DSC 0848

ULYSSES
1-SEC AVG HI RES INTERPL MAG
FIELD

90-090B-08D
1990 – 06/27/04

SPHE-00866

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## 1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

***When printing, special settings may be required to make the text box appear on the printed output.***

| Version | Date | Person | Page | Description of Change |
|---|---|---|---|---|
| 01 | | | | |
| 02 | | | | |

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

http://nssdc.gsfc.nasa.gov/nmc/

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/

b. Core Catalog Materials

UYLSSES

1-SEC AVG HI RES INTERPL MAG FIELD

90-090B-08D SPHE-00866

This dataset has been ingest to CD-ROM Write Once. The data was downloaded from /raid/ftp/spacecraft_data/Ulysses_mag/interplanetary/second data is written in ASCII format. KD numbers along with the time spans are as follows:

| | |
|---|---|
| KD021946 | 01/01/1990 - 05/23/1991 |
| KD021947 | 05/24/1991 - 12/31/1991 |
| KD021948 | 01/01/1992 - 07/31/1992 |
| KD021949 | 08/01/1992 - 12/31/1992 |
| KD021950 | 01/01/1993 - 06/30/1993 |
| KD021951 | 07/01/1993 - 12/31/1993 |
| KD021952 | 01/01/1994 - 07/31/1994 |
| KD021953 | 08/01/1994 - 12/31/1994 |
| KD021954 | 01/01/1995 - 05/31/1995 |
| KD021955 | 06/01/1995 - 10/31/1995 |
| KD021956 | 11/01/1995 - 05/23/1996 |
| KD021957 | 05/24/1996 - 10/31/1996 |
| KD021958 | 11/01/1996 - 05/23/1997 |
| KD021959 | 05/24/1997 - 10/31/1997 |
| KD021960 | 11/01/1997 - 04/30/1998 |
| KD021961 | 05/01/1998 - 10/31/1998 |
| KD021962 | 11/01/1998 - 04/30/1999 |
| KD021963 | 05/01/1999 - 10/31/1999 |
| KD021964 | 11/01/1999 - 04/30/2000 |
| KD021965 | 05/01/2000 - 10/31/2000 |
| KD021966 | 11/01/2000 - 03/31/2001 |
| KD021967 | 04/01/2001 - 07/31/2001 |
| KD021968 | 08/01/2001 - 12/31/2001 |
| KD021969 | 01/01/2002 - 06/30/2002 |
| KD021970 | 07/01/2002 - 12/31/2002 |
| KD021971 | 01/01/2003 - 06/30/2003 |
| KD021972 | 07/01/2003 - 12/31/2003 |
| KD021973 | 01/01/2004 - 06/27/2004 |
| KD023222 | 06/28/2004 - 12/31/2004 |

ULYSSES HIGH

RESOLUTION INTERPLANETARY CRUISE MAGNETIC FIELD DATA

Data Set Coverage

(yyy-mm-dd): 1990-10-25 to 1991-12-31

Satellite: Ulysses

Experiment: Ulysses Magnetic

Field

Principal Investigator: Dr. A. Balogh, Imperial College, London, UK

Data Set

Contact: Joyce Wolf, NASA Jet Propulsion Laboratory

Data Set Description:

This data set

contains high resolution samples at about one-second
intervals of the interplanetary

magnetic field measured by the Ulysses
Magnetic Field experiment. Field vector components

are given in units of
nanoteslas and in RTN coordinates, where R is the sun-s/c axis, T is

the
cross product of the solar rotation axis and R, and T is the cross product
of R and T.

The field magnitudes in nT are averages of scalar magnitudes
at higher time resolution.

Times are computed at the mid-point of each
minute interval and expressed in Spacecraft

Event Time - UT (SCET-UT).
Data gaps have not been flagged in any way - if there were no

available
data in a particular hour then there is no data record for that hour. No
data

from the Feb. 1992 encounter with Jupiter are included. Each file
includes one day of data.

Further details on the magnetic field
measurements can be found in the following reference:

Balogh, A., et al.,
Astron. Astrophys. Suppl. Ser., 92(2), 221, 1992.

Data Set Files:

ULYMAG_1SEC_FMT.txt - this file
UyydddSH.asc - high resolution data file (ASCII) for day

yyddd

Parameter Format for File UyydddSH.asc:

IY SCET-UT year (yy)
IDOY SCET-UT day

of year (ddd), IDOY = 1 for Jan. 1
IHR SCET-UT hour of day
IMIN SCET-UT minute of

hour
SEC SCET-UT second of minute
BR Radial component (RTN system) of vector

magnetic field in nT
BT Transverse component (RTN system) of vector magnetic field in

nT
BN Normal component (RTN system) of vector magnetic field in nT
B Scalar

magnitude of magnetic field in nT

The data records are read in ASCII FORTRAN format as

follows:

```
        READ(10,110) IY, IDOY, IHR, IMIN, SEC, BR, BT, BN, B
110     FORMAT
```

(1X,I2,I4.3,2I3.2,F6.2,4F8.3)

NSSDC Data Set ID: 90-090B-08??

Acknowledgement:

Please

acknowledge the National Space Science Data Center and the
Principal Investigator, A.

Balogh of Imperial College, London, UK.

The

following warning has been provided by Ed Smith of the Ulysses VHM/FGM Magnetometer team at

the Jet Propulsion Laboratory for potential users of high resolution one-second

interplanetary data:

So-called Interstellar Ion Waves are of particular interest from the

high resolution data and we have published a couple of articles about them. However, in the

course of analyzing these waves, we became aware that there were numerous intervals where

"waves" were present that were actually spacecraft- generated interference. The

identification of the interference (whose origin is unknown) is difficult because they are

of the same amplitudes as the real waves and consist typically of a series of ascending and

descending tones some of which are above our pass-band but are strong enough to be "aliased"

and to then appear at low frequencies within our pass-band.

No complete catalog of

intervals affected by the interfering tones is available, but our team has developed

software used to identify real versus false signals. However, the techniques used are rather

complex and involve cross- spectra, frequency-time and polarization plots. Experience with

the data is also needed to make a correct assessment. Anyone who makes use of the data and

sees "waves" or other signals that might be interference should contact us so we can help

make an accurate identification.

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Jet Propulsion

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Fax: (818)

354-8895

E-mail: Edward.J.Smith@jpl.nasa.gov

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 301 | 00 | 00 | 0.43 | -3.760 | 0.162 | 3.105 | 4.879 |
| 90 | 301 | 00 | 00 | 1.43 | -3.728 | 0.069 | 3.167 | 4.893 |
| 90 | 301 | 00 | 00 | 2.43 | -3.625 | 0.053 | 3.295 | 4.899 |
| 90 | 301 | 00 | 00 | 3.43 | -3.569 | 0.087 | 3.310 | 4.869 |
| 90 | 301 | 00 | 00 | 4.43 | -3.560 | 0.014 | 3.298 | 4.853 |
| 90 | 301 | 00 | 00 | 5.43 | -3.581 | -0.222 | 3.294 | 4.871 |
| 90 | 301 | 00 | 00 | 6.43 | -3.632 | -0.274 | 3.294 | 4.911 |
| 90 | 301 | 00 | 00 | 7.43 | -3.706 | -0.373 | 3.222 | 4.925 |
| 90 | 301 | 00 | 00 | 8.43 | -3.795 | -0.303 | 3.123 | 4.924 |
| 90 | 301 | 00 | 00 | 9.43 | -3.927 | -0.333 | 2.934 | 4.913 |
| 90 | 301 | 00 | 00 | 10.43 | -4.073 | -0.415 | 2.750 | 4.932 |
| 90 | 301 | 00 | 00 | 11.43 | -4.188 | -0.391 | 2.575 | 4.931 |
| 90 | 301 | 00 | 00 | 12.43 | -4.240 | -0.299 | 2.471 | 4.917 |
| 90 | 301 | 00 | 00 | 13.43 | -4.243 | -0.270 | 2.488 | 4.926 |
| 90 | 301 | 00 | 00 | 14.43 | -4.141 | -0.132 | 2.661 | 4.924 |
| 90 | 301 | 00 | 00 | 15.43 | -4.014 | -0.033 | 2.856 | 4.926 |
| 90 | 301 | 00 | 00 | 16.43 | -3.886 | 0.006 | 3.020 | 4.921 |
| 90 | 301 | 00 | 00 | 17.43 | -3.777 | -0.144 | 3.110 | 4.895 |
| 90 | 301 | 00 | 00 | 18.43 | -3.786 | -0.380 | 3.101 | 4.908 |
| 90 | 301 | 00 | 00 | 19.43 | -3.879 | -0.520 | 3.034 | 4.951 |
| 90 | 301 | 00 | 00 | 20.43 | -3.978 | -0.601 | 2.833 | 4.920 |
| 90 | 301 | 00 | 00 | 21.43 | -4.026 | -0.535 | 2.697 | 4.876 |
| 90 | 301 | 00 | 00 | 22.43 | -3.978 | -0.390 | 2.749 | 4.851 |
| 90 | 301 | 00 | 00 | 23.43 | -3.898 | -0.250 | 2.919 | 4.876 |
| 90 | 301 | 00 | 00 | 24.43 | -3.870 | -0.161 | 2.958 | 4.874 |
| 90 | 301 | 00 | 00 | 25.43 | -3.895 | -0.110 | 2.924 | 4.871 |
| 90 | 301 | 00 | 00 | 26.43 | -3.867 | -0.025 | 2.961 | 4.871 |
| 90 | 301 | 00 | 00 | 27.43 | -3.897 | 0.022 | 2.959 | 4.894 |
| 90 | 301 | 00 | 00 | 28.43 | -3.960 | 0.022 | 2.958 | 4.943 |
| 90 | 301 | 00 | 00 | 29.43 | -3.916 | -0.167 | 3.021 | 4.948 |
| 90 | 301 | 00 | 00 | 30.43 | -3.918 | -0.065 | 3.093 | 4.992 |
| 90 | 301 | 00 | 00 | 31.43 | -3.883 | -0.175 | 3.159 | 5.009 |
| 90 | 301 | 00 | 00 | 32.43 | -3.931 | -0.258 | 3.089 | 5.006 |
| 90 | 301 | 00 | 00 | 33.43 | -4.043 | -0.372 | 2.906 | 4.993 |
| 90 | 301 | 00 | 00 | 34.43 | -4.154 | -0.269 | 2.721 | 4.973 |
| 90 | 301 | 00 | 00 | 35.43 | -4.175 | -0.048 | 2.680 | 4.961 |
| 90 | 301 | 00 | 00 | 36.43 | -4.105 | 0.120 | 2.713 | 4.922 |
| 90 | 301 | 00 | 00 | 37.43 | -4.037 | 0.168 | 2.782 | 4.906 |
| 90 | 301 | 00 | 00 | 38.43 | -3.901 | 0.098 | 2.896 | 4.860 |
| 90 | 301 | 00 | 00 | 39.43 | -3.861 | -0.014 | 2.955 | 4.862 |
| 90 | 301 | 00 | 00 | 40.43 | -3.883 | -0.074 | 2.940 | 4.871 |
| 90 | 301 | 00 | 00 | 41.43 | -4.013 | -0.082 | 2.792 | 4.889 |
| 90 | 301 | 00 | 00 | 42.43 | -4.053 | 0.072 | 2.742 | 4.894 |
| 90 | 301 | 00 | 00 | 43.43 | -4.023 | 0.190 | 2.804 | 4.907 |
| 90 | 301 | 00 | 00 | 44.43 | -3.857 | 0.085 | 3.046 | 4.915 |
| 90 | 301 | 00 | 00 | 45.43 | -3.752 | -0.088 | 3.158 | 4.905 |
| 90 | 301 | 00 | 00 | 46.43 | -3.730 | -0.272 | 3.211 | 4.929 |
| 90 | 301 | 00 | 00 | 47.43 | -3.788 | -0.397 | 3.148 | 4.941 |
| 90 | 301 | 00 | 00 | 48.43 | -3.838 | -0.472 | 3.036 | 4.916 |
| 90 | 301 | 00 | 00 | 49.43 | -3.827 | -0.423 | 3.010 | 4.888 |
| 90 | 301 | 00 | 00 | 50.43 | -3.805 | -0.441 | 3.008 | 4.870 |
| 90 | 301 | 00 | 00 | 51.43 | -3.811 | -0.409 | 3.006 | 4.871 |
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| 90 | 301 | 00 | 00 | 53.43 | -3.732 | -0.270 | 3.194 | 4.919 |
| 90 | 301 | 00 | 00 | 54.43 | -3.736 | -0.341 | 3.187 | 4.923 |
| 90 | 301 | 00 | 00 | 55.43 | -3.906 | -0.455 | 2.988 | 4.939 |
| 90 | 301 | 00 | 00 | 56.43 | -4.108 | -0.429 | 2.694 | 4.932 |

| | | | | | | | | |
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| 90 | 301 | 00 | 00 | 57.43 | -4.229 | -0.246 | 2.583 | 4.961 |
| 90 | 301 | 00 | 00 | 58.43 | -4.236 | -0.037 | 2.641 | 4.992 |
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| 90 | 301 | 00 | 01 | 0.43 | -4.039 | 0.141 | 2.894 | 4.971 |
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| 90 | 301 | 00 | 01 | 2.43 | -3.786 | 0.157 | 3.177 | 4.945 |
| 90 | 301 | 00 | 01 | 3.43 | -3.638 | 0.094 | 3.373 | 4.962 |
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| 90 | 301 | 00 | 01 | 5.43 | -3.743 | -0.322 | 3.234 | 4.957 |
| 90 | 301 | 00 | 01 | 6.43 | -3.903 | -0.388 | 3.049 | 4.968 |
| 90 | 301 | 00 | 01 | 7.43 | -4.046 | -0.319 | 2.910 | 4.994 |
| 90 | 301 | 00 | 01 | 8.43 | -4.087 | -0.238 | 2.886 | 5.009 |
| 90 | 301 | 00 | 01 | 9.43 | -4.035 | -0.161 | 2.854 | 4.945 |
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| 90 | 301 | 00 | 01 | 12.43 | -3.917 | -0.147 | 2.981 | 4.925 |
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| 90 | 301 | 00 | 01 | 14.43 | -3.938 | 0.050 | 3.080 | 4.999 |
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| 90 | 301 | 00 | 01 | 17.43 | -3.758 | 0.085 | 3.312 | 5.010 |
| 90 | 301 | 00 | 01 | 18.43 | -3.781 | -0.145 | 3.232 | 4.976 |
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| 90 | 301 | 00 | 01 | 26.43 | -3.760 | 0.114 | 3.045 | 4.839 |
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| 90 | 301 | 00 | 01 | 28.43 | -3.683 | 0.011 | 3.050 | 4.782 |
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| 90 | 301 | 00 | 01 | 32.43 | -3.731 | -0.186 | 3.048 | 4.821 |
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| 90 | 301 | 00 | 01 | 37.43 | -3.677 | -0.328 | 3.257 | 4.923 |
| 90 | 301 | 00 | 01 | 38.43 | -3.710 | -0.212 | 3.230 | 4.923 |
| 90 | 301 | 00 | 01 | 39.43 | -3.734 | 0.000 | 3.233 | 4.940 |
| 90 | 301 | 00 | 01 | 40.43 | -3.770 | 0.078 | 3.214 | 4.954 |
| 90 | 301 | 00 | 01 | 41.43 | -3.697 | 0.155 | 3.323 | 4.973 |
| 90 | 301 | 00 | 01 | 42.43 | -3.663 | -0.027 | 3.444 | 5.028 |
| 90 | 301 | 00 | 01 | 43.43 | -3.711 | -0.127 | 3.409 | 5.040 |
| 90 | 301 | 00 | 01 | 44.43 | -3.792 | -0.251 | 3.273 | 5.016 |
| 90 | 301 | 00 | 01 | 45.43 | -3.742 | -0.192 | 3.280 | 4.980 |
| 90 | 301 | 00 | 01 | 46.43 | -3.717 | -0.249 | 3.267 | 4.954 |
| 90 | 301 | 00 | 01 | 47.43 | -3.760 | -0.129 | 3.258 | 4.976 |
| 90 | 301 | 00 | 01 | 48.43 | -3.738 | -0.012 | 3.267 | 4.965 |
| 90 | 301 | 00 | 01 | 49.43 | -3.780 | -0.074 | 3.248 | 4.984 |
| 90 | 301 | 00 | 01 | 50.43 | -3.832 | -0.161 | 3.204 | 4.998 |
| 90 | 301 | 00 | 01 | 51.43 | -3.876 | -0.233 | 3.109 | 4.975 |
| 90 | 301 | 00 | 01 | 52.43 | -3.993 | -0.218 | 2.987 | 4.992 |
| 90 | 301 | 00 | 01 | 53.43 | -4.064 | -0.177 | 2.923 | 5.009 |

| | | | | | | | | |
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| 90 | 301 | 00 | 01 | 54.43 | -4.068 | -0.150 | 2.886 | 4.990 |
| 90 | 301 | 00 | 01 | 55.43 | -3.995 | -0.097 | 2.925 | 4.952 |
| 90 | 301 | 00 | 01 | 56.43 | -3.936 | -0.050 | 2.929 | 4.906 |
| 90 | 301 | 00 | 01 | 57.43 | -3.881 | -0.034 | 2.951 | 4.875 |
| 90 | 301 | 00 | 01 | 58.43 | -3.869 | -0.060 | 2.938 | 4.858 |
| 90 | 301 | 00 | 01 | 59.43 | -3.906 | -0.163 | 2.915 | 4.876 |
| 90 | 301 | 00 | 02 | 0.43 | -3.851 | -0.249 | 2.971 | 4.870 |
| 90 | 301 | 00 | 02 | 1.43 | -3.830 | -0.338 | 3.037 | 4.900 |
| 90 | 301 | 00 | 02 | 2.43 | -3.754 | -0.429 | 3.126 | 4.904 |
| 90 | 301 | 00 | 02 | 3.43 | -3.657 | -0.437 | 3.317 | 4.956 |
| 90 | 301 | 00 | 02 | 4.43 | -3.597 | -0.382 | 3.349 | 4.929 |
| 90 | 301 | 00 | 02 | 5.43 | -3.609 | -0.256 | 3.399 | 4.964 |
| 90 | 301 | 00 | 02 | 6.43 | -3.621 | -0.117 | 3.427 | 4.988 |
| 90 | 301 | 00 | 02 | 7.43 | -3.637 | -0.066 | 3.439 | 5.006 |
| 90 | 301 | 00 | 02 | 8.43 | -3.651 | -0.018 | 3.458 | 5.029 |
| 90 | 301 | 00 | 02 | 9.43 | -3.638 | -0.041 | 3.427 | 4.998 |
| 90 | 301 | 00 | 02 | 10.43 | -3.660 | -0.121 | 3.386 | 4.987 |
| 90 | 301 | 00 | 02 | 11.43 | -3.676 | -0.090 | 3.339 | 4.967 |
| 90 | 301 | 00 | 02 | 12.43 | -3.669 | -0.027 | 3.339 | 4.960 |
| 90 | 301 | 00 | 02 | 13.43 | -3.674 | -0.020 | 3.321 | 4.952 |
| 90 | 301 | 00 | 02 | 14.43 | -3.679 | 0.044 | 3.328 | 4.961 |
| 90 | 301 | 00 | 02 | 15.43 | -3.676 | 0.091 | 3.326 | 4.958 |
| 90 | 301 | 00 | 02 | 16.43 | -3.670 | 0.062 | 3.323 | 4.951 |
| 90 | 301 | 00 | 02 | 17.43 | -3.675 | 0.022 | 3.322 | 4.953 |
| 90 | 301 | 00 | 02 | 18.43 | -3.689 | -0.046 | 3.281 | 4.937 |
| 90 | 301 | 00 | 02 | 19.43 | -3.764 | -0.104 | 3.273 | 4.989 |
| 90 | 301 | 00 | 02 | 20.43 | -3.770 | -0.079 | 3.237 | 4.970 |
| 90 | 301 | 00 | 02 | 21.43 | -3.726 | -0.078 | 3.308 | 4.983 |
| 90 | 301 | 00 | 02 | 22.43 | -3.675 | -0.060 | 3.362 | 4.981 |
| 90 | 301 | 00 | 02 | 23.43 | -3.671 | -0.081 | 3.426 | 5.022 |
| 90 | 301 | 00 | 02 | 24.43 | -3.652 | -0.100 | 3.457 | 5.030 |
| 90 | 301 | 00 | 02 | 25.43 | -3.754 | 0.009 | 3.350 | 5.032 |
| 90 | 301 | 00 | 02 | 26.43 | -3.781 | -0.005 | 3.321 | 5.033 |
| 90 | 301 | 00 | 02 | 27.43 | -3.853 | 0.080 | 3.241 | 5.036 |
| 90 | 301 | 00 | 02 | 28.43 | -3.859 | 0.127 | 3.238 | 5.039 |
| 90 | 301 | 00 | 02 | 29.43 | -3.873 | 0.136 | 3.241 | 5.052 |
| 90 | 301 | 00 | 02 | 30.43 | -3.857 | 0.216 | 3.257 | 5.053 |
| 90 | 301 | 00 | 02 | 31.43 | -3.847 | 0.230 | 3.257 | 5.046 |
| 90 | 301 | 00 | 02 | 32.43 | -3.828 | 0.344 | 3.284 | 5.055 |
| 90 | 301 | 00 | 02 | 33.43 | -3.870 | 0.272 | 3.247 | 5.059 |
| 90 | 301 | 00 | 02 | 34.43 | -3.885 | 0.249 | 3.248 | 5.070 |
| 90 | 301 | 00 | 02 | 35.43 | -3.870 | 0.136 | 3.257 | 5.060 |
| 90 | 301 | 00 | 02 | 36.43 | -3.787 | 0.018 | 3.348 | 5.055 |
| 90 | 301 | 00 | 02 | 37.43 | -3.785 | 0.056 | 3.352 | 5.056 |
| 90 | 301 | 00 | 02 | 38.43 | -3.798 | 0.124 | 3.324 | 5.049 |
| 90 | 301 | 00 | 02 | 39.43 | -3.756 | 0.027 | 3.339 | 5.026 |
| 90 | 301 | 00 | 02 | 40.43 | -3.786 | 0.065 | 3.311 | 5.029 |
| 90 | 301 | 00 | 02 | 41.43 | -3.792 | 0.123 | 3.307 | 5.033 |
| 90 | 301 | 00 | 02 | 42.43 | -3.812 | 0.061 | 3.292 | 5.038 |
| 90 | 301 | 00 | 02 | 43.43 | -3.848 | -0.094 | 3.328 | 5.089 |
| 90 | 301 | 00 | 02 | 44.43 | -3.855 | -0.129 | 3.289 | 5.069 |
| 90 | 301 | 00 | 02 | 45.43 | -3.850 | -0.009 | 3.332 | 5.092 |
| 90 | 301 | 00 | 02 | 46.43 | -3.813 | -0.010 | 3.317 | 5.054 |
| 90 | 301 | 00 | 02 | 47.43 | -3.803 | -0.039 | 3.271 | 5.016 |
| 90 | 301 | 00 | 02 | 48.43 | -3.859 | -0.092 | 3.226 | 5.031 |
| 90 | 301 | 00 | 02 | 49.43 | -3.848 | -0.032 | 3.272 | 5.051 |
| 90 | 301 | 00 | 02 | 50.43 | -3.757 | 0.003 | 3.384 | 5.056 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 301 | 00 | 02 | 51.43 | -3.696 | -0.037 | 3.448 | 5.055 |
| 90 | 301 | 00 | 02 | 52.43 | -3.680 | -0.095 | 3.480 | 5.065 |
| 90 | 301 | 00 | 02 | 53.43 | -3.698 | -0.329 | 3.406 | 5.038 |
| 90 | 301 | 00 | 02 | 54.43 | -3.783 | -0.370 | 3.326 | 5.051 |
| 90 | 301 | 00 | 02 | 55.43 | -3.823 | -0.310 | 3.289 | 5.053 |
| 90 | 301 | 00 | 02 | 56.43 | -3.757 | -0.064 | 3.368 | 5.046 |
| 90 | 301 | 00 | 02 | 57.43 | -3.740 | -0.161 | 3.374 | 5.040 |
| 90 | 301 | 00 | 02 | 58.43 | -3.748 | -0.251 | 3.412 | 5.075 |
| 90 | 301 | 00 | 02 | 59.43 | -3.699 | -0.293 | 3.422 | 5.047 |
| 90 | 301 | 00 | 03 | 0.43 | -3.704 | -0.345 | 3.347 | 5.004 |
| 90 | 301 | 00 | 03 | 1.43 | -3.678 | -0.069 | 3.426 | 5.026 |
| 90 | 301 | 00 | 03 | 2.43 | -3.610 | 0.036 | 3.472 | 5.009 |
| 90 | 301 | 00 | 03 | 3.43 | -3.516 | 0.144 | 3.512 | 4.971 |
| 90 | 301 | 00 | 03 | 4.43 | -3.422 | 0.142 | 3.529 | 4.918 |
| 90 | 301 | 00 | 03 | 5.43 | -3.414 | 0.098 | 3.567 | 4.938 |
| 90 | 301 | 00 | 03 | 6.43 | -3.418 | 0.089 | 3.605 | 4.968 |
| 90 | 301 | 00 | 03 | 7.43 | -3.414 | 0.141 | 3.618 | 4.977 |
| 90 | 301 | 00 | 03 | 8.43 | -3.430 | 0.121 | 3.572 | 4.954 |
| 90 | 301 | 00 | 03 | 9.43 | -3.477 | 0.144 | 3.484 | 4.924 |
| 90 | 301 | 00 | 03 | 10.43 | -3.485 | 0.275 | 3.487 | 4.938 |
| 90 | 301 | 00 | 03 | 11.43 | -3.448 | 0.462 | 3.539 | 4.962 |
| 90 | 301 | 00 | 03 | 12.43 | -3.389 | 0.655 | 3.587 | 4.978 |
| 90 | 301 | 00 | 03 | 13.43 | -3.414 | 0.619 | 3.557 | 4.969 |
| 90 | 301 | 00 | 03 | 14.43 | -3.490 | 0.558 | 3.507 | 4.979 |
| 90 | 301 | 00 | 03 | 15.43 | -3.580 | 0.344 | 3.422 | 4.965 |
| 90 | 301 | 00 | 03 | 16.43 | -3.585 | 0.441 | 3.481 | 5.017 |
| 90 | 301 | 00 | 03 | 17.43 | -3.605 | 0.431 | 3.464 | 5.018 |
| 90 | 301 | 00 | 03 | 18.43 | -3.664 | 0.416 | 3.426 | 5.033 |
| 90 | 301 | 00 | 03 | 19.43 | -3.720 | 0.225 | 3.394 | 5.041 |
| 90 | 301 | 00 | 03 | 20.43 | -3.765 | 0.177 | 3.387 | 5.067 |
| 90 | 301 | 00 | 03 | 21.43 | -3.799 | -0.005 | 3.347 | 5.063 |
| 90 | 301 | 00 | 03 | 22.43 | -3.891 | -0.170 | 3.194 | 5.037 |
| 90 | 301 | 00 | 03 | 23.43 | -3.940 | -0.247 | 3.134 | 5.041 |
| 90 | 301 | 00 | 03 | 24.43 | -3.894 | -0.195 | 3.190 | 5.038 |
| 90 | 301 | 00 | 03 | 25.43 | -3.852 | -0.095 | 3.281 | 5.061 |
| 90 | 301 | 00 | 03 | 26.43 | -3.787 | 0.047 | 3.365 | 5.066 |
| 90 | 301 | 00 | 03 | 27.43 | -3.807 | 0.009 | 3.370 | 5.085 |
| 90 | 301 | 00 | 03 | 28.43 | -3.748 | 0.068 | 3.445 | 5.091 |
| 90 | 301 | 00 | 03 | 29.43 | -3.686 | 0.147 | 3.502 | 5.086 |
| 90 | 301 | 00 | 03 | 30.43 | -3.591 | 0.208 | 3.598 | 5.088 |
| 90 | 301 | 00 | 03 | 31.43 | -3.624 | 0.149 | 3.566 | 5.086 |
| 90 | 301 | 00 | 03 | 32.43 | -3.578 | 0.155 | 3.649 | 5.113 |
| 90 | 301 | 00 | 03 | 33.43 | -3.575 | 0.066 | 3.627 | 5.094 |
| 90 | 301 | 00 | 03 | 34.43 | -3.572 | 0.016 | 3.563 | 5.045 |
| 90 | 301 | 00 | 03 | 35.43 | -3.666 | -0.058 | 3.452 | 5.035 |
| 90 | 301 | 00 | 03 | 36.43 | -3.599 | -0.055 | 3.377 | 4.936 |
| 90 | 301 | 00 | 03 | 37.43 | -3.685 | -0.028 | 3.233 | 4.902 |
| 90 | 301 | 00 | 03 | 38.43 | -3.780 | -0.005 | 3.165 | 4.930 |
| 90 | 301 | 00 | 03 | 39.43 | -3.778 | 0.073 | 3.118 | 4.899 |
| 90 | 301 | 00 | 03 | 40.43 | -3.868 | -0.086 | 2.980 | 4.883 |
| 90 | 301 | 00 | 03 | 41.43 | -3.960 | -0.133 | 3.010 | 4.976 |
| 90 | 301 | 00 | 03 | 42.43 | -4.026 | -0.265 | 2.939 | 4.991 |
| 90 | 301 | 00 | 03 | 43.43 | -4.066 | -0.292 | 3.019 | 5.073 |
| 90 | 301 | 00 | 03 | 44.43 | -4.065 | -0.367 | 3.003 | 5.067 |
| 90 | 301 | 00 | 03 | 45.43 | -4.169 | -0.490 | 2.908 | 5.106 |
| 90 | 301 | 00 | 03 | 46.43 | -4.190 | -0.555 | 2.811 | 5.076 |
| 90 | 301 | 00 | 03 | 47.43 | -4.184 | -0.619 | 2.721 | 5.029 |

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|---|---|---|---|---|---|---|---|---|
| 90 | 301 | 00 | 03 | 48.43 | -4.197 | -0.731 | 2.627 | 5.005 |
| 90 | 301 | 00 | 03 | 49.43 | -4.246 | -0.738 | 2.505 | 4.985 |
| 90 | 301 | 00 | 03 | 50.43 | -4.267 | -0.733 | 2.439 | 4.970 |
| 90 | 301 | 00 | 03 | 51.43 | -4.297 | -0.740 | 2.408 | 4.982 |
| 90 | 301 | 00 | 03 | 52.43 | -4.230 | -0.729 | 2.525 | 4.980 |
| 90 | 301 | 00 | 03 | 53.43 | -4.192 | -0.569 | 2.680 | 5.008 |
| 90 | 301 | 00 | 03 | 54.43 | -4.189 | -0.593 | 2.722 | 5.031 |
| 90 | 301 | 00 | 03 | 55.43 | -4.262 | -0.619 | 2.662 | 5.063 |
| 90 | 301 | 00 | 03 | 56.43 | -4.196 | -0.458 | 2.841 | 5.088 |
| 90 | 301 | 00 | 03 | 57.43 | -4.110 | -0.361 | 2.932 | 5.061 |
| 90 | 301 | 00 | 03 | 58.43 | -4.087 | -0.350 | 2.976 | 5.068 |
| 90 | 301 | 00 | 03 | 59.43 | -4.013 | -0.269 | 3.066 | 5.058 |
| 90 | 301 | 00 | 04 | 0.43 | -3.997 | -0.173 | 3.094 | 5.058 |
| 90 | 301 | 00 | 04 | 1.43 | -4.027 | -0.081 | 3.062 | 5.060 |
| 90 | 301 | 00 | 04 | 2.43 | -4.057 | -0.042 | 3.001 | 5.047 |
| 90 | 301 | 00 | 04 | 3.43 | -4.083 | -0.028 | 2.973 | 5.051 |
| 90 | 301 | 00 | 04 | 4.43 | -4.088 | 0.006 | 2.919 | 5.023 |
| 90 | 301 | 00 | 04 | 5.43 | -4.048 | 0.061 | 2.953 | 5.011 |
| 90 | 301 | 00 | 04 | 6.43 | -4.006 | 0.043 | 2.970 | 4.987 |
| 90 | 301 | 00 | 04 | 7.43 | -4.018 | 0.038 | 2.980 | 5.002 |
| 90 | 301 | 00 | 04 | 8.43 | -4.031 | -0.062 | 2.971 | 5.008 |
| 90 | 301 | 00 | 04 | 9.43 | -4.070 | -0.117 | 2.920 | 5.011 |
| 90 | 301 | 00 | 04 | 10.43 | -4.054 | -0.180 | 2.939 | 5.011 |
| 90 | 301 | 00 | 04 | 11.43 | -4.036 | -0.201 | 3.012 | 5.040 |
| 90 | 301 | 00 | 04 | 12.43 | -3.927 | -0.095 | 3.144 | 5.031 |
| 90 | 301 | 00 | 04 | 13.43 | -3.887 | 0.074 | 3.240 | 5.061 |
| 90 | 301 | 00 | 04 | 14.43 | -3.869 | 0.105 | 3.273 | 5.069 |
| 90 | 301 | 00 | 04 | 15.43 | -3.845 | 0.201 | 3.300 | 5.071 |
| 90 | 301 | 00 | 04 | 16.43 | -3.875 | 0.143 | 3.178 | 5.013 |
| 90 | 301 | 00 | 04 | 17.43 | -3.907 | 0.103 | 3.160 | 5.026 |
| 90 | 301 | 00 | 04 | 18.43 | -3.802 | 0.241 | 3.319 | 5.052 |
| 90 | 301 | 00 | 04 | 19.43 | -3.787 | 0.130 | 3.282 | 5.014 |
| 90 | 301 | 00 | 04 | 20.43 | -3.895 | -0.047 | 3.222 | 5.055 |
| 90 | 301 | 00 | 04 | 21.43 | -3.986 | -0.110 | 3.086 | 5.042 |
| 90 | 301 | 00 | 04 | 22.43 | -4.002 | -0.055 | 3.035 | 5.023 |
| 90 | 301 | 00 | 04 | 23.43 | -3.880 | 0.049 | 3.094 | 4.963 |
| 90 | 301 | 00 | 04 | 24.43 | -3.879 | -0.015 | 3.092 | 4.960 |
| 90 | 301 | 00 | 04 | 25.43 | -3.968 | -0.179 | 2.978 | 4.965 |
| 90 | 301 | 00 | 04 | 26.43 | -3.922 | -0.102 | 3.002 | 4.940 |
| 90 | 301 | 00 | 04 | 27.43 | -4.102 | -0.470 | 2.646 | 4.904 |
| 90 | 301 | 00 | 04 | 28.43 | -4.208 | -0.476 | 2.539 | 4.938 |
| 90 | 301 | 00 | 04 | 29.43 | -4.235 | -0.049 | 2.641 | 4.991 |
| 90 | 301 | 00 | 04 | 30.43 | -4.106 | 0.525 | 2.794 | 4.994 |
| 90 | 301 | 00 | 04 | 31.43 | -4.009 | 0.735 | 2.866 | 4.983 |
| 90 | 301 | 00 | 04 | 32.43 | -4.017 | 0.621 | 2.844 | 4.961 |
| 90 | 301 | 00 | 04 | 33.43 | -4.028 | 0.636 | 2.701 | 4.891 |
| 90 | 301 | 00 | 04 | 34.43 | -4.019 | 0.512 | 2.695 | 4.866 |
| 90 | 301 | 00 | 04 | 35.43 | -3.984 | 0.217 | 2.796 | 4.872 |
| 90 | 301 | 00 | 04 | 36.43 | -3.871 | -0.089 | 3.042 | 4.924 |
| 90 | 301 | 00 | 04 | 37.43 | -3.736 | -0.314 | 3.238 | 4.954 |
| 90 | 301 | 00 | 04 | 38.43 | -3.772 | -0.319 | 3.406 | 5.092 |
| 90 | 301 | 00 | 04 | 39.43 | -3.763 | 0.054 | 3.440 | 5.099 |
| 90 | 301 | 00 | 04 | 40.43 | -3.748 | 0.418 | 3.395 | 5.075 |
| 90 | 301 | 00 | 04 | 41.43 | -3.789 | 0.481 | 3.251 | 5.016 |
| 90 | 301 | 00 | 04 | 42.43 | -3.851 | 0.677 | 3.107 | 4.994 |
| 90 | 301 | 00 | 04 | 43.43 | -3.806 | 0.854 | 3.126 | 4.999 |
| 90 | 301 | 00 | 04 | 44.43 | -3.689 | 0.836 | 3.293 | 5.015 |

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|---|---|---|---|---|---|---|---|---|
| 91 | 001 | 00 | 00 | 0.49 | -0.827 | 3.129 | 0.579 | 3.288 |
| 91 | 001 | 00 | 00 | 4.49 | -0.777 | 3.129 | 0.773 | 3.315 |
| 91 | 001 | 00 | 00 | 8.49 | -0.731 | 3.175 | 0.690 | 3.330 |
| 91 | 001 | 00 | 00 | 12.49 | -0.894 | 3.128 | 0.612 | 3.310 |
| 91 | 001 | 00 | 00 | 16.49 | -0.922 | 3.140 | 0.576 | 3.323 |
| 91 | 001 | 00 | 00 | 20.49 | -0.924 | 3.159 | 0.441 | 3.321 |
| 91 | 001 | 00 | 00 | 24.49 | -0.864 | 3.135 | 0.516 | 3.292 |
| 91 | 001 | 00 | 00 | 28.49 | -0.808 | 3.200 | 0.514 | 3.340 |
| 91 | 001 | 00 | 00 | 32.49 | -0.741 | 3.197 | 0.520 | 3.323 |
| 91 | 001 | 00 | 00 | 36.49 | -0.676 | 3.200 | 0.540 | 3.315 |
| 91 | 001 | 00 | 00 | 40.49 | -0.702 | 3.186 | 0.575 | 3.313 |
| 91 | 001 | 00 | 00 | 44.49 | -0.776 | 3.185 | 0.475 | 3.313 |
| 91 | 001 | 00 | 00 | 48.49 | -0.752 | 3.196 | 0.516 | 3.323 |
| 91 | 001 | 00 | 00 | 52.49 | -0.692 | 3.214 | 0.615 | 3.345 |
| 91 | 001 | 00 | 00 | 56.49 | -0.684 | 3.220 | 0.591 | 3.344 |
| 91 | 001 | 00 | 01 | 0.49 | -0.724 | 3.212 | 0.589 | 3.344 |
| 91 | 001 | 00 | 01 | 4.49 | -0.756 | 3.198 | 0.594 | 3.340 |
| 91 | 001 | 00 | 01 | 8.49 | -0.769 | 3.209 | 0.581 | 3.351 |
| 91 | 001 | 00 | 01 | 12.49 | -0.726 | 3.130 | 0.602 | 3.269 |
| 91 | 001 | 00 | 01 | 16.49 | -0.713 | 3.094 | 0.602 | 3.231 |
| 91 | 001 | 00 | 01 | 20.49 | -0.695 | 3.216 | 0.560 | 3.338 |
| 91 | 001 | 00 | 01 | 24.49 | -0.719 | 3.172 | 0.639 | 3.314 |
| 91 | 001 | 00 | 01 | 28.49 | -0.716 | 3.210 | 0.613 | 3.345 |
| 91 | 001 | 00 | 01 | 32.49 | -0.701 | 3.177 | 0.659 | 3.319 |
| 91 | 001 | 00 | 01 | 36.49 | -0.731 | 3.150 | 0.688 | 3.306 |
| 91 | 001 | 00 | 01 | 40.49 | -0.754 | 3.132 | 0.745 | 3.306 |
| 91 | 001 | 00 | 01 | 44.49 | -0.658 | 3.173 | 0.680 | 3.311 |
| 91 | 001 | 00 | 01 | 48.49 | -0.704 | 3.130 | 0.709 | 3.286 |
| 91 | 001 | 00 | 01 | 52.49 | -0.726 | 3.135 | 0.754 | 3.305 |
| 91 | 001 | 00 | 01 | 56.49 | -0.771 | 3.093 | 0.868 | 3.304 |
| 91 | 001 | 00 | 02 | 0.49 | -0.725 | 3.032 | 0.741 | 3.204 |
| 91 | 001 | 00 | 02 | 4.49 | -0.756 | 3.095 | 0.774 | 3.279 |
| 91 | 001 | 00 | 02 | 8.49 | -0.694 | 3.033 | 0.770 | 3.205 |
| 91 | 001 | 00 | 02 | 12.49 | -0.691 | 3.095 | 0.748 | 3.258 |
| 91 | 001 | 00 | 02 | 16.49 | -0.568 | 3.095 | 0.752 | 3.235 |
| 91 | 001 | 00 | 02 | 20.49 | -0.435 | 3.134 | 1.255 | 3.403 |
| 91 | 001 | 00 | 02 | 24.49 | 0.031 | 3.204 | 0.600 | 3.260 |
| 91 | 001 | 00 | 02 | 28.49 | -0.341 | 3.239 | 0.420 | 3.284 |
| 91 | 001 | 00 | 02 | 32.49 | -0.611 | 3.302 | 0.148 | 3.362 |
| 91 | 001 | 00 | 02 | 36.49 | -0.793 | 3.061 | 0.530 | 3.206 |
| 91 | 001 | 00 | 02 | 40.49 | -0.801 | 3.127 | 0.544 | 3.273 |
| 91 | 001 | 00 | 02 | 44.49 | -2.303 | 1.533 | 1.405 | 3.103 |
| 91 | 001 | 00 | 02 | 48.49 | -2.027 | 1.966 | 1.350 | 3.130 |
| 91 | 001 | 00 | 02 | 52.49 | -1.881 | 2.216 | 1.282 | 3.177 |
| 91 | 001 | 00 | 02 | 56.49 | -1.986 | 2.073 | 1.276 | 3.141 |
| 91 | 001 | 00 | 03 | 0.49 | -1.924 | 2.094 | 1.386 | 3.164 |
| 91 | 001 | 00 | 03 | 4.49 | -1.842 | 2.324 | 1.213 | 3.204 |
| 91 | 001 | 00 | 03 | 8.49 | -1.924 | 2.302 | 1.112 | 3.200 |
| 91 | 001 | 00 | 03 | 12.49 | -1.879 | 2.248 | 1.170 | 3.155 |
| 91 | 001 | 00 | 03 | 16.49 | -2.002 | 2.275 | 1.152 | 3.242 |
| 91 | 001 | 00 | 03 | 20.49 | -1.915 | 2.324 | 1.168 | 3.230 |
| 91 | 001 | 00 | 03 | 24.49 | -1.882 | 2.332 | 1.125 | 3.201 |
| 91 | 001 | 00 | 03 | 28.49 | -1.871 | 2.312 | 1.213 | 3.211 |
| 91 | 001 | 00 | 03 | 32.49 | -1.620 | 2.434 | 1.229 | 3.172 |
| 91 | 001 | 00 | 03 | 36.49 | -1.621 | 2.500 | 1.247 | 3.230 |
| 91 | 001 | 00 | 03 | 40.49 | -1.534 | 2.456 | 1.453 | 3.240 |
| 91 | 001 | 00 | 03 | 44.49 | -1.666 | 2.362 | 1.439 | 3.228 |

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|---|---|---|---|---|---|---|---|---|
| 91 | 001 | 00 | 03 | 48.49 | -1.634 | 2.329 | 1.598 | 3.263 |
| 91 | 001 | 00 | 03 | 52.49 | -1.543 | 2.325 | 1.501 | 3.169 |
| 91 | 001 | 00 | 03 | 56.49 | -1.988 | 2.009 | 1.653 | 3.275 |
| 91 | 001 | 00 | 04 | 0.49 | -2.002 | 1.904 | 1.593 | 3.189 |
| 91 | 001 | 00 | 04 | 4.49 | -2.590 | 1.055 | 1.364 | 3.112 |
| 91 | 001 | 00 | 04 | 8.49 | -2.631 | 0.975 | 1.331 | 3.105 |
| 91 | 001 | 00 | 04 | 12.49 | -2.455 | 1.337 | 1.449 | 3.149 |
| 91 | 001 | 00 | 04 | 16.49 | -2.314 | 1.370 | 1.454 | 3.057 |
| 91 | 001 | 00 | 04 | 20.49 | -2.411 | 1.061 | 1.418 | 2.991 |
| 91 | 001 | 00 | 04 | 24.49 | -2.244 | 1.117 | 1.349 | 2.846 |
| 91 | 001 | 00 | 04 | 28.49 | -2.277 | 1.080 | 1.368 | 2.868 |
| 91 | 001 | 00 | 04 | 32.49 | -2.525 | 1.130 | 1.460 | 3.128 |
| 91 | 001 | 00 | 04 | 36.49 | -2.610 | 1.281 | 1.569 | 3.303 |
| 91 | 001 | 00 | 04 | 40.49 | -2.550 | 1.334 | 1.518 | 3.254 |
| 91 | 001 | 00 | 04 | 44.49 | -2.483 | 1.328 | 1.489 | 3.185 |
| 91 | 001 | 00 | 04 | 48.49 | -2.611 | 1.318 | 1.401 | 3.243 |
| 91 | 001 | 00 | 04 | 52.49 | -2.539 | 1.480 | 1.383 | 3.248 |
| 91 | 001 | 00 | 04 | 56.49 | -2.476 | 1.698 | 1.337 | 3.287 |
| 91 | 001 | 00 | 05 | 0.49 | -2.329 | 1.713 | 1.400 | 3.212 |
| 91 | 001 | 00 | 05 | 4.49 | -2.391 | 1.682 | 1.413 | 3.247 |
| 91 | 001 | 00 | 05 | 8.49 | -2.355 | 1.704 | 1.345 | 3.203 |
| 91 | 001 | 00 | 05 | 12.49 | -2.328 | 1.633 | 1.428 | 3.183 |
| 91 | 001 | 00 | 05 | 16.49 | -2.334 | 1.825 | 1.460 | 3.303 |
| 91 | 001 | 00 | 05 | 20.49 | -2.322 | 1.741 | 1.274 | 3.170 |
| 91 | 001 | 00 | 05 | 24.49 | -2.223 | 1.786 | 1.300 | 3.134 |
| 91 | 001 | 00 | 05 | 28.49 | -2.359 | 1.804 | 1.459 | 3.309 |
| 91 | 001 | 00 | 05 | 32.49 | -2.286 | 1.700 | 1.420 | 3.183 |
| 91 | 001 | 00 | 05 | 36.49 | -2.125 | 1.752 | 1.544 | 3.157 |
| 91 | 001 | 00 | 05 | 40.49 | -2.100 | 1.800 | 1.482 | 3.138 |
| 91 | 001 | 00 | 05 | 44.49 | -2.037 | 1.959 | 1.473 | 3.187 |
| 91 | 001 | 00 | 05 | 48.49 | -2.144 | 1.924 | 1.327 | 3.172 |
| 91 | 001 | 00 | 05 | 52.49 | -2.007 | 2.153 | 1.155 | 3.162 |
| 91 | 001 | 00 | 05 | 56.49 | -2.176 | 1.979 | 1.346 | 3.234 |
| 91 | 001 | 00 | 06 | 0.49 | -2.279 | 1.776 | 1.344 | 3.186 |
| 91 | 001 | 00 | 06 | 4.49 | -2.292 | 1.758 | 1.296 | 3.166 |
| 91 | 001 | 00 | 06 | 8.49 | -2.352 | 1.695 | 1.285 | 3.172 |
| 91 | 001 | 00 | 06 | 12.49 | -2.355 | 1.690 | 1.223 | 3.146 |
| 91 | 001 | 00 | 06 | 16.49 | -2.243 | 1.714 | 1.349 | 3.129 |
| 91 | 001 | 00 | 06 | 20.49 | -2.244 | 1.806 | 1.276 | 3.151 |
| 91 | 001 | 00 | 06 | 24.49 | -2.462 | 1.260 | 1.620 | 3.205 |
| 91 | 001 | 00 | 06 | 28.49 | -2.404 | 1.344 | 1.719 | 3.247 |
| 91 | 001 | 00 | 06 | 32.49 | -2.341 | 1.504 | 1.610 | 3.215 |
| 91 | 001 | 00 | 06 | 36.49 | -2.262 | 1.838 | 1.567 | 3.309 |
| 91 | 001 | 00 | 06 | 40.49 | -2.218 | 1.832 | 1.629 | 3.306 |
| 91 | 001 | 00 | 06 | 44.49 | -2.248 | 1.727 | 1.614 | 3.263 |
| 91 | 001 | 00 | 06 | 48.49 | -2.310 | 1.666 | 1.688 | 3.310 |
| 91 | 001 | 00 | 06 | 52.49 | -2.277 | 1.563 | 1.695 | 3.240 |
| 91 | 001 | 00 | 06 | 56.49 | -2.389 | 1.500 | 1.731 | 3.309 |
| 91 | 001 | 00 | 07 | 0.49 | -2.387 | 1.555 | 1.649 | 3.292 |
| 91 | 001 | 00 | 07 | 4.49 | -2.266 | 1.579 | 1.732 | 3.260 |
| 91 | 001 | 00 | 07 | 8.49 | -2.020 | 1.742 | 1.313 | 2.974 |
| 91 | 001 | 00 | 07 | 12.49 | -2.057 | 2.058 | 1.301 | 3.188 |
| 91 | 001 | 00 | 07 | 16.49 | -2.037 | 2.115 | 1.302 | 3.212 |
| 91 | 001 | 00 | 07 | 20.49 | -1.979 | 2.130 | 1.059 | 3.094 |
| 91 | 001 | 00 | 07 | 24.49 | -2.044 | 2.205 | 1.205 | 3.239 |
| 91 | 001 | 00 | 07 | 28.49 | -2.083 | 2.281 | 1.119 | 3.286 |
| 91 | 001 | 00 | 07 | 32.49 | -2.054 | 2.065 | 1.424 | 3.242 |

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|---|---|---|---|---|---|---|---|---|
| 91 | 001 | 00 | 07 | 36.49 | -2.033 | 1.799 | 1.752 | 3.231 |
| 91 | 001 | 00 | 07 | 40.49 | -2.102 | 1.782 | 1.897 | 3.345 |
| 91 | 001 | 00 | 07 | 44.49 | -2.088 | 1.943 | 1.713 | 3.327 |
| 91 | 001 | 00 | 07 | 48.49 | -1.974 | 2.134 | 1.505 | 3.273 |
| 91 | 001 | 00 | 07 | 52.49 | -2.143 | 2.172 | 1.329 | 3.328 |
| 91 | 001 | 00 | 07 | 56.49 | -2.048 | 2.207 | 1.144 | 3.221 |
| 91 | 001 | 00 | 08 | 0.49 | -1.963 | 2.218 | 1.213 | 3.200 |
| 91 | 001 | 00 | 08 | 4.49 | -1.971 | 2.237 | 1.328 | 3.264 |
| 91 | 001 | 00 | 08 | 8.49 | -2.058 | 2.088 | 1.213 | 3.173 |
| 91 | 001 | 00 | 08 | 12.49 | -2.270 | 1.924 | 1.408 | 3.292 |
| 91 | 001 | 00 | 08 | 15.51 | -2.259 | 1.983 | 1.361 | 3.299 |
| 91 | 001 | 00 | 08 | 19.51 | -2.325 | 1.851 | 1.409 | 3.289 |
| 91 | 001 | 00 | 08 | 23.51 | -1.997 | 2.271 | 1.338 | 3.307 |
| 91 | 001 | 00 | 08 | 27.51 | -1.907 | 2.323 | 1.363 | 3.300 |
| 91 | 001 | 00 | 08 | 31.51 | -1.957 | 2.237 | 1.413 | 3.291 |
| 91 | 001 | 00 | 08 | 35.51 | -2.102 | 2.056 | 1.437 | 3.273 |
| 91 | 001 | 00 | 08 | 39.51 | -2.238 | 1.672 | 1.637 | 3.238 |
| 91 | 001 | 00 | 08 | 43.51 | -2.234 | 1.604 | 1.815 | 3.295 |
| 91 | 001 | 00 | 08 | 47.51 | -2.186 | 1.724 | 1.840 | 3.338 |
| 91 | 001 | 00 | 08 | 51.51 | -2.139 | 1.732 | 1.819 | 3.299 |
| 91 | 001 | 00 | 08 | 55.51 | -2.196 | 1.588 | 1.843 | 3.277 |
| 91 | 001 | 00 | 08 | 59.51 | -2.178 | 1.665 | 1.816 | 3.288 |
| 91 | 001 | 00 | 09 | 3.51 | -2.091 | 2.020 | 1.618 | 3.328 |
| 91 | 001 | 00 | 09 | 7.51 | -1.903 | 2.393 | 1.284 | 3.316 |
| 91 | 001 | 00 | 09 | 11.51 | -1.887 | 2.425 | 1.255 | 3.319 |
| 91 | 001 | 00 | 09 | 15.51 | -1.748 | 2.485 | 1.157 | 3.251 |
| 91 | 001 | 00 | 09 | 19.51 | -1.839 | 2.405 | 1.166 | 3.245 |
| 91 | 001 | 00 | 09 | 23.51 | -1.835 | 2.408 | 1.193 | 3.254 |
| 91 | 001 | 00 | 09 | 27.51 | -1.820 | 2.270 | 1.390 | 3.224 |
| 91 | 001 | 00 | 09 | 31.51 | -1.907 | 2.252 | 1.453 | 3.289 |
| 91 | 001 | 00 | 09 | 35.51 | -1.889 | 2.214 | 1.489 | 3.269 |
| 91 | 001 | 00 | 09 | 39.51 | -1.916 | 2.226 | 1.423 | 3.263 |
| 91 | 001 | 00 | 09 | 43.51 | -1.890 | 2.140 | 1.474 | 3.213 |
| 91 | 001 | 00 | 09 | 47.51 | -1.908 | 2.083 | 1.548 | 3.221 |
| 91 | 001 | 00 | 09 | 51.51 | -1.790 | 2.292 | 1.442 | 3.246 |
| 91 | 001 | 00 | 09 | 55.51 | -1.806 | 2.104 | 1.270 | 3.050 |
| 91 | 001 | 00 | 09 | 59.51 | -1.994 | 2.166 | 1.175 | 3.170 |
| 91 | 001 | 00 | 10 | 3.51 | -1.870 | 2.249 | 1.479 | 3.278 |
| 91 | 001 | 00 | 10 | 7.51 | -1.781 | 2.382 | 1.419 | 3.295 |
| 91 | 001 | 00 | 10 | 11.51 | -1.819 | 2.382 | 1.402 | 3.309 |
| 91 | 001 | 00 | 10 | 15.51 | -1.739 | 2.264 | 1.467 | 3.210 |
| 91 | 001 | 00 | 10 | 19.51 | -1.637 | 2.360 | 1.365 | 3.180 |
| 91 | 001 | 00 | 10 | 23.51 | -1.625 | 2.341 | 1.410 | 3.179 |
| 91 | 001 | 00 | 10 | 27.51 | -1.642 | 2.491 | 1.419 | 3.304 |
| 91 | 001 | 00 | 10 | 31.51 | -1.515 | 2.499 | 1.402 | 3.241 |
| 91 | 001 | 00 | 10 | 35.51 | -1.452 | 2.539 | 1.446 | 3.263 |
| 91 | 001 | 00 | 10 | 39.51 | -1.419 | 2.616 | 1.401 | 3.289 |
| 91 | 001 | 00 | 10 | 43.51 | -1.443 | 2.633 | 1.401 | 3.314 |
| 91 | 001 | 00 | 10 | 47.51 | -1.308 | 2.442 | 1.519 | 3.160 |
| 91 | 001 | 00 | 10 | 51.51 | -1.260 | 2.583 | 1.377 | 3.187 |
| 91 | 001 | 00 | 10 | 55.51 | -1.218 | 2.533 | 1.551 | 3.210 |
| 91 | 001 | 00 | 10 | 59.51 | -1.222 | 2.755 | 1.498 | 3.365 |
| 91 | 001 | 00 | 11 | 3.51 | -1.340 | 2.767 | 1.368 | 3.365 |
| 91 | 001 | 00 | 11 | 7.51 | -1.323 | 2.750 | 1.390 | 3.353 |
| 91 | 001 | 00 | 11 | 11.51 | -1.865 | 2.504 | 1.269 | 3.370 |
| 91 | 001 | 00 | 11 | 15.51 | -1.951 | 2.590 | 0.766 | 3.332 |
| 91 | 001 | 00 | 11 | 19.51 | -2.045 | 2.472 | 0.635 | 3.270 |

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|---|---|---|---|---|---|---|---|---|
| 91 | 001 | 00 | 11 | 23.51 | -1.985 | 2.469 | 0.737 | 3.253 |
| 91 | 001 | 00 | 11 | 27.51 | -2.018 | 2.579 | 0.605 | 3.330 |
| 91 | 001 | 00 | 11 | 31.51 | -1.931 | 2.486 | 0.641 | 3.213 |
| 91 | 001 | 00 | 11 | 35.51 | -1.926 | 2.542 | 0.933 | 3.323 |
| 91 | 001 | 00 | 11 | 39.51 | -1.908 | 2.533 | 1.030 | 3.334 |
| 91 | 001 | 00 | 11 | 43.51 | -1.887 | 2.472 | 1.217 | 3.339 |
| 91 | 001 | 00 | 11 | 47.51 | -1.869 | 2.509 | 1.203 | 3.352 |
| 91 | 001 | 00 | 11 | 51.51 | -1.791 | 2.594 | 0.879 | 3.273 |
| 91 | 001 | 00 | 11 | 55.51 | -1.785 | 2.619 | 0.741 | 3.255 |
| 91 | 001 | 00 | 11 | 59.51 | -1.720 | 2.649 | 0.646 | 3.224 |
| 91 | 001 | 00 | 12 | 3.51 | -1.771 | 2.609 | 0.821 | 3.258 |
| 91 | 001 | 00 | 12 | 7.51 | -1.773 | 2.675 | 0.760 | 3.298 |
| 91 | 001 | 00 | 12 | 11.51 | -1.801 | 2.641 | 0.780 | 3.290 |
| 91 | 001 | 00 | 12 | 15.51 | -1.770 | 2.685 | 0.766 | 3.306 |
| 91 | 001 | 00 | 12 | 19.51 | -1.716 | 2.698 | 0.762 | 3.287 |
| 91 | 001 | 00 | 12 | 23.51 | -1.674 | 2.725 | 0.809 | 3.299 |
| 91 | 001 | 00 | 12 | 27.51 | -1.664 | 2.664 | 0.821 | 3.246 |
| 91 | 001 | 00 | 12 | 31.51 | -1.732 | 2.677 | 0.980 | 3.336 |
| 91 | 001 | 00 | 12 | 35.51 | -1.581 | 2.767 | 0.607 | 3.244 |
| 91 | 001 | 00 | 12 | 39.51 | -1.655 | 2.751 | 0.655 | 3.277 |
| 91 | 001 | 00 | 12 | 43.51 | -1.691 | 2.778 | 0.628 | 3.312 |
| 91 | 001 | 00 | 12 | 47.51 | -1.732 | 2.729 | 0.541 | 3.277 |
| 91 | 001 | 00 | 12 | 51.51 | -1.754 | 2.732 | 0.417 | 3.273 |
| 91 | 001 | 00 | 12 | 55.51 | -1.729 | 2.767 | 0.370 | 3.283 |
| 91 | 001 | 00 | 12 | 59.51 | -1.579 | 2.807 | 0.380 | 3.243 |
| 91 | 001 | 00 | 13 | 3.51 | -1.305 | 3.036 | 0.485 | 3.340 |
| 91 | 001 | 00 | 13 | 7.51 | -1.459 | 2.998 | 0.331 | 3.351 |
| 91 | 001 | 00 | 13 | 11.51 | -1.385 | 3.031 | 0.361 | 3.352 |
| 91 | 001 | 00 | 13 | 15.51 | -1.473 | 2.965 | 0.106 | 3.312 |
| 91 | 001 | 00 | 13 | 19.51 | -1.501 | 2.951 | 0.052 | 3.311 |
| 91 | 001 | 00 | 13 | 23.51 | -1.468 | 2.869 | 0.593 | 3.276 |
| 91 | 001 | 00 | 13 | 27.51 | -1.484 | 2.731 | 1.025 | 3.273 |
| 91 | 001 | 00 | 13 | 31.51 | -1.572 | 2.863 | 0.769 | 3.355 |
| 91 | 001 | 00 | 13 | 35.51 | -1.512 | 2.861 | 0.720 | 3.315 |
| 91 | 001 | 00 | 13 | 39.51 | -1.509 | 2.724 | 1.155 | 3.321 |
| 91 | 001 | 00 | 13 | 43.51 | -1.538 | 2.799 | 1.021 | 3.353 |
| 91 | 001 | 00 | 13 | 47.51 | -1.557 | 2.798 | 0.920 | 3.332 |
| 91 | 001 | 00 | 13 | 51.51 | -1.540 | 2.816 | 0.785 | 3.304 |
| 91 | 001 | 00 | 13 | 55.51 | -1.501 | 2.855 | 0.601 | 3.281 |
| 91 | 001 | 00 | 13 | 59.51 | -1.344 | 2.800 | 1.319 | 3.375 |
| 91 | 001 | 00 | 14 | 3.51 | -1.559 | 2.795 | 0.948 | 3.337 |
| 91 | 001 | 00 | 14 | 7.51 | -1.356 | 2.838 | 1.102 | 3.332 |
| 91 | 001 | 00 | 14 | 11.51 | -1.334 | 2.887 | 0.959 | 3.322 |
| 91 | 001 | 00 | 14 | 15.51 | -1.339 | 2.836 | 1.143 | 3.338 |
| 91 | 001 | 00 | 14 | 19.51 | -1.390 | 2.831 | 1.135 | 3.352 |
| 91 | 001 | 00 | 14 | 23.51 | -1.455 | 2.745 | 1.102 | 3.297 |
| 91 | 001 | 00 | 14 | 27.51 | -1.306 | 2.890 | 0.966 | 3.315 |
| 91 | 001 | 00 | 14 | 31.51 | -1.502 | 2.770 | 1.014 | 3.310 |
| 91 | 001 | 00 | 14 | 35.51 | -1.375 | 2.857 | 0.814 | 3.273 |
| 91 | 001 | 00 | 14 | 39.51 | -1.399 | 2.805 | 0.935 | 3.271 |
| 91 | 001 | 00 | 14 | 43.51 | -1.426 | 2.792 | 0.958 | 3.278 |
| 91 | 001 | 00 | 14 | 47.51 | -1.403 | 2.778 | 0.988 | 3.266 |
| 91 | 001 | 00 | 14 | 51.51 | -1.439 | 2.801 | 0.993 | 3.302 |
| 91 | 001 | 00 | 14 | 55.51 | -1.524 | 2.767 | 0.957 | 3.301 |
| 91 | 001 | 00 | 14 | 59.51 | -1.417 | 2.765 | 0.790 | 3.206 |
| 91 | 001 | 00 | 15 | 3.51 | -1.224 | 2.887 | 0.836 | 3.245 |
| 91 | 001 | 00 | 15 | 7.51 | -1.153 | 2.932 | 0.849 | 3.263 |

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|---|---|---|---|---|---|---|---|---|
| 91 | 001 | 00 | 15 | 11.51 | -1.319 | 2.836 | 0.751 | 3.217 |
| 91 | 001 | 00 | 15 | 15.51 | -1.376 | 2.791 | 0.887 | 3.235 |
| 91 | 001 | 00 | 15 | 19.51 | -1.302 | 2.890 | 0.810 | 3.271 |
| 91 | 001 | 00 | 15 | 23.51 | -1.202 | 2.885 | 0.718 | 3.206 |
| 91 | 001 | 00 | 15 | 27.51 | -1.245 | 2.856 | 0.896 | 3.241 |
| 91 | 001 | 00 | 15 | 31.51 | -1.127 | 2.935 | 0.890 | 3.268 |
| 91 | 001 | 00 | 15 | 35.51 | -1.085 | 2.932 | 0.811 | 3.229 |
| 91 | 001 | 00 | 15 | 39.51 | -1.057 | 2.938 | 0.846 | 3.235 |
| 91 | 001 | 00 | 15 | 43.51 | -1.249 | 2.875 | 0.726 | 3.218 |
| 91 | 001 | 00 | 15 | 47.51 | -1.167 | 2.934 | 0.756 | 3.247 |
| 91 | 001 | 00 | 15 | 51.51 | -1.166 | 2.893 | 0.891 | 3.244 |
| 91 | 001 | 00 | 15 | 55.51 | -1.141 | 2.954 | 0.767 | 3.259 |
| 91 | 001 | 00 | 15 | 59.51 | -1.052 | 2.992 | 0.685 | 3.244 |
| 91 | 001 | 00 | 16 | 3.51 | -1.096 | 2.967 | 0.715 | 3.243 |
| 91 | 001 | 00 | 16 | 7.51 | -1.113 | 2.943 | 0.779 | 3.242 |
| 91 | 001 | 00 | 16 | 11.51 | -1.086 | 2.933 | 0.897 | 3.253 |
| 91 | 001 | 00 | 16 | 15.51 | -1.130 | 2.890 | 0.906 | 3.233 |
| 91 | 001 | 00 | 16 | 19.51 | -1.064 | 2.924 | 0.914 | 3.243 |
| 91 | 001 | 00 | 16 | 23.51 | -1.090 | 2.909 | 0.969 | 3.254 |
| 91 | 001 | 00 | 16 | 27.51 | -1.225 | 2.886 | 0.864 | 3.252 |
| 91 | 001 | 00 | 16 | 31.51 | -1.370 | 2.770 | 0.962 | 3.236 |
| 91 | 001 | 00 | 16 | 35.51 | -1.312 | 2.829 | 0.975 | 3.267 |
| 91 | 001 | 00 | 16 | 39.51 | -1.358 | 2.764 | 1.128 | 3.280 |
| 91 | 001 | 00 | 16 | 43.51 | -1.443 | 2.766 | 1.097 | 3.307 |
| 91 | 001 | 00 | 16 | 47.51 | -0.909 | 3.071 | 0.635 | 3.265 |
| 91 | 001 | 00 | 16 | 51.51 | -1.160 | 2.974 | 0.767 | 3.283 |
| 91 | 001 | 00 | 16 | 55.51 | -1.306 | 2.936 | 0.730 | 3.295 |
| 91 | 001 | 00 | 16 | 59.51 | -1.242 | 2.921 | 0.778 | 3.268 |
| 91 | 001 | 00 | 17 | 3.51 | -1.201 | 2.968 | 0.774 | 3.294 |
| 91 | 001 | 00 | 17 | 7.51 | -1.229 | 2.958 | 0.672 | 3.273 |
| 91 | 001 | 00 | 17 | 11.51 | -1.270 | 2.910 | 0.697 | 3.251 |
| 91 | 001 | 00 | 17 | 15.51 | -1.290 | 2.953 | 0.710 | 3.300 |
| 91 | 001 | 00 | 17 | 19.51 | -1.204 | 2.965 | 0.671 | 3.270 |
| 91 | 001 | 00 | 17 | 23.51 | -1.282 | 2.971 | 0.507 | 3.275 |
| 91 | 001 | 00 | 17 | 27.51 | -1.518 | 2.645 | 1.174 | 3.268 |
| 91 | 001 | 00 | 17 | 31.51 | -1.522 | 2.579 | 1.279 | 3.256 |
| 91 | 001 | 00 | 17 | 35.51 | -1.410 | 2.585 | 1.303 | 3.220 |
| 91 | 001 | 00 | 17 | 39.51 | -1.546 | 2.610 | 1.354 | 3.322 |
| 91 | 001 | 00 | 17 | 43.51 | -1.528 | 2.654 | 1.187 | 3.284 |
| 91 | 001 | 00 | 17 | 47.51 | -1.570 | 2.680 | 1.155 | 3.314 |
| 91 | 001 | 00 | 17 | 51.51 | -1.589 | 2.660 | 1.146 | 3.303 |
| 91 | 001 | 00 | 17 | 55.51 | -1.500 | 2.809 | 0.823 | 3.290 |
| 91 | 001 | 00 | 17 | 59.51 | -1.618 | 2.655 | 0.923 | 3.244 |
| 91 | 001 | 00 | 18 | 3.51 | -1.846 | 2.528 | 1.183 | 3.347 |
| 91 | 001 | 00 | 18 | 7.51 | -1.588 | 2.656 | 1.031 | 3.262 |
| 91 | 001 | 00 | 18 | 11.51 | -1.655 | 2.566 | 1.185 | 3.276 |
| 91 | 001 | 00 | 18 | 15.51 | -1.689 | 2.556 | 1.218 | 3.297 |
| 91 | 001 | 00 | 18 | 19.51 | -1.767 | 2.445 | 1.339 | 3.301 |
| 91 | 001 | 00 | 18 | 23.51 | -1.716 | 2.459 | 1.354 | 3.290 |
| 91 | 001 | 00 | 18 | 27.51 | -1.667 | 2.675 | 1.118 | 3.344 |
| 91 | 001 | 00 | 18 | 31.51 | -1.676 | 2.561 | 1.196 | 3.286 |
| 91 | 001 | 00 | 18 | 35.51 | -1.654 | 2.552 | 1.230 | 3.281 |
| 91 | 001 | 00 | 18 | 39.51 | -1.789 | 2.679 | 0.933 | 3.354 |
| 91 | 001 | 00 | 18 | 43.51 | -1.858 | 2.706 | 0.659 | 3.348 |
| 91 | 001 | 00 | 18 | 47.51 | -1.788 | 2.669 | 0.700 | 3.288 |
| 91 | 001 | 00 | 18 | 51.51 | -1.694 | 2.767 | 0.624 | 3.303 |
| 91 | 001 | 00 | 18 | 55.51 | -1.794 | 2.721 | 0.750 | 3.344 |