | | | | |
|---|--------|---|-----------|-----|-----------|-----------|
| 3 | 10030 | 1 | 3.897E+08 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.680E-03 | 0.0 |
| 3 | 30060 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 30070 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.500E+00 | 1.000E+00 |
| 3 | 40090 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.250E+01 | 1.000E+00 |
| 3 | 40100 | 1 | 5.049E+13 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.025E-01 | 0.0 |
| 3 | 60140 | 1 | 1.808E+11 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.947E-02 | 0.0 |
| 3 | 280660 | 1 | 1.966E+05 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.500E-02 | 0.0 |
| 3 | 290660 | 1 | 3.053E+02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.154E+00 | 0.0 |
| 3 | 300660 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.790E+01 | 1.000E+00 |
| 3 | 290670 | 1 | 2.226E+05 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.710E-01 | 0.0 |
| 3 | 300670 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.100E+00 | 1.000E+00 |
| 3 | 300680 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.878E+01 | 1.000E+00 |
| 3 | 300690 | 1 | 3.380E+03 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.214E-01 | 0.0 |
| 3 | 300691 | 1 | 4.954E+04 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.381E-01 | 0.0 |
| 3 | 310690 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.010E+01 | 1.000E+00 |
| 3 | 300700 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.200E-01 | 1.000E+00 |
| 3 | 310700 | 1 | 1.268E+03 | 0.0 | 4.100E-03 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.513E-01 | 0.0 |
| 3 | 320700 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.050E+01 | 1.000E+00 |
| 3 | 300710 | 1 | 1.470E+02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.363E+00 | 0.0 |
| 3 | 300711 | 1 | 1.426E+04 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.097E+00 | 0.0 |
| 3 | 310710 | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.990E+01 | 1.000E+00 |
| 3 | 320710 | 1 | 9.880E+05 | 0.0 | 1.000E+00 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.990E-03 | 0.0 |
| 3 | 320711 | 1 | 2.190E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.960E-01 | 0.0 |
| 3 | 270720 | 1 | 7.896E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.302E+00 | 0.0 |
| 3 | 280720 | 1 | 7.843E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.795E+00 | 0.0 |
| 3 | 290720 | 1 | 6.600E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.029E+00 | 0.0 |
| 3 | 300720 | 1 | 1.674E+05 | 0.0 | 0.0 | 0.0 |

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| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 0.0 | 2.551E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 310720 | 1 | 5.076E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.213E+00 | 0.0 | 6.000E-09 | 4.000E-05 |
| 3 | 320720 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.740E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 270730 | 1 | 5.985E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.698E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 280730 | 1 | 1.262E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.900E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 290730 | 1 | 3.900E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.757E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300730 | 1 | 2.350E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.714E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310730 | 1 | 1.750E+04 | 9.960E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.880E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 320730 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.800E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 320731 | 1 | 4.990E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 6.383E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 270740 | 1 | 3.735E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.059E+01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 280740 | 1 | 1.437E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.882E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 290740 | 1 | 4.985E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.717E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300740 | 1 | 9.500E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.437E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310740 | 1 | 4.870E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.020E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320740 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 3.650E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 270750 | 1 | 3.084E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.004E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 280750 | 1 | 1.647E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.043E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 290750 | 1 | 1.300E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.500E-02 | 3.778E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300750 | 1 | 1.020E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.553E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310750 | 1 | 1.260E+02 | 7.100E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.624E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320750 | 1 | 4.967E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.560E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320751 | 1 | 4.770E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 9.997E-01 |
| 3 | | | 0.0 | 0.0 | 1.339E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330750 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 | 1.000E+00 |
| 3 | 280760 | 1 | 1.257E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.906E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 290760 | 1 | 1.574E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.000E-02 | 6.617E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300760 | 1 | 5.700E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.152E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310760 | 1 | 3.260E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.600E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320760 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.800E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 330760 | 1 | 9.312E+04 | 0.0 | 2.000E-04 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.487E+00 | 0.0 | 3.000E-09 | 2.000E-05 |

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| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 340760 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 9.030E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 280770 | 1 | 6.503E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.569E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 290770 | 1 | 1.260E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.773E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300770 | 1 | 2.080E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.480E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310770 | 1 | 1.300E+01 | 1.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.832E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320770 | 1 | 4.068E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.721E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 320771 | 1 | 5.290E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.900E-01 |
| 3 | | | 0.0 | 0.0 | 1.090E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330770 | 1 | 1.398E+05 | 7.900E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.341E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 340770 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.600E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 340771 | 1 | 1.736E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.585E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 280780 | 1 | 5.058E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.806E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 290780 | 1 | 4.638E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.883E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300780 | 1 | 1.470E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.000E-05 | 3.890E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310780 | 1 | 5.090E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.140E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320780 | 1 | 5.280E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.050E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330780 | 1 | 5.442E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.570E+00 | 0.0 | 1.000E-08 | 8.000E-05 |
| 3 | 340780 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.350E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 290790 | 1 | 5.492E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.679E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300790 | 1 | 9.950E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.200E-02 | 5.933E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310790 | 1 | 2.847E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.000E-03 | 4.530E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320790 | 1 | 1.910E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.117E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330790 | 1 | 5.410E+02 | 9.790E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.728E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340790 | 1 | 2.051E+13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.580E-02 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 340791 | 1 | 2.352E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 9.700E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350790 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.069E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 350791 | 1 | 4.860E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.068E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 290800 | 1 | 4.129E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.914E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300800 | 1 | 5.450E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.370E-02 | 4.300E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310800 | 1 | 1.697E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 8.600E-03 | 6.670E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320800 | 1 | 2.950E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 0.0 | 1.435E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330800 | 1 | 1.520E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.730E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340800 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.980E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 350800 | 1 | 1.061E+03 | 0.0 | 8.300E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.986E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350801 | 1 | 1.591E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 8.370E-02 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 360800 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.250E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 290810 | 1 | 2.198E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.283E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300810 | 1 | 2.671E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.745E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310810 | 1 | 1.221E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.220E-01 | 4.480E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320810 | 1 | 7.600E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.630E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330810 | 1 | 3.330E+01 | 8.900E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.806E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340810 | 1 | 1.107E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.190E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340811 | 1 | 3.437E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 9.995E-01 |
| 3 | | | 0.0 | 0.0 | 1.022E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350810 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.931E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 360810 | 1 | 7.200E+12 | 0.0 | 1.000E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.203E-02 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 360811 | 1 | 1.310E+01 | 0.0 | 2.500E-05 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.873E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 300820 | 1 | 3.571E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.415E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310820 | 1 | 6.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.190E-01 | 7.927E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320820 | 1 | 4.600E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.214E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330820 | 1 | 1.910E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.002E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330821 | 1 | 1.360E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.610E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340820 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 9.200E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 350820 | 1 | 1.271E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.785E+00 | 0.0 | 6.000E-09 | 4.000E-05 |
| 3 | 350821 | 1 | 3.680E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 9.760E-01 |
| 3 | | | 0.0 | 0.0 | 7.226E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360820 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.160E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 300830 | 1 | 3.284E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.055E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310830 | 1 | 3.100E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.400E-01 | 7.624E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320830 | 1 | 1.850E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.000E-05 | 5.133E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330830 | 1 | 1.330E+01 | 6.340E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.007E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340830 | 1 | 1.340E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.110E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 340831 | 1 | 7.010E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.255E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350830 | 1 | 8.640E+03 | 9.998E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.320E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 360830 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.150E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 360831 | 1 | 6.590E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 4.187E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 310840 | 1 | 2.216E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.900E-01 | 8.861E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320840 | 1 | 1.200E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.900E-02 | 5.006E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330840 | 1 | 5.500E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 8.500E-04 | 5.982E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340840 | 1 | 1.860E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.560E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350840 | 1 | 1.908E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.000E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350841 | 1 | 3.600E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.680E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360840 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.700E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 310850 | 1 | 3.283E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.814E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 320850 | 1 | 7.758E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.200E-01 | 6.212E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330850 | 1 | 2.080E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 5.000E-01 | 5.841E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340850 | 1 | 3.170E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.784E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340851 | 1 | 1.900E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.494E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350850 | 1 | 1.740E+02 | 9.982E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.107E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360850 | 1 | 3.394E+08 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.529E-01 | 0.0 | 3.000E-07 | 1.000E+00 |
| 3 | 360851 | 1 | 1.613E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 2.140E-01 |
| 3 | | | 0.0 | 0.0 | 4.121E-01 | 0.0 | 1.000E-07 | 1.000E+00 |
| 3 | 370850 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.217E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 320860 | 1 | 7.569E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.300E-01 | 5.998E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330860 | 1 | 9.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.200E-01 | 7.095E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340860 | 1 | 1.530E+01 | 5.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.730E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350860 | 1 | 5.500E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.200E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350861 | 1 | 4.500E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.752E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360860 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.730E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 370860 | 1 | 1.610E+06 | 0.0 | 5.200E-05 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.612E-01 | 0.0 | 2.000E-09 | 2.000E-05 |
| 3 | 370861 | 1 | 6.102E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 5.557E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380860 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.840E+00 | 1.000E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 320870 | 1 | 7.462E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 2.400E-01 | 7.118E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330870 | 1 | 7.300E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.200E-01 | 6.913E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340870 | 1 | 5.850E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.800E-03 | 4.723E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350870 | 1 | 5.569E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.580E-02 | 4.860E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360870 | 1 | 4.580E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.121E+00 | 0.0 | 2.000E-08 | 1.000E+00 |
| 3 | 370870 | 1 | 1.499E+18 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.170E-02 | 2.783E+01 | 2.000E-09 | 1.000E-04 |
| 3 | 380870 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.000E+00 | 1.000E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 380871 | 1 | 1.009E+04 | 0.0 | 3.000E-03 | 0.0 | 0.0 | 9.970E-01 |
| 3 | | | 0.0 | 0.0 | 3.860E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 320880 | 1 | 3.149E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.009E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330880 | 1 | 1.599E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.000E-01 | 7.973E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340880 | 1 | 1.530E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.400E-03 | 4.247E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350880 | 1 | 1.650E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.350E-02 | 5.830E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360880 | 1 | 1.022E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.320E+00 | 0.0 | 2.000E-08 | 1.000E+00 |
| 3 | 370880 | 1 | 1.067E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.707E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380880 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.260E+01 | 1.000E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 330890 | 1 | 4.822E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.920E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340890 | 1 | 4.100E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 7.500E-02 | 5.020E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350890 | 1 | 4.400E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.420E-01 | 5.141E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360890 | 1 | 1.890E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.313E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370890 | 1 | 9.090E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.130E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380890 | 1 | 4.366E+06 | 1.500E-04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.846E-01 | 0.0 | 3.000E-10 | 3.000E-06 |
| 3 | 390890 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 | 1.000E+00 |
| 3 | 390891 | 1 | 1.606E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 9.088E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 330900 | 1 | 3.672E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.977E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340900 | 1 | 1.456E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 7.200E-02 | 5.537E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350900 | 1 | 1.920E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.490E-01 | 5.804E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360900 | 1 | 3.232E+01 | 1.220E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.690E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370900 | 1 | 1.580E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.156E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370901 | 1 | 2.580E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 2.600E-02 |
| 3 | | | 0.0 | 0.0 | 4.683E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380900 | 1 | 9.070E+08 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.958E-01 | 0.0 | 3.000E-11 | 3.000E-07 |

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| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 390900 | 1 | 2.308E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.338E-01 | 0.0 | 3.000E-09 | 2.000E-05 |
| 3 | 390901 | 1 | 1.148E+04 | 1.880E-03 | 0.0 | 0.0 | 0.0 | 9.981E-01 |
| 3 | | | 0.0 | 0.0 | 6.862E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 400900 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.150E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 400901 | 1 | 8.092E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.300E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 340910 | 1 | 2.700E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.200E-01 | 6.911E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350910 | 1 | 5.420E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.830E-01 | 5.556E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360910 | 1 | 8.570E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.950E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370910 | 1 | 5.840E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.840E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380910 | 1 | 3.467E+04 | 8.900E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.350E+00 | 0.0 | 9.000E-09 | 5.000E-05 |
| 3 | 390910 | 1 | 5.055E+06 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.070E-01 | 0.0 | 1.000E-09 | 3.000E-05 |
| 3 | 390911 | 1 | 2.983E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 5.547E-01 | 0.0 | 6.000E-07 | 3.000E-03 |
| 3 | 400910 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.120E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 340920 | 1 | 6.857E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.350E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350920 | 1 | 3.620E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.200E-01 | 7.205E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360920 | 1 | 1.840E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.200E-04 | 3.400E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370920 | 1 | 4.492E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.000E-04 | 4.019E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380920 | 1 | 9.760E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.520E+00 | 0.0 | 1.000E-08 | 6.000E-05 |
| 3 | 390920 | 1 | 1.274E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.692E+00 | 0.0 | 1.000E-08 | 6.000E-05 |
| 3 | 400920 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.710E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 340930 | 1 | 5.465E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.259E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350930 | 1 | 2.975E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.400E-01 | 7.226E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360930 | 1 | 1.286E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.930E-02 | 4.777E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370930 | 1 | 5.840E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.360E-02 | 4.414E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380930 | 1 | 4.454E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.000E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 390930 | 1 | 3.660E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.263E+00 | 0.0 | 5.000E-09 | 3.000E-05 |
| 3 | 400930 | 1 | 4.800E+13 | 9.500E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.920E-02 | 0.0 | 4.000E-09 | 8.000E-04 |
| 3 | 410930 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 | 1.000E+00 |
| 3 | 410931 | 1 | 5.090E+08 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.876E-02 | 0.0 | 4.000E-09 | 4.000E-04 |
| 3 | 350940 | 1 | 2.435E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.680E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360940 | 1 | 2.080E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 6.100E-02 | 4.427E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370940 | 1 | 2.702E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.020E-01 | 6.376E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380940 | 1 | 7.520E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.306E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 390940 | 1 | 1.122E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.580E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 400940 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.740E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 410940 | 1 | 6.400E+11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.701E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 410941 | 1 | 3.756E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 9.950E-01 |
| 3 | | | 0.0 | 0.0 | 4.300E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 350950 | 1 | 5.425E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.306E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360950 | 1 | 7.800E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.200E-01 | 6.410E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370950 | 1 | 3.775E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 8.590E-02 | 4.989E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380950 | 1 | 2.390E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.745E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 390950 | 1 | 6.180E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.550E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 400950 | 1 | 5.531E+06 | 9.000E-03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.504E-01 | 0.0 | 1.000E-09 | 6.000E-05 |
| 3 | 410950 | 1 | 3.022E+06 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.091E-01 | 0.0 | 3.000E-09 | 1.000E-04 |
| 3 | 410951 | 1 | 3.120E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 9.440E-01 |
| 3 | | | 0.0 | 0.0 | 2.756E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 420950 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.590E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 350960 | 1 | 4.924E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.291E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 360960 | 1 | 1.338E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.100E-01 | 4.639E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370960 | 1 | 1.990E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.420E-01 | 6.744E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380960 | 1 | 1.060E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.324E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 390960 | 1 | 5.340E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.862E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 400960 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.800E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 410960 | 1 | 8.406E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.710E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 420960 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.670E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 360970 | 1 | 1.164E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.827E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370970 | 1 | 1.699E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.690E-01 | 5.901E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380970 | 1 | 4.260E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.000E-05 | 4.295E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 390970 | 1 | 3.750E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.100E-04 | 3.823E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 400970 | 1 | 6.088E+04 | 9.500E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.890E-01 | 0.0 | 3.000E-09 | 2.000E-05 |
| 3 | 410970 | 1 | 4.330E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.133E+00 | 0.0 | 2.000E-07 | 9.000E-04 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 410971 | 1 | 5.270E+01 | 0.0 | 0.0 | 0.0 | 1.000E+00 | |
| 3 | | | 0.0 | 0.0 | 7.427E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 420970 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 9.600E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 360980 | 1 | 7.168E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.343E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 370980 | 1 | 1.140E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.340E-01 | 6.634E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380980 | 1 | 6.530E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.200E-03 | 3.190E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 390980 | 1 | 5.480E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.100E-03 | 5.082E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 400980 | 1 | 3.070E+01 | 1.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.071E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 410980 | 1 | 2.860E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.483E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 410981 | 1 | 3.078E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.575E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 420980 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.410E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 370990 | 1 | 5.900E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.310E-01 | 6.320E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 380990 | 1 | 2.700E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.300E-03 | 5.306E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 390990 | 1 | 1.470E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.600E-03 | 3.522E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 400990 | 1 | 2.100E+00 | 3.600E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.554E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 410990 | 1 | 1.500E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.896E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 410991 | 1 | 1.560E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 3.900E-02 |
| 3 | | | 0.0 | 0.0 | 2.898E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 420990 | 1 | 2.374E+05 | 8.700E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.425E-01 | 0.0 | 7.000E-09 | 4.000E-05 |
| 3 | 430990 | 1 | 6.660E+12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.460E-02 | 0.0 | 2.000E-09 | 2.000E-04 |
| 3 | 430991 | 1 | 2.164E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.416E-01 | 0.0 | 5.000E-07 | 3.000E-03 |
| 3 | 440990 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.270E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 371000 | 1 | 1.747E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.000E-02 | 8.950E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 381000 | 1 | 2.020E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 7.300E-03 | 3.806E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 391000 | 1 | 7.350E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 8.100E-03 | 5.931E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401000 | 1 | 7.100E+00 | 2.000E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.812E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411000 | 1 | 1.500E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.190E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411001 | 1 | 2.990E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.893E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421000 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 9.600E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 431000 | 1 | 1.580E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.398E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441000 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.260E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 371010 | 1 | 3.200E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 3.100E-01 | 7.161E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 381010 | 1 | 1.180E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.370E-02 | 6.462E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 391010 | 1 | 4.500E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.940E-02 | 4.214E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401010 | 1 | 2.300E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.291E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411010 | 1 | 7.100E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.406E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421010 | 1 | 8.766E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.034E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431010 | 1 | 8.520E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.160E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441010 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.700E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 381020 | 1 | 6.900E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.800E-02 | 4.595E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 391020 | 1 | 9.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.000E-02 | 6.919E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401020 | 1 | 2.900E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.987E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411020 | 1 | 1.300E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.293E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421020 | 1 | 6.780E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.963E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431020 | 1 | 5.280E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.613E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431021 | 1 | 2.610E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 2.000E-02 |
| 3 | | | 0.0 | 0.0 | 3.300E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441020 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 3.160E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 381030 | 1 | 6.909E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.643E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 391030 | 1 | 1.005E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.900E-01 | 5.015E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401030 | 1 | 1.300E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.924E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411030 | 1 | 1.500E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.000E-04 | 3.093E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421030 | 1 | 6.750E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.250E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431030 | 1 | 5.420E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.257E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441030 | 1 | 3.392E+06 | 9.975E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.626E-01 | 0.0 | 3.000E-09 | 8.000E-05 |
| 3 | 451030 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 | 1.000E+00 |
| 3 | 451031 | 1 | 3.367E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 3.672E-02 | 0.0 | 2.000E-06 | 1.000E-02 |
| 3 | 381040 | 1 | 3.961E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.282E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 391040 | 1 | 1.567E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.244E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401040 | 1 | 1.200E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.000E-04 | 2.636E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411040 | 1 | 4.800E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.600E-03 | 5.886E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421040 | 1 | 6.000E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.208E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 431040 | 1 | 1.104E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.643E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441040 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.870E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 451040 | 1 | 4.230E+01 | 0.0 | 4.500E-03 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.971E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451041 | 1 | 2.600E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 9.987E-01 |
| 3 | | | 0.0 | 0.0 | 1.271E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461040 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.100E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 391050 | 1 | 6.786E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.697E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401050 | 1 | 1.931E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.300E-03 | 4.426E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411050 | 1 | 2.800E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.500E-02 | 3.903E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421050 | 1 | 3.560E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.356E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431050 | 1 | 4.580E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.100E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441050 | 1 | 1.598E+04 | 2.850E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.151E+00 | 0.0 | 2.000E-08 | 1.000E-04 |
| 3 | 451050 | 1 | 1.273E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.308E-01 | 0.0 | 2.000E-08 | 1.000E-04 |
| 3 | 451051 | 1 | 4.000E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.286E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461050 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.220E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 391060 | 1 | 6.177E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.000E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401060 | 1 | 2.297E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.229E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411060 | 1 | 1.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.700E-02 | 5.862E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421060 | 1 | 8.400E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.978E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431060 | 1 | 3.600E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.625E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441060 | 1 | 3.228E+07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.003E-02 | 0.0 | 2.000E-10 | 1.000E-05 |
| 3 | 451060 | 1 | 2.980E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.617E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451061 | 1 | 7.860E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.210E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 461060 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.730E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 391070 | 1 | 3.426E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.468E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 401070 | 1 | 1.493E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.183E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411070 | 1 | 1.454E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.100E-02 | 4.631E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421070 | 1 | 3.500E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.710E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431070 | 1 | 2.120E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.583E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441070 | 1 | 2.250E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.676E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451070 | 1 | 1.302E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 0.0 | 7.430E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461070 | 1 | 2.050E+14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.300E-03 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 461071 | 1 | 2.130E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.145E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471070 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.183E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 401080 | 1 | 8.685E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.906E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411080 | 1 | 6.405E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.695E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421080 | 1 | 1.090E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.746E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431080 | 1 | 5.170E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.253E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441080 | 1 | 2.730E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.210E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451080 | 1 | 1.680E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.640E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451081 | 1 | 3.600E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.354E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461080 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.670E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 471080 | 1 | 1.422E+02 | 0.0 | 2.850E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.247E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471081 | 1 | 1.320E+10 | 0.0 | 9.130E-01 | 0.0 | 0.0 | 8.700E-02 |
| 3 | | | 0.0 | 0.0 | 2.148E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 481080 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 8.900E-01 | 1.000E+00 | 1.000E+00 |
| 3 | 401090 | 1 | 5.784E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.090E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411090 | 1 | 7.014E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.421E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421090 | 1 | 1.722E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 7.000E-04 | 4.551E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431090 | 1 | 1.400E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.600E-03 | 3.243E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441090 | 1 | 3.450E+01 | 5.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.700E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451090 | 1 | 8.000E+01 | 5.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.226E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451091 | 1 | 5.000E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.500E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461090 | 1 | 4.932E+04 | 9.995E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.614E-01 | 0.0 | 1.000E-08 | 7.000E-05 |
| 3 | 461091 | 1 | 2.814E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.883E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471090 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.817E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 471091 | 1 | 3.960E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 6.062E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481090 | 1 | 3.999E+07 | 0.0 | 1.000E+00 | 1.000E+00 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.024E-02 | 0.0 | 2.000E-09 | 4.000E-05 |
| 3 | 411100 | 1 | 3.233E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.672E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421100 | 1 | 2.018E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.351E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431100 | 1 | 9.200E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.700E-03 | 5.202E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 441100 | 1 | 1.460E+01 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 3 | | | 0.0 | 0.0 | 1.255E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451100 | 1 | 3.200E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.181E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451101 | 1 | 2.850E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.520E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461100 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.180E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 471100 | 1 | 2.460E+01 | 0.0 | 3.000E-03 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.209E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471101 | 1 | 2.158E+07 | 0.0 | 0.0 | 0.0 | 0.0 | 1.360E-02 |
| 3 | | | 0.0 | 0.0 | 2.788E+00 | 0.0 | 3.000E-10 | 3.000E-05 |
| 3 | 481100 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.250E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 411110 | 1 | 1.033E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.967E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421110 | 1 | 2.860E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.511E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431110 | 1 | 2.841E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.400E-02 | 3.987E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441110 | 1 | 2.120E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.829E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451110 | 1 | 1.100E+01 | 4.000E-03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.976E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461110 | 1 | 1.404E+03 | 9.930E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.788E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461111 | 1 | 1.980E+04 | 2.244E-01 | 0.0 | 0.0 | 0.0 | 7.300E-01 |
| 3 | | | 0.0 | 0.0 | 5.497E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 471110 | 1 | 6.437E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.774E-01 | 0.0 | 8.000E-09 | 4.000E-05 |
| 3 | 471111 | 1 | 6.480E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 9.930E-01 |
| 3 | | | 0.0 | 0.0 | 2.072E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481110 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.280E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 481111 | 1 | 2.916E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 3.890E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 411120 | 1 | 6.306E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.364E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 421120 | 1 | 2.297E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.906E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431120 | 1 | 9.852E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.130E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441120 | 1 | 3.600E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.839E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451120 | 1 | 3.800E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.633E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461120 | 1 | 7.571E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.513E-02 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 471120 | 1 | 1.127E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.110E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 481120 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.411E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 421130 | 1 | 1.249E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.232E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431130 | 1 | 1.562E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.554E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441130 | 1 | 8.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.665E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451130 | 1 | 2.720E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|--------|-----|-----------|-----------|-----------|-----------|-----------|
| 3 | | 0.0 | 0.0 | 2.549E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461130 | 1 | 9.300E+01 | 1.000E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.700E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471130 | 1 | 1.933E+04 | 1.600E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 8.329E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 471131 | 1 | 6.900E+01 | 4.500E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.332E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481130 | 6 | 2.900E+23 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 9.330E-02 | 1.220E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 481131 | 1 | 4.450E+08 | 0.0 | 0.0 | 0.0 | 1.400E-03 |
| 3 | | 0.0 | 0.0 | 1.855E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 491130 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.300E+00 | 1.000E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 491131 | 1 | 5.970E+03 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | 0.0 | 0.0 | 3.907E-01 | 0.0 | 2.000E-07 | 1.000E-03 |
| 3 | 421140 | 1 | 1.062E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.503E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431140 | 1 | 2.150E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.835E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441140 | 1 | 5.300E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.317E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451140 | 1 | 1.850E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.495E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461140 | 1 | 1.450E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.179E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471140 | 1 | 4.600E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.409E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481140 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.870E+01 | 1.000E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 491140 | 1 | 7.190E+01 | 0.0 | 5.000E-03 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 7.763E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491141 | 1 | 4.278E+06 | 0.0 | 3.250E-02 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.235E-01 | 0.0 | 7.000E-10 | 2.000E-05 |
| 3 | 501140 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.700E-01 | 1.000E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 421150 | 1 | 6.478E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.596E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 431150 | 1 | 1.943E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.157E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441150 | 1 | 2.120E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.344E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451150 | 1 | 9.900E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 1.500E-03 | 3.075E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461150 | 1 | 3.740E+01 | 2.700E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.596E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471150 | 1 | 1.200E+03 | 5.300E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.560E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471151 | 1 | 1.800E+01 | 3.500E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.498E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481150 | 1 | 1.925E+05 | 1.000E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.120E-01 | 0.0 | 6.000E-09 | 3.000E-05 |
| 3 | 481151 | 1 | 3.850E+06 | 7.000E-05 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.381E-01 | 0.0 | 1.000E-09 | 3.000E-05 |
| 3 | 491150 | 1 | 1.390E+22 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.520E-01 | 9.570E+01 | 1.000E-09 | 9.000E-05 |
| 3 | 491151 | 1 | 1.615E+04 | 0.0 | 0.0 | 0.0 | 9.500E-01 |
| 3 | | 0.0 | 0.0 | 3.370E-01 | 0.0 | 6.000E-08 | 4.000E-04 |
| 3 | 501150 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 0.0 | 3.800E-01 | 1.000E+00 | 1.000E+00 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 431160 | 1 | 1.138E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.188E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441160 | 1 | 5.065E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.829E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451160 | 1 | 6.800E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.400E-03 | 5.187E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461160 | 1 | 1.180E+01 | 5.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.266E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471160 | 1 | 1.608E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.068E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471161 | 1 | 8.600E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 6.000E-02 |
| 3 | | | 0.0 | 0.0 | 4.061E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481160 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.500E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 491160 | 1 | 1.410E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.383E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491161 | 1 | 3.265E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.780E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501160 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.470E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 431170 | 1 | 8.680E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.563E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441170 | 1 | 2.645E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.723E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451170 | 1 | 1.700E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.500E-02 | 3.648E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461170 | 1 | 5.000E+00 | 5.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.002E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471170 | 1 | 7.280E+01 | 1.720E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.400E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471171 | 1 | 5.340E+00 | 1.372E-01 | 0.0 | 0.0 | 0.0 | 6.000E-02 |
| 3 | | | 0.0 | 0.0 | 2.305E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481170 | 1 | 8.960E+03 | 9.150E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.510E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 481171 | 1 | 1.210E+04 | 1.500E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.246E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 491170 | 1 | 2.590E+03 | 1.500E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.540E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491171 | 1 | 6.970E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 4.710E-01 |
| 3 | | | 0.0 | 0.0 | 3.580E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501170 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.750E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 501171 | 1 | 1.175E+06 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 3.135E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 431180 | 1 | 5.685E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.712E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 441180 | 1 | 2.126E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.212E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451180 | 1 | 5.326E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.588E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461180 | 1 | 1.900E+00 | 5.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.759E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471180 | 1 | 3.760E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.149E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471181 | 1 | 2.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 4.100E-01 |
| 3 | | | 0.0 | 0.0 | 2.980E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481180 | 1 | 3.018E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.644E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491180 | 1 | 5.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|--------|-----|-----------|-----------|-----------|-----------|-----------|
| 3 | | 0.0 | 0.0 | 1.957E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491181 | 1 | 2.670E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.390E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501180 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.430E+01 | 1.000E+00 | 1.000E+00 | |
| 3 | 441190 | 1 | 1.204E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.231E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451190 | 1 | 4.508E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.074E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461190 | 1 | 5.957E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.448E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471190 | 1 | 2.100E+00 | 2.520E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.181E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481190 | 1 | 1.614E+02 | 9.050E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.450E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481191 | 1 | 1.320E+02 | 2.100E-03 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.000E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491190 | 1 | 1.440E+02 | 1.000E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.350E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491191 | 1 | 1.080E+03 | 0.0 | 0.0 | 0.0 | 5.600E-02 |
| 3 | | 0.0 | 0.0 | 1.101E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501190 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 8.600E+00 | 1.000E+00 | 1.000E+00 | |
| 3 | 501191 | 1 | 2.532E+07 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | 0.0 | 0.0 | 8.976E-02 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 441200 | 1 | 1.089E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.627E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 451200 | 1 | 2.116E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.098E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461200 | 1 | 1.524E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.157E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471200 | 1 | 1.230E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.168E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481200 | 1 | 5.080E+01 | 5.000E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 7.347E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491200 | 1 | 3.080E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.855E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491201 | 1 | 4.730E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.040E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501200 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.240E+01 | 1.000E+00 | 1.000E+00 | |
| 3 | 451210 | 1 | 1.857E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.523E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461210 | 1 | 5.661E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.973E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471210 | 1 | 7.800E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 7.600E-04 | 3.739E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481210 | 1 | 1.350E+01 | 1.000E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.970E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491210 | 1 | 2.310E+01 | 1.100E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.054E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491211 | 1 | 2.328E+02 | 0.0 | 0.0 | 0.0 | 1.200E-02 |
| 3 | | 0.0 | 0.0 | 1.566E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501210 | 1 | 9.742E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.152E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 501211 | 1 | 1.740E+09 | 0.0 | 0.0 | 0.0 | 7.760E-01 |
| 3 | | 0.0 | 0.0 | 3.873E-02 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 511210 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.730E+01 | 1.000E+00 | 1.000E+00 | |

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| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 451220 | 1 | 1.052E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.440E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461220 | 1 | 4.555E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.571E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471220 | 1 | 4.800E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.860E-03 | 5.559E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481220 | 1 | 5.240E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.252E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491220 | 1 | 1.500E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.772E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491221 | 1 | 1.030E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.380E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501220 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.600E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 511220 | 1 | 2.353E+05 | 0.0 | 2.410E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.005E+00 | 0.0 | 5.000E-09 | 3.000E-05 |
| 3 | 511221 | 1 | 2.515E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 8.319E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521220 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.500E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 451230 | 1 | 9.304E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.050E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 461230 | 1 | 2.556E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.354E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471230 | 1 | 3.100E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 5.500E-03 | 4.499E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481230 | 1 | 2.100E+00 | 6.900E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.790E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491230 | 1 | 5.980E+00 | 9.680E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.460E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491231 | 1 | 4.780E+01 | 1.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.098E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501230 | 1 | 1.116E+07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.297E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 501231 | 1 | 2.404E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.192E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511230 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.270E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 521230 | 1 | 3.156E+20 | 0.0 | 1.000E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.261E-03 | 8.890E-01 | 1.000E-10 | 3.000E-06 |
| 3 | 521231 | 1 | 1.034E+07 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.514E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 461240 | 1 | 1.912E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.053E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471240 | 1 | 1.700E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.800E-03 | 5.712E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481240 | 1 | 1.240E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.709E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491240 | 1 | 3.170E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.412E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501240 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.600E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 511240 | 1 | 5.201E+06 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.236E+00 | 0.0 | 7.000E-10 | 2.000E-05 |
| 3 | 511241 | 1 | 9.300E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 7.500E-01 |
| 3 | | | 0.0 | 0.0 | 5.540E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521240 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.620E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 461250 | 1 | 1.131E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|--------|-----|-----------|-----------|-----------|-----------|-----------|
| 3 | | 0.0 | 0.0 | 4.763E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471250 | 1 | 1.767E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 4.200E-02 | 4.406E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481250 | 1 | 6.500E-01 | 5.100E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.400E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491250 | 1 | 2.360E+00 | 8.900E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.010E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491251 | 1 | 1.220E+01 | 1.000E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.769E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501250 | 1 | 8.330E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.130E+00 | 0.0 | 3.000E-09 | 2.000E-05 |
| 3 | 501251 | 1 | 5.710E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.152E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511250 | 1 | 8.704E+07 | 3.500E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.355E-01 | 0.0 | 9.000E-10 | 1.000E-04 |
| 3 | 521250 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 0.0 | 7.000E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 521251 | 1 | 4.959E+06 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | 0.0 | 0.0 | 1.416E-01 | 0.0 | 4.000E-09 | 1.000E-04 |
| 3 | 461260 | 1 | 7.873E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.635E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 471260 | 1 | 1.031E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.434E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481260 | 1 | 5.060E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.211E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491260 | 1 | 1.600E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.210E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501260 | 1 | 3.156E+12 | 1.000E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.620E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 511260 | 1 | 1.077E+06 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.130E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 511261 | 1 | 1.149E+03 | 0.0 | 0.0 | 0.0 | 1.400E-01 |
| 3 | | 0.0 | 0.0 | 2.202E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521260 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 0.0 | 1.870E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 471270 | 1 | 9.026E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.068E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481270 | 1 | 4.101E+00 | 5.000E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.074E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491270 | 1 | 1.090E+00 | 8.400E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 6.700E-03 | 3.843E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491271 | 1 | 3.670E+00 | 9.930E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 7.000E-03 | 3.918E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501270 | 1 | 7.560E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.480E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 501271 | 1 | 2.478E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.777E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511270 | 1 | 3.330E+05 | 1.390E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.006E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 521270 | 1 | 3.370E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.290E-01 | 0.0 | 3.000E-08 | 2.000E-04 |
| 3 | 521271 | 1 | 9.420E+06 | 0.0 | 0.0 | 0.0 | 9.760E-01 |
| 3 | | 0.0 | 0.0 | 8.681E-02 | 0.0 | 1.000E-09 | 5.000E-05 |
| 3 | 531270 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 | 1.000E+00 |
| 3 | 471280 | 1 | 5.358E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.898E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 481280 | 1 | 9.400E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.834E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 491280 | 1 | 8.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.000E-04 | 5.880E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501280 | 1 | 3.550E+03 | 1.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.500E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511280 | 1 | 3.244E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.520E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 511281 | 1 | 6.240E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 3.600E-02 |
| 3 | | | 0.0 | 0.0 | 2.811E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521280 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 3.170E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 531280 | 1 | 1.499E+03 | 0.0 | 6.900E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.280E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541280 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.910E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 481290 | 1 | 2.258E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.000E-04 | 4.532E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491290 | 1 | 6.300E-01 | 1.200E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.600E-03 | 4.630E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501290 | 1 | 1.338E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.298E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501291 | 1 | 4.140E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 2.000E-06 |
| 3 | | | 0.0 | 0.0 | 2.899E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511290 | 1 | 1.584E+04 | 9.600E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.857E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 521290 | 1 | 4.176E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.951E-01 | 0.0 | 1.000E-07 | 8.000E-04 |
| 3 | 521291 | 1 | 2.903E+06 | 0.0 | 0.0 | 0.0 | 0.0 | 6.400E-01 |
| 3 | | | 0.0 | 0.0 | 3.064E-01 | 0.0 | 1.000E-09 | 2.000E-05 |
| 3 | 531290 | 1 | 4.950E+14 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.372E-02 | 0.0 | 2.000E-11 | 6.000E-08 |
| 3 | 541290 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.640E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 541291 | 1 | 7.681E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.331E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 481300 | 1 | 1.447E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.483E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491300 | 1 | 3.200E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.430E-02 | 5.793E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501300 | 1 | 2.232E+02 | 1.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.330E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511300 | 1 | 2.370E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.970E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511301 | 1 | 3.780E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.700E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521300 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 3.450E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 531300 | 1 | 4.450E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.432E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 531301 | 1 | 5.400E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 8.400E-01 |
| 3 | | | 0.0 | 0.0 | 2.848E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541300 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.100E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 481310 | 1 | 2.720E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.785E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491310 | 1 | 2.800E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.760E-02 | 5.017E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501310 | 1 | 3.900E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.658E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511310 | 1 | 1.382E+03 | 1.160E-01 | 0.0 | 0.0 | 0.0 | 0.0 |

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| | | | | | | | |
|---|--------|-----|-----------|-----------|-----------|-----------|-----------|
| 3 | | 0.0 | 0.0 | 2.520E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521310 | 1 | 1.500E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.132E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521311 | 1 | 1.080E+05 | 0.0 | 0.0 | 0.0 | 2.220E-01 |
| 3 | | 0.0 | 0.0 | 1.633E+00 | 0.0 | 6.000E-09 | 4.000E-05 |
| 3 | 531310 | 1 | 6.930E+05 | 1.100E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.756E-01 | 0.0 | 1.000E-10 | 3.000E-07 |
| 3 | 541310 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 0.0 | 2.120E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 541311 | 1 | 1.023E+06 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | 0.0 | 0.0 | 1.620E-01 | 0.0 | 4.000E-07 | 1.000E+00 |
| 3 | 481320 | 1 | 1.866E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.302E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 491320 | 1 | 2.010E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 4.300E-02 | 8.344E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501320 | 1 | 3.970E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.000E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511320 | 1 | 1.670E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.850E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511321 | 1 | 2.460E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.910E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521320 | 1 | 2.768E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.350E-01 | 0.0 | 4.000E-09 | 2.000E-05 |
| 3 | 531320 | 1 | 8.260E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.755E+00 | 0.0 | 3.000E-09 | 8.000E-06 |
| 3 | 541320 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 0.0 | 2.690E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 551320 | 1 | 5.598E+05 | 0.0 | 9.813E-01 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 7.277E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 491330 | 1 | 2.240E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 4.600E-01 | 7.180E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501330 | 1 | 1.440E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 1.300E-03 | 4.271E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511330 | 1 | 1.500E+02 | 1.730E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.400E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521330 | 1 | 7.500E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.905E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521331 | 1 | 3.324E+03 | 9.068E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.228E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531330 | 1 | 7.490E+04 | 2.880E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.021E+00 | 0.0 | 4.000E-10 | 1.000E-06 |
| 3 | 531331 | 1 | 9.000E+00 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | 0.0 | 0.0 | 1.630E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541330 | 1 | 4.530E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.831E-01 | 0.0 | 3.000E-07 | 1.000E+00 |
| 3 | 541331 | 1 | 1.892E+05 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | 0.0 | 0.0 | 2.318E-01 | 0.0 | 3.000E-07 | 1.000E+00 |
| 3 | 551330 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 | 1.000E+00 |
| 3 | 491340 | 1 | 2.137E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 8.691E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 501340 | 1 | 1.120E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 1.700E-01 | 3.778E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511340 | 1 | 7.800E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.037E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511341 | 1 | 1.023E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 1.170E-03 | 5.010E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521340 | 1 | 2.510E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.108E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 531340 | 1 | 3.150E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.223E+00 | 0.0 | 6.000E-09 | 2.000E-05 |
| 3 | 531341 | 1 | 2.160E+02 | 2.300E-02 | 0.0 | 0.0 | 0.0 | 9.770E-01 |
| 3 | | | 0.0 | 0.0 | 3.746E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541340 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.040E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 541341 | 1 | 2.900E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.909E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551340 | 1 | 6.516E+07 | 0.0 | 3.000E-06 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.719E+00 | 0.0 | 4.000E-10 | 9.000E-06 |
| 3 | 551341 | 1 | 1.045E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.349E-01 | 0.0 | 2.000E-07 | 1.000E-03 |
| 3 | 561340 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.400E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 501350 | 1 | 1.878E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 7.900E-02 | 5.037E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511350 | 1 | 1.710E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.080E-01 | 4.270E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521350 | 1 | 1.900E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.562E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531350 | 1 | 2.365E+04 | 1.657E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.950E+00 | 0.0 | 1.000E-09 | 4.000E-06 |
| 3 | 541350 | 1 | 3.290E+04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.630E-01 | 0.0 | 1.000E-07 | 1.000E+00 |
| 3 | 541351 | 1 | 9.170E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 5.070E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551350 | 1 | 7.300E+13 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.630E-02 | 0.0 | 3.000E-09 | 1.000E-04 |
| 3 | 551351 | 1 | 3.180E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.630E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561350 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 6.590E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 561351 | 1 | 1.033E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.798E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 501360 | 1 | 8.621E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.041E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511360 | 1 | 8.200E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.300E-01 | 5.558E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521360 | 1 | 1.750E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.100E-02 | 3.350E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531360 | 1 | 8.340E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.340E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531361 | 1 | 4.690E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.816E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541360 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 8.900E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 551360 | 1 | 1.137E+06 | 1.600E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.275E+00 | 0.0 | 6.000E-09 | 6.000E-05 |
| 3 | 561360 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.900E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 561361 | 1 | 3.084E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.032E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511370 | 1 | 1.399E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.000E-01 | 4.962E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521370 | 1 | 2.490E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.700E-02 | 3.782E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531370 | 1 | 2.450E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 7.100E-02 | 3.025E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541370 | 1 | 2.291E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 0.0 | 1.891E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551370 | 1 | 9.489E+08 | 9.470E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.879E-01 | 0.0 | 5.000E-10 | 2.000E-05 |
| 3 | 561370 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.120E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 561371 | 1 | 1.531E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 5.992E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 511380 | 1 | 1.606E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.608E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521380 | 1 | 1.400E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.700E-02 | 3.014E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531380 | 1 | 6.490E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 5.500E-02 | 4.150E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541380 | 1 | 8.450E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.766E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551380 | 1 | 2.005E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.610E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551381 | 1 | 1.740E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 8.100E-01 |
| 3 | | | 0.0 | 0.0 | 1.037E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561380 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.170E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 571380 | 1 | 3.310E+18 | 0.0 | 6.640E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.267E+00 | 8.900E-02 | 1.000E-10 | 3.000E-06 |
| 3 | 511390 | 1 | 7.419E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.592E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 521390 | 1 | 3.428E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.900E-02 | 4.727E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531390 | 1 | 2.290E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.900E-02 | 3.383E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541390 | 1 | 3.968E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.806E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551390 | 1 | 5.560E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.990E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561390 | 1 | 4.984E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.440E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571390 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 9.991E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 521400 | 1 | 1.741E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 6.700E-02 | 3.611E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531400 | 1 | 8.600E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.400E-02 | 5.090E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541400 | 1 | 1.360E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.507E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551400 | 1 | 6.370E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.968E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561400 | 1 | 1.102E+06 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.921E-01 | 0.0 | 1.000E-09 | 2.000E-05 |
| 3 | 571400 | 1 | 1.450E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.826E+00 | 0.0 | 4.000E-09 | 2.000E-05 |
| 3 | 581400 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 8.848E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 521410 | 1 | 1.725E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.256E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 531410 | 1 | 4.300E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.170E-01 | 4.204E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541410 | 1 | 1.730E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.100E-04 | 3.074E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551410 | 1 | 2.494E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.400E-04 | 2.937E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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|---|--------|---|-----------|-----------|-----------|-----------|-----------|
| 3 | 561410 | 1 | 1.096E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.870E+00 | 0.0 | 3.000E-08 |
| 3 | 571410 | 1 | 1.411E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.898E-01 | 0.0 | 1.000E-10 |
| 3 | 581410 | 1 | 2.808E+06 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.468E-01 | 0.0 | 5.000E-09 |
| 3 | 591410 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 |
| 3 | 521420 | 1 | 9.909E-02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.888E+00 | 0.0 | 3.000E-08 |
| 3 | 531420 | 1 | 2.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.300E-01 | 5.895E+00 | 0.0 | 3.000E-08 |
| 3 | 541420 | 1 | 1.240E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.900E-03 | 2.980E+00 | 0.0 | 3.000E-08 |
| 3 | 551420 | 1 | 1.700E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 9.600E-04 | 4.236E+00 | 0.0 | 3.000E-08 |
| 3 | 561420 | 1 | 6.360E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.423E+00 | 0.0 | 3.000E-08 |
| 3 | 571420 | 1 | 5.470E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.236E+00 | 0.0 | 3.000E-08 |
| 3 | 581420 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.108E+01 | 2.000E-14 |
| 3 | 591420 | 1 | 6.883E+04 | 0.0 | 1.640E-04 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.670E-01 | 0.0 | 5.000E-09 |
| 3 | 591421 | 1 | 8.760E+02 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 3.683E-03 | 0.0 | 3.000E-08 |
| 3 | 601420 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.720E+01 | 1.000E+00 |
| 3 | 531430 | 1 | 2.187E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.627E+00 | 0.0 | 3.000E-08 |
| 3 | 541430 | 1 | 3.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 8.900E-03 | 4.130E+00 | 0.0 | 3.000E-08 |
| 3 | 551430 | 1 | 1.770E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.620E-02 | 3.152E+00 | 0.0 | 3.000E-08 |
| 3 | 561430 | 1 | 1.433E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.290E+00 | 0.0 | 3.000E-08 |
| 3 | 571430 | 1 | 8.480E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.463E+00 | 0.0 | 3.000E-08 |
| 3 | 581430 | 1 | 1.192E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.080E-01 | 0.0 | 7.000E-09 |
| 3 | 591430 | 1 | 1.173E+06 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.153E-01 | 0.0 | 6.000E-09 |
| 3 | 601430 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.220E+01 | 1.000E+00 |
| 3 | 531440 | 1 | 1.846E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.967E+00 | 0.0 | 3.000E-08 |
| 3 | 541440 | 1 | 1.150E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.100E-02 | 2.529E+00 | 0.0 | 3.000E-08 |
| 3 | 551440 | 1 | 1.002E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.170E-02 | 4.842E+00 | 0.0 | 3.000E-08 |
| 3 | 561440 | 1 | 1.150E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.651E+00 | 0.0 | 3.000E-08 |
| 3 | 571440 | 1 | 4.080E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.710E+00 | 0.0 | 3.000E-08 |
| 3 | 581440 | 1 | 2.462E+07 | 1.510E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.110E-01 | 0.0 | 2.000E-10 |
| 3 | 591440 | 1 | 1.037E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.237E+00 | 0.0 | 3.000E-08 |
| 3 | 591441 | 1 | 4.320E+02 | 0.0 | 0.0 | 0.0 | 9.993E-01 |

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| | | | | | | | |
|---|--------|-----|-----------|-----------|-----------|-----------|-----------|
| 3 | | 0.0 | 0.0 | 5.771E-02 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601440 | 1 | 7.200E+22 | 0.0 | 0.0 | 1.000E+00 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.900E+00 | 2.380E+01 | 3.000E-12 | 7.000E-05 |
| 3 | 531450 | 1 | 1.112E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.810E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 541450 | 1 | 9.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.118E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551450 | 1 | 5.940E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 1.380E-01 | 3.457E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561450 | 1 | 4.310E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.029E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571450 | 1 | 2.480E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.727E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581450 | 1 | 1.810E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.578E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591450 | 1 | 2.154E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.756E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 601450 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 8.300E+00 | 1.000E+00 | 1.000E+00 | |
| 3 | 541460 | 1 | 2.052E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.057E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551460 | 1 | 3.350E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 1.340E-01 | 4.822E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561460 | 1 | 2.220E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.008E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571460 | 1 | 6.270E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.842E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581460 | 1 | 8.110E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 5.360E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591460 | 1 | 1.449E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.330E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601460 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.720E+01 | 1.000E+00 | 1.000E+00 | |
| 3 | 541470 | 1 | 2.104E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.592E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 551470 | 1 | 2.250E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 4.300E-01 | 3.981E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561470 | 1 | 8.930E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.159E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571470 | 1 | 4.015E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 3.300E-04 | 2.568E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581470 | 1 | 5.640E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.940E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591470 | 1 | 8.040E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.300E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601470 | 1 | 9.487E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.090E-01 | 0.0 | 8.000E-09 | 6.000E-05 |
| 3 | 611470 | 1 | 8.279E+07 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 6.196E-02 | 0.0 | 2.000E-09 | 2.000E-04 |
| 3 | 621470 | 1 | 3.350E+18 | 0.0 | 0.0 | 1.000E+00 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.290E+00 | 1.510E+01 | 2.000E-12 | 6.000E-05 |
| 3 | 551480 | 1 | 1.700E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 8.000E-02 | 5.423E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561480 | 1 | 6.100E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.178E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571480 | 1 | 1.050E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 1.300E-03 | 3.406E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581480 | 1 | 5.600E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 9.960E-01 | 0.0 | 3.000E-08 | 1.000E+00 |

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| | | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 3 | 591480 | 1 | 1.362E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.921E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601480 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.700E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 611480 | 1 | 4.640E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.300E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 611481 | 1 | 3.567E+06 | 0.0 | 0.0 | 0.0 | 0.0 | 4.600E-02 |
| 3 | | | 0.0 | 0.0 | 2.146E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 621480 | 1 | 2.200E+23 | 0.0 | 0.0 | 0.0 | 1.000E+00 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.000E+00 | 1.130E+01 | 2.000E-14 | 3.000E-08 |
| 3 | 551490 | 1 | 9.869E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.911E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561490 | 1 | 7.000E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 4.300E-03 | 3.536E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571490 | 1 | 1.200E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.170E-02 | 2.870E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581490 | 1 | 5.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.220E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591490 | 1 | 1.360E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.569E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601490 | 1 | 6.221E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.730E-01 | 0.0 | 5.000E-08 | 3.000E-04 |
| 3 | 611490 | 1 | 1.911E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.619E-01 | 0.0 | 8.000E-09 | 4.000E-05 |
| 3 | 621490 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.390E+01 | 2.000E-14 | 3.000E-08 |
| 3 | 551500 | 1 | 9.205E-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.082E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 561500 | 1 | 2.052E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.081E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571500 | 1 | 6.756E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 3.600E-04 | 4.584E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581500 | 1 | 4.800E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.129E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591500 | 1 | 6.190E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.976E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601500 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.600E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 611500 | 1 | 9.650E+03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.200E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 621500 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 7.400E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 561510 | 1 | 1.998E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.434E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571510 | 1 | 7.134E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 2.100E-02 | 3.803E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581510 | 1 | 1.020E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.317E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591510 | 1 | 1.890E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.935E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601510 | 1 | 7.460E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.484E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 611510 | 1 | 1.022E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.290E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 621510 | 1 | 2.800E+09 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.964E-02 | 0.0 | 2.000E-09 | 4.000E-04 |
| 3 | 631510 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 4.790E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 561520 | 1 | 1.033E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|--------|---|-----------|-----|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 0.0 | 3.914E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 571520 | 1 | 5.346E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.240E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581520 | 1 | 1.863E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.944E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591520 | 1 | 3.240E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.668E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601520 | 1 | 6.840E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.500E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 611520 | 1 | 2.460E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.550E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 611521 | 1 | 4.510E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.320E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 621520 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.660E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 631520 | 1 | 4.274E+08 | 0.0 | 7.208E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.286E+00 | 0.0 | 4.000E-10 | 8.000E-05 |
| 3 | 631521 | 1 | 3.339E+04 | 0.0 | 2.800E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 8.149E-01 | 0.0 | 1.000E-08 | 6.000E-05 |
| 3 | 641520 | 1 | 3.400E+21 | 0.0 | 0.0 | 0.0 | 1.000E+00 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.200E+00 | 2.000E-01 | 2.000E-14 | 3.000E-08 |
| 3 | 571530 | 1 | 2.357E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.683E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581530 | 1 | 1.185E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.805E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591530 | 1 | 1.313E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.727E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601530 | 1 | 3.200E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.783E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 611530 | 1 | 3.240E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.794E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 621530 | 1 | 1.666E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.090E-01 | 0.0 | 1.000E-08 | 8.000E-05 |
| 3 | 631530 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 5.210E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 641530 | 1 | 2.087E+07 | 0.0 | 1.000E+00 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.151E-02 | 0.0 | 3.000E-09 | 2.000E-04 |
| 3 | 571540 | 1 | 1.938E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.814E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581540 | 1 | 4.671E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.653E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 591540 | 1 | 2.300E+00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.287E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 601540 | 1 | 2.590E+01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.215E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 611540 | 1 | 1.040E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.650E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 611541 | 1 | 1.610E+02 | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E-01 |
| 3 | | | 0.0 | 0.0 | 2.647E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 621540 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.260E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 631540 | 1 | 2.710E+08 | 0.0 | 2.000E-04 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.522E+00 | 0.0 | 1.000E-10 | 2.000E-05 |
| 3 | 641540 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.100E+00 | 1.000E+00 | 1.000E+00 |
| 3 | 571550 | 1 | 1.005E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.515E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 581550 | 1 | 4.282E-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.586E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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| | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|
| 3 | 591550 | 1 | 7.724E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 1.000E-02 | 3.551E+00 | 0.0 | 3.000E-08 |
| 3 | 601550 | 1 | 8.900E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.200E+00 | 0.0 | 3.000E-08 |
| 3 | 611550 | 1 | 4.800E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.653E+00 | 0.0 | 3.000E-08 |
| 3 | 621550 | 1 | 1.338E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.709E-01 | 0.0 | 3.000E-08 |
| 3 | 631550 | 1 | 1.502E+08 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.241E-01 | 0.0 | 3.000E-09 |
| 3 | 641551 | 1 | 3.100E-02 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 1.215E-01 | 0.0 | 3.000E-08 |
| 3 | 641550 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.480E+01 | 1.000E+00 |
| 3 | 581560 | 1 | 1.795E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.289E+00 | 0.0 | 3.000E-08 |
| 3 | 591560 | 1 | 9.786E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.837E+00 | 0.0 | 3.000E-08 |
| 3 | 601560 | 1 | 2.039E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.888E+00 | 0.0 | 3.000E-08 |
| 3 | 611560 | 1 | 6.188E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.208E+00 | 0.0 | 3.000E-08 |
| 3 | 621560 | 1 | 3.380E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.360E-01 | 0.0 | 1.000E-10 |
| 3 | 631560 | 1 | 1.312E+06 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.691E+00 | 0.0 | 1.000E-10 |
| 3 | 641560 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.060E+01 | 1.000E+00 |
| 3 | 581570 | 1 | 1.793E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.520E+00 | 0.0 | 3.000E-08 |
| 3 | 591570 | 1 | 4.702E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.268E+00 | 0.0 | 3.000E-08 |
| 3 | 601570 | 1 | 2.722E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.808E+00 | 0.0 | 3.000E-08 |
| 3 | 611570 | 1 | 2.769E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.292E+00 | 0.0 | 3.000E-08 |
| 3 | 621570 | 1 | 4.820E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.309E+00 | 0.0 | 3.000E-08 |
| 3 | 631570 | 1 | 5.465E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 6.810E-01 | 0.0 | 1.000E-10 |
| 3 | 641570 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.570E+01 | 1.000E+00 |
| 3 | 591580 | 1 | 4.237E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.707E+00 | 0.0 | 3.000E-08 |
| 3 | 601580 | 1 | 8.623E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.513E+00 | 0.0 | 3.000E-08 |
| 3 | 611580 | 1 | 2.327E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.733E+00 | 0.0 | 3.000E-08 |
| 3 | 621580 | 1 | 3.306E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 9.633E-01 | 0.0 | 3.000E-08 |
| 3 | 631580 | 1 | 2.754E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.044E+00 | 0.0 | 3.000E-08 |
| 3 | 641580 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.480E+01 | 1.000E+00 |
| 3 | 591590 | 1 | 2.201E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 5.111E+00 | 0.0 | 3.000E-08 |
| 3 | 601590 | 1 | 7.945E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.729E+00 | 0.0 | 3.000E-08 |
| 3 | 611590 | 1 | 3.081E+00 | 0.0 | 0.0 | 0.0 | 0.0 |

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| | | | | | | | |
|---|--------|-----|-----------|-----------|-----------|-----------|-----------|
| 3 | | 0.0 | 0.0 | 2.942E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 621590 | 1 | 8.812E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.965E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 631590 | 1 | 1.122E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.278E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 641590 | 1 | 6.680E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.640E-01 | 0.0 | 1.000E-08 | 8.000E-05 |
| 3 | 651590 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 | 1.000E+00 | |
| 3 | 601600 | 1 | 2.942E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.306E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 611600 | 1 | 2.454E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.469E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 621600 | 1 | 6.324E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.536E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 631600 | 1 | 3.800E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.709E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 641600 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.180E+01 | 1.000E+00 | 1.000E+00 | |
| 3 | 651600 | 1 | 6.247E+06 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.385E+00 | 0.0 | 1.000E-09 | 4.000E-05 |
| 3 | 661600 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.340E+00 | 1.000E+00 | 1.000E+00 | |
| 3 | 601610 | 1 | 2.585E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.039E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 611610 | 1 | 8.630E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.804E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 621610 | 1 | 6.718E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.645E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 631610 | 1 | 2.480E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.012E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 641610 | 1 | 2.200E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 9.732E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 651610 | 1 | 5.940E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.326E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 661610 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.900E+01 | 1.000E+00 | 1.000E+00 | |
| 3 | 611620 | 1 | 5.829E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 4.699E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 621620 | 1 | 2.685E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.261E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 631620 | 1 | 3.243E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.421E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 641620 | 1 | 5.040E+02 | 2.000E-02 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 8.232E-01 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 651620 | 1 | 4.560E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.646E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 651621 | 1 | 8.028E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.832E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 661620 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.550E+01 | 1.000E+00 | 1.000E+00 | |
| 3 | 621630 | 1 | 1.977E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 3.003E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 631630 | 1 | 6.018E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 2.613E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 641630 | 1 | 6.800E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.820E+00 | 0.0 | 3.000E-08 | 1.000E+00 |
| 3 | 651630 | 1 | 1.170E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | 0.0 | 0.0 | 1.124E+00 | 0.0 | 3.000E-08 | 1.000E+00 |

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| | | | | | | | |
|---|--------|---|-----------|-----------|-----------|-----------|-----------|
| 3 | 651631 | 2 | 7.000E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.490E-01 | 0.0 | 3.000E-08 |
| 3 | 661630 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.490E+01 | 1.000E+00 |
| 3 | 621640 | 1 | 8.210E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.852E+00 | 0.0 | 3.000E-08 |
| 3 | 631640 | 1 | 3.457E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.710E+00 | 0.0 | 3.000E-08 |
| 3 | 641640 | 1 | 1.096E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.365E+00 | 0.0 | 3.000E-08 |
| 3 | 651640 | 1 | 1.800E+02 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.010E+00 | 0.0 | 3.000E-08 |
| 3 | 661640 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.810E+01 | 1.000E+00 |
| 3 | 621650 | 1 | 6.500E-01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.654E+00 | 0.0 | 3.000E-08 |
| 3 | 631650 | 1 | 1.587E+00 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.237E+00 | 0.0 | 3.000E-08 |
| 3 | 641650 | 1 | 1.595E+01 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.111E+00 | 0.0 | 3.000E-08 |
| 3 | 651650 | 1 | 1.270E+02 | 7.300E-01 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.748E+00 | 0.0 | 3.000E-08 |
| 3 | 661650 | 1 | 8.402E+03 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.743E-01 | 0.0 | 7.000E-08 |
| 3 | 661651 | 1 | 7.540E+01 | 0.0 | 0.0 | 0.0 | 9.776E-01 |
| 3 | | | 0.0 | 0.0 | 1.121E-01 | 0.0 | 3.000E-08 |
| 3 | 671650 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 |
| 3 | 661660 | 1 | 2.938E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.068E-01 | 0.0 | 7.000E-09 |
| 3 | 671660 | 1 | 9.648E+04 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 7.252E-01 | 0.0 | 6.000E-09 |
| 3 | 671661 | 1 | 3.800E+10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.770E+00 | 0.0 | 1.000E-10 |
| 3 | 681660 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 3.340E+01 | 1.000E+00 |
| 3 | 681670 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.290E+01 | 1.000E+00 |
| 3 | 681671 | 1 | 2.269E+00 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | | | 0.0 | 0.0 | 2.059E-01 | 0.0 | 3.000E-08 |
| 3 | 681680 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.710E+01 | 1.000E+00 |
| 3 | 701680 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.400E-01 | 1.000E+00 |
| 3 | 681690 | 1 | 8.122E+05 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.030E-01 | 0.0 | 1.000E-08 |
| 3 | 691690 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.000E+02 | 1.000E+00 |
| 3 | 701690 | 1 | 2.767E+06 | 0.0 | 1.000E+00 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 4.292E-01 | 0.0 | 1.000E-10 |
| 3 | 681700 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.490E+01 | 1.000E+00 |
| 3 | 691700 | 1 | 1.111E+07 | 0.0 | 1.310E-03 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.322E-01 | 0.0 | 1.000E-09 |
| 3 | 691701 | 1 | 4.100E-06 | 0.0 | 0.0 | 0.0 | 5.000E-05 |
| 3 | | | 0.0 | 0.0 | 0.0 | 0.0 | 1.000E+00 |
| 3 | 701700 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 3.000E-08 |
| 3 | | | 0.0 | 0.0 | 0.0 | 3.140E+00 | 1.000E+00 |
| 3 | 681710 | 1 | 2.706E+04 | 0.0 | 0.0 | 0.0 | 0.0 |

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| | | | | | | | | |
|----|--------|---|-----------|-----|-----------|-----------|-----------|-----------|
| 3 | | | 0.0 | 0.0 | 7.900E-01 | 0.0 | 2.000E-08 | 1.000E-04 |
| 3 | 691710 | 1 | 6.060E+07 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 2.601E-02 | 0.0 | 4.000E-09 | 5.000E-04 |
| 3 | 701710 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 1.440E+01 | 1.000E+00 | 1.000E+00 |
| 3 | 681720 | 1 | 1.775E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 3.560E-01 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 691720 | 1 | 2.290E+05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 1.004E+00 | 0.0 | 1.000E-10 | 3.000E-06 |
| 3 | 701720 | 6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | | | 0.0 | 0.0 | 0.0 | 2.190E+01 | 1.000E+00 | 1.000E+00 |
| -1 | | | | | | | | |

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国際単位系(SI)と換算表

表1 SI基本単位および補助単位

| 量 | 名称 | 記号 |
|-------|--------|-----|
| 長さ | メートル | m |
| 質量 | キログラム | kg |
| 時間 | 秒 | s |
| 電流 | アンペア | A |
| 熱力学温度 | ケルビン | K |
| 物質量 | モル | mol |
| 光度 | カンデラ | cd |
| 平面角 | ラジアン | rad |
| 立体角 | ステラジアン | sr |

表3 固有の名称をもつSI組立単位

| 量 | 名称 | 記号 | 他のSI単位による表現 |
|-------------|--------|----|---------------------|
| 周波数 | ヘルツ | Hz | s ⁻¹ |
| 力 | ニュートン | N | m·kg/s ² |
| 圧力、応力 | パスカル | Pa | N/m ² |
| エネルギー、仕事、熱量 | ジュール | J | N·m |
| 功率、放射束 | ワット | W | J/s |
| 電気量、電荷 | クーロン | C | A·s |
| 電位、電圧、起電力 | ボルト | V | W/A |
| 静電容量 | ファラード | F | C/V |
| 電気抵抗 | オーム | Ω | V/A |
| コンダクタンス | ジーメンス | S | A/V |
| 磁束 | ウェーバ | Wb | V·s |
| 磁束密度 | テスラ | T | Wb/m ² |
| インダクタンス | ヘンリー | H | Wb/A |
| セルシウス温度 | セルシウス度 | °C | |
| 光束度 | ルーメン | lm | cd·sr |
| 照度 | ルクス | lx | lm/m ² |
| 放射能 | ベクレル | Bq | s ⁻¹ |
| 吸収線量 | グレイ | Gy | J/kg |
| 線量当量 | シーベルト | Sv | J/kg |

表2 SIと併用される単位

| 名称 | 記号 |
|--------|-----------|
| 分、時、日 | min, h, d |
| 度、分、秒 | °, ', " |
| リットル | L, l |
| トントン | t |
| 電子ボルト | eV |
| 原子質量単位 | u |

$$1 \text{ eV} = 1.60218 \times 10^{-19} \text{ J}$$

$$1 \text{ u} = 1.66054 \times 10^{-27} \text{ kg}$$

表4 SIと共に暫定的に維持される単位

| 名称 | 記号 |
|----------|-----|
| オングストローム | Å |
| バーン | b |
| バルル | bar |
| ガル | Gal |
| キュリ | Ci |
| レンゲン | R |
| ラド | rad |
| レム | rem |

$$1 \text{ Å} = 0.1 \text{ nm} = 10^{-10} \text{ m}$$

$$1 \text{ b} = 100 \text{ fm}^2 = 10^{-28} \text{ m}^2$$

$$1 \text{ bar} = 0.1 \text{ MPa} = 10^5 \text{ Pa}$$

$$1 \text{ Gal} = 1 \text{ cm/s}^2 = 10^{-2} \text{ m/s}^2$$

$$1 \text{ Ci} = 3.7 \times 10^{10} \text{ Bq}$$

$$1 \text{ R} = 2.58 \times 10^{-4} \text{ C/kg}$$

$$1 \text{ rad} = 1 \text{ cGy} = 10^{-2} \text{ Gy}$$

$$1 \text{ rem} = 1 \text{ cSv} = 10^{-2} \text{ Sv}$$

表5 SI接頭語

| 倍数 | 接頭語 | 記号 |
|-------------------|------|----|
| 10 ¹⁸ | エクサ | E |
| 10 ¹⁵ | ペタ | P |
| 10 ¹² | テラ | T |
| 10 ⁹ | ギガ | G |
| 10 ⁶ | メガ | M |
| 10 ³ | キロ | k |
| 10 ² | ヘクト | h |
| 10 ¹ | デカ | da |
| 10 ⁻¹ | デシ | d |
| 10 ⁻² | センチ | c |
| 10 ⁻³ | ミリ | m |
| 10 ⁻⁶ | マイクロ | μ |
| 10 ⁻⁹ | ナノ | n |
| 10 ⁻¹² | ピコ | p |
| 10 ⁻¹⁵ | フェムト | f |
| 10 ⁻¹⁸ | アト | a |

(注)

- 表1～5は「国際単位系」第5版、国際度量衡局1985年刊行による。ただし、1eVおよび1uの値はCODATAの1986年推奨値によった。
- 表4には海里、ノット、アール、ヘクタールも含まれているが日常の単位なのでここでは省略した。
- barは、JISでは流体の圧力を表わす場合に限り表2のカテゴリーに分類されている。
- EC関係理事会指令ではbar、barnおよび「血圧の単位」mmHgを表2のカテゴリーに入れている。

換算表

| 力 | N(=10 ⁵ dyn) | kgf | lbf |
|---|-------------------------|----------|----------|
| | 1 | 0.101972 | 0.224809 |
| | 9.80665 | 1 | 2.20462 |
| | 4.44822 | 0.453592 | 1 |

$$\text{粘度 } 1 \text{ Pa}\cdot\text{s} (\text{N}\cdot\text{s}/\text{m}^2) = 10 \text{ P} (\text{ポアズ}) (\text{g}/(\text{cm}\cdot\text{s}))$$

$$\text{動粘度 } 1 \text{ m}^2/\text{s} = 10^4 \text{ St} (\text{ストークス}) (\text{cm}^2/\text{s})$$

| 圧力 | MPa(=10 bar) | kgf/cm ² | atm | mmHg(Torr) | lbf/in ² (psi) |
|----|----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|
| 力 | 1 | 10.1972 | 9.86923 | 7.50062 × 10 ³ | 145.038 |
| | 0.0980665 | 1 | 0.967841 | 735.559 | 14.2233 |
| | 0.101325 | 1.03323 | 1 | 760 | 14.6959 |
| | 1.33322 × 10 ⁻⁴ | 1.35951 × 10 ⁻³ | 1.31579 × 10 ⁻³ | 1 | 1.93368 × 10 ⁻² |
| | 6.89476 × 10 ⁻³ | 7.03070 × 10 ⁻² | 6.80460 × 10 ⁻² | 51.7149 | 1 |

| エネルギー・仕事・熱量 | J(=10 ⁷ erg) | kgf·m | | kW·h | | cal(計量法) | Btu | ft · lbf | eV | 1 cal = 4.18605 J (計量法) | |
|-------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------|----|-------------------------|--|
| | | 1 | 0.101972 | 2.77778 × 10 ⁻⁷ | 0.238889 | | | | | = 4.184 J (熱化学) | |
| | 9.80665 | 1 | 2.72407 × 10 ⁻⁶ | 2.34270 | 9.29487 × 10 ⁻³ | 7.23301 | 6.12082 × 10 ¹⁹ | | | = 4.1855 J (15 °C) | |
| | 3.6 × 10 ⁶ | 3.67098 × 10 ⁵ | 1 | 8.59999 × 10 ⁵ | 3412.13 | 2.65522 × 10 ⁶ | 2.24694 × 10 ²⁵ | | | = 4.1868 J (国際蒸気表) | |
| | 4.18605 | 0.426858 | 1.16279 × 10 ⁻⁶ | 1 | 3.96759 × 10 ⁻³ | 3.08747 | 2.61272 × 10 ¹⁹ | | | 仕事率 1 PS (仏馬力) | |
| | 1055.06 | 107.586 | 2.93072 × 10 ⁻⁴ | 252.042 | 1 | 778.172 | 6.58515 × 10 ²¹ | | | = 75 kgf·m/s | |
| | 1.35582 | 0.138255 | 3.76616 × 10 ⁻⁷ | 0.323890 | 1.28506 × 10 ⁻³ | 1 | 8.46233 × 10 ¹⁸ | | | = 735.499 W | |
| | 1.60218 × 10 ⁻¹⁹ | 1.63377 × 10 ⁻²⁰ | 4.45050 × 10 ⁻²⁶ | 3.82743 × 10 ⁻²⁰ | 1.51857 × 10 ⁻²² | 1.18171 × 10 ⁻¹⁹ | 1 | | | | |

| 放射能 | Bq | Ci | | 吸収線量 | Gy | rad |
|-----|------------------------|----|-----------------------------|------|----|-----|
| | | 1 | 2.70270 × 10 ⁻¹¹ | | | |
| | 3.7 × 10 ¹⁰ | 1 | | 0.01 | 1 | |

| 照射線量 | C/kg | R | 吸収線量 | 1 | |
|------|------|---|-------------------------|---|------|
| | | | | 1 | 3876 |
| | | | 2.58 × 10 ⁻⁴ | 1 | |

| 線量当量 | Sv | rem | 吸収線量 | 1 | |
|------|----|-----|------|---|-----|
| | | | | 1 | 100 |
| | | | 0.01 | 1 | |

(86年12月26日現在)

Photon and Decay Data Libraries for ORIGEN2 Code Based on JENDL FP Decay Data File 2000

R100
古紙配合率100%
白色度70%再生紙を使用しています