

SMITH BAY WHARF

DRAFT ENVIRONMENTAL IMPACT STATEMENT

APPENDIX M

PREPARED FOR KANGAROO ISLAND PLANTATION TIMBERS BY ENVIRONMENTAL PROJECTS
JANUARY 2019

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APPENDIX **M**

APPENDIX M – AIR QUALITY

M Air Pollution Modelling Outputs





Appendix M –
Air Pollution Modelling
Outputs

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AIR POLLUTION MODELLING OUTPUTS

1. INTRODUCTION

A description of the baseline air quality environment at Smith Bay, and an assessment of the effects and impacts associated with changes in air quality as a result of the construction and operation of the KI Seaport was presented in Chapter 17.

Section 3.6 of the SA EPA Ambient Air Quality Assessment guidelines (SA EPA 2016) states that:

...it is essential that air pollution modelling results are supported by: [...] a copy of the output text files.

The following sections detail the output concentration files for the Calpuff model for both the construction and the operational phases of the Project.

2. CONSTRUCTION PHASE

2.1 Calpuff model output file (concentration)

```
*****
*****
*****                                CALPOST  Version 7.2.0
Level 150720
*****
*****
```

```
Internal Coordinate Transformations by --- COORDLIB  Version: 1.99  Level:
070921
```

```
Control File Type: CALPOST.INP      7.0          Group 4 Species data _
Discrete Rec Groups
```

```
Run Title:
  KIPT Stage 2
```

-
INPUT GROUP: 1 -- General run control parameters

```
Option to run all periods found
in the met. file(s)  (METRUN)          Default: 0    ! METRUN = 1 !
```

```
    METRUN = 0 - Run period explicitly defined below
    METRUN = 1 - Run all periods in CALPUFF data file(s)
```

```
Starting date:   Year   (ISYR)  --   No default   ! ISYR = 1990 !
                 Month  (ISMO)  --   No default   ! ISMO = 0 !
                 Day    (ISDY)  --   No default   ! ISDY = 0 !
Starting time:  Hour    (ISHR)  --   No default   ! ISHR = 0 !
                 Minute (ISMIN) --   No default   ! ISMIN = 0 !
                 Second (ISSEC) --   No default   ! ISSEC = 0 !

Ending date:    Year   (IEYR)  --   No default   ! IEYR = 0 !
                 Month  (IEMO)  --   No default   ! IEMO = 0 !
                 Day    (IEDY)  --   No default   ! IEDY = 0 !
Ending time:    Hour   (IEHR)  --   No default   ! IEHR = 0 !
                 Minute (IEMIN) --   No default   ! IEMIN = 0 !
                 Second (IESEC) --   No default   ! IESEC = 0 !
```

```
(These are only used if METRUN = 0)
```

```
Base Time Zone for the CALPUFF simulation:
(character*8)          (ABTZ)  --   No default   ! ABTZ = UTC+1000 !
```

```
All times are in the base time zone of the CALPUFF simulation.
```

CALPUFF Dataset Version 2.1 contains the zone, but earlier versions do not, and the zone must be specified here.

Examples:

```
Greenwich Mean Time (GMT) = UTC+0000
EST                       = UTC-0500
CST                       = UTC-0600
MST                       = UTC-0700
PST                       = UTC-0800
Los Angeles, USA         = UTC-0800
New York, USA           = UTC-0500
Santiago, Chile         = UTC-0400
UK                       = UTC+0000
Western Europe          = UTC+0100
Rome, Italy             = UTC+0100
Cape Town, S.Africa    = UTC+0200
Sydney, Australia       = UTC+1000
```

Process every period of data?

(NREP) -- Default: 1 ! NREP = 1 !

(1 = every period processed,
2 = every 2nd period processed,
5 = every 5th period processed, etc.)

Selectively process data only within certain hours?

(This feature is NOT used with Visibility or CALM Processing)

Provide 24 values. The first value is for the hour between 0000 and 0100, the second is for the hour between 0100 and 0200, (etc.) and the last is for the hour between 2300 And 2400.

(HRPROC) -- Default: 24*1, or

```
Hour:    1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24
Default: 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1, 1, 1
```

! HRPROC = 1,1 !

0 = data within hour are NOT processed

1 = data within hour are processed

Species & Concentration/Deposition Information

Multiple species-levels contained in a single CALPUFF output file can be processed in 1 application. These are identified by name (ASPEC) in Group 4, along with several related inputs. For visibility there must be only 1 species listed and it must be called VISIB.

Number of species (NSPEC) -- Default: 1 ! NSPEC = 3 !

Add Hourly Background Concentrations/Fluxes?

- Current implementation allows hourly data for 1 species, and is restricted to NSPEC=1
- Units must be mass-based and the conversion factor to either g/m**3 or g/m**2/s must be provided in the header of the file
- Option cannot be used with volume-based (e.g. ppb) units
(LBACK) -- Default: F ! LBACK = F !

NO2 Configuration

Source of NO2 when ASPEC=NO2 (Group 4) or LVNO2=T (Group 2) may be from CALPUFF NO2 concentrations OR from a fraction of CALPUFF NOx concentrations. Specify the fraction of NOx that is treated as NO2 either as a constant or as a table of fractions that depend on the magnitude of the NOx concentration:

(NO2CALC) -- Default: 1 ! NO2CALC = 1 !
0 = Use NO2 directly (NO2 must be in file)
1 = Specify a single NO2/NOx ratio (RNO2NOX)
2 = Specify table of NO2/NOx ratios for short-term and long-term concentration averages: Short -Term(TNO2NOX_S)
Long-Term (TNO2NOX_L)

(NOTE: Scaling Factors must NOT be used with NO2CALC=2)

Single NO2/NOx ratio (0.0 to 1.0) for treating some or all NOx as NO2, where [NO2] = [NOx] * RNO2NOX (used only if NO2CALC = 1)

(RNO2NOX) -- Default: 1.0 ! RNO2NOX = 1.0 !

Table of NO2/NOx ratios that vary with NOx concentration. Provide a series of NOx concentrations (ppb) and the corresponding NO2/NOx ratio, with NOx increasing in magnitude. The ratio used for a particular NOx concentration is interpolated from the values provided in the table. The ratio for the smallest tabulated NOx concentration (the first) is used for all NOx concentrations less than the smallest tabulated value, and the ratio for the largest tabulated NOx concentration (the last) is used for all NOx concentrations greater than the largest tabulated value. (used only if NO2CALC = 2)

(a) NOx concentration conversion factor from ppb to ug/m3 (1.0 ppb NOx = PPB_UGM3 ug/m3 NOx)
Default value assumes T=25.0 C

P=1.0 atm

MW = 46.0

(PPB_UGM3) -- Default: 1.880 ! PPB_UGM3 = 1.880

!

(b) Short-Term Average Conversion Table

NOx concentration (CNOX_S) -- No Default (ppb)

NO2/NOx ratio for each NOx concentration

(TNO2NOX_S) -- No Default

! CNOX_S =

0.531915,1.06383,1.595745,2.12766,2.659575,3.191489,3.723404,4.255319,4.787234,5.319149,5.851064,6.382979,6.914894,7.446808, !

! TNO2NOX_S = 1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0, !

!

(c) Long-Term Average Conversion Table

NOx concentration (CNOX_L) -- No Default (ppb)

NO2/NOx ratio for each NOx concentration
(TNO2NOX_L) -- No Default

! CNOX_L =
0.531915,1.06383,1.595745,2.12766,2.659575,3.191489,3.723404,4.255319,4.787234,5
.319149,5.851064,6.382979,6.914894,7.446808, !

! TNO2NOX_L = 1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,1.0,
!

(d) Minimum number of hours in average
for using the long-term average
conversion table

(MINHR_L) -- Default: 8000 ! MINHR_L = 8000 !

Source information

Option to process source contributions:

0 = Process only total reported contributions

1 = Sum all individual source contributions and process

2 = Run in TRACEBACK mode to identify source
contributions at a SINGLE receptor

(MSOURCE) -- Default: 0 ! MSOURCE = 0 !

Plume Model Output Processing Options

Output from models other than CALPUFF and CALGRID can be written in the CONC.DAT format and processed by CALPOST. Plume models such as AERMOD typically do not treat CALM hours, and do not include such hours in multiple-hour averages, with specific rules about how many calm hours can be removed from an average. This treatment is known as CALM PROCESSING. Calm periods are identified from wind speeds in the meteorological data file for the application, which must be identified in Input Group 0 as the single-point meteorological data file MET1DAT.

0 = Option is not used for CALPUFF/CALGRID output files

1 = Apply CALM processing procedures to multiple-hour averages

(MCALMPRO) -- Default: 0 ! MCALMPRO = 0 !

Format of Single-point Met File

1 = AERMOD/AERMET SURFACE file

(MET1FMT) -- Default: 1 ! MET1FMT = 1 !

Receptor information

Gridded receptors processed? (LG) -- Default: F ! LG = T !

Discrete receptors processed? (LD) -- Default: F ! LD = T !

CTSG Complex terrain receptors processed?

(LCT) -- Default: F ! LCT = F !

--Report results by DISCRETE receptor RING?

(only used when LD = T) (LDRING) -- Default: F ! LDRING = F !

--Select range of DISCRETE receptors (only used when LD = T):

Select ALL DISCRETE receptors by setting NDRECP flag to -1;
OR
Select SPECIFIC DISCRETE receptors by entering a flag (0,1) for each
0 = discrete receptor not processed
1 = discrete receptor processed
using repeated value notation to select blocks of receptors:
23*1, 15*0, 12*1
Flag for all receptors after the last one assigned is set to 0
(NDRECP) -- Default: -1
! NDRECP = -1 !

--Select range of GRIDDED receptors (only used when LG = T):

X index of LL corner (IBGRID) -- Default: -1 ! IBGRID = -1 !
(-1 OR 1 <= IBGRID <= NX)
Y index of LL corner (JBGRID) -- Default: -1 ! JBGRID = -1 !
(-1 OR 1 <= JBGRID <= NY)
X index of UR corner (IEGRID) -- Default: -1 ! IEGRID = -1 !
(-1 OR 1 <= IEGRID <= NX)
Y index of UR corner (JEGRID) -- Default: -1 ! JEGRID = -1 !
(-1 OR 1 <= JEGRID <= NY)

Note: Entire grid is processed if IBGRID=JBGRID=IEGRID=JEGRID=-1

--Specific gridded receptors can also be excluded from CALPOST processing by filling a processing grid array with 0s and 1s. If the processing flag for receptor index (i,j) is 1 (ON), that receptor will be processed if it lies within the range delineated by IBGRID, JBGRID, IEGRID, JEGRID and if LG=T. If it is 0 (OFF), it will not be processed in the run. By default, all array values are set to 1 (ON).

Number of gridded receptor rows provided in Subgroup (1a) to identify specific gridded receptors to process
(NGONOFF) -- Default: 0 ! NGONOFF = 0 !

!END!

Subgroup (1a) -- Specific gridded receptors included/excluded

Specific gridded receptors are excluded from CALPOST processing by filling a processing grid array with 0s and 1s. A total of NGONOFF lines are read here. Each line corresponds to one 'row' in the sampling grid, starting with the NORTHERNMOST row that contains receptors that you wish to exclude, and finishing with row 1 to the SOUTH (no intervening rows may be skipped). Within a row, each receptor position is assigned either a 0 or 1, starting with the westernmost receptor.
0 = gridded receptor not processed

1 = gridded receptor processed

Repeated value notation may be used to select blocks of receptors:
23*1, 15*0, 12*1

Because all values are initially set to 1, any receptors north of the first row entered, or east of the last value provided in a row, remain ON.

(NGXRECP) -- Default: 1

INPUT GROUP: 2 -- Visibility Parameters (ASPEC = VISIB)

Test visibility options specified to see
if they conform to FLAG 2010 configuration?

(MVISCHECK) -- Default: 1 ! MVISCHECK = 1 !

0 = NO checks are made

1 = Technical options must conform to FLAG 2010 visibility guidance

ASPEC = VISIB

LVNO2 = T

NO2CALC = 1

RNO2NOX = 1.0

MVISBK = 8

M8_MODE = 5

Some of the data entered for use with the FLAG 2010 configuration are specific to the Class I area being evaluated. These values can be checked within the CALPOST user interface when the name of the Class I area is provided.

Name of Class I Area (used for QA purposes only)

(AREANAME) -- Default: User ! AREANAME = USER !

Particle growth curve f(RH) for hygroscopic species

(MFRH) -- Default: 4 ! MFRH = 4 !

1 = IWAQM (1998) f(RH) curve (originally used with MVISBK=1)

2 = FLAG (2000) f(RH) tabulation

3 = EPA (2003) f(RH) tabulation

4 = IMPROVE (2006) f(RH) tabulations for sea salt, and for small and large SULFATE and NITRATE particles;

Used in Visibility Method 8 (MVISBK = 8 with M8_MODE = 1, 2, or

3)

Maximum relative humidity (%) used in particle growth curve

(RHMAX) -- Default: 98 ! RHMAX = 95 !

Modeled species to be included in computing the light extinction

Include SULFATE? (LVSO4) -- Default: T ! LVSO4 = T !

Include NITRATE? (LVNO3) -- Default: T ! LVNO3 = T !

Include ORGANIC CARBON? (LVOC) -- Default: T ! LVOC = T !

Include COARSE PARTICLES? (LVPMC) -- Default: T ! LVPMC = T !

Include FINE PARTICLES? (LVPMF) -- Default: T ! LVPMF = T !

Include ELEMENTAL CARBON? (LVEC) -- Default: T ! LVEC = T !

Include NO2 absorption? (LVNO2) -- Default: F ! LVNO2 = F !

With Visibility Method 8 -- Default: T
FLAG (2010)

And, when ranking for TOP-N, TOP-50, and Exceedance tables,
Include BACKGROUND? (LVBK) -- Default: T ! LVBK = T !

Species name used for particulates in MODEL.DAT file

COARSE (SPECPMC) -- Default: PMC ! SPECPMC = PMC !
FINE (SPECPMF) -- Default: PMF ! SPECPMF = PMF !

Extinction Efficiency (1/Mm per ug/m**3)

MODELED particulate species:

PM COARSE (EPPMC) -- Default: 0.6 ! EPPMC = 0.6 !

PM FINE (EPPMF) -- Default: 1.0 ! EPPMF = 1 !

BACKGROUND particulate species:

PM COARSE (EPPMCBK) -- Default: 0.6 ! EPPMCBK = 0.6 !

Other species:

AMMONIUM SULFATE (EESO4) -- Default: 3.0 ! EESO4 = 3 !

AMMONIUM NITRATE (EENO3) -- Default: 3.0 ! EENO3 = 3 !

ORGANIC CARBON (EEOC) -- Default: 4.0 ! EEOC = 4 !

SOIL (EESOIL) -- Default: 1.0 ! EESOIL = 1 !

ELEMENTAL CARBON (EEEC) -- Default: 10. ! EEEC = 10 !

NO2 GAS (EENO2) -- Default: .1755 ! EENO2 = 0.1755 !

Visibility Method 8:

AMMONIUM SULFATE (EESO4S) Set Internally (small)

AMMONIUM SULFATE (EESO4L) Set Internally (large)

AMMONIUM NITRATE (EENO3S) Set Internally (small)

AMMONIUM NITRATE (EENO3L) Set Internally (large)

ORGANIC CARBON (EEOCS) Set Internally (small)

ORGANIC CARBON (EEOCL) Set Internally (large)

SEA SALT (EESALT) Set Internally

Background Extinction Computation

Method used for the 24h-average of percent change of light extinction:
Hourly ratio of source light extinction / background light extinction
is averaged? (LAVER) -- Default: F ! LAVER = F !

Method used for background light extinction

(MVISBK) -- Default: 8 ! MVISBK = 8 !

FLAG (2010)

- 1 = Supply single light extinction and hygroscopic fraction
- Hourly F(RH) adjustment applied to hygroscopic background
and modeled sulfate and nitrate
- 2 = Background extinction from speciated PM concentrations (A)
- Hourly F(RH) adjustment applied to observed and modeled sulfate
and nitrate
- F(RH) factor is capped at F(RHMAX)
- 3 = Background extinction from speciated PM concentrations (B)
- Hourly F(RH) adjustment applied to observed and modeled sulfate
and nitrate
- Receptor-hour excluded if RH>RHMAX
- Receptor-day excluded if fewer than 6 valid receptor-hours
- 4 = Read hourly transmissometer background extinction measurements
- Hourly F(RH) adjustment applied to modeled sulfate and nitrate

- Hour excluded if measurement invalid (missing, interference, or large RH)
- Receptor-hour excluded if RH>RHMAX
- Receptor-day excluded if fewer than 6 valid receptor-hours
- 5 = Read hourly nephelometer background extinction measurements
 - Rayleigh extinction value (BEXTRAY) added to measurement
 - Hourly F(RH) adjustment applied to modeled sulfate and nitrate
 - Hour excluded if measurement invalid (missing, interference, or large RH)
 - Receptor-hour excluded if RH>RHMAX
 - Receptor-day excluded if fewer than 6 valid receptor-hours
- 6 = Background extinction from speciated PM concentrations
 - FLAG (2000) monthly RH adjustment factor applied to observed

and

- and modeled sulfate and nitrate
- 7 = Use observed weather or prognostic weather information for background extinction during weather events; otherwise, use

Method 2

- Hourly F(RH) adjustment applied to modeled sulfate and nitrate
- F(RH) factor is capped at F(RHMAX)
- During observed weather events, compute Bext from visual range if using an observed weather data file, or
- During prognostic weather events, use Bext from the prognostic weather file
- Use Method 2 for hours without a weather event
- 8 = Background extinction from speciated PM concentrations using the IMPROVE (2006) variable extinction efficiency formulation (MFRH must be set to 4)
 - Split between small and large particle concentrations of SULFATES, NITRATES, and ORGANICS is a function of concentration and different extinction efficiencies are used for each
 - Source-induced change in visibility includes the increase in extinction of the background aerosol due to the change in the extinction efficiency that now depends on total concentration.
 - Fsmall(RH) and Flarge(RH) adjustments for small and large particles are applied to observed and modeled sulfate and nitrate concentrations
 - Fsalt(RH) adjustment for sea salt is applied to background sea salt concentrations
 - F(RH) factors are capped at F(RHMAX)
 - RH for Fsmall(RH), Flarge(RH), and Fsalt(RH) may be obtained from hourly data as in Method 2 or from the FLAG monthly RH adjustment factor used for Method 6 where EPA F(RH) tabulation is used to infer RH, or monthly Fsmall, Flarge, and Fsalt RH adjustment factors can be directly entered.

hourly

concentrations or daily concentrations to obtain the 24-hour extinction.

These choices are made using the M8_MODE selection.

Additional inputs used for MVISBK = 1:

```
-----
Background light extinction (1/Mm)
                                (BEXTBK) -- No default    ! BEXTBK = !
Percentage of particles affected by relative humidity
                                (RHFRAC) -- No default    ! RHFRAC = !
```

Additional inputs used for MVISBK = 6,8:

Extinction coefficients for hygroscopic species (modeled and background) are computed using a monthly RH adjustment factor in place of an hourly RH factor (VISB.DAT file is NOT needed). Enter the 12 monthly factors here (RHFAC). Month 1 is January.

(RHFAC) -- No default ! RHFAC = 0,0,0,0,0,0,0,0,0,0,0,0 !

Additional inputs used for MVISBK = 7:

The weather data file (DATSAV abbreviated space-delimited) that is identified as VSRN.DAT may contain data for more than one station. Identify the stations that are needed in the order in which they will be used to obtain valid weather and visual range. The first station that contains valid data for an hour will be used. Enter up to MXWSTA (set in PARAMS file) integer station IDs of up to 6 digits each as variable IDWSTA, and enter the corresponding time zone for each, as variable TZONE (= UTC-LST).

A prognostic weather data file with Bext for weather events may be used in place of the observed weather file. Identify this as the VSRN.DAT file and use a station ID of IDWSTA = 999999, and TZONE = 0.

NOTE: TZONE identifies the time zone used in the dataset. The DATSAV abbreviated space-delimited data usually are prepared with UTC time rather than local time, so TZONE is typically set to zero.

(IDWSTA) -- No default * IDWSTA = 000000 *
(TZONE) -- No default * TZONE = 0. *

Additional inputs used for MVISBK = 2,3,6,7,8:

Background extinction coefficients are computed from monthly CONCENTRATIONS of ammonium sulfate (BKSO4), ammonium nitrate (BKNO3), coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and elemental carbon (BKEC). Month 1 is January.
(ug/m**3)

(BKSO4) -- No default ! BKSO4 = 0,0,0,0,0,0,0,0,0,0,0,0 !
(BKNO3) -- No default ! BKNO3 = 0,0,0,0,0,0,0,0,0,0,0,0 !
(BKPMC) -- No default ! BKPMC = 0,0,0,0,0,0,0,0,0,0,0,0 !
(BKOC) -- No default ! BKOC = 0,0,0,0,0,0,0,0,0,0,0,0 !
(BKSOIL) -- No default ! BKSOIL = 0,0,0,0,0,0,0,0,0,0,0,0 !
(BKEC) -- No default ! BKEC = 0,0,0,0,0,0,0,0,0,0,0,0 !

Additional inputs used for MVISBK = 8:

Extinction coefficients for hygroscopic species (modeled and background) may be computed using hourly RH values and hourly modeled concentrations, or using monthly RH values inferred from the RHFAC adjustment factors and either hourly or daily modeled concentrations, or using monthly RHFSML, RHFLRG, and RHFSEA adjustment factors and either hourly or daily modeled concentrations.

(M8_MODE) -- Default: 5 ! M8_MODE = 5 !
FLAG (2010)

-
- 1 = Use hourly RH values from VISB.DAT file with hourly modeled and monthly background concentrations.
 - 2 = Use monthly RH from monthly RHFAC and EPA (2003) f(RH) tabulation with hourly modeled and monthly background concentrations. (VISB.DAT file is NOT needed).
 - 3 = Use monthly RH from monthly RHFAC with EPA (2003) f(RH) tabulation with daily modeled and monthly background concentrations. (VISB.DAT file is NOT needed).
 - 4 = Use monthly RHFSML, RHFLRG, and RHFSEA with hourly modeled and monthly background concentrations. (VISB.DAT file is NOT needed).
 - 5 = Use monthly RHFSML, RHFLRG, and RHFSEA with daily modeled and monthly background concentrations. (VISB.DAT file is NOT needed).

Background extinction coefficients are computed from monthly CONCENTRATIONS of sea salt (BKSALT). Month 1 is January. (ug/m**3)

(BKSALT) -- No default ! BKSALT = 0,0,0,0,0,0,0,0,0,0,0,0 !

Extinction coefficients for hygroscopic species (modeled and background) can be computed using monthly RH adjustment factors in place of an hourly RH factor (VISB.DAT file is NOT needed). Enter the 12 monthly factors here (RHFSML,RHFLRG,RHFSEA). Month 1 is January. (Used if M8_MODE = 4 or 5)

Small ammonium sulfate and ammonium nitrate particle sizes (RHFSML) -- No default ! RHFSML = 0,0,0,0,0,0,0,0,0,0,0,0 !

Large ammonium sulfate and ammonium nitrate particle sizes (RHFLRG) -- No default ! RHFLRG = 0,0,0,0,0,0,0,0,0,0,0,0 !

Sea salt particles (RHFSEA) -- No default ! RHFSEA = 0,0,0,0,0,0,0,0,0,0,0,0 !

Additional inputs used for MVISBK = 2,3,5,6,7,8:

 Extinction due to Rayleigh scattering is added (1/Mm)
 (BEXTRAY) -- Default: 10.0 ! BEXTRAY = 10.0 !

!END!

 INPUT GROUP: 3 -- Output options

Documentation

Documentation records contained in the header of the CALPUFF output file may be written to the list file.
 Print documentation image?

(LDOC) -- Default: F ! LDOC = F !

Types of tabulations reported

-
-
- 1) **Visibility:** daily visibility tabulations are always reported for the selected receptors when ASPEC = VISIB. In addition, any of the other tabulations listed below may be chosen to characterize the light extinction coefficients.
[List file or Plot/Analysis File]

 - 2) Top 50 table for each averaging time selected
[List file only]
(LT50) -- Default: T ! LT50 = T !

 - 3) Top 'N' table for each averaging time selected
[List file or Plot file]
(LTOPN) -- Default: F ! LTOPN = T !
 - Number of 'Top-N' values at each receptor selected (NTOP must be <= 4)
(NTOP) -- Default: 4 ! NTOP = 1 !

 - Specific ranks of 'Top-N' values reported (NTOP values must be entered)
(ITOP(4) array) -- Default: ! ITOP = 1 !
1,2,3,4

 - Screen applied to values before updating stored ranks
(ITOPS) -- Default: 0 ! ITOPS = 0 !

 - 0 = No screen: all values at each receptor are ranked (rank 1 and rank 2 may be in same day)
 - 1 = Day screen: only peak value in day at each receptor is ranked (rank 1 and rank 2 may not be in same day)

 - 4) Threshold exceedance counts for each receptor and each averaging time selected
[List file or Plot file]
(LEXCD) -- Default: F ! LEXCD = F !
 - Counts for the shortest averaging period selected can be tallied daily, and receptors that experience more than NCOUNT counts over any NDAY period will be reported. This type of exceedance violation output is triggered only if NDAY > 0.

 - Accumulation period(Days)
(NDAY) -- Default: 0 ! NDAY = 0 !
 - Number of exceedances allowed
(NCOUNT) -- Default: 1 ! NCOUNT = 1 !

 - 5) Selected day table(s)
 - Echo Option -- Many records are written each averaging period selected and output is grouped by day
[List file or Plot file]

(LECHO) -- Default: F ! LECHO = F !

Timeseries Option -- Averages at all selected receptors for each selected averaging period are written to timeseries files. Each file contains one averaging period, and all receptors are written to a single record each averaging time.

[TSERIES_ASPEC_ttHR_CONC_TSUNAM.DAT files]

(LTIME) -- Default: F ! LTIME = F !

Peak Value Option -- Averages at all selected receptors for each selected averaging period are screened and the peak value each period is written to timeseries files. Each file contains one averaging period.

[PEAKVAL_ASPEC_ttHR_CONC_TSUNAM.DAT files]

(LPEAK) -- Default: F ! LPEAK = F !

-- Days selected for output

(IECHO(366)) -- Default: 366*0

! IECHO = 366*1 !

(366 values must be entered)

Plot output options

Plot files can be created for the Top-N, Exceedance, and Echo tables selected above. Several formats for these files are available:

- Tabular listings for ALL selected receptors, reporting the (x,y) location and value(s) in columns
 - .DAT -- Columns are formatted for direct viewing in text editors
 - .CSV -- Columns are delimited by commas
- Raster formats in which results at GRIDDED receptors ONLY are written using a compact representation.
 - .GRD -- SURFER(R) plotting software format
 - .ASC -- ESRI ASCII Grid format

The CSV (comma-separated-variable) format is useful for importing results into software that automatically recognizes CSV files. The SURFER and ESRI raster formats are similar, but are specific to the type of software indicated. GRD files can be read directly into SURFER. ASC files can be read into ArcMap/ArcGIS systems.

Generate Plot file output in addition to writing tables to List file (ECHO goes to either List or Plot)?

(LPLT) -- Default: F ! LPLT = T !

Plot cumulative values in addition to incremental values?

(LCUM) -- Default: F ! LCUM = F !

Plot file format?

(PLOTFM) -- Default: 1 ! PLOTFM = 1 !

- 1 = .DAT CALVIEW/SURFER (formatted columns)
- 2 = .CSV ArcMap/ArcGIS (comma-separated-variable columns)
- 3 = .GRD CALVIEW/SURFER (SURFER 2D grid raster format)
- 4 = .ASC ArcMap/ArcGIS (ESRI ASCII 2D grid raster format)

Auxiliary Output Files (for subsequent analyses)

Visibility

A separate output file may be requested that contains the change in visibility at each selected receptor when ASPEC = VISIB. This file can be processed to construct visibility measures that are not available in CALPOST.

Output file with the visibility change at each receptor?
(MDVIS) -- Default: 0 ! MDVIS = 0 !

- 0 = Do Not create file
- 1 = Create file of DAILY (24 hour) Delta-Deciview
- 2 = Create file of DAILY (24 hour) Extinction Change (%)
- 3 = Create file of HOURLY Delta-Deciview
- 4 = Create file of HOURLY Extinction Change (%)

Additional Debug Output

Output selected information to List file
for debugging?
(LDEBUG) -- Default: F ! LDEBUG = F !

Output hourly extinction information to REPORT.HRV?
(Visibility Method 7)
(LVEXTHR) -- Default: F ! LVEXTHR = F !

!END!

INPUT GROUP: 4 -- Species processing information

Definitions:

Species to process (ASPEC) -- No default
Notes --
a. ASPEC = VISIB for visibility processing

Layer/deposition code (ILAYER) -- Default: 1
'1' for CALPUFF concentrations,
'-1' for dry deposition fluxes,
'-2' for wet deposition fluxes,
'-3' for wet+dry deposition fluxes.

Notes --
a. Use actual model layer when processing
3D gridded concentration data

Units for Output (IPRTU) -- Default: 0
Concentration Deposition

	-----	-----	
-4 =	ppt		parts per trillion
-3 =	ppb		parts per billion
-2 =	ppm		parts per million
-1 =	%		percent
0 =	(data)	(data)	use units from data file
1 =	g/m**3	g/m**2/s	
2 =	mg/m**3	mg/m**2/s	

3 = ug/m**3 ug/m**2/s
 4 = ng/m**3 ng/m**2/s
 5 = Odour Units
 11 = TBq/m**3 TBq/m**2/s TBq=terabecquerel
 12 = GBq/m**3 GBq/m**2/s GBq=gigabecquerel
 13 = Bq/m**3 Bq/m**2/s Bq=becquerel (disintegrations/s)

Notes --

- a. Use IPRTU=0 to retain the units in the data file
- b. Mass concentration output units (e.g. ug/m**3) are allowed only if input data are in mass concentration units
- c. Volume concentration output units (e.g. ppb) are allowed only if input data are in volume concentration units
- d. Radiation output units (e.g. GBq/m**3) are allowed only if input data are in radiation units
- e. Visibility extinction expressed in 1/Mega-meters (IPRTU is ignored)

Scaling of the form: $X(\text{new}) = X(\text{old}) * A + B$
 Multiplicative Factor (A) -- Default: 0.0
 Additive Term (B) -- Default: 0.0

Notes --

- a. Scaling is NOT applied if A = B = 0.0
- b. Additive term B must be provided in the IPRTU output units

Averaging time(s) reported

1-pd averages (L1PD) -- Default: T
 (pd = averaging period of model output)
 1-hr averages (L1HR) -- Default: T
 3-hr averages (L3HR) -- Default: T
 24-hr averages (L24HR) -- Default: T
 Run-length averages (LRUNL) -- Default: T
 User-specified averaging time in hours, minutes, seconds
 (results for averaging time are reported if it is not zero)
 (NAVGH) -- Default: 0
 (NAVGM) -- Default: 0
 (NAVGS) -- Default: 0

Threshold concentrations (output units)

used to tally threshold exceedance counts for each averaging time
 (used only if LEXCD = T)

Threshold for 1-hr averages (THRESH1) -- Default: -1.0
 Threshold for 3-hr averages (THRESH3) -- Default: -1.0
 Threshold for 24-hr averages (THRESH24) -- Default: -1.0
 Threshold for NAVG-hr averages (THRESHN) -- Default: -1.0

Values:

Assign NSPEC comma-separated values on a line for each of the variables in this group to identify which species are processed, and to provide species-related inputs.

Species names must have 12 non-blank characters or less.

Visibility applications must have only 1 species, and it must be VISIB.

Variable Default Assignment (VARIABLE = v(1), v(2), ... v(NSPEC))

```
-----
Species (none) ! ASPEC = TSP, PM10, PM2.5 !
Layer 1 ! ILAYER = 1,1,1 !
Units 1 ! IPRTU = 3,3,3 !
```

Every period of data processed -- NREP = 1

SAMPLER option

Processing method: 0
0= SAMPLER option not used
1= Report total modeled impact (list file)
2= TRACEBACK mode (DAT files)
3= TRACEBACK mode with sampling factor (DAT files)

Source information

Source contribution processing: 0
0= No source contributions
1= Contributions are summed
2= TRACEBACK mode for 1 receptor
3= Reported TOTAL is processed

Receptor information

Gridded receptors processed?: T
Discrete receptors processed?: T
CTSG Complex terrain receptors processed?: F

Gridded Receptors Processed

(All Gridded Receptors are Used)

Discrete Receptors Processed

(All Discrete Receptors are Used)

TOP-N ranked values Reported

Species & Concentration/Deposition Information

Requested Species Number: 1
Species: TSP
Layer of processed data: 1
(>0=conc, -1=dry flux, -2=wet flux, -3=wet & dry flux)
Multiplicative scaling factor: 0.0000E+00
Additive scaling term: 0.0000E+00
Hourly background values used?: F

Visibility Processing is NOT Selected

Output options

Units requested for output: (ug/m**3)

Averaging time(s) selected

User-specified averaging time (hr:mm:ss): 0: 0: 0
1-pd averages: F
1-hr averages: F
3-hr averages: F
24-hr averages: T

User-specified averages: F
Length of run averages: T

Output components selected

Top-50: T
Top-N values at each receptor: T
Exceedance counts at each receptor: F
Output selected information for debugging: F
Echo tables for selected days: F
Time-series for selected days: F
Peak value Time-series for selected days: F

Top "n" table control

Number of "top" values at each receptor: 1
Specific ranks of "top" values reported: 1

Plot file option

Plot files created: T
Plot file format is DATA: .DAT

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MAPSPEC: Species Mapping

Number of species-levels in file : 3
Number of species-levels processed: 4

Input species-levels in file processed

Input ID	Processing ID	Name	
1	1	TSP	1
2	2	PM10	1
3	3	PM2.5	1

All processed species-levels available

Processing ID	Name	
1	TSP	1
2	PM10	1
3	PM2.5	1
4	NO2	1

Processed species-level associated with background

Processing ID	Name	
1	TSP	1

Visibility Species

Processing ID	Name	
4	NO2	1

IDENTIFICATION OF PROCESSED MODEL FILE -----

CALPUFF 7.3.1 171016

CALPUFF KIPT Construction Model, Rev B 20180706

Averaging time for values reported from model:
1 HOUR

Number of averaging periods in file from model:
8760

Chemical species names for each layer in model:
TSP 1
PM10 1
PM2.5 1

QA Information -- Internal Representation of Data

CONTENTS OF CONTROL FILE -----
METRUN = 1
(so times in model output file are used)
isyr,ismo,isdy = 2008 12 31
ishr,ismin,issec = 23 0 0
ieyr,iemo,iedy = 2009 12 31
iehr,iemin,iesec = 23 0 0
nper = 8760

Data may be processed only within certain hours

Hour 01 is processed for all averages
Hour 02 is processed for all averages
Hour 03 is processed for all averages
Hour 04 is processed for all averages
Hour 05 is processed for all averages
Hour 06 is processed for all averages
Hour 07 is processed for all averages
Hour 08 is processed for all averages
Hour 09 is processed for all averages
Hour 10 is processed for all averages
Hour 11 is processed for all averages
Hour 12 is processed for all averages
Hour 13 is processed for all averages
Hour 14 is processed for all averages
Hour 15 is processed for all averages
Hour 16 is processed for all averages
Hour 17 is processed for all averages
Hour 18 is processed for all averages
Hour 19 is processed for all averages
Hour 20 is processed for all averages
Hour 21 is processed for all averages
Hour 22 is processed for all averages
Hour 23 is processed for all averages
Hour 24 is processed for all averages

aspec,ilayer =TSP 1
asplv =TSP 1
NO2CALC = 1
NO2 Converted from NOx by Single Factor

```

RNO2NOX          = 1.00000000
MSOURCE          = 0
MCALMPRO        = 0
MET1FMT         = 1
LG,LD,LCT,LDRING = T T F F
IBGRID,IEGRID   = -1 -1
JBGRID,JEGRID   = -1 -1
NDRECP          =
-1 0 0
a,b,LSCALE      = 0.00000000E+00 0.00000000E+00 F
(b is in internal data units)
LBACK           = F
MVISBK         = 8
MVISCHECK      = 1
AREANAME       =USER
MFRH           = 4
RHMAX,BEXTRAY  = 95.0000000 10.0000000
RHFrac,BEXTBK  = 0.00000000E+00 0.00000000E+00
LVSO4,LVNO3,LVNO2 = T T F
LVOC,LVEC      = T T
LVPMC,LVPMF,LVBK = T T T
SPECPMC,SPECPMF =PMC          PMF
EELM,EELM,EELM = 0.600000024 1.00000000 0.600000024
EESO4,EENO3,EEOC = 3.00000000 3.00000000 4.00000000
EESO4S,EENO3S,EEOCS = 2.20000005 2.40000010 2.79999995
EESO4L,EENO3L,EEOCL = 4.80000019 5.09999990 6.09999990
EESOIL,EEEC,EENO2 = 1.00000000 10.0000000 0.175500005
navg,ntop      = 0 1
navgh,navgm,navgs = 0 0 0
itop           = 1
itops          = 0
L[1,3,24]HR   = F F T
LNAVGL,LRUNL  = F T
LT50,LTOPN,LEXCD = T T F
LECHO,LTIME,LPEAK = F F F
LCUM           = F
THRESH1        = -1.00000000
THRESH3        = -1.00000000
THRESH24       = -1.00000000
THRESHN        = -1.00000000
(Thresholds in output data units)(ug/m**3)
STHRESH1       = -1.00000000
STHRESH3       = -1.00000000
STHRESH24      = -1.00000000
STHRESHN       = -1.00000000
(S-Thresholds in internal data units)
LPLT,IPLOTFM   = T 1
MDVIS          = 0
LDEBUG         = F
LCTSG         = F

```

CONTENTS OF HEADER OF MODEL OUTPUT FILE -----

```

model : CALPUFF      7.3.1      171016
msyr,mjyday     = 2008 366
mshr,mssec      = 23 0
nsecdt (period) = 3600
axbtz           = UTC+1000
xbtz            = -10.0000000
mnper,nszout,mavgpd = 8760 3 1

```

xorigkm,yorigkm,nssta = 709.800049 6048.30029 0
ielmet,jelmet = 101 101
delx,dely,nz = 0.200000003 0.200000003 1
iastar,iastop,jastar,jastop = 1 101 1 101
isastr,isastp,jsastr,jsastp = 38 63 38 63
(computed) ngx,ngy = 51 51
meshdn = 2
ndrec,nctrec,LSGRID = 3 0 T

Discrete Receptors (n,x,y,z,ht,group):
1 720.197083 6058.28857 17.0000000 0.00000000E+00 1
2 720.554077 6057.76270 25.0000000 0.00000000E+00 2
3 719.615051 6057.70947 56.0000000 0.00000000E+00 3

Discrete Receptor Groups (group,name):
1 1
2 2
3 3

Number of Sources by Type
Control-file POINT Sources : 0
EMARB-file POINT Sources : 0
Control-file AREA Sources : 0
EMARB-file AREA Sources : 0
Control-file LINE Sources : 0
EMARB-file LINE Sources : 0
Control-file VOLUME Sources: 22
EMARB-file VOLUME Sources : 0
(boundary sources) : 0
Control-file FLARE Sources : 0
EMARB-file FLARE Sources : 0
Control-file ROAD Sources : 0
EMARB-file ROAD Sources : 0
Control-file SPRAY Sources : 0
EMARB-file SPRAY Sources : 0

Source Names
WE1
WE2
WE3
WE4
WE5
VT1
VT2
VT3
VT4
VT5
VT6
VT7
VT8
VT9
VT10
UNLD
EXCV1
EXCV2
EXCV3
SHD1
SHD2
SHD3

***** NOTICE *****
 NDRECP array reset to full range: all 1s

***** NOTICE *****
 Gridded receptor range reset to NGX by NGY

 INPUT FILES

Default Name	Unit No.	File Name and Path
CALPOST.INP	5	KIPT_Stage_2_calpost1.inp
MODEL.DAT	4	

c:\users\public\documents\work\20180706\calpuff.con

 OUTPUT FILES

Default Name	Unit No.	File Name and Path
CALPOST.LST	8	calpost1.lst
(TOPN)	11	RANK()_SPECIES_ttHR_CONC_rl.DAT

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Level 150720

		TSP	1												
TOP-50	24	HOUR AVERAGE CONCENTRATION VALUES (ug/m**3)													
(Data are processed only in Hours: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24)															
	STARTING YEAR	DAY	TIME(HHMM)	RECEPTOR	TYPE	CONCENTRATION	COORDINATES								
							(km)								
6058.400	2009	118	2300	(28, 27)	G	6.7617E+01	720.000								
6058.200	2009	118	2300	(28, 25)	G	4.6751E+01	720.000								
6058.500	2009	332	2300	(28, 28)	G	4.4895E+01	720.000								
6058.500	2009	13	2300	(28, 28)	G	4.4192E+01	720.000								
6058.400	2009	200	2300	(28, 27)	G	4.2871E+01	720.000								
6058.400	2009	161	2300	(28, 27)	G	4.1580E+01	720.000								
6058.500	2009	357	2300	(28, 28)	G	4.0966E+01	720.000								
6058.300	2009	172	2300	(27, 26)	G	4.0466E+01	719.900								

6058.300	2009	200	2300	(27, 26)	G	4.0100E+01	719.900
6058.300	2009	332	2300	(28, 26)	G	3.9728E+01	720.000
6058.400	2009	219	2300	(28, 27)	G	3.9534E+01	720.000
6058.300	2009	13	2300	(28, 26)	G	3.9469E+01	720.000
6058.400	2009	64	2300	(27, 27)	G	3.9120E+01	719.900
6058.400	2009	167	2300	(28, 27)	G	3.9034E+01	720.000
6058.300	2009	199	2300	(27, 26)	G	3.8886E+01	719.900
6058.400	2009	145	2300	(27, 27)	G	3.8685E+01	719.900
6058.400	2009	166	2300	(27, 27)	G	3.8538E+01	719.900
6058.200	2009	172	2300	(27, 25)	G	3.7904E+01	719.900
6058.200	2009	199	2300	(27, 25)	G	3.7693E+01	719.900
6058.100	2009	172	2300	(27, 24)	G	3.7484E+01	719.900
6058.300	2009	118	2300	(27, 26)	G	3.7081E+01	719.900
6058.200	2009	161	2300	(28, 25)	G	3.6930E+01	720.000
6058.300	2009	357	2300	(28, 26)	G	3.6859E+01	720.000
6058.400	2009	120	2300	(27, 27)	G	3.6733E+01	719.900
6058.500	2009	38	2300	(28, 28)	G	3.6189E+01	720.000
6058.200	2009	161	2300	(27, 25)	G	3.4870E+01	719.900
6058.100	2009	199	2300	(27, 24)	G	3.4809E+01	719.900
6058.200	2009	193	2300	(27, 25)	G	3.4582E+01	719.900
6058.100	2009	161	2300	(27, 24)	G	3.4468E+01	719.900
6058.200	2009	200	2300	(28, 25)	G	3.4078E+01	720.000
6058.300	2009	178	2300	(27, 26)	G	3.3916E+01	719.900
6058.400	2009	199	2300	(28, 27)	G	3.3754E+01	720.000
6058.100	2009	199	2300	(28, 24)	G	3.3474E+01	720.000
6058.300	2009	350	2300	(28, 26)	G	3.3471E+01	720.000
6058.300	2009	161	2300	(27, 26)	G	3.3378E+01	719.900
6058.200	2009	134	2300	(27, 25)	G	3.3344E+01	719.900
6058.400	2009	162	2300	(28, 27)	G	3.3228E+01	720.000
6058.300	2009	113	2300	(27, 26)	G	3.3084E+01	719.900

6058.400	2009	172	2300	(28, 27)	G	3.3012E+01	720.000
6058.300	2009	289	2300	(28, 26)	G	3.2631E+01	720.000
6058.500	2009	6	2300	(28, 28)	G	3.2561E+01	720.000
6058.300	2009	179	2300	(27, 26)	G	3.2519E+01	719.900
6058.200	2009	179	2300	(27, 25)	G	3.2387E+01	719.900
6058.400	2009	175	2300	(28, 27)	G	3.2362E+01	720.000
6058.300	2009	153	2300	(26, 26)	G	3.2316E+01	719.800
6058.200	2009	198	2300	(27, 25)	G	3.2245E+01	719.900
6058.200	2009	182	2300	(27, 25)	G	3.2201E+01	719.900
6058.300	2009	233	2300	(27, 26)	G	3.2067E+01	719.900
6058.200	2009	199	2300	(28, 25)	G	3.2057E+01	720.000
6058.100	2009	172	2300	(28, 24)	G	3.2049E+01	720.000

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Level 150720

TSP 1

TOP-50 8760 HOUR AVERAGE CONCENTRATION VALUES (ug/m**3)

(Data are processed only in Hours: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24)

STARTING YEAR DAY TIME(HHMM) RECEPTOR TYPE CONCENTRATION COORDINATES
(km)

6058.400	2008	366	2300	(27, 27)	G	1.2351E+01	719.900
6058.300	2008	366	2300	(27, 26)	G	1.2170E+01	719.900
6058.400	2008	366	2300	(28, 27)	G	1.1759E+01	720.000
6058.300	2008	366	2300	(28, 26)	G	1.1481E+01	720.000
6058.200	2008	366	2300	(27, 25)	G	1.0109E+01	719.900
6058.300	2008	366	2300	(26, 26)	G	8.3768E+00	719.800
6058.200	2008	366	2300	(28, 25)	G	8.1134E+00	720.000
6058.400	2008	366	2300	(26, 27)	G	7.5266E+00	719.800
6058.500	2008	366	2300	(26, 28)	G	6.8792E+00	719.800

6058.200	2008	366	2300	(26, 25)	G	6.5858E+00	719.800
6058.500	2008	366	2300	(28, 28)	G	6.5552E+00	720.000
6058.600	2008	366	2300	(26, 29)	G	6.1414E+00	719.800
6058.500	2008	366	2300	(27, 28)	G	6.0439E+00	719.900
6058.700	2008	366	2300	(26, 30)	G	5.3205E+00	719.800
6058.100	2008	366	2300	(27, 24)	G	5.1262E+00	719.900
6058.900	2008	366	2300	(26, 32)	G	4.6729E+00	719.800
6058.800	2008	366	2300	(26, 31)	G	4.6086E+00	719.800
6058.700	2008	366	2300	(27, 30)	G	4.3856E+00	719.900
6058.800	2008	366	2300	(27, 31)	G	4.3395E+00	719.900
6058.600	2008	366	2300	(27, 29)	G	4.3207E+00	719.900
6058.900	2008	366	2300	(27, 32)	G	4.1887E+00	719.900
6058.100	2008	366	2300	(28, 24)	G	4.0998E+00	720.000
6059.000	2008	366	2300	(26, 33)	G	4.0953E+00	719.800
6058.800	2008	366	2300	(25, 31)	G	3.9923E+00	719.700
6058.300	2008	366	2300	(29, 26)	G	3.9430E+00	720.100
6058.900	2008	366	2300	(25, 32)	G	3.9268E+00	719.700
6058.400	2008	366	2300	(29, 27)	G	3.9117E+00	720.100
6059.000	2008	366	2300	(27, 33)	G	3.6485E+00	719.900
6058.700	2008	366	2300	(25, 30)	G	3.4623E+00	719.700
6058.200	2008	366	2300	(29, 25)	G	3.4327E+00	720.100
6059.000	2008	366	2300	(25, 33)	G	3.3624E+00	719.700
6058.100	2008	366	2300	(26, 24)	G	3.1795E+00	719.800
6058.600	2008	366	2300	(28, 29)	G	3.1133E+00	720.000
6059.100	2008	366	2300	(26, 34)	G	2.9695E+00	719.800
6058.400	2008	366	2300	(25, 27)	G	2.8969E+00	719.700
6058.500	2008	366	2300	(25, 28)	G	2.8674E+00	719.700
6058.700	2008	366	2300	(28, 30)	G	2.8588E+00	720.000
6058.600	2008	366	2300	(25, 29)	G	2.8402E+00	719.700
6058.800	2008	366	2300	(28, 31)	G	2.8362E+00	720.000

6058.500	2008	366	2300	(29, 28)	G	2.7527E+00	720.100
6058.300	2008	366	2300	(25, 26)	G	2.7463E+00	719.700
6059.100	2008	366	2300	(27, 34)	G	2.6832E+00	719.900
6058.900	2008	366	2300	(28, 32)	G	2.6142E+00	720.000
6059.100	2008	366	2300	(25, 34)	G	2.5221E+00	719.700
6058.900	2008	366	2300	(24, 32)	G	2.4245E+00	719.600
6058.800	2008	366	2300	(24, 31)	G	2.4130E+00	719.600
6059.000	2008	366	2300	(28, 33)	G	2.2444E+00	720.000
6058.200	2008	366	2300	(25, 25)	G	2.2405E+00	719.700
6058.600	2008	366	2300	(29, 29)	G	2.2018E+00	720.100
6058.100	2008	366	2300	(29, 24)	G	2.1359E+00	720.100

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Level 150720

TSP 1

1 RANKED 24 HOUR AVERAGE CONCENTRATION VALUES AT EACH GRIDDED RECEPTOR
(YEAR, DAY, START TIME) (ug/m**3)

(Data are processed only in Hours: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24)

RECEPTOR	COORDINATES (km)		1 RANK
1, 1	717.300	6055.800	1.9437E-01 (2009,111,2300)
1, 2	717.300	6055.900	1.9852E-01 (2009,252,2300)
1, 3	717.300	6056.000	1.9788E-01 (2009,252,2300)
1, 4	717.300	6056.100	1.9142E-01 (2009,252,2300)
1, 5	717.300	6056.200	1.7959E-01 (2009,252,2300)
1, 6	717.300	6056.300	1.9216E-01 (2009,117,2300)
1, 7	717.300	6056.400	2.3460E-01 (2009,117,2300)
1, 8	717.300	6056.500	2.7420E-01 (2009,117,2300)
1, 9	717.300	6056.600	3.0643E-01 (2009,117,2300)
1, 10	717.300	6056.700	3.2722E-01 (2009,117,2300)
1, 11	717.300	6056.800	3.3413E-01 (2009,117,2300)
1, 12	717.300	6056.900	3.2700E-01 (2009,117,2300)
1, 13	717.300	6057.000	3.0759E-01 (2009,117,2300)
1, 14	717.300	6057.100	2.7930E-01 (2009,117,2300)
1, 15	717.300	6057.200	2.4605E-01 (2009,117,2300)
1, 16	717.300	6057.300	2.1162E-01 (2009,117,2300)
1, 17	717.300	6057.400	1.7867E-01 (2009,117,2300)
1, 18	717.300	6057.500	1.7943E-01 (2009,123,2300)
1, 19	717.300	6057.600	2.0650E-01 (2009,123,2300)
1, 20	717.300	6057.700	2.3411E-01 (2009,123,2300)

1, 21	717.300	6057.800	2.6075E-01	(2009,123,2300)
1, 22	717.300	6057.900	2.8480E-01	(2009,123,2300)
1, 23	717.300	6058.000	3.0448E-01	(2009,123,2300)
1, 24	717.300	6058.100	3.1862E-01	(2009,123,2300)
1, 25	717.300	6058.200	3.2650E-01	(2009,123,2300)
1, 26	717.300	6058.300	3.2781E-01	(2009,123,2300)
1, 27	717.300	6058.400	3.2394E-01	(2009,138,2300)
1, 28	717.300	6058.500	3.5470E-01	(2009,138,2300)
1, 29	717.300	6058.600	3.7627E-01	(2009,138,2300)
1, 30	717.300	6058.700	3.8724E-01	(2009,138,2300)
1, 31	717.300	6058.800	3.8745E-01	(2009,138,2300)
1, 32	717.300	6058.900	4.0613E-01	(2009,140,2300)
1, 33	717.300	6059.000	4.4820E-01	(2009,140,2300)
1, 34	717.300	6059.100	4.7134E-01	(2009,140,2300)
1, 35	717.300	6059.200	4.3615E-01	(2009,140,2300)
1, 36	717.300	6059.300	4.3375E-01	(2009,140,2300)
1, 37	717.300	6059.400	4.1369E-01	(2009,281,2300)
1, 38	717.300	6059.500	4.4215E-01	(2009,281,2300)
1, 39	717.300	6059.600	4.5296E-01	(2009,281,2300)
1, 40	717.300	6059.700	4.8213E-01	(2009,149,2300)
1, 41	717.300	6059.800	5.2581E-01	(2009,001,2300)
1, 42	717.300	6059.900	5.7348E-01	(2009,001,2300)
1, 43	717.300	6060.000	5.8521E-01	(2009,001,2300)
1, 44	717.300	6060.100	5.6272E-01	(2009,176,2300)
1, 45	717.300	6060.200	5.9723E-01	(2009,136,2300)
1, 46	717.300	6060.300	6.1714E-01	(2009,136,2300)
1, 47	717.300	6060.400	6.3277E-01	(2009,298,2300)
1, 48	717.300	6060.500	6.6441E-01	(2009,298,2300)
1, 49	717.300	6060.600	6.5841E-01	(2009,298,2300)
1, 50	717.300	6060.700	6.1643E-01	(2009,298,2300)
1, 51	717.300	6060.800	5.4579E-01	(2009,298,2300)
2, 1	717.400	6055.800	2.0845E-01	(2009,111,2300)
2, 2	717.400	6055.900	2.1012E-01	(2009,111,2300)
2, 3	717.400	6056.000	2.1043E-01	(2009,252,2300)
2, 4	717.400	6056.100	2.1033E-01	(2009,252,2300)
2, 5	717.400	6056.200	2.0378E-01	(2009,252,2300)
2, 6	717.400	6056.300	1.9119E-01	(2009,252,2300)
2, 7	717.400	6056.400	2.1139E-01	(2009,117,2300)
2, 8	717.400	6056.500	2.5581E-01	(2009,117,2300)
2, 9	717.400	6056.600	2.9556E-01	(2009,117,2300)
2, 10	717.400	6056.700	3.2582E-01	(2009,117,2300)
2, 11	717.400	6056.800	3.4267E-01	(2009,117,2300)
2, 12	717.400	6056.900	3.4442E-01	(2009,117,2300)
2, 13	717.400	6057.000	3.3161E-01	(2009,117,2300)
2, 14	717.400	6057.100	3.0725E-01	(2009,117,2300)
2, 15	717.400	6057.200	2.7541E-01	(2009,117,2300)
2, 16	717.400	6057.300	2.4023E-01	(2009,117,2300)
2, 17	717.400	6057.400	2.0510E-01	(2009,117,2300)
2, 18	717.400	6057.500	1.8618E-01	(2009,123,2300)
2, 19	717.400	6057.600	2.1577E-01	(2009,123,2300)
2, 20	717.400	6057.700	2.4632E-01	(2009,123,2300)
2, 21	717.400	6057.800	2.7620E-01	(2009,123,2300)
2, 22	717.400	6057.900	3.0337E-01	(2009,123,2300)
2, 23	717.400	6058.000	3.2577E-01	(2009,123,2300)
2, 24	717.400	6058.100	3.4194E-01	(2009,123,2300)
2, 25	717.400	6058.200	3.5098E-01	(2009,123,2300)
2, 26	717.400	6058.300	3.5243E-01	(2009,123,2300)
2, 27	717.400	6058.400	3.4806E-01	(2009,138,2300)
2, 28	717.400	6058.500	3.8145E-01	(2009,138,2300)
2, 29	717.400	6058.600	4.0434E-01	(2009,138,2300)

2, 30	717.400	6058.700	4.1501E-01	(2009,138,2300)
2, 31	717.400	6058.800	4.1388E-01	(2009,138,2300)
2, 32	717.400	6058.900	4.4189E-01	(2009,140,2300)
2, 33	717.400	6059.000	4.9288E-01	(2009,140,2300)
2, 34	717.400	6059.100	5.2214E-01	(2009,140,2300)
2, 35	717.400	6059.200	4.6824E-01	(2009,140,2300)
2, 36	717.400	6059.300	4.6003E-01	(2009,140,2300)
2, 37	717.400	6059.400	4.3207E-01	(2009,281,2300)
2, 38	717.400	6059.500	4.6056E-01	(2009,281,2300)
2, 39	717.400	6059.600	4.8974E-01	(2009,149,2300)
2, 40	717.400	6059.700	5.1184E-01	(2009,149,2300)
2, 41	717.400	6059.800	5.6996E-01	(2009,001,2300)
2, 42	717.400	6059.900	6.0612E-01	(2009,001,2300)
2, 43	717.400	6060.000	5.9997E-01	(2009,001,2300)
2, 44	717.400	6060.100	6.1067E-01	(2009,136,2300)
2, 45	717.400	6060.200	6.4082E-01	(2009,136,2300)
2, 46	717.400	6060.300	6.5009E-01	(2009,136,2300)
2, 47	717.400	6060.400	6.8440E-01	(2009,298,2300)
2, 48	717.400	6060.500	6.9019E-01	(2009,298,2300)
2, 49	717.400	6060.600	6.5690E-01	(2009,298,2300)
2, 50	717.400	6060.700	5.9018E-01	(2009,298,2300)
2, 51	717.400	6060.800	6.6583E-01	(2009,031,2300)
3, 1	717.500	6055.800	2.6522E-01	(2009,155,2300)
3, 2	717.500	6055.900	2.2308E-01	(2009,111,2300)
3, 3	717.500	6056.000	2.2664E-01	(2009,111,2300)
3, 4	717.500	6056.100	2.2637E-01	(2009,111,2300)
3, 5	717.500	6056.200	2.2388E-01	(2009,252,2300)
3, 6	717.500	6056.300	2.1723E-01	(2009,252,2300)
3, 7	717.500	6056.400	2.0388E-01	(2009,252,2300)
3, 8	717.500	6056.500	2.3257E-01	(2009,117,2300)
3, 9	717.500	6056.600	2.7860E-01	(2009,117,2300)
3, 10	717.500	6056.700	3.1802E-01	(2009,117,2300)
3, 11	717.500	6056.800	3.4559E-01	(2009,117,2300)
3, 12	717.500	6056.900	3.5774E-01	(2009,117,2300)
3, 13	717.500	6057.000	3.5368E-01	(2009,117,2300)
3, 14	717.500	6057.100	3.3529E-01	(2009,117,2300)
3, 15	717.500	6057.200	3.0629E-01	(2009,117,2300)
3, 16	717.500	6057.300	2.7142E-01	(2009,117,2300)
3, 17	717.500	6057.400	2.3459E-01	(2009,117,2300)
3, 18	717.500	6057.500	1.9914E-01	(2009,117,2300)
3, 19	717.500	6057.600	2.2530E-01	(2009,123,2300)
3, 20	717.500	6057.700	2.5934E-01	(2009,123,2300)
3, 21	717.500	6057.800	2.9285E-01	(2009,123,2300)
3, 22	717.500	6057.900	3.2338E-01	(2009,123,2300)
3, 23	717.500	6058.000	3.4906E-01	(2009,123,2300)
3, 24	717.500	6058.100	3.6758E-01	(2009,123,2300)
3, 25	717.500	6058.200	3.7780E-01	(2009,123,2300)
3, 26	717.500	6058.300	3.7952E-01	(2009,123,2300)
3, 27	717.500	6058.400	3.7474E-01	(2009,138,2300)
3, 28	717.500	6058.500	4.1119E-01	(2009,138,2300)
3, 29	717.500	6058.600	4.3539E-01	(2009,138,2300)
3, 30	717.500	6058.700	4.4578E-01	(2009,138,2300)
3, 31	717.500	6058.800	4.4276E-01	(2009,138,2300)
3, 32	717.500	6058.900	4.8178E-01	(2009,140,2300)
3, 33	717.500	6059.000	5.3900E-01	(2009,140,2300)
3, 34	717.500	6059.100	5.7351E-01	(2009,140,2300)
3, 35	717.500	6059.200	5.0221E-01	(2009,140,2300)
3, 36	717.500	6059.300	4.8665E-01	(2009,140,2300)
3, 37	717.500	6059.400	4.5104E-01	(2009,281,2300)
3, 38	717.500	6059.500	4.7833E-01	(2009,281,2300)

3, 39	717.500	6059.600	5.3120E-01	(2009,149,2300)
3, 40	717.500	6059.700	5.5341E-01	(2009,001,2300)
3, 41	717.500	6059.800	6.1264E-01	(2009,001,2300)
3, 42	717.500	6059.900	6.3304E-01	(2009,001,2300)
3, 43	717.500	6060.000	6.2509E-01	(2009,176,2300)
3, 44	717.500	6060.100	6.6239E-01	(2009,136,2300)
3, 45	717.500	6060.200	6.8178E-01	(2009,136,2300)
3, 46	717.500	6060.300	7.0168E-01	(2009,298,2300)
3, 47	717.500	6060.400	7.2025E-01	(2009,298,2300)
3, 48	717.500	6060.500	6.9714E-01	(2009,298,2300)
3, 49	717.500	6060.600	6.3650E-01	(2009,298,2300)
3, 50	717.500	6060.700	6.7397E-01	(2009,031,2300)
3, 51	717.500	6060.800	7.8735E-01	(2009,031,2300)
4, 1	717.600	6055.800	3.4296E-01	(2009,155,2300)
4, 2	717.600	6055.900	2.9267E-01	(2009,155,2300)
4, 3	717.600	6056.000	2.4406E-01	(2009,220,2300)
4, 4	717.600	6056.100	2.4397E-01	(2009,111,2300)
4, 5	717.600	6056.200	2.4539E-01	(2009,111,2300)
4, 6	717.600	6056.300	2.4229E-01	(2009,111,2300)
4, 7	717.600	6056.400	2.3470E-01	(2009,111,2300)
4, 8	717.600	6056.500	2.2366E-01	(2009,111,2300)
4, 9	717.600	6056.600	2.5582E-01	(2009,117,2300)
4, 10	717.600	6056.700	3.0331E-01	(2009,117,2300)
4, 11	717.600	6056.800	3.4160E-01	(2009,117,2300)
4, 12	717.600	6056.900	3.6561E-01	(2009,117,2300)
4, 13	717.600	6057.000	3.7226E-01	(2009,117,2300)
4, 14	717.600	6057.100	3.6190E-01	(2009,117,2300)
4, 15	717.600	6057.200	3.3769E-01	(2009,117,2300)
4, 16	717.600	6057.300	3.0459E-01	(2009,117,2300)
4, 17	717.600	6057.400	2.6729E-01	(2009,117,2300)
4, 18	717.600	6057.500	2.2951E-01	(2009,117,2300)
4, 19	717.600	6057.600	2.3516E-01	(2009,123,2300)
4, 20	717.600	6057.700	2.7285E-01	(2009,123,2300)
4, 21	717.600	6057.800	3.1034E-01	(2009,123,2300)
4, 22	717.600	6057.900	3.4525E-01	(2009,123,2300)
4, 23	717.600	6058.000	3.7442E-01	(2009,123,2300)
4, 24	717.600	6058.100	3.9560E-01	(2009,123,2300)
4, 25	717.600	6058.200	4.0744E-01	(2009,123,2300)
4, 26	717.600	6058.300	4.0943E-01	(2009,123,2300)
4, 27	717.600	6058.400	4.0427E-01	(2009,138,2300)
4, 28	717.600	6058.500	4.4380E-01	(2009,138,2300)
4, 29	717.600	6058.600	4.6955E-01	(2009,138,2300)
4, 30	717.600	6058.700	4.7950E-01	(2009,138,2300)
4, 31	717.600	6058.800	4.7460E-01	(2009,138,2300)
4, 32	717.600	6058.900	5.2617E-01	(2009,140,2300)
4, 33	717.600	6059.000	5.8860E-01	(2009,140,2300)
4, 34	717.600	6059.100	6.2705E-01	(2009,140,2300)
4, 35	717.600	6059.200	5.3879E-01	(2009,140,2300)
4, 36	717.600	6059.300	5.1415E-01	(2009,140,2300)
4, 37	717.600	6059.400	4.7223E-01	(2009,281,2300)
4, 38	717.600	6059.500	5.2270E-01	(2009,149,2300)
4, 39	717.600	6059.600	5.7294E-01	(2009,149,2300)
4, 40	717.600	6059.700	6.0511E-01	(2009,001,2300)
4, 41	717.600	6059.800	6.5276E-01	(2009,001,2300)
4, 42	717.600	6059.900	6.6249E-01	(2009,176,2300)
4, 43	717.600	6060.000	6.8145E-01	(2009,136,2300)
4, 44	717.600	6060.100	7.1282E-01	(2009,136,2300)
4, 45	717.600	6060.200	7.1903E-01	(2009,136,2300)
4, 46	717.600	6060.300	7.4891E-01	(2009,298,2300)
4, 47	717.600	6060.400	7.3745E-01	(2009,298,2300)

4, 48	717.600	6060.500	6.8424E-01	(2009,298,2300)
4, 49	717.600	6060.600	6.8281E-01	(2009,031,2300)
4, 50	717.600	6060.700	8.0646E-01	(2009,031,2300)
4, 51	717.600	6060.800	8.8579E-01	(2009,031,2300)
5, 1	717.700	6055.800	4.2479E-01	(2009,155,2300)
5, 2	717.700	6055.900	3.7695E-01	(2009,155,2300)
5, 3	717.700	6056.000	3.2345E-01	(2009,155,2300)
5, 4	717.700	6056.100	2.7692E-01	(2009,220,2300)
5, 5	717.700	6056.200	2.6230E-01	(2009,111,2300)
5, 6	717.700	6056.300	2.6593E-01	(2009,111,2300)
5, 7	717.700	6056.400	2.6424E-01	(2009,111,2300)
5, 8	717.700	6056.500	2.5749E-01	(2009,111,2300)
5, 9	717.700	6056.600	2.4636E-01	(2009,111,2300)
5, 10	717.700	6056.700	2.8144E-01	(2009,117,2300)
5, 11	717.700	6056.800	3.2998E-01	(2009,117,2300)
5, 12	717.700	6056.900	3.6636E-01	(2009,117,2300)
5, 13	717.700	6057.000	3.8569E-01	(2009,117,2300)
5, 14	717.700	6057.100	3.8592E-01	(2009,117,2300)
5, 15	717.700	6057.200	3.6904E-01	(2009,117,2300)
5, 16	717.700	6057.300	3.3944E-01	(2009,117,2300)
5, 17	717.700	6057.400	3.0258E-01	(2009,117,2300)
5, 18	717.700	6057.500	2.6337E-01	(2009,117,2300)
5, 19	717.700	6057.600	2.4531E-01	(2009,123,2300)
5, 20	717.700	6057.700	2.8720E-01	(2009,123,2300)
5, 21	717.700	6057.800	3.2952E-01	(2009,123,2300)
5, 22	717.700	6057.900	3.6922E-01	(2009,123,2300)
5, 23	717.700	6058.000	4.0260E-01	(2009,123,2300)
5, 24	717.700	6058.100	4.2713E-01	(2009,123,2300)
5, 25	717.700	6058.200	4.4099E-01	(2009,123,2300)
5, 26	717.700	6058.300	4.4344E-01	(2009,123,2300)
5, 27	717.700	6058.400	4.3685E-01	(2009,138,2300)
5, 28	717.700	6058.500	4.8011E-01	(2009,138,2300)
5, 29	717.700	6058.600	5.0707E-01	(2009,138,2300)
5, 30	717.700	6058.700	5.1624E-01	(2009,138,2300)
5, 31	717.700	6058.800	5.0865E-01	(2009,138,2300)
5, 32	717.700	6058.900	5.7558E-01	(2009,140,2300)
5, 33	717.700	6059.000	6.4396E-01	(2009,140,2300)
5, 34	717.700	6059.100	6.8510E-01	(2009,140,2300)
5, 35	717.700	6059.200	5.7713E-01	(2009,140,2300)
5, 36	717.700	6059.300	5.4179E-01	(2009,140,2300)
5, 37	717.700	6059.400	4.9524E-01	(2009,281,2300)
5, 38	717.700	6059.500	5.7672E-01	(2009,149,2300)
5, 39	717.700	6059.600	6.1693E-01	(2009,149,2300)
5, 40	717.700	6059.700	6.5556E-01	(2009,001,2300)
5, 41	717.700	6059.800	6.8946E-01	(2009,176,2300)
5, 42	717.700	6059.900	6.9971E-01	(2009,176,2300)
5, 43	717.700	6060.000	7.4178E-01	(2009,136,2300)
5, 44	717.700	6060.100	7.5974E-01	(2009,136,2300)
5, 45	717.700	6060.200	7.7562E-01	(2009,298,2300)
5, 46	717.700	6060.300	7.7745E-01	(2009,298,2300)
5, 47	717.700	6060.400	7.3387E-01	(2009,298,2300)
5, 48	717.700	6060.500	6.9281E-01	(2009,031,2300)
5, 49	717.700	6060.600	8.2699E-01	(2009,031,2300)
5, 50	717.700	6060.700	9.1740E-01	(2009,031,2300)
5, 51	717.700	6060.800	9.6371E-01	(2009,007,2300)
6, 1	717.800	6055.800	5.0294E-01	(2009,155,2300)
6, 2	717.800	6055.900	4.6404E-01	(2009,155,2300)
6, 3	717.800	6056.000	4.1476E-01	(2009,155,2300)
6, 4	717.800	6056.100	3.5796E-01	(2009,155,2300)
6, 5	717.800	6056.200	3.1511E-01	(2009,220,2300)

6, 6	717.800	6056.300	2.9329E-01	(2009,220,2300)
6, 7	717.800	6056.400	2.8829E-01	(2009,111,2300)
6, 8	717.800	6056.500	2.8870E-01	(2009,111,2300)
6, 9	717.800	6056.600	2.8325E-01	(2009,111,2300)
6, 10	717.800	6056.700	2.7249E-01	(2009,111,2300)
6, 11	717.800	6056.800	3.0988E-01	(2009,117,2300)
6, 12	717.800	6056.900	3.5857E-01	(2009,117,2300)
6, 13	717.800	6057.000	3.9204E-01	(2009,117,2300)
6, 14	717.800	6057.100	4.0556E-01	(2009,117,2300)
6, 15	717.800	6057.200	3.9848E-01	(2009,117,2300)
6, 16	717.800	6057.300	3.7488E-01	(2009,117,2300)
6, 17	717.800	6057.400	3.4040E-01	(2009,117,2300)
6, 18	717.800	6057.500	3.0069E-01	(2009,117,2300)
6, 19	717.800	6057.600	2.6000E-01	(2009,117,2300)
6, 20	717.800	6057.700	3.0204E-01	(2009,123,2300)
6, 21	717.800	6057.800	3.4970E-01	(2009,123,2300)
6, 22	717.800	6057.900	3.9492E-01	(2009,123,2300)
6, 23	717.800	6058.000	4.3340E-01	(2009,123,2300)
6, 24	717.800	6058.100	4.6198E-01	(2009,123,2300)
6, 25	717.800	6058.200	4.7801E-01	(2009,123,2300)
6, 26	717.800	6058.300	4.8095E-01	(2009,123,2300)
6, 27	717.800	6058.400	4.7320E-01	(2009,138,2300)
6, 28	717.800	6058.500	5.2028E-01	(2009,138,2300)
6, 29	717.800	6058.600	5.4850E-01	(2009,138,2300)
6, 30	717.800	6058.700	5.5653E-01	(2009,138,2300)
6, 31	717.800	6058.800	5.4824E-01	(2009,140,2300)
6, 32	717.800	6058.900	6.3041E-01	(2009,140,2300)
6, 33	717.800	6059.000	7.0432E-01	(2009,140,2300)
6, 34	717.800	6059.100	7.4642E-01	(2009,140,2300)
6, 35	717.800	6059.200	6.1690E-01	(2009,140,2300)
6, 36	717.800	6059.300	5.6847E-01	(2009,140,2300)
6, 37	717.800	6059.400	5.4805E-01	(2009,149,2300)
6, 38	717.800	6059.500	6.3428E-01	(2009,149,2300)
6, 39	717.800	6059.600	6.5894E-01	(2009,149,2300)
6, 40	717.800	6059.700	7.0475E-01	(2009,176,2300)
6, 41	717.800	6059.800	7.4153E-01	(2009,176,2300)
6, 42	717.800	6059.900	7.6831E-01	(2009,136,2300)
6, 43	717.800	6060.000	8.0042E-01	(2009,136,2300)
6, 44	717.800	6060.100	8.0160E-01	(2009,136,2300)
6, 45	717.800	6060.200	8.1584E-01	(2009,298,2300)
6, 46	717.800	6060.300	7.8348E-01	(2009,298,2300)
6, 47	717.800	6060.400	7.0871E-01	(2009,298,2300)
6, 48	717.800	6060.500	8.4934E-01	(2009,031,2300)
6, 49	717.800	6060.600	9.5066E-01	(2009,031,2300)
6, 50	717.800	6060.700	1.0128E+00	(2009,007,2300)
6, 51	717.800	6060.800	1.0589E+00	(2009,007,2300)
7, 1	717.900	6055.800	5.6779E-01	(2009,155,2300)
7, 2	717.900	6055.900	5.4494E-01	(2009,155,2300)
7, 3	717.900	6056.000	5.0733E-01	(2009,155,2300)
7, 4	717.900	6056.100	4.5675E-01	(2009,155,2300)
7, 5	717.900	6056.200	3.9665E-01	(2009,155,2300)
7, 6	717.900	6056.300	3.6022E-01	(2009,220,2300)
7, 7	717.900	6056.400	3.3896E-01	(2009,220,2300)
7, 8	717.900	6056.500	3.1386E-01	(2009,220,2300)
7, 9	717.900	6056.600	3.1667E-01	(2009,111,2300)
7, 10	717.900	6056.700	3.1298E-01	(2009,111,2300)
7, 11	717.900	6056.800	3.0266E-01	(2009,111,2300)
7, 12	717.900	6056.900	3.4124E-01	(2009,117,2300)
7, 13	717.900	6057.000	3.8926E-01	(2009,117,2300)
7, 14	717.900	6057.100	4.1817E-01	(2009,117,2300)

7, 15	717.900	6057.200	4.2463E-01	(2009,117,2300)
7, 16	717.900	6057.300	4.0996E-01	(2009,117,2300)
7, 17	717.900	6057.400	3.7979E-01	(2009,117,2300)
7, 18	717.900	6057.500	3.4105E-01	(2009,117,2300)
7, 19	717.900	6057.600	2.9922E-01	(2009,117,2300)
7, 20	717.900	6057.700	3.1694E-01	(2009,123,2300)
7, 21	717.900	6057.800	3.7074E-01	(2009,123,2300)
7, 22	717.900	6057.900	4.2262E-01	(2009,123,2300)
7, 23	717.900	6058.000	4.6728E-01	(2009,123,2300)
7, 24	717.900	6058.100	5.0029E-01	(2009,123,2300)
7, 25	717.900	6058.200	5.1904E-01	(2009,123,2300)
7, 26	717.900	6058.300	5.2242E-01	(2009,123,2300)
7, 27	717.900	6058.400	5.1321E-01	(2009,138,2300)
7, 28	717.900	6058.500	5.6430E-01	(2009,138,2300)
7, 29	717.900	6058.600	5.9352E-01	(2009,138,2300)
7, 30	717.900	6058.700	5.9950E-01	(2009,138,2300)
7, 31	717.900	6058.800	5.9883E-01	(2009,140,2300)
7, 32	717.900	6058.900	6.9067E-01	(2009,140,2300)
7, 33	717.900	6059.000	7.7111E-01	(2009,140,2300)
7, 34	717.900	6059.100	8.1295E-01	(2009,140,2300)
7, 35	717.900	6059.200	6.5754E-01	(2009,140,2300)
7, 36	717.900	6059.300	5.9343E-01	(2009,140,2300)
7, 37	717.900	6059.400	6.1581E-01	(2009,149,2300)
7, 38	717.900	6059.500	6.9532E-01	(2009,149,2300)
7, 39	717.900	6059.600	7.0608E-01	(2009,176,2300)
7, 40	717.900	6059.700	7.7108E-01	(2009,176,2300)
7, 41	717.900	6059.800	7.9079E-01	(2009,136,2300)
7, 42	717.900	6059.900	8.3944E-01	(2009,136,2300)
7, 43	717.900	6060.000	8.5402E-01	(2009,136,2300)
7, 44	717.900	6060.100	8.5445E-01	(2009,298,2300)
7, 45	717.900	6060.200	8.3466E-01	(2009,298,2300)
7, 46	717.900	6060.300	7.6748E-01	(2009,298,2300)
7, 47	717.900	6060.400	8.7422E-01	(2009,031,2300)
7, 48	717.900	6060.500	9.8716E-01	(2009,031,2300)
7, 49	717.900	6060.600	1.0665E+00	(2009,007,2300)
7, 50	717.900	6060.700	1.1141E+00	(2009,007,2300)
7, 51	717.900	6060.800	1.0915E+00	(2009,007,2300)
8, 1	718.000	6055.800	6.1008E-01	(2009,155,2300)
8, 2	718.000	6055.900	6.0877E-01	(2009,155,2300)
8, 3	718.000	6056.000	5.9038E-01	(2009,155,2300)
8, 4	718.000	6056.100	5.5476E-01	(2009,155,2300)
8, 5	718.000	6056.200	5.0342E-01	(2009,155,2300)
8, 6	718.000	6056.300	4.3998E-01	(2009,155,2300)
8, 7	718.000	6056.400	4.1395E-01	(2009,220,2300)
8, 8	718.000	6056.500	3.9487E-01	(2009,220,2300)
8, 9	718.000	6056.600	3.7131E-01	(2009,220,2300)
8, 10	718.000	6056.700	3.4906E-01	(2009,111,2300)
8, 11	718.000	6056.800	3.4744E-01	(2009,111,2300)
8, 12	718.000	6056.900	3.3673E-01	(2009,111,2300)
8, 13	718.000	6057.000	3.7568E-01	(2009,117,2300)
8, 14	718.000	6057.100	4.2172E-01	(2009,117,2300)
8, 15	718.000	6057.200	4.4462E-01	(2009,117,2300)
8, 16	718.000	6057.300	4.4251E-01	(2009,117,2300)
8, 17	718.000	6057.400	4.1978E-01	(2009,117,2300)
8, 18	718.000	6057.500	3.8399E-01	(2009,117,2300)
8, 19	718.000	6057.600	3.4218E-01	(2009,117,2300)
8, 20	718.000	6057.700	3.3234E-01	(2009,123,2300)
8, 21	718.000	6057.800	3.9303E-01	(2009,123,2300)
8, 22	718.000	6057.900	4.5252E-01	(2009,123,2300)
8, 23	718.000	6058.000	5.0425E-01	(2009,123,2300)

8, 24	718.000	6058.100	5.4295E-01	(2009,123,2300)
8, 25	718.000	6058.200	5.6530E-01	(2009,123,2300)
8, 26	718.000	6058.300	5.6968E-01	(2009,123,2300)
8, 27	718.000	6058.400	5.5887E-01	(2009,138,2300)
8, 28	718.000	6058.500	6.1432E-01	(2009,138,2300)
8, 29	718.000	6058.600	6.4409E-01	(2009,138,2300)
8, 30	718.000	6058.700	6.4706E-01	(2009,138,2300)
8, 31	718.000	6058.800	6.5536E-01	(2009,140,2300)
8, 32	718.000	6058.900	7.5836E-01	(2009,140,2300)
8, 33	718.000	6059.000	8.4491E-01	(2009,140,2300)
8, 34	718.000	6059.100	8.8674E-01	(2009,140,2300)
8, 35	718.000	6059.200	7.0877E-01	(2009,140,2300)
8, 36	718.000	6059.300	6.2084E-01	(2009,140,2300)
8, 37	718.000	6059.400	6.9301E-01	(2009,149,2300)
8, 38	718.000	6059.500	7.5706E-01	(2009,149,2300)
8, 39	718.000	6059.600	7.8698E-01	(2009,176,2300)
8, 40	718.000	6059.700	8.3762E-01	(2009,176,2300)
8, 41	718.000	6059.800	8.7616E-01	(2009,136,2300)
8, 42	718.000	6059.900	9.0750E-01	(2009,136,2300)
8, 43	718.000	6060.000	9.0120E-01	(2009,136,2300)
8, 44	718.000	6060.100	8.8556E-01	(2009,298,2300)
8, 45	718.000	6060.200	8.2908E-01	(2009,298,2300)
8, 46	718.000	6060.300	9.0212E-01	(2009,031,2300)
8, 47	718.000	6060.400	1.0268E+00	(2009,031,2300)
8, 48	718.000	6060.500	1.1247E+00	(2009,007,2300)
8, 49	718.000	6060.600	1.1732E+00	(2009,007,2300)
8, 50	718.000	6060.700	1.1478E+00	(2009,035,2300)
8, 51	718.000	6060.800	1.2175E+00	(2009,035,2300)
9, 1	718.100	6055.800	6.2335E-01	(2009,155,2300)
9, 2	718.100	6055.900	6.4591E-01	(2009,155,2300)
9, 3	718.100	6056.000	6.5221E-01	(2009,155,2300)
9, 4	718.100	6056.100	6.3946E-01	(2009,155,2300)
9, 5	718.100	6056.200	6.0671E-01	(2009,155,2300)
9, 6	718.100	6056.300	5.5525E-01	(2009,155,2300)
9, 7	718.100	6056.400	4.8888E-01	(2009,220,2300)
9, 8	718.100	6056.500	4.8004E-01	(2009,220,2300)
9, 9	718.100	6056.600	4.6529E-01	(2009,220,2300)
9, 10	718.100	6056.700	4.4496E-01	(2009,220,2300)
9, 11	718.100	6056.800	4.1880E-01	(2009,220,2300)
9, 12	718.100	6056.900	3.8692E-01	(2009,220,2300)
9, 13	718.100	6057.000	3.7478E-01	(2009,111,2300)
9, 14	718.100	6057.100	4.1307E-01	(2009,117,2300)
9, 15	718.100	6057.200	4.5529E-01	(2009,117,2300)
9, 16	718.100	6057.300	4.7020E-01	(2009,117,2300)
9, 17	718.100	6057.400	4.5898E-01	(2009,117,2300)
9, 18	718.100	6057.500	4.2872E-01	(2009,117,2300)
9, 19	718.100	6057.600	3.8857E-01	(2009,117,2300)
9, 20	718.100	6057.700	3.4745E-01	(2009,123,2300)
9, 21	718.100	6057.800	4.1595E-01	(2009,123,2300)
9, 22	718.100	6057.900	4.8397E-01	(2009,123,2300)
9, 23	718.100	6058.000	5.4424E-01	(2009,123,2300)
9, 24	718.100	6058.100	5.8995E-01	(2009,123,2300)
9, 25	718.100	6058.200	6.1629E-01	(2009,123,2300)
9, 26	718.100	6058.300	6.2163E-01	(2009,123,2300)
9, 27	718.100	6058.400	6.0961E-01	(2009,138,2300)
9, 28	718.100	6058.500	6.6995E-01	(2009,138,2300)
9, 29	718.100	6058.600	6.9996E-01	(2009,138,2300)
9, 30	718.100	6058.700	6.9933E-01	(2009,138,2300)
9, 31	718.100	6058.800	7.1936E-01	(2009,140,2300)
9, 32	718.100	6058.900	8.3485E-01	(2009,140,2300)

9, 33	718.100	6059.000	9.2744E-01	(2009,140,2300)
9, 34	718.100	6059.100	9.6361E-01	(2009,140,2300)
9, 35	718.100	6059.200	7.6222E-01	(2009,140,2300)
9, 36	718.100	6059.300	6.4919E-01	(2009,149,2300)
9, 37	718.100	6059.400	7.7572E-01	(2009,149,2300)
9, 38	718.100	6059.500	8.1694E-01	(2009,149,2300)
9, 39	718.100	6059.600	8.7054E-01	(2009,176,2300)
9, 40	718.100	6059.700	9.0927E-01	(2009,136,2300)
9, 41	718.100	6059.800	9.6032E-01	(2009,136,2300)
9, 42	718.100	6059.900	9.6932E-01	(2009,136,2300)
9, 43	718.100	6060.000	9.3847E-01	(2009,136,2300)
9, 44	718.100	6060.100	8.9197E-01	(2009,298,2300)
9, 45	718.100	6060.200	9.3398E-01	(2009,031,2300)
9, 46	718.100	6060.300	1.0714E+00	(2009,031,2300)
9, 47	718.100	6060.400	1.1891E+00	(2009,007,2300)
9, 48	718.100	6060.500	1.2378E+00	(2009,007,2300)
9, 49	718.100	6060.600	1.2219E+00	(2009,035,2300)
9, 50	718.100	6060.700	1.2967E+00	(2009,035,2300)
9, 51	718.100	6060.800	1.3071E+00	(2009,035,2300)
10, 1	718.200	6055.800	6.0599E-01	(2009,155,2300)
10, 2	718.200	6055.900	6.5050E-01	(2009,155,2300)
10, 3	718.200	6056.000	6.8271E-01	(2009,155,2300)
10, 4	718.200	6056.100	6.9780E-01	(2009,155,2300)
10, 5	718.200	6056.200	6.9214E-01	(2009,155,2300)
10, 6	718.200	6056.300	6.6372E-01	(2009,155,2300)
10, 7	718.200	6056.400	6.1342E-01	(2009,155,2300)
10, 8	718.200	6056.500	5.6260E-01	(2009,220,2300)
10, 9	718.200	6056.600	5.6178E-01	(2009,220,2300)
10, 10	718.200	6056.700	5.5460E-01	(2009,220,2300)
10, 11	718.200	6056.800	5.3919E-01	(2009,220,2300)
10, 12	718.200	6056.900	5.1439E-01	(2009,220,2300)
10, 13	718.200	6057.000	4.8041E-01	(2009,220,2300)
10, 14	718.200	6057.100	4.3675E-01	(2009,220,2300)
10, 15	718.200	6057.200	4.5330E-01	(2009,117,2300)
10, 16	718.200	6057.300	4.8939E-01	(2009,117,2300)
10, 17	718.200	6057.400	4.9479E-01	(2009,117,2300)
10, 18	718.200	6057.500	4.7428E-01	(2009,117,2300)
10, 19	718.200	6057.600	4.3773E-01	(2009,117,2300)
10, 20	718.200	6057.700	3.9471E-01	(2009,117,2300)
10, 21	718.200	6057.800	4.3910E-01	(2009,123,2300)
10, 22	718.200	6057.900	5.1759E-01	(2009,123,2300)
10, 23	718.200	6058.000	5.8823E-01	(2009,123,2300)
10, 24	718.200	6058.100	6.4254E-01	(2009,123,2300)
10, 25	718.200	6058.200	6.7378E-01	(2009,123,2300)
10, 26	718.200	6058.300	6.8076E-01	(2009,123,2300)
10, 27	718.200	6058.400	6.6734E-01	(2009,138,2300)
10, 28	718.200	6058.500	7.3308E-01	(2009,138,2300)
10, 29	718.200	6058.600	7.6286E-01	(2009,138,2300)
10, 30	718.200	6058.700	7.5742E-01	(2009,138,2300)
10, 31	718.200	6058.800	7.9400E-01	(2009,140,2300)
10, 32	718.200	6058.900	9.2461E-01	(2009,140,2300)
10, 33	718.200	6059.000	1.0237E+00	(2009,140,2300)
10, 34	718.200	6059.100	1.0495E+00	(2009,140,2300)
10, 35	718.200	6059.200	7.9379E-01	(2009,140,2300)
10, 36	718.200	6059.300	7.4845E-01	(2009,149,2300)
10, 37	718.200	6059.400	8.6407E-01	(2009,149,2300)
10, 38	718.200	6059.500	8.8747E-01	(2009,176,2300)
10, 39	718.200	6059.600	9.5707E-01	(2009,176,2300)
10, 40	718.200	6059.700	1.0115E+00	(2009,136,2300)
10, 41	718.200	6059.800	1.0403E+00	(2009,136,2300)

10, 42	718.200	6059.900	1.0220E+00	(2009,136,2300)
10, 43	718.200	6060.000	9.6327E-01	(2009,136,2300)
10, 44	718.200	6060.100	9.7078E-01	(2009,031,2300)
10, 45	718.200	6060.200	1.1310E+00	(2009,007,2300)
10, 46	718.200	6060.300	1.2591E+00	(2009,007,2300)
10, 47	718.200	6060.400	1.3074E+00	(2009,007,2300)
10, 48	718.200	6060.500	1.3062E+00	(2009,035,2300)
10, 49	718.200	6060.600	1.3863E+00	(2009,035,2300)
10, 50	718.200	6060.700	1.3973E+00	(2009,035,2300)
10, 51	718.200	6060.800	1.3536E+00	(2009,035,2300)
11, 1	718.300	6055.800	5.6169E-01	(2009,155,2300)
11, 2	718.300	6055.900	6.2231E-01	(2009,155,2300)
11, 3	718.300	6056.000	6.7682E-01	(2009,155,2300)
11, 4	718.300	6056.100	7.1979E-01	(2009,155,2300)
11, 5	718.300	6056.200	7.4554E-01	(2009,155,2300)
11, 6	718.300	6056.300	7.4884E-01	(2009,155,2300)
11, 7	718.300	6056.400	7.2704E-01	(2009,155,2300)
11, 8	718.300	6056.500	6.7937E-01	(2009,155,2300)
11, 9	718.300	6056.600	6.5191E-01	(2009,220,2300)
11, 10	718.300	6056.700	6.6294E-01	(2009,220,2300)
11, 11	718.300	6056.800	6.6457E-01	(2009,220,2300)
11, 12	718.300	6056.900	6.5466E-01	(2009,220,2300)
11, 13	718.300	6057.000	6.3108E-01	(2009,220,2300)
11, 14	718.300	6057.100	5.9170E-01	(2009,220,2300)
11, 15	718.300	6057.200	5.3861E-01	(2009,220,2300)
11, 16	718.300	6057.300	4.9557E-01	(2009,117,2300)
11, 17	718.300	6057.400	5.2353E-01	(2009,117,2300)
11, 18	718.300	6057.500	5.1833E-01	(2009,117,2300)
11, 19	718.300	6057.600	4.8939E-01	(2009,117,2300)
11, 20	718.300	6057.700	4.4865E-01	(2009,117,2300)
11, 21	718.300	6057.800	4.6273E-01	(2009,123,2300)
11, 22	718.300	6057.900	5.5298E-01	(2009,123,2300)
11, 23	718.300	6058.000	6.3626E-01	(2009,123,2300)
11, 24	718.300	6058.100	7.0065E-01	(2009,123,2300)
11, 25	718.300	6058.200	7.3874E-01	(2009,123,2300)
11, 26	718.300	6058.300	7.4790E-01	(2009,123,2300)
11, 27	718.300	6058.400	7.3356E-01	(2009,138,2300)
11, 28	718.300	6058.500	8.0518E-01	(2009,138,2300)
11, 29	718.300	6058.600	8.3394E-01	(2009,138,2300)
11, 30	718.300	6058.700	8.2141E-01	(2009,138,2300)
11, 31	718.300	6058.800	8.8176E-01	(2009,140,2300)
11, 32	718.300	6058.900	1.0284E+00	(2009,140,2300)
11, 33	718.300	6059.000	1.1326E+00	(2009,140,2300)
11, 34	718.300	6059.100	1.1440E+00	(2009,140,2300)
11, 35	718.300	6059.200	8.2054E-01	(2009,140,2300)
11, 36	718.300	6059.300	8.5588E-01	(2009,149,2300)
11, 37	718.300	6059.400	9.5075E-01	(2009,149,2300)
11, 38	718.300	6059.500	9.9419E-01	(2009,176,2300)
11, 39	718.300	6059.600	1.0600E+00	(2009,136,2300)
11, 40	718.300	6059.700	1.1124E+00	(2009,136,2300)
11, 41	718.300	6059.800	1.1117E+00	(2009,136,2300)
11, 42	718.300	6059.900	1.0617E+00	(2009,136,2300)
11, 43	718.300	6060.000	1.0116E+00	(2009,031,2300)
11, 44	718.300	6060.100	1.2023E+00	(2009,007,2300)
11, 45	718.300	6060.200	1.3372E+00	(2009,007,2300)
11, 46	718.300	6060.300	1.3837E+00	(2009,007,2300)
11, 47	718.300	6060.400	1.4024E+00	(2009,035,2300)
11, 48	718.300	6060.500	1.4889E+00	(2009,035,2300)
11, 49	718.300	6060.600	1.4984E+00	(2009,035,2300)
11, 50	718.300	6060.700	1.4494E+00	(2009,035,2300)

11, 51	718.300	6060.800	1.3692E+00	(2009,035,2300)
12, 1	718.400	6055.800	5.3608E-01	(2009,141,2300)
12, 2	718.400	6055.900	5.6731E-01	(2009,155,2300)
12, 3	718.400	6056.000	6.3656E-01	(2009,155,2300)
12, 4	718.400	6056.100	7.0195E-01	(2009,155,2300)
12, 5	718.400	6056.200	7.5708E-01	(2009,155,2300)
12, 6	718.400	6056.300	7.9556E-01	(2009,155,2300)
12, 7	718.400	6056.400	8.1088E-01	(2009,155,2300)
12, 8	718.400	6056.500	7.9785E-01	(2009,155,2300)
12, 9	718.400	6056.600	7.5462E-01	(2009,155,2300)
12, 10	718.400	6056.700	7.5708E-01	(2009,220,2300)
12, 11	718.400	6056.800	7.8085E-01	(2009,220,2300)
12, 12	718.400	6056.900	7.9276E-01	(2009,220,2300)
12, 13	718.400	6057.000	7.8789E-01	(2009,220,2300)
12, 14	718.400	6057.100	7.6279E-01	(2009,220,2300)
12, 15	718.400	6057.200	7.1811E-01	(2009,220,2300)
12, 16	718.400	6057.300	6.5488E-01	(2009,220,2300)
12, 17	718.400	6057.400	5.7537E-01	(2009,220,2300)
12, 18	718.400	6057.500	5.5819E-01	(2009,117,2300)
12, 19	718.400	6057.600	5.4229E-01	(2009,117,2300)
12, 20	718.400	6057.700	5.0622E-01	(2009,117,2300)
12, 21	718.400	6057.800	4.8571E-01	(2009,123,2300)
12, 22	718.400	6057.900	5.8964E-01	(2009,123,2300)
12, 23	718.400	6058.000	6.8801E-01	(2009,123,2300)
12, 24	718.400	6058.100	7.6598E-01	(2009,123,2300)
12, 25	718.400	6058.200	8.1298E-01	(2009,123,2300)
12, 26	718.400	6058.300	8.2465E-01	(2009,123,2300)
12, 27	718.400	6058.400	8.0969E-01	(2009,138,2300)
12, 28	718.400	6058.500	8.8806E-01	(2009,138,2300)
12, 29	718.400	6058.600	9.1511E-01	(2009,138,2300)
12, 30	718.400	6058.700	8.9477E-01	(2009,138,2300)
12, 31	718.400	6058.800	9.8595E-01	(2009,140,2300)
12, 32	718.400	6058.900	1.1533E+00	(2009,140,2300)
12, 33	718.400	6059.000	1.2625E+00	(2009,140,2300)
12, 34	718.400	6059.100	1.2527E+00	(2009,140,2300)
12, 35	718.400	6059.200	8.6038E-01	(2009,140,2300)
12, 36	718.400	6059.300	9.7701E-01	(2009,149,2300)
12, 37	718.400	6059.400	1.0324E+00	(2009,149,2300)
12, 38	718.400	6059.500	1.1088E+00	(2009,176,2300)
12, 39	718.400	6059.600	1.1844E+00	(2009,136,2300)
12, 40	718.400	6059.700	1.2073E+00	(2009,136,2300)
12, 41	718.400	6059.800	1.1707E+00	(2009,136,2300)
12, 42	718.400	6059.900	1.0855E+00	(2009,136,2300)
12, 43	718.400	6060.000	1.2812E+00	(2009,007,2300)
12, 44	718.400	6060.100	1.4224E+00	(2009,007,2300)
12, 45	718.400	6060.200	1.4669E+00	(2009,007,2300)
12, 46	718.400	6060.300	1.5151E+00	(2009,035,2300)
12, 47	718.400	6060.400	1.6056E+00	(2009,035,2300)
12, 48	718.400	6060.500	1.6133E+00	(2009,035,2300)
12, 49	718.400	6060.600	1.5564E+00	(2009,035,2300)
12, 50	718.400	6060.700	1.4631E+00	(2009,035,2300)
12, 51	718.400	6060.800	1.3601E+00	(2009,035,2300)
13, 1	718.500	6055.800	5.1274E-01	(2009,141,2300)
13, 2	718.500	6055.900	5.5912E-01	(2009,141,2300)
13, 3	718.500	6056.000	6.0106E-01	(2009,141,2300)
13, 4	718.500	6056.100	6.4872E-01	(2009,155,2300)
13, 5	718.500	6056.200	7.2553E-01	(2009,155,2300)
13, 6	718.500	6056.300	7.9498E-01	(2009,155,2300)
13, 7	718.500	6056.400	8.4866E-01	(2009,155,2300)
13, 8	718.500	6056.500	8.7863E-01	(2009,155,2300)

13, 9	718.500	6056.600	8.7737E-01	(2009,155,2300)
13, 10	718.500	6056.700	8.3978E-01	(2009,155,2300)
13, 11	718.500	6056.800	8.7085E-01	(2009,220,2300)
13, 12	718.500	6056.900	9.0928E-01	(2009,220,2300)
13, 13	718.500	6057.000	9.3140E-01	(2009,220,2300)
13, 14	718.500	6057.100	9.3160E-01	(2009,220,2300)
13, 15	718.500	6057.200	9.0733E-01	(2009,220,2300)
13, 16	718.500	6057.300	8.5729E-01	(2009,220,2300)
13, 17	718.500	6057.400	7.8216E-01	(2009,220,2300)
13, 18	718.500	6057.500	6.8657E-01	(2009,220,2300)
13, 19	718.500	6057.600	5.9342E-01	(2009,117,2300)
13, 20	718.500	6057.700	5.6776E-01	(2009,117,2300)
13, 21	718.500	6057.800	5.2721E-01	(2009,117,2300)
13, 22	718.500	6057.900	6.2745E-01	(2009,123,2300)
13, 23	718.500	6058.000	7.4420E-01	(2009,123,2300)
13, 24	718.500	6058.100	8.3956E-01	(2009,123,2300)
13, 25	718.500	6058.200	8.9827E-01	(2009,123,2300)
13, 26	718.500	6058.300	9.1417E-01	(2009,123,2300)
13, 27	718.500	6058.400	8.9770E-01	(2009,138,2300)
13, 28	718.500	6058.500	9.8264E-01	(2009,138,2300)
13, 29	718.500	6058.600	1.0066E+00	(2009,138,2300)
13, 30	718.500	6058.700	9.7588E-01	(2009,138,2300)
13, 31	718.500	6058.800	1.1116E+00	(2009,140,2300)
13, 32	718.500	6058.900	1.3037E+00	(2009,140,2300)
13, 33	718.500	6059.000	1.4136E+00	(2009,140,2300)
13, 34	718.500	6059.100	1.3732E+00	(2009,140,2300)
13, 35	718.500	6059.200	9.3335E-01	(2009,149,2300)
13, 36	718.500	6059.300	1.0971E+00	(2009,149,2300)
13, 37	718.500	6059.400	1.1540E+00	(2009,176,2300)
13, 38	718.500	6059.500	1.2552E+00	(2009,136,2300)
13, 39	718.500	6059.600	1.3078E+00	(2009,136,2300)
13, 40	718.500	6059.700	1.2912E+00	(2009,136,2300)
13, 41	718.500	6059.800	1.2131E+00	(2009,136,2300)
13, 42	718.500	6059.900	1.3718E+00	(2009,007,2300)
13, 43	718.500	6060.000	1.5186E+00	(2009,007,2300)
13, 44	718.500	6060.100	1.5575E+00	(2009,007,2300)
13, 45	718.500	6060.200	1.6438E+00	(2009,035,2300)
13, 46	718.500	6060.300	1.7413E+00	(2009,035,2300)
13, 47	718.500	6060.400	1.7450E+00	(2009,035,2300)
13, 48	718.500	6060.500	1.6750E+00	(2009,035,2300)
13, 49	718.500	6060.600	1.5661E+00	(2009,035,2300)
13, 50	718.500	6060.700	1.4423E+00	(2009,035,2300)
13, 51	718.500	6060.800	1.4040E+00	(2009,319,2300)
14, 1	718.600	6055.800	5.0807E-01	(2009,142,2300)
14, 2	718.600	6055.900	5.3734E-01	(2009,142,2300)
14, 3	718.600	6056.000	5.7764E-01	(2009,141,2300)
14, 4	718.600	6056.100	6.3163E-01	(2009,141,2300)
14, 5	718.600	6056.200	6.7930E-01	(2009,141,2300)
14, 6	718.600	6056.300	7.4795E-01	(2009,155,2300)
14, 7	718.600	6056.400	8.3310E-01	(2009,155,2300)
14, 8	718.600	6056.500	9.0514E-01	(2009,155,2300)
14, 9	718.600	6056.600	9.5272E-01	(2009,155,2300)
14, 10	718.600	6056.700	9.6535E-01	(2009,155,2300)
14, 11	718.600	6056.800	9.3483E-01	(2009,155,2300)
14, 12	718.600	6056.900	9.8466E-01	(2009,220,2300)
14, 13	718.600	6057.000	1.0380E+00	(2009,220,2300)
14, 14	718.600	6057.100	1.0726E+00	(2009,220,2300)
14, 15	718.600	6057.200	1.0826E+00	(2009,220,2300)
14, 16	718.600	6057.300	1.0632E+00	(2009,220,2300)
14, 17	718.600	6057.400	1.0113E+00	(2009,220,2300)

14, 18	718.600	6057.500	9.2608E-01	(2009,220,2300)
14, 19	718.600	6057.600	8.1284E-01	(2009,220,2300)
14, 20	718.600	6057.700	6.8178E-01	(2009,220,2300)
14, 21	718.600	6057.800	5.9739E-01	(2009,117,2300)
14, 22	718.600	6057.900	6.6587E-01	(2009,123,2300)
14, 23	718.600	6058.000	8.0553E-01	(2009,123,2300)
14, 24	718.600	6058.100	9.2337E-01	(2009,123,2300)
14, 25	718.600	6058.200	9.9776E-01	(2009,123,2300)
14, 26	718.600	6058.300	1.0202E+00	(2009,123,2300)
14, 27	718.600	6058.400	1.0029E+00	(2009,138,2300)
14, 28	718.600	6058.500	1.0969E+00	(2009,138,2300)
14, 29	718.600	6058.600	1.1167E+00	(2009,138,2300)
14, 30	718.600	6058.700	1.0743E+00	(2009,138,2300)
14, 31	718.600	6058.800	1.2660E+00	(2009,140,2300)
14, 32	718.600	6058.900	1.4879E+00	(2009,140,2300)
14, 33	718.600	6059.000	1.5969E+00	(2009,140,2300)
14, 34	718.600	6059.100	1.5137E+00	(2009,140,2300)
14, 35	718.600	6059.200	1.0940E+00	(2009,149,2300)
14, 36	718.600	6059.300	1.2212E+00	(2009,149,2300)
14, 37	718.600	6059.400	1.3228E+00	(2009,136,2300)
14, 38	718.600	6059.500	1.4116E+00	(2009,136,2300)
14, 39	718.600	6059.600	1.4227E+00	(2009,136,2300)
14, 40	718.600	6059.700	1.3593E+00	(2009,136,2300)
14, 41	718.600	6059.800	1.4722E+00	(2009,007,2300)
14, 42	718.600	6059.900	1.6251E+00	(2009,007,2300)
14, 43	718.600	6060.000	1.6589E+00	(2009,007,2300)
14, 44	718.600	6060.100	1.7964E+00	(2009,035,2300)
14, 45	718.600	6060.200	1.8971E+00	(2009,035,2300)
14, 46	718.600	6060.300	1.8942E+00	(2009,035,2300)
14, 47	718.600	6060.400	1.8092E+00	(2009,035,2300)
14, 48	718.600	6060.500	1.6755E+00	(2009,035,2300)
14, 49	718.600	6060.600	1.5487E+00	(2009,319,2300)
14, 50	718.600	6060.700	1.5257E+00	(2009,297,2300)
14, 51	718.600	6060.800	1.6223E+00	(2009,297,2300)
15, 1	718.700	6055.800	4.8848E-01	(2009,142,2300)
15, 2	718.700	6055.900	5.3126E-01	(2009,142,2300)
15, 3	718.700	6056.000	5.7080E-01	(2009,142,2300)
15, 4	718.700	6056.100	6.0426E-01	(2009,142,2300)
15, 5	718.700	6056.200	6.5746E-01	(2009,141,2300)
15, 6	718.700	6056.300	7.2078E-01	(2009,141,2300)
15, 7	718.700	6056.400	7.7529E-01	(2009,141,2300)
15, 8	718.700	6056.500	8.7165E-01	(2009,155,2300)
15, 9	718.700	6056.600	9.6414E-01	(2009,155,2300)
15, 10	718.700	6056.700	1.0325E+00	(2009,155,2300)
15, 11	718.700	6056.800	1.0616E+00	(2009,155,2300)
15, 12	718.700	6056.900	1.0412E+00	(2009,155,2300)
15, 13	718.700	6057.000	1.0888E+00	(2009,220,2300)
15, 14	718.700	6057.100	1.1611E+00	(2009,220,2300)
15, 15	718.700	6057.200	1.2158E+00	(2009,220,2300)
15, 16	718.700	6057.300	1.2441E+00	(2009,220,2300)
15, 17	718.700	6057.400	1.2375E+00	(2009,220,2300)
15, 18	718.700	6057.500	1.1880E+00	(2009,220,2300)
15, 19	718.700	6057.600	1.0961E+00	(2009,220,2300)
15, 20	718.700	6057.700	9.6810E-01	(2009,220,2300)
15, 21	718.700	6057.800	8.1416E-01	(2009,220,2300)
15, 22	718.700	6057.900	7.0312E-01	(2009,123,2300)
15, 23	718.700	6058.000	8.6993E-01	(2009,123,2300)
15, 24	718.700	6058.100	1.0168E+00	(2009,123,2300)
15, 25	718.700	6058.200	1.1142E+00	(2009,123,2300)
15, 26	718.700	6058.300	1.1461E+00	(2009,123,2300)

15, 27	718.700	6058.400	1.1270E+00	(2009,138,2300)
15, 28	718.700	6058.500	1.2306E+00	(2009,138,2300)
15, 29	718.700	6058.600	1.2436E+00	(2009,138,2300)
15, 30	718.700	6058.700	1.1885E+00	(2009,138,2300)
15, 31	718.700	6058.800	1.4605E+00	(2009,140,2300)
15, 32	718.700	6058.900	1.7214E+00	(2009,140,2300)
15, 33	718.700	6059.000	1.8246E+00	(2009,140,2300)
15, 34	718.700	6059.100	1.6686E+00	(2009,140,2300)
15, 35	718.700	6059.200	1.2606E+00	(2009,149,2300)
15, 36	718.700	6059.300	1.3853E+00	(2009,136,2300)
15, 37	718.700	6059.400	1.5175E+00	(2009,136,2300)
15, 38	718.700	6059.500	1.5664E+00	(2009,136,2300)
15, 39	718.700	6059.600	1.5250E+00	(2009,136,2300)
15, 40	718.700	6059.700	1.5889E+00	(2009,007,2300)
15, 41	718.700	6059.800	1.7452E+00	(2009,007,2300)
15, 42	718.700	6059.900	1.7677E+00	(2009,007,2300)
15, 43	718.700	6060.000	1.9726E+00	(2009,035,2300)
15, 44	718.700	6060.100	2.0787E+00	(2009,035,2300)
15, 45	718.700	6060.200	2.0662E+00	(2009,035,2300)
15, 46	718.700	6060.300	1.9566E+00	(2009,035,2300)
15, 47	718.700	6060.400	1.7915E+00	(2009,035,2300)
15, 48	718.700	6060.500	1.6698E+00	(2009,319,2300)
15, 49	718.700	6060.600	1.7663E+00	(2009,297,2300)
15, 50	718.700	6060.700	1.8371E+00	(2009,297,2300)
15, 51	718.700	6060.800	1.8547E+00	(2009,297,2300)
16, 1	718.800	6055.800	5.3097E-01	(2009,188,2300)
16, 2	718.800	6055.900	4.9786E-01	(2009,142,2300)
16, 3	718.800	6056.000	5.4980E-01	(2009,142,2300)
16, 4	718.800	6056.100	6.0114E-01	(2009,142,2300)
16, 5	718.800	6056.200	6.4818E-01	(2009,142,2300)
16, 6	718.800	6056.300	6.8674E-01	(2009,142,2300)
16, 7	718.800	6056.400	7.5833E-01	(2009,141,2300)
16, 8	718.800	6056.500	8.3313E-01	(2009,141,2300)
16, 9	718.800	6056.600	9.0980E-01	(2009,155,2300)
16, 10	718.800	6056.700	1.0251E+00	(2009,155,2300)
16, 11	718.800	6056.800	1.1181E+00	(2009,155,2300)
16, 12	718.800	6056.900	1.1695E+00	(2009,155,2300)
16, 13	718.800	6057.000	1.1641E+00	(2009,155,2300)
16, 14	718.800	6057.100	1.1815E+00	(2009,220,2300)
16, 15	718.800	6057.200	1.2820E+00	(2009,220,2300)
16, 16	718.800	6057.300	1.3686E+00	(2009,220,2300)
16, 17	718.800	6057.400	1.4269E+00	(2009,220,2300)
16, 18	718.800	6057.500	1.4429E+00	(2009,220,2300)
16, 19	718.800	6057.600	1.4063E+00	(2009,220,2300)
16, 20	718.800	6057.700	1.3144E+00	(2009,220,2300)
16, 21	718.800	6057.800	1.1718E+00	(2009,220,2300)
16, 22	718.800	6057.900	9.8947E-01	(2009,220,2300)
16, 23	718.800	6058.000	9.3931E-01	(2009,123,2300)
16, 24	718.800	6058.100	1.1241E+00	(2009,123,2300)
16, 25	718.800	6058.200	1.2544E+00	(2009,123,2300)
16, 26	718.800	6058.300	1.3024E+00	(2009,123,2300)
16, 27	718.800	6058.400	1.2800E+00	(2009,138,2300)
16, 28	718.800	6058.500	1.3942E+00	(2009,138,2300)
16, 29	718.800	6058.600	1.3983E+00	(2009,138,2300)
16, 30	718.800	6058.700	1.3707E+00	(2009,140,2300)
16, 31	718.800	6058.800	1.7045E+00	(2009,140,2300)
16, 32	718.800	6058.900	2.0119E+00	(2009,140,2300)
16, 33	718.800	6059.000	2.1003E+00	(2009,140,2300)
16, 34	718.800	6059.100	1.8343E+00	(2009,140,2300)
16, 35	718.800	6059.200	1.4481E+00	(2009,149,2300)

16, 36	718.800	6059.300	1.6272E+00	(2009,136,2300)
16, 37	718.800	6059.400	1.7203E+00	(2009,136,2300)
16, 38	718.800	6059.500	1.7134E+00	(2009,136,2300)
16, 39	718.800	6059.600	1.7199E+00	(2009,007,2300)
16, 40	718.800	6059.700	1.8798E+00	(2009,007,2300)
16, 41	718.800	6059.800	1.9534E+00	(2009,035,2300)
16, 42	718.800	6059.900	2.1866E+00	(2009,035,2300)
16, 43	718.800	6060.000	2.2924E+00	(2009,035,2300)
16, 44	718.800	6060.100	2.2614E+00	(2009,035,2300)
16, 45	718.800	6060.200	2.1189E+00	(2009,035,2300)
16, 46	718.800	6060.300	1.9114E+00	(2009,035,2300)
16, 47	718.800	6060.400	1.9340E+00	(2009,297,2300)
16, 48	718.800	6060.500	2.0269E+00	(2009,297,2300)
16, 49	718.800	6060.600	2.0560E+00	(2009,297,2300)
16, 50	718.800	6060.700	2.0205E+00	(2009,297,2300)
16, 51	718.800	6060.800	1.9340E+00	(2009,297,2300)
17, 1	718.900	6055.800	6.8916E-01	(2009,188,2300)
17, 2	718.900	6055.900	6.6338E-01	(2009,188,2300)
17, 3	718.900	6056.000	6.3104E-01	(2009,188,2300)
17, 4	718.900	6056.100	5.9252E-01	(2009,188,2300)
17, 5	718.900	6056.200	6.2676E-01	(2009,142,2300)
17, 6	718.900	6056.300	6.8891E-01	(2009,142,2300)
17, 7	718.900	6056.400	7.4608E-01	(2009,142,2300)
17, 8	718.900	6056.500	7.9273E-01	(2009,142,2300)
17, 9	718.900	6056.600	8.8819E-01	(2009,141,2300)
17, 10	718.900	6056.700	9.7620E-01	(2009,141,2300)
17, 11	718.900	6056.800	1.0893E+00	(2009,155,2300)
17, 12	718.900	6056.900	1.2131E+00	(2009,155,2300)
17, 13	718.900	6057.000	1.2962E+00	(2009,155,2300)
17, 14	718.900	6057.100	1.3143E+00	(2009,155,2300)
17, 15	718.900	6057.200	1.2695E+00	(2009,220,2300)
17, 16	718.900	6057.300	1.4115E+00	(2009,220,2300)
17, 17	718.900	6057.400	1.5442E+00	(2009,220,2300)
17, 18	718.900	6057.500	1.6491E+00	(2009,220,2300)
17, 19	718.900	6057.600	1.7037E+00	(2009,220,2300)
17, 20	718.900	6057.700	1.6935E+00	(2009,220,2300)
17, 21	718.900	6057.800	1.6085E+00	(2009,220,2300)
17, 22	718.900	6057.900	1.4531E+00	(2009,220,2300)
17, 23	718.900	6058.000	1.2440E+00	(2009,220,2300)
17, 24	718.900	6058.100	1.2440E+00	(2009,123,2300)
17, 25	718.900	6058.200	1.4195E+00	(2009,123,2300)
17, 26	718.900	6058.300	1.4921E+00	(2009,123,2300)
17, 27	718.900	6058.400	1.4658E+00	(2009,138,2300)
17, 28	718.900	6058.500	1.5902E+00	(2009,138,2300)
17, 29	718.900	6058.600	1.5799E+00	(2009,138,2300)
17, 30	718.900	6058.700	1.6009E+00	(2009,140,2300)
17, 31	718.900	6058.800	2.0007E+00	(2009,140,2300)
17, 32	718.900	6058.900	2.3565E+00	(2009,140,2300)
17, 33	718.900	6059.000	2.2628E+00	(2009,140,2300)
17, 34	718.900	6059.100	1.7422E+00	(2009,140,2300)
17, 35	718.900	6059.200	1.7379E+00	(2009,136,2300)
17, 36	718.900	6059.300	1.8863E+00	(2009,136,2300)
17, 37	718.900	6059.400	1.9269E+00	(2009,136,2300)
17, 38	718.900	6059.500	1.8740E+00	(2009,007,2300)
17, 39	718.900	6059.600	2.0333E+00	(2009,007,2300)
17, 40	718.900	6059.700	2.1925E+00	(2009,035,2300)
17, 41	718.900	6059.800	2.4385E+00	(2009,035,2300)
17, 42	718.900	6059.900	2.5396E+00	(2009,035,2300)
17, 43	718.900	6060.000	2.4835E+00	(2009,035,2300)
17, 44	718.900	6060.100	2.2937E+00	(2009,035,2300)

17, 45	718.900	6060.200	2.1299E+00	(2009,297,2300)
17, 46	718.900	6060.300	2.2524E+00	(2009,297,2300)
17, 47	718.900	6060.400	2.2964E+00	(2009,297,2300)
17, 48	718.900	6060.500	2.2653E+00	(2009,297,2300)
17, 49	718.900	6060.600	2.1689E+00	(2009,297,2300)
17, 50	718.900	6060.700	2.1911E+00	(2009,088,2300)
17, 51	718.900	6060.800	2.2099E+00	(2009,088,2300)
18, 1	719.000	6055.800	8.4136E-01	(2009,188,2300)
18, 2	719.000	6055.900	8.3315E-01	(2009,188,2300)
18, 3	719.000	6056.000	8.1625E-01	(2009,188,2300)
18, 4	719.000	6056.100	7.9032E-01	(2009,188,2300)
18, 5	719.000	6056.200	7.5542E-01	(2009,188,2300)
18, 6	719.000	6056.300	7.1175E-01	(2009,188,2300)
18, 7	719.000	6056.400	7.2626E-01	(2009,142,2300)
18, 8	719.000	6056.500	8.0497E-01	(2009,142,2300)
18, 9	719.000	6056.600	8.7551E-01	(2009,142,2300)
18, 10	719.000	6056.700	9.3671E-01	(2009,141,2300)
18, 11	719.000	6056.800	1.0574E+00	(2009,141,2300)
18, 12	719.000	6056.900	1.1613E+00	(2009,141,2300)
18, 13	719.000	6057.000	1.3241E+00	(2009,155,2300)
18, 14	719.000	6057.100	1.4499E+00	(2009,155,2300)
18, 15	719.000	6057.200	1.5033E+00	(2009,155,2300)
18, 16	719.000	6057.300	1.4548E+00	(2009,155,2300)
18, 17	719.000	6057.400	1.5649E+00	(2009,220,2300)
18, 18	719.000	6057.500	1.7627E+00	(2009,220,2300)
18, 19	719.000	6057.600	1.9347E+00	(2009,220,2300)
18, 20	719.000	6057.700	2.0516E+00	(2009,220,2300)
18, 21	719.000	6057.800	2.0859E+00	(2009,220,2300)
18, 22	719.000	6057.900	2.0323E+00	(2009,220,2300)
18, 23	719.000	6058.000	1.8853E+00	(2009,220,2300)
18, 24	719.000	6058.100	1.6318E+00	(2009,220,2300)
18, 25	719.000	6058.200	1.6168E+00	(2009,123,2300)
18, 26	719.000	6058.300	1.7279E+00	(2009,123,2300)
18, 27	719.000	6058.400	1.7052E+00	(2009,138,2300)
18, 28	719.000	6058.500	1.8384E+00	(2009,138,2300)
18, 29	719.000	6058.600	1.8041E+00	(2009,138,2300)
18, 30	719.000	6058.700	1.9173E+00	(2009,140,2300)
18, 31	719.000	6058.800	2.4041E+00	(2009,140,2300)
18, 32	719.000	6058.900	2.8102E+00	(2009,140,2300)
18, 33	719.000	6059.000	2.4560E+00	(2009,140,2300)
18, 34	719.000	6059.100	1.8860E+00	(2009,136,2300)
18, 35	719.000	6059.200	2.0686E+00	(2009,136,2300)
18, 36	719.000	6059.300	2.1684E+00	(2009,136,2300)
18, 37	719.000	6059.400	2.1303E+00	(2009,136,2300)
18, 38	719.000	6059.500	2.2114E+00	(2009,007,2300)
18, 39	719.000	6059.600	2.4789E+00	(2009,035,2300)
18, 40	719.000	6059.700	2.7399E+00	(2009,035,2300)
18, 41	719.000	6059.800	2.8297E+00	(2009,035,2300)
18, 42	719.000	6059.900	2.7313E+00	(2009,035,2300)
18, 43	719.000	6060.000	2.4765E+00	(2009,035,2300)
18, 44	719.000	6060.100	2.5221E+00	(2009,297,2300)
18, 45	719.000	6060.200	2.5888E+00	(2009,297,2300)
18, 46	719.000	6060.300	2.5625E+00	(2009,297,2300)
18, 47	719.000	6060.400	2.4526E+00	(2009,297,2300)
18, 48	719.000	6060.500	2.4078E+00	(2009,088,2300)
18, 49	719.000	6060.600	2.4211E+00	(2009,088,2300)
18, 50	719.000	6060.700	2.3378E+00	(2009,088,2300)
18, 51	719.000	6060.800	2.1666E+00	(2009,088,2300)
19, 1	719.100	6055.800	9.5734E-01	(2009,188,2300)
19, 2	719.100	6055.900	9.7520E-01	(2009,188,2300)

19, 3	719.100	6056.000	9.8452E-01	(2009,188,2300)
19, 4	719.100	6056.100	9.8420E-01	(2009,188,2300)
19, 5	719.100	6056.200	9.7252E-01	(2009,188,2300)
19, 6	719.100	6056.300	9.4877E-01	(2009,188,2300)
19, 7	719.100	6056.400	9.1333E-01	(2009,188,2300)
19, 8	719.100	6056.500	8.6536E-01	(2009,188,2300)
19, 9	719.100	6056.600	8.5913E-01	(2009,142,2300)
19, 10	719.100	6056.700	9.6118E-01	(2009,142,2300)
19, 11	719.100	6056.800	1.0520E+00	(2009,142,2300)
19, 12	719.100	6056.900	1.1380E+00	(2009,141,2300)
19, 13	719.100	6057.000	1.2924E+00	(2009,141,2300)
19, 14	719.100	6057.100	1.4555E+00	(2009,155,2300)
19, 15	719.100	6057.200	1.6407E+00	(2009,155,2300)
19, 16	719.100	6057.300	1.7418E+00	(2009,155,2300)
19, 17	719.100	6057.400	1.7122E+00	(2009,155,2300)
19, 18	719.100	6057.500	1.7563E+00	(2009,220,2300)
19, 19	719.100	6057.600	2.0446E+00	(2009,220,2300)
19, 20	719.100	6057.700	2.3139E+00	(2009,220,2300)
19, 21	719.100	6057.800	2.5305E+00	(2009,220,2300)
19, 22	719.100	6057.900	2.6783E+00	(2009,220,2300)
19, 23	719.100	6058.000	2.7275E+00	(2009,220,2300)
19, 24	719.100	6058.100	2.6108E+00	(2009,220,2300)
19, 25	719.100	6058.200	2.2581E+00	(2009,220,2300)
19, 26	719.100	6058.300	2.0254E+00	(2009,140,2300)
19, 27	719.100	6058.400	2.0505E+00	(2009,140,2300)
19, 28	719.100	6058.500	2.1376E+00	(2009,138,2300)
19, 29	719.100	6058.600	2.0632E+00	(2009,138,2300)
19, 30	719.100	6058.700	2.3691E+00	(2009,140,2300)
19, 31	719.100	6058.800	2.9336E+00	(2009,140,2300)
19, 32	719.100	6058.900	3.3692E+00	(2009,140,2300)
19, 33	719.100	6059.000	2.5525E+00	(2009,140,2300)
19, 34	719.100	6059.100	2.2844E+00	(2009,136,2300)
19, 35	719.100	6059.200	2.4388E+00	(2009,136,2300)
19, 36	719.100	6059.300	2.4685E+00	(2009,136,2300)
19, 37	719.100	6059.400	2.4254E+00	(2009,035,2300)
19, 38	719.100	6059.500	2.8432E+00	(2009,035,2300)
19, 39	719.100	6059.600	3.1056E+00	(2009,035,2300)
19, 40	719.100	6059.700	3.1650E+00	(2009,035,2300)
19, 41	719.100	6059.800	3.0081E+00	(2009,035,2300)
19, 42	719.100	6059.900	2.8523E+00	(2009,297,2300)
19, 43	719.100	6060.000	2.9508E+00	(2009,297,2300)
19, 44	719.100	6060.100	2.9314E+00	(2009,297,2300)
19, 45	719.100	6060.200	2.8040E+00	(2009,297,2300)
19, 46	719.100	6060.300	2.6702E+00	(2009,088,2300)
19, 47	719.100	6060.400	2.6696E+00	(2009,088,2300)
19, 48	719.100	6060.500	2.5573E+00	(2009,088,2300)
19, 49	719.100	6060.600	2.3467E+00	(2009,088,2300)
19, 50	719.100	6060.700	2.0693E+00	(2009,088,2300)
19, 51	719.100	6060.800	1.8695E+00	(2009,046,2300)
20, 1	719.200	6055.800	1.0059E+00	(2009,188,2300)
20, 2	719.200	6055.900	1.0529E+00	(2009,188,2300)
20, 3	719.200	6056.000	1.0949E+00	(2009,188,2300)
20, 4	719.200	6056.100	1.1298E+00	(2009,188,2300)
20, 5	719.200	6056.200	1.1547E+00	(2009,188,2300)
20, 6	719.200	6056.300	1.1683E+00	(2009,188,2300)
20, 7	719.200	6056.400	1.1684E+00	(2009,188,2300)
20, 8	719.200	6056.500	1.1524E+00	(2009,188,2300)
20, 9	719.200	6056.600	1.1209E+00	(2009,188,2300)
20, 10	719.200	6056.700	1.0726E+00	(2009,188,2300)
20, 11	719.200	6056.800	1.0440E+00	(2009,142,2300)

20, 12	719.200	6056.900	1.1772E+00	(2009,142,2300)
20, 13	719.200	6057.000	1.2953E+00	(2009,142,2300)
20, 14	719.200	6057.100	1.4345E+00	(2009,141,2300)
20, 15	719.200	6057.200	1.6341E+00	(2009,141,2300)
20, 16	719.200	6057.300	1.8716E+00	(2009,155,2300)
20, 17	719.200	6057.400	2.0413E+00	(2009,155,2300)
20, 18	719.200	6057.500	2.0463E+00	(2009,155,2300)
20, 19	719.200	6057.600	2.0018E+00	(2009,220,2300)
20, 20	719.200	6057.700	2.4125E+00	(2009,220,2300)
20, 21	719.200	6057.800	2.8363E+00	(2009,220,2300)
20, 22	719.200	6057.900	3.2771E+00	(2009,220,2300)
20, 23	719.200	6058.000	3.6851E+00	(2009,220,2300)
20, 24	719.200	6058.100	3.9498E+00	(2009,220,2300)
20, 25	719.200	6058.200	3.7964E+00	(2009,220,2300)
20, 26	719.200	6058.300	3.0706E+00	(2009,220,2300)
20, 27	719.200	6058.400	2.7134E+00	(2009,140,2300)
20, 28	719.200	6058.500	2.6224E+00	(2009,140,2300)
20, 29	719.200	6058.600	2.6456E+00	(2009,140,2300)
20, 30	719.200	6058.700	3.0597E+00	(2009,140,2300)
20, 31	719.200	6058.800	3.7202E+00	(2009,140,2300)
20, 32	719.200	6058.900	4.1397E+00	(2009,140,2300)
20, 33	719.200	6059.000	3.0019E+00	(2009,090,2300)
20, 34	719.200	6059.100	2.7626E+00	(2009,136,2300)
20, 35	719.200	6059.200	2.8690E+00	(2009,136,2300)
20, 36	719.200	6059.300	2.8492E+00	(2009,035,2300)
20, 37	719.200	6059.400	3.2962E+00	(2009,035,2300)
20, 38	719.200	6059.500	3.5415E+00	(2009,035,2300)
20, 39	719.200	6059.600	3.5532E+00	(2009,035,2300)
20, 40	719.200	6059.700	3.3006E+00	(2009,035,2300)
20, 41	719.200	6059.800	3.4165E+00	(2009,297,2300)
20, 42	719.200	6059.900	3.4068E+00	(2009,297,2300)
20, 43	719.200	6060.000	3.2530E+00	(2009,297,2300)
20, 44	719.200	6060.100	3.0016E+00	(2009,297,2300)
20, 45	719.200	6060.200	2.9607E+00	(2009,088,2300)
20, 46	719.200	6060.300	2.8021E+00	(2009,088,2300)
20, 47	719.200	6060.400	2.5359E+00	(2009,088,2300)
20, 48	719.200	6060.500	2.2015E+00	(2009,088,2300)
20, 49	719.200	6060.600	2.1297E+00	(2009,046,2300)
20, 50	719.200	6060.700	2.1746E+00	(2009,046,2300)
20, 51	719.200	6060.800	2.1590E+00	(2009,046,2300)
21, 1	719.300	6055.800	9.6749E-01	(2009,188,2300)
21, 2	719.300	6055.900	1.0386E+00	(2009,188,2300)
21, 3	719.300	6056.000	1.1105E+00	(2009,188,2300)
21, 4	719.300	6056.100	1.1810E+00	(2009,188,2300)
21, 5	719.300	6056.200	1.2472E+00	(2009,188,2300)
21, 6	719.300	6056.300	1.3081E+00	(2009,188,2300)
21, 7	719.300	6056.400	1.3592E+00	(2009,188,2300)
21, 8	719.300	6056.500	1.3978E+00	(2009,188,2300)
21, 9	719.300	6056.600	1.4217E+00	(2009,188,2300)
21, 10	719.300	6056.700	1.4258E+00	(2009,188,2300)
21, 11	719.300	6056.800	1.4082E+00	(2009,188,2300)
21, 12	719.300	6056.900	1.3668E+00	(2009,188,2300)
21, 13	719.300	6057.000	1.3016E+00	(2009,142,2300)
21, 14	719.300	6057.100	1.4859E+00	(2009,142,2300)
21, 15	719.300	6057.200	1.6368E+00	(2009,142,2300)
21, 16	719.300	6057.300	1.8776E+00	(2009,141,2300)
21, 17	719.300	6057.400	2.1494E+00	(2009,155,2300)
21, 18	719.300	6057.500	2.4275E+00	(2009,155,2300)
21, 19	719.300	6057.600	2.4922E+00	(2009,155,2300)
21, 20	719.300	6057.700	2.3140E+00	(2009,220,2300)

21, 21	719.300	6057.800	2.8976E+00	(2009,220,2300)
21, 22	719.300	6057.900	3.5985E+00	(2009,220,2300)
21, 23	719.300	6058.000	4.4039E+00	(2009,220,2300)
21, 24	719.300	6058.100	5.4276E+00	(2009,220,2300)
21, 25	719.300	6058.200	5.8971E+00	(2009,220,2300)
21, 26	719.300	6058.300	5.2466E+00	(2009,220,2300)
21, 27	719.300	6058.400	3.8892E+00	(2009,220,2300)
21, 28	719.300	6058.500	3.6863E+00	(2009,140,2300)
21, 29	719.300	6058.600	3.6800E+00	(2009,140,2300)
21, 30	719.300	6058.700	4.1659E+00	(2009,140,2300)
21, 31	719.300	6058.800	4.8406E+00	(2009,140,2300)
21, 32	719.300	6058.900	4.9283E+00	(2009,140,2300)
21, 33	719.300	6059.000	3.8004E+00	(2009,090,2300)
21, 34	719.300	6059.100	3.5062E+00	(2009,153,2300)
21, 35	719.300	6059.200	3.4640E+00	(2009,153,2300)
21, 36	719.300	6059.300	3.8648E+00	(2009,035,2300)
21, 37	719.300	6059.400	4.0775E+00	(2009,035,2300)
21, 38	719.300	6059.500	3.9893E+00	(2009,035,2300)
21, 39	719.300	6059.600	4.0096E+00	(2009,297,2300)
21, 40	719.300	6059.700	4.0310E+00	(2009,297,2300)
21, 41	719.300	6059.800	3.8515E+00	(2009,297,2300)
21, 42	719.300	6059.900	3.5277E+00	(2009,297,2300)
21, 43	719.300	6060.000	3.3081E+00	(2009,088,2300)
21, 44	719.300	6060.100	3.0748E+00	(2009,088,2300)
21, 45	719.300	6060.200	2.7285E+00	(2009,088,2300)
21, 46	719.300	6060.300	2.5157E+00	(2009,040,2300)
21, 47	719.300	6060.400	2.4299E+00	(2009,046,2300)
21, 48	719.300	6060.500	2.4249E+00	(2009,046,2300)
21, 49	719.300	6060.600	2.3537E+00	(2009,046,2300)
21, 50	719.300	6060.700	2.2235E+00	(2009,046,2300)
21, 51	719.300	6060.800	2.0508E+00	(2009,046,2300)
22, 1	719.400	6055.800	8.4516E-01	(2009,188,2300)
22, 2	719.400	6055.900	9.2775E-01	(2009,188,2300)
22, 3	719.400	6056.000	1.0169E+00	(2009,188,2300)
22, 4	719.400	6056.100	1.1111E+00	(2009,188,2300)
22, 5	719.400	6056.200	1.2095E+00	(2009,188,2300)
22, 6	719.400	6056.300	1.3115E+00	(2009,188,2300)
22, 7	719.400	6056.400	1.4131E+00	(2009,188,2300)
22, 8	719.400	6056.500	1.5135E+00	(2009,188,2300)
22, 9	719.400	6056.600	1.6085E+00	(2009,188,2300)
22, 10	719.400	6056.700	1.6922E+00	(2009,188,2300)
22, 11	719.400	6056.800	1.7603E+00	(2009,188,2300)
22, 12	719.400	6056.900	1.8056E+00	(2009,188,2300)
22, 13	719.400	6057.000	1.8207E+00	(2009,188,2300)
22, 14	719.400	6057.100	1.7993E+00	(2009,188,2300)
22, 15	719.400	6057.200	1.7401E+00	(2009,188,2300)
22, 16	719.400	6057.300	1.9238E+00	(2009,142,2300)
22, 17	719.400	6057.400	2.1393E+00	(2009,142,2300)
22, 18	719.400	6057.500	2.5584E+00	(2009,141,2300)
22, 19	719.400	6057.600	2.9539E+00	(2009,155,2300)
22, 20	719.400	6057.700	3.1405E+00	(2009,155,2300)
22, 21	719.400	6057.800	2.9080E+00	(2009,155,2300)
22, 22	719.400	6057.900	3.5937E+00	(2009,220,2300)
22, 23	719.400	6058.000	4.8093E+00	(2009,220,2300)
22, 24	719.400	6058.100	6.5187E+00	(2009,220,2300)
22, 25	719.400	6058.200	7.9939E+00	(2009,220,2300)
22, 26	719.400	6058.300	8.1282E+00	(2009,220,2300)
22, 27	719.400	6058.400	6.7381E+00	(2009,220,2300)
22, 28	719.400	6058.500	5.3890E+00	(2009,140,2300)
22, 29	719.400	6058.600	5.3856E+00	(2009,140,2300)

22, 30	719.400	6058.700	5.9896E+00	(2009,140,2300)
22, 31	719.400	6058.800	6.4448E+00	(2009,090,2300)
22, 32	719.400	6058.900	6.8490E+00	(2009,090,2300)
22, 33	719.400	6059.000	5.0568E+00	(2009,090,2300)
22, 34	719.400	6059.100	4.4556E+00	(2009,153,2300)
22, 35	719.400	6059.200	4.6153E+00	(2009,035,2300)
22, 36	719.400	6059.300	4.7310E+00	(2009,035,2300)
22, 37	719.400	6059.400	4.7713E+00	(2009,297,2300)
22, 38	719.400	6059.500	4.8657E+00	(2009,297,2300)
22, 39	719.400	6059.600	4.6690E+00	(2009,297,2300)
22, 40	719.400	6059.700	4.2384E+00	(2009,297,2300)
22, 41	719.400	6059.800	3.7289E+00	(2009,088,2300)
22, 42	719.400	6059.900	3.3787E+00	(2009,088,2300)
22, 43	719.400	6060.000	3.0782E+00	(2009,040,2300)
22, 44	719.400	6060.100	2.9621E+00	(2009,040,2300)
22, 45	719.400	6060.200	2.7608E+00	(2009,046,2300)
22, 46	719.400	6060.300	2.6737E+00	(2009,046,2300)
22, 47	719.400	6060.400	2.5201E+00	(2009,046,2300)
22, 48	719.400	6060.500	2.3150E+00	(2009,046,2300)
22, 49	719.400	6060.600	2.2027E+00	(2009,044,2300)
22, 50	719.400	6060.700	2.2341E+00	(2009,068,2300)
22, 51	719.400	6060.800	2.2926E+00	(2009,068,2300)
23, 1	719.500	6055.800	7.8431E-01	(2009,169,2300)
23, 2	719.500	6055.900	8.1912E-01	(2009,169,2300)
23, 3	719.500	6056.000	8.5405E-01	(2009,169,2300)
23, 4	719.500	6056.100	9.3169E-01	(2009,188,2300)
23, 5	719.500	6056.200	1.0411E+00	(2009,188,2300)
23, 6	719.500	6056.300	1.1617E+00	(2009,188,2300)
23, 7	719.500	6056.400	1.2927E+00	(2009,188,2300)
23, 8	719.500	6056.500	1.4358E+00	(2009,188,2300)
23, 9	719.500	6056.600	1.5877E+00	(2009,188,2300)
23, 10	719.500	6056.700	1.7461E+00	(2009,188,2300)
23, 11	719.500	6056.800	1.9077E+00	(2009,188,2300)
23, 12	719.500	6056.900	2.0657E+00	(2009,188,2300)
23, 13	719.500	6057.000	2.2119E+00	(2009,188,2300)
23, 14	719.500	6057.100	2.3358E+00	(2009,188,2300)
23, 15	719.500	6057.200	2.4293E+00	(2009,188,2300)
23, 16	719.500	6057.300	2.4679E+00	(2009,188,2300)
23, 17	719.500	6057.400	2.4446E+00	(2009,188,2300)
23, 18	719.500	6057.500	2.6176E+00	(2009,142,2300)
23, 19	719.500	6057.600	3.0924E+00	(2009,141,2300)
23, 20	719.500	6057.700	3.6873E+00	(2009,155,2300)
23, 21	719.500	6057.800	4.1467E+00	(2009,155,2300)
23, 22	719.500	6057.900	4.1387E+00	(2009,153,2300)
23, 23	719.500	6058.000	4.6842E+00	(2009,153,2300)
23, 24	719.500	6058.100	6.5858E+00	(2009,220,2300)
23, 25	719.500	6058.200	8.4966E+00	(2009,220,2300)
23, 26	719.500	6058.300	9.8899E+00	(2009,220,2300)
23, 27	719.500	6058.400	9.5293E+00	(2009,220,2300)
23, 28	719.500	6058.500	8.0998E+00	(2009,220,2300)
23, 29	719.500	6058.600	6.8520E+00	(2009,140,2300)
23, 30	719.500	6058.700	7.6391E+00	(2009,153,2300)
23, 31	719.500	6058.800	8.5444E+00	(2009,090,2300)
23, 32	719.500	6058.900	8.9249E+00	(2009,090,2300)
23, 33	719.500	6059.000	6.5553E+00	(2009,138,2300)
23, 34	719.500	6059.100	5.5971E+00	(2009,035,2300)
23, 35	719.500	6059.200	5.8127E+00	(2009,297,2300)
23, 36	719.500	6059.300	5.9930E+00	(2009,297,2300)
23, 37	719.500	6059.400	5.8065E+00	(2009,297,2300)
23, 38	719.500	6059.500	5.2483E+00	(2009,297,2300)

23, 39	719.500	6059.600	4.4669E+00	(2009,297,2300)
23, 40	719.500	6059.700	3.9086E+00	(2009,040,2300)
23, 41	719.500	6059.800	3.7631E+00	(2009,040,2300)
23, 42	719.500	6059.900	3.4575E+00	(2009,040,2300)
23, 43	719.500	6060.000	3.0870E+00	(2009,046,2300)
23, 44	719.500	6060.100	2.8804E+00	(2009,046,2300)
23, 45	719.500	6060.200	2.6187E+00	(2009,046,2300)
23, 46	719.500	6060.300	2.6549E+00	(2009,068,2300)
23, 47	719.500	6060.400	2.7076E+00	(2009,068,2300)
23, 48	719.500	6060.500	2.7374E+00	(2009,068,2300)
23, 49	719.500	6060.600	2.7296E+00	(2009,068,2300)
23, 50	719.500	6060.700	2.6950E+00	(2009,068,2300)
23, 51	719.500	6060.800	2.6281E+00	(2009,068,2300)
24, 1	719.600	6055.800	8.0090E-01	(2009,169,2300)
24, 2	719.600	6055.900	8.5067E-01	(2009,169,2300)
24, 3	719.600	6056.000	9.0371E-01	(2009,169,2300)
24, 4	719.600	6056.100	9.5999E-01	(2009,169,2300)
24, 5	719.600	6056.200	1.0196E+00	(2009,169,2300)
24, 6	719.600	6056.300	1.0817E+00	(2009,169,2300)
24, 7	719.600	6056.400	1.1454E+00	(2009,169,2300)
24, 8	719.600	6056.500	1.2104E+00	(2009,169,2300)
24, 9	719.600	6056.600	1.3406E+00	(2009,188,2300)
24, 10	719.600	6056.700	1.5304E+00	(2009,188,2300)
24, 11	719.600	6056.800	1.7430E+00	(2009,188,2300)
24, 12	719.600	6056.900	1.9784E+00	(2009,188,2300)
24, 13	719.600	6057.000	2.2370E+00	(2009,188,2300)
24, 14	719.600	6057.100	2.5133E+00	(2009,188,2300)
24, 15	719.600	6057.200	2.8100E+00	(2009,188,2300)
24, 16	719.600	6057.300	3.0986E+00	(2009,188,2300)
24, 17	719.600	6057.400	3.3809E+00	(2009,188,2300)
24, 18	719.600	6057.500	3.6117E+00	(2009,188,2300)
24, 19	719.600	6057.600	3.7133E+00	(2009,188,2300)
24, 20	719.600	6057.700	3.9264E+00	(2009,142,2300)
24, 21	719.600	6057.800	4.9709E+00	(2009,141,2300)
24, 22	719.600	6057.900	5.8342E+00	(2009,155,2300)
24, 23	719.600	6058.000	6.8387E+00	(2009,175,2300)
24, 24	719.600	6058.100	8.4810E+00	(2009,175,2300)
24, 25	719.600	6058.200	9.3034E+00	(2009,220,2300)
24, 26	719.600	6058.300	1.1515E+01	(2009,220,2300)
24, 27	719.600	6058.400	1.1856E+01	(2009,220,2300)
24, 28	719.600	6058.500	1.1269E+01	(2009,220,2300)
24, 29	719.600	6058.600	1.1949E+01	(2009,153,2300)
24, 30	719.600	6058.700	1.3284E+01	(2009,153,2300)
24, 31	719.600	6058.800	1.2594E+01	(2009,153,2300)
24, 32	719.600	6058.900	1.2785E+01	(2009,090,2300)
24, 33	719.600	6059.000	9.1529E+00	(2009,153,2300)
24, 34	719.600	6059.100	7.6952E+00	(2009,088,2300)
24, 35	719.600	6059.200	7.4759E+00	(2009,088,2300)
24, 36	719.600	6059.300	6.7682E+00	(2009,297,2300)
24, 37	719.600	6059.400	5.6326E+00	(2009,297,2300)
24, 38	719.600	6059.500	5.0965E+00	(2009,040,2300)
24, 39	719.600	6059.600	4.6335E+00	(2009,040,2300)
24, 40	719.600	6059.700	3.9870E+00	(2009,040,2300)
24, 41	719.600	6059.800	3.3953E+00	(2009,125,2300)
24, 42	719.600	6059.900	3.3484E+00	(2009,068,2300)
24, 43	719.600	6060.000	3.3667E+00	(2009,068,2300)
24, 44	719.600	6060.100	3.3581E+00	(2009,068,2300)
24, 45	719.600	6060.200	3.3063E+00	(2009,068,2300)
24, 46	719.600	6060.300	3.2319E+00	(2009,068,2300)
24, 47	719.600	6060.400	3.1152E+00	(2009,068,2300)

24, 48	719.600	6060.500	2.9824E+00	(2009,068,2300)
24, 49	719.600	6060.600	2.8202E+00	(2009,068,2300)
24, 50	719.600	6060.700	2.6452E+00	(2009,068,2300)
24, 51	719.600	6060.800	2.4577E+00	(2009,068,2300)
25, 1	719.700	6055.800	8.2186E-01	(2009,162,2300)
25, 2	719.700	6055.900	8.6337E-01	(2009,162,2300)
25, 3	719.700	6056.000	9.0763E-01	(2009,162,2300)
25, 4	719.700	6056.100	9.5422E-01	(2009,162,2300)
25, 5	719.700	6056.200	1.0033E+00	(2009,162,2300)
25, 6	719.700	6056.300	1.0801E+00	(2009,169,2300)
25, 7	719.700	6056.400	1.1676E+00	(2009,169,2300)
25, 8	719.700	6056.500	1.2625E+00	(2009,169,2300)
25, 9	719.700	6056.600	1.3661E+00	(2009,169,2300)
25, 10	719.700	6056.700	1.4783E+00	(2009,169,2300)
25, 11	719.700	6056.800	1.5998E+00	(2009,169,2300)
25, 12	719.700	6056.900	1.7371E+00	(2009,169,2300)
25, 13	719.700	6057.000	1.8833E+00	(2009,169,2300)
25, 14	719.700	6057.100	2.1460E+00	(2009,188,2300)
25, 15	719.700	6057.200	2.5462E+00	(2009,188,2300)
25, 16	719.700	6057.300	3.0121E+00	(2009,188,2300)
25, 17	719.700	6057.400	3.5920E+00	(2009,188,2300)
25, 18	719.700	6057.500	4.2572E+00	(2009,188,2300)
25, 19	719.700	6057.600	4.9901E+00	(2009,188,2300)
25, 20	719.700	6057.700	5.8415E+00	(2009,188,2300)
25, 21	719.700	6057.800	6.4929E+00	(2009,188,2300)
25, 22	719.700	6057.900	7.2678E+00	(2009,175,2300)
25, 23	719.700	6058.000	1.0414E+01	(2009,175,2300)
25, 24	719.700	6058.100	1.5172E+01	(2009,175,2300)
25, 25	719.700	6058.200	1.7894E+01	(2009,153,2300)
25, 26	719.700	6058.300	1.7560E+01	(2009,153,2300)
25, 27	719.700	6058.400	1.6024E+01	(2009,167,2300)
25, 28	719.700	6058.500	1.6520E+01	(2009,153,2300)
25, 29	719.700	6058.600	1.6960E+01	(2009,153,2300)
25, 30	719.700	6058.700	1.8784E+01	(2009,153,2300)
25, 31	719.700	6058.800	1.8815E+01	(2009,153,2300)
25, 32	719.700	6058.900	1.6737E+01	(2009,153,2300)
25, 33	719.700	6059.000	1.4122E+01	(2009,124,2300)
25, 34	719.700	6059.100	1.0898E+01	(2009,124,2300)
25, 35	719.700	6059.200	9.0163E+00	(2009,319,2300)
25, 36	719.700	6059.300	7.2190E+00	(2009,319,2300)
25, 37	719.700	6059.400	6.7600E+00	(2009,125,2300)
25, 38	719.700	6059.500	6.1344E+00	(2009,125,2300)
25, 39	719.700	6059.600	5.4272E+00	(2009,125,2300)
25, 40	719.700	6059.700	4.8024E+00	(2009,125,2300)
25, 41	719.700	6059.800	4.2092E+00	(2009,125,2300)
25, 42	719.700	6059.900	3.9800E+00	(2009,068,2300)
25, 43	719.700	6060.000	3.7655E+00	(2009,068,2300)
25, 44	719.700	6060.100	3.5480E+00	(2009,068,2300)
25, 45	719.700	6060.200	3.2987E+00	(2009,068,2300)
25, 46	719.700	6060.300	3.0565E+00	(2009,068,2300)
25, 47	719.700	6060.400	2.8414E+00	(2009,029,2300)
25, 48	719.700	6060.500	2.8130E+00	(2009,029,2300)
25, 49	719.700	6060.600	2.7672E+00	(2009,029,2300)
25, 50	719.700	6060.700	2.7066E+00	(2009,029,2300)
25, 51	719.700	6060.800	2.6299E+00	(2009,029,2300)
26, 1	719.800	6055.800	8.7229E-01	(2009,162,2300)
26, 2	719.800	6055.900	9.2556E-01	(2009,162,2300)
26, 3	719.800	6056.000	9.8376E-01	(2009,162,2300)
26, 4	719.800	6056.100	1.0469E+00	(2009,162,2300)
26, 5	719.800	6056.200	1.1161E+00	(2009,162,2300)

26, 6	719.800	6056.300	1.1917E+00	(2009,162,2300)
26, 7	719.800	6056.400	1.2730E+00	(2009,162,2300)
26, 8	719.800	6056.500	1.3707E+00	(2009,118,2300)
26, 9	719.800	6056.600	1.5165E+00	(2009,118,2300)
26, 10	719.800	6056.700	1.6737E+00	(2009,118,2300)
26, 11	719.800	6056.800	1.8439E+00	(2009,118,2300)
26, 12	719.800	6056.900	2.0291E+00	(2009,118,2300)
26, 13	719.800	6057.000	2.2302E+00	(2009,118,2300)
26, 14	719.800	6057.100	2.4572E+00	(2009,118,2300)
26, 15	719.800	6057.200	2.7202E+00	(2009,118,2300)
26, 16	719.800	6057.300	3.0338E+00	(2009,118,2300)
26, 17	719.800	6057.400	3.4237E+00	(2009,118,2300)
26, 18	719.800	6057.500	3.9330E+00	(2009,118,2300)
26, 19	719.800	6057.600	4.6120E+00	(2009,118,2300)
26, 20	719.800	6057.700	6.0312E+00	(2009,188,2300)
26, 21	719.800	6057.800	8.0478E+00	(2009,188,2300)
26, 22	719.800	6057.900	1.1297E+01	(2009,188,2300)
26, 23	719.800	6058.000	1.5979E+01	(2009,188,2300)
26, 24	719.800	6058.100	2.1546E+01	(2009,187,2300)
26, 25	719.800	6058.200	2.5608E+01	(2009,175,2300)
26, 26	719.800	6058.300	3.2316E+01	(2009,153,2300)
26, 27	719.800	6058.400	2.4818E+01	(2009,088,2300)
26, 28	719.800	6058.500	2.2305E+01	(2009,167,2300)
26, 29	719.800	6058.600	1.9260E+01	(2009,153,2300)
26, 30	719.800	6058.700	1.9502E+01	(2009,167,2300)
26, 31	719.800	6058.800	1.8690E+01	(2009,167,2300)
26, 32	719.800	6058.900	1.6169E+01	(2009,167,2300)
26, 33	719.800	6059.000	1.5999E+01	(2009,289,2300)
26, 34	719.800	6059.100	1.7140E+01	(2009,289,2300)
26, 35	719.800	6059.200	1.5055E+01	(2009,289,2300)
26, 36	719.800	6059.300	1.0825E+01	(2009,289,2300)
26, 37	719.800	6059.400	8.1072E+00	(2009,125,2300)
26, 38	719.800	6059.500	6.5069E+00	(2009,125,2300)
26, 39	719.800	6059.600	5.2699E+00	(2009,125,2300)
26, 40	719.800	6059.700	4.4148E+00	(2009,125,2300)
26, 41	719.800	6059.800	3.9188E+00	(2009,272,2300)
26, 42	719.800	6059.900	3.6529E+00	(2009,272,2300)
26, 43	719.800	6060.000	3.4423E+00	(2009,029,2300)
26, 44	719.800	6060.100	3.3293E+00	(2009,029,2300)
26, 45	719.800	6060.200	3.2083E+00	(2009,029,2300)
26, 46	719.800	6060.300	3.0759E+00	(2009,029,2300)
26, 47	719.800	6060.400	2.9336E+00	(2009,029,2300)
26, 48	719.800	6060.500	2.7838E+00	(2009,029,2300)
26, 49	719.800	6060.600	2.6258E+00	(2009,029,2300)
26, 50	719.800	6060.700	2.4843E+00	(2009,272,2300)
26, 51	719.800	6060.800	2.3893E+00	(2009,272,2300)
27, 1	719.900	6055.800	8.4586E-01	(2009,162,2300)
27, 2	719.900	6055.900	9.0106E-01	(2009,162,2300)
27, 3	719.900	6056.000	9.6190E-01	(2009,162,2300)
27, 4	719.900	6056.100	1.0288E+00	(2009,162,2300)
27, 5	719.900	6056.200	1.1059E+00	(2009,118,2300)
27, 6	719.900	6056.300	1.2321E+00	(2009,118,2300)
27, 7	719.900	6056.400	1.3701E+00	(2009,118,2300)
27, 8	719.900	6056.500	1.5196E+00	(2009,118,2300)
27, 9	719.900	6056.600	1.6827E+00	(2009,118,2300)
27, 10	719.900	6056.700	1.8589E+00	(2009,118,2300)
27, 11	719.900	6056.800	2.0511E+00	(2009,118,2300)
27, 12	719.900	6056.900	2.2596E+00	(2009,118,2300)
27, 13	719.900	6057.000	2.4904E+00	(2009,118,2300)
27, 14	719.900	6057.100	2.7531E+00	(2009,118,2300)

27, 15	719.900	6057.200	3.0584E+00	(2009,118,2300)
27, 16	719.900	6057.300	3.4245E+00	(2009,118,2300)
27, 17	719.900	6057.400	3.8818E+00	(2009,118,2300)
27, 18	719.900	6057.500	4.4699E+00	(2009,118,2300)
27, 19	719.900	6057.600	5.2628E+00	(2009,118,2300)
27, 20	719.900	6057.700	6.3578E+00	(2009,118,2300)
27, 21	719.900	6057.800	8.0748E+00	(2009,162,2300)
27, 22	719.900	6057.900	1.1162E+01	(2009,162,2300)
27, 23	719.900	6058.000	1.7782E+01	(2009,161,2300)
27, 24	719.900	6058.100	3.7484E+01	(2009,172,2300)
27, 25	719.900	6058.200	3.7904E+01	(2009,172,2300)
27, 26	719.900	6058.300	4.0466E+01	(2009,172,2300)
27, 27	719.900	6058.400	3.9120E+01	(2009,064,2300)
27, 28	719.900	6058.500	2.2820E+01	(2009,068,2300)
27, 29	719.900	6058.600	1.3661E+01	(2009,068,2300)
27, 30	719.900	6058.700	1.7193E+01	(2009,226,2300)
27, 31	719.900	6058.800	1.6492E+01	(2009,122,2300)
27, 32	719.900	6058.900	1.8286E+01	(2009,166,2300)
27, 33	719.900	6059.000	1.9545E+01	(2009,064,2300)
27, 34	719.900	6059.100	2.0206E+01	(2009,064,2300)
27, 35	719.900	6059.200	1.5243E+01	(2009,120,2300)
27, 36	719.900	6059.300	1.1079E+01	(2009,289,2300)
27, 37	719.900	6059.400	8.1698E+00	(2009,289,2300)
27, 38	719.900	6059.500	6.4477E+00	(2009,357,2300)
27, 39	719.900	6059.600	5.6534E+00	(2009,357,2300)
27, 40	719.900	6059.700	5.0332E+00	(2009,357,2300)
27, 41	719.900	6059.800	4.5060E+00	(2009,357,2300)
27, 42	719.900	6059.900	4.0818E+00	(2009,357,2300)
27, 43	719.900	6060.000	3.7123E+00	(2009,357,2300)
27, 44	719.900	6060.100	3.4070E+00	(2009,357,2300)
27, 45	719.900	6060.200	3.1669E+00	(2009,272,2300)
27, 46	719.900	6060.300	2.9864E+00	(2009,272,2300)
27, 47	719.900	6060.400	2.8209E+00	(2009,272,2300)
27, 48	719.900	6060.500	2.6703E+00	(2009,272,2300)
27, 49	719.900	6060.600	2.5299E+00	(2009,272,2300)
27, 50	719.900	6060.700	2.3993E+00	(2009,272,2300)
27, 51	719.900	6060.800	2.2767E+00	(2009,272,2300)
28, 1	720.000	6055.800	7.5252E-01	(2009,162,2300)
28, 2	720.000	6055.900	8.3675E-01	(2009,118,2300)
28, 3	720.000	6056.000	9.3731E-01	(2009,118,2300)
28, 4	720.000	6056.100	1.0480E+00	(2009,118,2300)
28, 5	720.000	6056.200	1.1687E+00	(2009,118,2300)
28, 6	720.000	6056.300	1.2998E+00	(2009,118,2300)
28, 7	720.000	6056.400	1.4425E+00	(2009,118,2300)
28, 8	720.000	6056.500	1.5962E+00	(2009,118,2300)
28, 9	720.000	6056.600	1.7612E+00	(2009,118,2300)
28, 10	720.000	6056.700	1.9399E+00	(2009,118,2300)
28, 11	720.000	6056.800	2.1323E+00	(2009,118,2300)
28, 12	720.000	6056.900	2.3407E+00	(2009,118,2300)
28, 13	720.000	6057.000	2.5709E+00	(2009,118,2300)
28, 14	720.000	6057.100	2.8285E+00	(2009,118,2300)
28, 15	720.000	6057.200	3.1231E+00	(2009,118,2300)
28, 16	720.000	6057.300	3.4691E+00	(2009,118,2300)
28, 17	720.000	6057.400	3.8906E+00	(2009,118,2300)
28, 18	720.000	6057.500	4.4069E+00	(2009,118,2300)
28, 19	720.000	6057.600	5.0847E+00	(2009,118,2300)
28, 20	720.000	6057.700	6.1099E+00	(2009,161,2300)
28, 21	720.000	6057.800	7.7617E+00	(2009,161,2300)
28, 22	720.000	6057.900	1.0536E+01	(2009,161,2300)
28, 23	720.000	6058.000	1.5503E+01	(2009,172,2300)

28, 24	720.000	6058.100	3.3474E+01	(2009,199,2300)
28, 25	720.000	6058.200	4.6751E+01	(2009,118,2300)
28, 26	720.000	6058.300	3.9728E+01	(2009,332,2300)
28, 27	720.000	6058.400	6.7617E+01	(2009,118,2300)
28, 28	720.000	6058.500	4.4895E+01	(2009,332,2300)
28, 29	720.000	6058.600	1.9536E+01	(2009,013,2300)
28, 30	720.000	6058.700	1.4486E+01	(2009,226,2300)
28, 31	720.000	6058.800	1.2844E+01	(2009,349,2300)
28, 32	720.000	6058.900	1.3762E+01	(2009,166,2300)
28, 33	720.000	6059.000	1.5321E+01	(2009,166,2300)
28, 34	720.000	6059.100	1.6034E+01	(2009,064,2300)
28, 35	720.000	6059.200	1.4687E+01	(2009,064,2300)
28, 36	720.000	6059.300	1.0797E+01	(2009,064,2300)
28, 37	720.000	6059.400	8.5954E+00	(2009,120,2300)
28, 38	720.000	6059.500	6.7783E+00	(2009,120,2300)
28, 39	720.000	6059.600	5.2705E+00	(2009,120,2300)
28, 40	720.000	6059.700	4.4917E+00	(2009,357,2300)
28, 41	720.000	6059.800	4.2051E+00	(2009,357,2300)
28, 42	720.000	6059.900	3.9331E+00	(2009,357,2300)
28, 43	720.000	6060.000	3.6616E+00	(2009,357,2300)
28, 44	720.000	6060.100	3.4149E+00	(2009,357,2300)
28, 45	720.000	6060.200	3.1772E+00	(2009,357,2300)
28, 46	720.000	6060.300	2.9651E+00	(2009,357,2300)
28, 47	720.000	6060.400	2.7655E+00	(2009,357,2300)
28, 48	720.000	6060.500	2.5878E+00	(2009,357,2300)
28, 49	720.000	6060.600	2.4216E+00	(2009,357,2300)
28, 50	720.000	6060.700	2.2730E+00	(2009,357,2300)
28, 51	720.000	6060.800	2.1359E+00	(2009,357,2300)
29, 1	720.100	6055.800	7.6056E-01	(2009,219,2300)
29, 2	720.100	6055.900	8.4716E-01	(2009,118,2300)
29, 3	720.100	6056.000	9.4833E-01	(2009,118,2300)
29, 4	720.100	6056.100	1.0586E+00	(2009,118,2300)
29, 5	720.100	6056.200	1.1776E+00	(2009,118,2300)
29, 6	720.100	6056.300	1.3048E+00	(2009,118,2300)
29, 7	720.100	6056.400	1.4411E+00	(2009,118,2300)
29, 8	720.100	6056.500	1.5869E+00	(2009,118,2300)
29, 9	720.100	6056.600	1.7393E+00	(2009,118,2300)
29, 10	720.100	6056.700	1.9025E+00	(2009,118,2300)
29, 11	720.100	6056.800	2.0738E+00	(2009,118,2300)
29, 12	720.100	6056.900	2.2557E+00	(2009,118,2300)
29, 13	720.100	6057.000	2.4546E+00	(2009,118,2300)
29, 14	720.100	6057.100	2.6660E+00	(2009,118,2300)
29, 15	720.100	6057.200	2.9005E+00	(2009,118,2300)
29, 16	720.100	6057.300	3.1596E+00	(2009,118,2300)
29, 17	720.100	6057.400	3.4577E+00	(2009,118,2300)
29, 18	720.100	6057.500	3.7814E+00	(2009,118,2300)
29, 19	720.100	6057.600	4.1734E+00	(2009,118,2300)
29, 20	720.100	6057.700	5.2851E+00	(2009,172,2300)
29, 21	720.100	6057.800	6.7559E+00	(2009,172,2300)
29, 22	720.100	6057.900	8.6595E+00	(2009,200,2300)
29, 23	720.100	6058.000	1.1559E+01	(2009,199,2300)
29, 24	720.100	6058.100	1.5559E+01	(2009,198,2300)
29, 25	720.100	6058.200	2.0199E+01	(2009,193,2300)
29, 26	720.100	6058.300	2.3756E+01	(2009,193,2300)
29, 27	720.100	6058.400	2.1431E+01	(2009,193,2300)
29, 28	720.100	6058.500	2.0113E+01	(2009,062,2300)
29, 29	720.100	6058.600	1.4610E+01	(2009,336,2300)
29, 30	720.100	6058.700	1.3360E+01	(2009,350,2300)
29, 31	720.100	6058.800	1.3059E+01	(2009,013,2300)
29, 32	720.100	6058.900	1.1949E+01	(2009,013,2300)

29, 33	720.100	6059.000	1.0408E+01	(2009,166,2300)
29, 34	720.100	6059.100	1.0728E+01	(2009,166,2300)
29, 35	720.100	6059.200	1.1044E+01	(2009,064,2300)
29, 36	720.100	6059.300	1.0064E+01	(2009,064,2300)
29, 37	720.100	6059.400	8.2254E+00	(2009,064,2300)
29, 38	720.100	6059.500	6.7719E+00	(2009,120,2300)
29, 39	720.100	6059.600	5.7426E+00	(2009,120,2300)
29, 40	720.100	6059.700	4.8054E+00	(2009,120,2300)
29, 41	720.100	6059.800	4.0642E+00	(2009,013,2300)
29, 42	720.100	6059.900	3.6627E+00	(2009,013,2300)
29, 43	720.100	6060.000	3.2808E+00	(2009,013,2300)
29, 44	720.100	6060.100	2.9249E+00	(2009,013,2300)
29, 45	720.100	6060.200	2.6076E+00	(2009,013,2300)
29, 46	720.100	6060.300	2.4134E+00	(2009,357,2300)
29, 47	720.100	6060.400	2.3014E+00	(2009,357,2300)
29, 48	720.100	6060.500	2.1914E+00	(2009,357,2300)
29, 49	720.100	6060.600	2.0827E+00	(2009,357,2300)
29, 50	720.100	6060.700	1.9799E+00	(2009,357,2300)
29, 51	720.100	6060.800	1.8799E+00	(2009,357,2300)
30, 1	720.200	6055.800	7.9666E-01	(2009,161,2300)
30, 2	720.200	6055.900	8.5254E-01	(2009,161,2300)
30, 3	720.200	6056.000	9.1841E-01	(2009,118,2300)
30, 4	720.200	6056.100	1.0215E+00	(2009,118,2300)
30, 5	720.200	6056.200	1.1310E+00	(2009,118,2300)
30, 6	720.200	6056.300	1.2454E+00	(2009,118,2300)
30, 7	720.200	6056.400	1.3662E+00	(2009,118,2300)
30, 8	720.200	6056.500	1.4924E+00	(2009,118,2300)
30, 9	720.200	6056.600	1.6214E+00	(2009,118,2300)
30, 10	720.200	6056.700	1.7535E+00	(2009,118,2300)
30, 11	720.200	6056.800	1.8890E+00	(2009,118,2300)
30, 12	720.200	6056.900	2.0252E+00	(2009,118,2300)
30, 13	720.200	6057.000	2.1691E+00	(2009,118,2300)
30, 14	720.200	6057.100	2.3111E+00	(2009,118,2300)
30, 15	720.200	6057.200	2.4559E+00	(2009,118,2300)
30, 16	720.200	6057.300	2.5972E+00	(2009,118,2300)
30, 17	720.200	6057.400	3.0228E+00	(2009,172,2300)
30, 18	720.200	6057.500	3.5172E+00	(2009,172,2300)
30, 19	720.200	6057.600	4.0482E+00	(2009,172,2300)
30, 20	720.200	6057.700	4.8237E+00	(2009,200,2300)
30, 21	720.200	6057.800	5.4561E+00	(2009,200,2300)
30, 22	720.200	6057.900	6.5448E+00	(2009,178,2300)
30, 23	720.200	6058.000	8.3540E+00	(2009,178,2300)
30, 24	720.200	6058.100	9.7210E+00	(2009,105,2300)
30, 25	720.200	6058.200	1.2700E+01	(2009,134,2300)
30, 26	720.200	6058.300	1.4990E+01	(2009,193,2300)
30, 27	720.200	6058.400	1.3359E+01	(2009,193,2300)
30, 28	720.200	6058.500	1.1350E+01	(2009,115,2300)
30, 29	720.200	6058.600	1.1633E+01	(2009,287,2300)
30, 30	720.200	6058.700	9.0386E+00	(2009,336,2300)
30, 31	720.200	6058.800	8.7661E+00	(2009,166,2300)
30, 32	720.200	6058.900	8.2038E+00	(2009,166,2300)
30, 33	720.200	6059.000	8.0274E+00	(2009,166,2300)
30, 34	720.200	6059.100	8.0022E+00	(2009,166,2300)
30, 35	720.200	6059.200	8.3330E+00	(2009,064,2300)
30, 36	720.200	6059.300	8.3200E+00	(2009,064,2300)
30, 37	720.200	6059.400	7.6199E+00	(2009,064,2300)
30, 38	720.200	6059.500	6.4879E+00	(2009,064,2300)
30, 39	720.200	6059.600	5.7347E+00	(2009,013,2300)
30, 40	720.200	6059.700	5.2302E+00	(2009,013,2300)
30, 41	720.200	6059.800	4.7897E+00	(2009,013,2300)

30, 42	720.200	6059.900	4.3788E+00	(2009,013,2300)
30, 43	720.200	6060.000	3.9955E+00	(2009,013,2300)
30, 44	720.200	6060.100	3.6285E+00	(2009,013,2300)
30, 45	720.200	6060.200	3.2831E+00	(2009,013,2300)
30, 46	720.200	6060.300	2.9578E+00	(2009,013,2300)
30, 47	720.200	6060.400	2.6608E+00	(2009,013,2300)
30, 48	720.200	6060.500	2.3899E+00	(2009,013,2300)
30, 49	720.200	6060.600	2.1511E+00	(2009,013,2300)
30, 50	720.200	6060.700	1.9371E+00	(2009,013,2300)
30, 51	720.200	6060.800	1.7491E+00	(2009,013,2300)
31, 1	720.300	6055.800	8.2381E-01	(2009,161,2300)
31, 2	720.300	6055.900	8.7198E-01	(2009,161,2300)
31, 3	720.300	6056.000	9.2204E-01	(2009,161,2300)
31, 4	720.300	6056.100	9.7493E-01	(2009,161,2300)
31, 5	720.300	6056.200	1.0349E+00	(2009,118,2300)
31, 6	720.300	6056.300	1.1309E+00	(2009,118,2300)
31, 7	720.300	6056.400	1.2288E+00	(2009,118,2300)
31, 8	720.300	6056.500	1.3277E+00	(2009,118,2300)
31, 9	720.300	6056.600	1.4263E+00	(2009,118,2300)
31, 10	720.300	6056.700	1.5206E+00	(2009,118,2300)
31, 11	720.300	6056.800	1.6116E+00	(2009,118,2300)
31, 12	720.300	6056.900	1.6974E+00	(2009,118,2300)
31, 13	720.300	6057.000	1.8645E+00	(2009,172,2300)
31, 14	720.300	6057.100	2.0873E+00	(2009,172,2300)
31, 15	720.300	6057.200	2.3283E+00	(2009,172,2300)
31, 16	720.300	6057.300	2.5748E+00	(2009,172,2300)
31, 17	720.300	6057.400	2.9248E+00	(2009,200,2300)
31, 18	720.300	6057.500	3.3106E+00	(2009,200,2300)
31, 19	720.300	6057.600	3.5557E+00	(2009,200,2300)
31, 20	720.300	6057.700	3.6211E+00	(2009,200,2300)
31, 21	720.300	6057.800	4.5974E+00	(2009,178,2300)
31, 22	720.300	6057.900	5.4377E+00	(2009,178,2300)
31, 23	720.300	6058.000	5.5312E+00	(2009,198,2300)
31, 24	720.300	6058.100	7.7041E+00	(2009,105,2300)
31, 25	720.300	6058.200	9.1501E+00	(2009,134,2300)
31, 26	720.300	6058.300	1.0896E+01	(2009,193,2300)
31, 27	720.300	6058.400	9.8882E+00	(2009,193,2300)
31, 28	720.300	6058.500	8.2749E+00	(2009,115,2300)
31, 29	720.300	6058.600	8.7421E+00	(2009,115,2300)
31, 30	720.300	6058.700	8.8326E+00	(2009,287,2300)
31, 31	720.300	6058.800	6.6064E+00	(2009,336,2300)
31, 32	720.300	6058.900	7.0092E+00	(2009,166,2300)
31, 33	720.300	6059.000	7.0592E+00	(2009,166,2300)
31, 34	720.300	6059.100	6.7892E+00	(2009,166,2300)
31, 35	720.300	6059.200	6.5554E+00	(2009,064,2300)
31, 36	720.300	6059.300	6.7337E+00	(2009,064,2300)
31, 37	720.300	6059.400	6.5901E+00	(2009,064,2300)
31, 38	720.300	6059.500	6.0967E+00	(2009,064,2300)
31, 39	720.300	6059.600	5.5559E+00	(2009,013,2300)
31, 40	720.300	6059.700	5.4457E+00	(2009,013,2300)
31, 41	720.300	6059.800	5.2442E+00	(2009,013,2300)
31, 42	720.300	6059.900	4.9758E+00	(2009,013,2300)
31, 43	720.300	6060.000	4.6787E+00	(2009,013,2300)
31, 44	720.300	6060.100	4.3680E+00	(2009,013,2300)
31, 45	720.300	6060.200	4.0515E+00	(2009,013,2300)
31, 46	720.300	6060.300	3.7370E+00	(2009,013,2300)
31, 47	720.300	6060.400	3.4305E+00	(2009,013,2300)
31, 48	720.300	6060.500	3.1329E+00	(2009,013,2300)
31, 49	720.300	6060.600	2.8526E+00	(2009,013,2300)
31, 50	720.300	6060.700	2.5874E+00	(2009,013,2300)

31, 51	720.300	6060.800	2.3439E+00	(2009,013,2300)
32, 1	720.400	6055.800	7.9273E-01	(2009,161,2300)
32, 2	720.400	6055.900	8.2495E-01	(2009,161,2300)
32, 3	720.400	6056.000	8.5641E-01	(2009,161,2300)
32, 4	720.400	6056.100	8.8664E-01	(2009,161,2300)
32, 5	720.400	6056.200	9.1458E-01	(2009,161,2300)
32, 6	720.400	6056.300	9.7730E-01	(2009,118,2300)
32, 7	720.400	6056.400	1.0676E+00	(2009,172,2300)
32, 8	720.400	6056.500	1.1758E+00	(2009,172,2300)
32, 9	720.400	6056.600	1.2926E+00	(2009,172,2300)
32, 10	720.400	6056.700	1.4173E+00	(2009,172,2300)
32, 11	720.400	6056.800	1.5492E+00	(2009,172,2300)
32, 12	720.400	6056.900	1.6835E+00	(2009,172,2300)
32, 13	720.400	6057.000	1.8194E+00	(2009,172,2300)
32, 14	720.400	6057.100	2.0027E+00	(2009,200,2300)
32, 15	720.400	6057.200	2.2762E+00	(2009,200,2300)
32, 16	720.400	6057.300	2.5034E+00	(2009,200,2300)
32, 17	720.400	6057.400	2.6435E+00	(2009,200,2300)
32, 18	720.400	6057.500	2.6605E+00	(2009,200,2300)
32, 19	720.400	6057.600	2.8822E+00	(2009,178,2300)
32, 20	720.400	6057.700	3.4931E+00	(2009,178,2300)
32, 21	720.400	6057.800	3.9444E+00	(2009,178,2300)
32, 22	720.400	6057.900	3.9768E+00	(2009,178,2300)
32, 23	720.400	6058.000	4.2741E+00	(2009,105,2300)
32, 24	720.400	6058.100	6.2749E+00	(2009,105,2300)
32, 25	720.400	6058.200	7.0587E+00	(2009,134,2300)
32, 26	720.400	6058.300	8.4920E+00	(2009,193,2300)
32, 27	720.400	6058.400	8.1168E+00	(2009,193,2300)
32, 28	720.400	6058.500	6.3653E+00	(2009,182,2300)
32, 29	720.400	6058.600	8.0725E+00	(2009,115,2300)
32, 30	720.400	6058.700	6.3270E+00	(2009,268,2300)
32, 31	720.400	6058.800	6.8198E+00	(2009,287,2300)
32, 32	720.400	6058.900	5.2008E+00	(2009,336,2300)
32, 33	720.400	6059.000	5.6446E+00	(2009,166,2300)
32, 34	720.400	6059.100	5.7600E+00	(2009,166,2300)
32, 35	720.400	6059.200	5.6165E+00	(2009,166,2300)
32, 36	720.400	6059.300	5.5040E+00	(2009,064,2300)
32, 37	720.400	6059.400	5.5831E+00	(2009,064,2300)
32, 38	720.400	6059.500	5.4276E+00	(2009,064,2300)
32, 39	720.400	6059.600	5.0581E+00	(2009,064,2300)
32, 40	720.400	6059.700	4.5358E+00	(2009,064,2300)
32, 41	720.400	6059.800	4.1474E+00	(2009,057,2300)
32, 42	720.400	6059.900	4.3193E+00	(2009,013,2300)
32, 43	720.400	6060.000	4.3932E+00	(2009,013,2300)
32, 44	720.400	6060.100	4.3766E+00	(2009,013,2300)
32, 45	720.400	6060.200	4.2836E+00	(2009,013,2300)
32, 46	720.400	6060.300	4.1412E+00	(2009,013,2300)
32, 47	720.400	6060.400	3.9592E+00	(2009,013,2300)
32, 48	720.400	6060.500	3.7508E+00	(2009,013,2300)
32, 49	720.400	6060.600	3.5264E+00	(2009,013,2300)
32, 50	720.400	6060.700	3.2885E+00	(2009,013,2300)
32, 51	720.400	6060.800	3.0497E+00	(2009,013,2300)
33, 1	720.500	6055.800	7.2145E-01	(2009,204,2300)
33, 2	720.500	6055.900	7.6773E-01	(2009,204,2300)
33, 3	720.500	6056.000	8.1836E-01	(2009,172,2300)
33, 4	720.500	6056.100	8.8985E-01	(2009,172,2300)
33, 5	720.500	6056.200	9.6508E-01	(2009,172,2300)
33, 6	720.500	6056.300	1.0438E+00	(2009,172,2300)
33, 7	720.500	6056.400	1.1239E+00	(2009,172,2300)
33, 8	720.500	6056.500	1.2051E+00	(2009,172,2300)

33, 9	720.500	6056.600	1.2858E+00	(2009,172,2300)
33, 10	720.500	6056.700	1.3638E+00	(2009,172,2300)
33, 11	720.500	6056.800	1.4433E+00	(2009,200,2300)
33, 12	720.500	6056.900	1.6397E+00	(2009,200,2300)
33, 13	720.500	6057.000	1.8303E+00	(2009,200,2300)
33, 14	720.500	6057.100	1.9834E+00	(2009,200,2300)
33, 15	720.500	6057.200	2.0796E+00	(2009,200,2300)
33, 16	720.500	6057.300	2.0845E+00	(2009,200,2300)
33, 17	720.500	6057.400	1.9878E+00	(2009,178,2300)
33, 18	720.500	6057.500	2.3901E+00	(2009,178,2300)
33, 19	720.500	6057.600	2.7858E+00	(2009,178,2300)
33, 20	720.500	6057.700	3.0671E+00	(2009,178,2300)
33, 21	720.500	6057.800	3.1062E+00	(2009,178,2300)
33, 22	720.500	6057.900	3.2221E+00	(2009,238,2300)
33, 23	720.500	6058.000	4.0693E+00	(2009,105,2300)
33, 24	720.500	6058.100	5.2204E+00	(2009,105,2300)
33, 25	720.500	6058.200	5.7274E+00	(2009,134,2300)
33, 26	720.500	6058.300	7.1962E+00	(2009,193,2300)
33, 27	720.500	6058.400	7.3779E+00	(2009,193,2300)
33, 28	720.500	6058.500	5.9644E+00	(2009,182,2300)
33, 29	720.500	6058.600	6.7567E+00	(2009,115,2300)
33, 30	720.500	6058.700	6.8475E+00	(2009,115,2300)
33, 31	720.500	6058.800	4.8466E+00	(2009,287,2300)
33, 32	720.500	6058.900	5.4900E+00	(2009,287,2300)
33, 33	720.500	6059.000	4.2463E+00	(2009,336,2300)
33, 34	720.500	6059.100	4.5305E+00	(2009,166,2300)
33, 35	720.500	6059.200	4.6644E+00	(2009,166,2300)
33, 36	720.500	6059.300	4.6206E+00	(2009,166,2300)
33, 37	720.500	6059.400	4.6623E+00	(2009,064,2300)
33, 38	720.500	6059.500	4.6994E+00	(2009,064,2300)
33, 39	720.500	6059.600	4.5728E+00	(2009,064,2300)
33, 40	720.500	6059.700	4.2909E+00	(2009,064,2300)
33, 41	720.500	6059.800	3.9086E+00	(2009,064,2300)
33, 42	720.500	6059.900	3.4717E+00	(2009,064,2300)
33, 43	720.500	6060.000	3.5202E+00	(2009,057,2300)
33, 44	720.500	6060.100	3.4812E+00	(2009,057,2300)
33, 45	720.500	6060.200	3.4155E+00	(2009,013,2300)
33, 46	720.500	6060.300	3.5686E+00	(2009,013,2300)
33, 47	720.500	6060.400	3.6456E+00	(2009,013,2300)
33, 48	720.500	6060.500	3.6645E+00	(2009,013,2300)
33, 49	720.500	6060.600	3.6291E+00	(2009,013,2300)
33, 50	720.500	6060.700	3.5479E+00	(2009,013,2300)
33, 51	720.500	6060.800	3.4324E+00	(2009,013,2300)
34, 1	720.600	6055.800	7.4636E-01	(2009,172,2300)
34, 2	720.600	6055.900	7.9962E-01	(2009,172,2300)
34, 3	720.600	6056.000	8.5461E-01	(2009,172,2300)
34, 4	720.600	6056.100	9.1068E-01	(2009,172,2300)
34, 5	720.600	6056.200	9.6610E-01	(2009,172,2300)
34, 6	720.600	6056.300	1.0201E+00	(2009,172,2300)
34, 7	720.600	6056.400	1.0702E+00	(2009,172,2300)
34, 8	720.600	6056.500	1.1151E+00	(2009,172,2300)
34, 9	720.600	6056.600	1.2258E+00	(2009,200,2300)
34, 10	720.600	6056.700	1.3718E+00	(2009,200,2300)
34, 11	720.600	6056.800	1.5082E+00	(2009,200,2300)
34, 12	720.600	6056.900	1.6177E+00	(2009,200,2300)
34, 13	720.600	6057.000	1.6868E+00	(2009,200,2300)
34, 14	720.600	6057.100	1.6905E+00	(2009,200,2300)
34, 15	720.600	6057.200	1.6182E+00	(2009,200,2300)
34, 16	720.600	6057.300	1.7366E+00	(2009,178,2300)
34, 17	720.600	6057.400	2.0148E+00	(2009,178,2300)

34, 18	720.600	6057.500	2.2714E+00	(2009,178,2300)
34, 19	720.600	6057.600	2.4636E+00	(2009,178,2300)
34, 20	720.600	6057.700	2.5099E+00	(2009,178,2300)
34, 21	720.600	6057.800	2.4979E+00	(2009,201,2300)
34, 22	720.600	6057.900	2.7322E+00	(2009,201,2300)
34, 23	720.600	6058.000	3.8206E+00	(2009,105,2300)
34, 24	720.600	6058.100	4.4074E+00	(2009,105,2300)
34, 25	720.600	6058.200	4.8486E+00	(2009,134,2300)
34, 26	720.600	6058.300	6.3103E+00	(2009,193,2300)
34, 27	720.600	6058.400	6.9309E+00	(2009,193,2300)
34, 28	720.600	6058.500	5.7502E+00	(2009,182,2300)
34, 29	720.600	6058.600	5.5372E+00	(2009,115,2300)
34, 30	720.600	6058.700	6.6547E+00	(2009,115,2300)
34, 31	720.600	6058.800	4.9126E+00	(2009,115,2300)
34, 32	720.600	6058.900	4.2404E+00	(2009,287,2300)
34, 33	720.600	6059.000	4.5360E+00	(2009,287,2300)
34, 34	720.600	6059.100	3.5815E+00	(2009,336,2300)
34, 35	720.600	6059.200	3.6669E+00	(2009,166,2300)
34, 36	720.600	6059.300	3.8031E+00	(2009,166,2300)
34, 37	720.600	6059.400	3.8237E+00	(2009,166,2300)
34, 38	720.600	6059.500	3.9751E+00	(2009,064,2300)
34, 39	720.600	6059.600	4.0061E+00	(2009,064,2300)
34, 40	720.600	6059.700	3.9068E+00	(2009,064,2300)
34, 41	720.600	6059.800	3.6965E+00	(2009,064,2300)
34, 42	720.600	6059.900	3.4081E+00	(2009,064,2300)
34, 43	720.600	6060.000	3.0778E+00	(2009,064,2300)
34, 44	720.600	6060.100	2.8418E+00	(2009,057,2300)
34, 45	720.600	6060.200	2.9491E+00	(2009,057,2300)
34, 46	720.600	6060.300	2.9709E+00	(2009,057,2300)
34, 47	720.600	6060.400	2.9166E+00	(2009,057,2300)
34, 48	720.600	6060.500	2.8032E+00	(2009,057,2300)
34, 49	720.600	6060.600	2.9273E+00	(2009,013,2300)
34, 50	720.600	6060.700	3.0521E+00	(2009,013,2300)
34, 51	720.600	6060.800	3.1279E+00	(2009,013,2300)
35, 1	720.700	6055.800	7.4855E-01	(2009,172,2300)
35, 2	720.700	6055.900	7.8707E-01	(2009,172,2300)
35, 3	720.700	6056.000	8.2436E-01	(2009,172,2300)
35, 4	720.700	6056.100	8.5980E-01	(2009,172,2300)
35, 5	720.700	6056.200	8.9145E-01	(2009,172,2300)
35, 6	720.700	6056.300	9.4593E-01	(2009,200,2300)
35, 7	720.700	6056.400	1.0590E+00	(2009,200,2300)
35, 8	720.700	6056.500	1.1709E+00	(2009,200,2300)
35, 9	720.700	6056.600	1.2720E+00	(2009,200,2300)
35, 10	720.700	6056.700	1.3527E+00	(2009,200,2300)
35, 11	720.700	6056.800	1.4028E+00	(2009,200,2300)
35, 12	720.700	6056.900	1.4068E+00	(2009,200,2300)
35, 13	720.700	6057.000	1.3575E+00	(2009,200,2300)
35, 14	720.700	6057.100	1.3258E+00	(2009,178,2300)
35, 15	720.700	6057.200	1.5207E+00	(2009,178,2300)
35, 16	720.700	6057.300	1.7089E+00	(2009,178,2300)
35, 17	720.700	6057.400	1.8871E+00	(2009,178,2300)
35, 18	720.700	6057.500	2.0306E+00	(2009,178,2300)
35, 19	720.700	6057.600	2.0828E+00	(2009,178,2300)
35, 20	720.700	6057.700	2.0017E+00	(2009,201,2300)
35, 21	720.700	6057.800	2.3062E+00	(2009,201,2300)
35, 22	720.700	6057.900	2.5557E+00	(2009,105,2300)
35, 23	720.700	6058.000	3.5300E+00	(2009,105,2300)
35, 24	720.700	6058.100	3.7805E+00	(2009,105,2300)
35, 25	720.700	6058.200	4.2712E+00	(2009,134,2300)
35, 26	720.700	6058.300	5.6339E+00	(2009,134,2300)

35, 27	720.700	6058.400	6.5227E+00	(2009,193,2300)
35, 28	720.700	6058.500	5.5628E+00	(2009,182,2300)
35, 29	720.700	6058.600	4.5185E+00	(2009,115,2300)
35, 30	720.700	6058.700	5.9137E+00	(2009,115,2300)
35, 31	720.700	6058.800	5.5350E+00	(2009,115,2300)
35, 32	720.700	6058.900	3.3355E+00	(2009,073,2300)
35, 33	720.700	6059.000	3.7474E+00	(2009,287,2300)
35, 34	720.700	6059.100	3.8445E+00	(2009,287,2300)
35, 35	720.700	6059.200	3.0753E+00	(2009,336,2300)
35, 36	720.700	6059.300	3.0080E+00	(2009,166,2300)
35, 37	720.700	6059.400	3.1280E+00	(2009,166,2300)
35, 38	720.700	6059.500	3.2805E+00	(2009,064,2300)
35, 39	720.700	6059.600	3.4184E+00	(2009,064,2300)
35, 40	720.700	6059.700	3.4485E+00	(2009,064,2300)
35, 41	720.700	6059.800	3.3755E+00	(2009,064,2300)
35, 42	720.700	6059.900	3.2177E+00	(2009,064,2300)
35, 43	720.700	6060.000	2.9978E+00	(2009,064,2300)
35, 44	720.700	6060.100	2.7430E+00	(2009,064,2300)
35, 45	720.700	6060.200	2.4732E+00	(2009,064,2300)
35, 46	720.700	6060.300	2.3505E+00	(2009,057,2300)
35, 47	720.700	6060.400	2.4631E+00	(2009,057,2300)
35, 48	720.700	6060.500	2.5168E+00	(2009,057,2300)
35, 49	720.700	6060.600	2.5135E+00	(2009,057,2300)
35, 50	720.700	6060.700	2.4634E+00	(2009,057,2300)
35, 51	720.700	6060.800	2.3809E+00	(2009,057,2300)
36, 1	720.800	6055.800	7.0298E-01	(2009,172,2300)
36, 2	720.800	6055.900	7.2537E-01	(2009,172,2300)
36, 3	720.800	6056.000	7.4482E-01	(2009,172,2300)
36, 4	720.800	6056.100	8.3214E-01	(2009,200,2300)
36, 5	720.800	6056.200	9.2291E-01	(2009,200,2300)
36, 6	720.800	6056.300	1.0115E+00	(2009,200,2300)
36, 7	720.800	6056.400	1.0905E+00	(2009,200,2300)
36, 8	720.800	6056.500	1.1538E+00	(2009,200,2300)
36, 9	720.800	6056.600	1.1919E+00	(2009,200,2300)
36, 10	720.800	6056.700	1.1962E+00	(2009,200,2300)
36, 11	720.800	6056.800	1.1613E+00	(2009,200,2300)
36, 12	720.800	6056.900	1.0828E+00	(2009,200,2300)
36, 13	720.800	6057.000	1.1954E+00	(2009,178,2300)
36, 14	720.800	6057.100	1.3336E+00	(2009,178,2300)
36, 15	720.800	6057.200	1.4670E+00	(2009,178,2300)
36, 16	720.800	6057.300	1.5935E+00	(2009,178,2300)
36, 17	720.800	6057.400	1.6993E+00	(2009,178,2300)
36, 18	720.800	6057.500	1.7570E+00	(2009,178,2300)
36, 19	720.800	6057.600	1.7121E+00	(2009,178,2300)
36, 20	720.800	6057.700	1.9324E+00	(2009,201,2300)
36, 21	720.800	6057.800	2.0481E+00	(2009,201,2300)
36, 22	720.800	6057.900	2.5563E+00	(2009,105,2300)
36, 23	720.800	6058.000	3.2077E+00	(2009,105,2300)
36, 24	720.800	6058.100	3.2186E+00	(2009,105,2300)
36, 25	720.800	6058.200	3.8357E+00	(2009,134,2300)
36, 26	720.800	6058.300	5.1614E+00	(2009,134,2300)
36, 27	720.800	6058.400	6.1412E+00	(2009,193,2300)
36, 28	720.800	6058.500	5.3660E+00	(2009,182,2300)
36, 29	720.800	6058.600	3.8705E+00	(2009,182,2300)
36, 30	720.800	6058.700	5.0515E+00	(2009,115,2300)
36, 31	720.800	6058.800	5.5625E+00	(2009,115,2300)
36, 32	720.800	6058.900	4.0892E+00	(2009,115,2300)
36, 33	720.800	6059.000	2.7584E+00	(2009,287,2300)
36, 34	720.800	6059.100	3.3042E+00	(2009,287,2300)
36, 35	720.800	6059.200	3.3119E+00	(2009,287,2300)

36, 36	720.800	6059.300	2.7089E+00	(2009,287,2300)
36, 37	720.800	6059.400	2.5037E+00	(2009,166,2300)
36, 38	720.800	6059.500	2.6464E+00	(2009,064,2300)
36, 39	720.800	6059.600	2.8501E+00	(2009,064,2300)
36, 40	720.800	6059.700	2.9677E+00	(2009,064,2300)
36, 41	720.800	6059.800	2.9960E+00	(2009,064,2300)
36, 42	720.800	6059.900	2.9443E+00	(2009,064,2300)
36, 43	720.800	6060.000	2.8238E+00	(2009,064,2300)
36, 44	720.800	6060.100	2.6557E+00	(2009,064,2300)
36, 45	720.800	6060.200	2.4569E+00	(2009,064,2300)
36, 46	720.800	6060.300	2.2441E+00	(2009,064,2300)
36, 47	720.800	6060.400	2.0284E+00	(2009,064,2300)
36, 48	720.800	6060.500	1.9606E+00	(2009,057,2300)
36, 49	720.800	6060.600	2.0661E+00	(2009,057,2300)
36, 50	720.800	6060.700	2.1301E+00	(2009,057,2300)
36, 51	720.800	6060.800	2.1546E+00	(2009,057,2300)
37, 1	720.900	6055.800	6.6288E-01	(2009,200,2300)
37, 2	720.900	6055.900	7.3532E-01	(2009,200,2300)
37, 3	720.900	6056.000	8.0891E-01	(2009,200,2300)
37, 4	720.900	6056.100	8.7987E-01	(2009,200,2300)
37, 5	720.900	6056.200	9.4378E-01	(2009,200,2300)
37, 6	720.900	6056.300	9.9527E-01	(2009,200,2300)
37, 7	720.900	6056.400	1.0270E+00	(2009,200,2300)
37, 8	720.900	6056.500	1.0332E+00	(2009,200,2300)
37, 9	720.900	6056.600	1.0092E+00	(2009,200,2300)
37, 10	720.900	6056.700	9.5127E-01	(2009,200,2300)
37, 11	720.900	6056.800	9.6923E-01	(2009,178,2300)
37, 12	720.900	6056.900	1.0765E+00	(2009,178,2300)
37, 13	720.900	6057.000	1.1757E+00	(2009,178,2300)
37, 14	720.900	6057.100	1.2693E+00	(2009,178,2300)
37, 15	720.900	6057.200	1.3601E+00	(2009,178,2300)
37, 16	720.900	6057.300	1.4463E+00	(2009,178,2300)
37, 17	720.900	6057.400	1.5019E+00	(2009,178,2300)
37, 18	720.900	6057.500	1.4876E+00	(2009,178,2300)
37, 19	720.900	6057.600	1.6153E+00	(2009,201,2300)
37, 20	720.900	6057.700	1.7832E+00	(2009,201,2300)
37, 21	720.900	6057.800	1.7601E+00	(2009,201,2300)
37, 22	720.900	6057.900	2.4943E+00	(2009,105,2300)
37, 23	720.900	6058.000	2.9112E+00	(2009,105,2300)
37, 24	720.900	6058.100	2.7832E+00	(2009,105,2300)
37, 25	720.900	6058.200	3.5102E+00	(2009,134,2300)
37, 26	720.900	6058.300	4.7633E+00	(2009,134,2300)
37, 27	720.900	6058.400	5.7910E+00	(2009,193,2300)
37, 28	720.900	6058.500	5.1623E+00	(2009,182,2300)
37, 29	720.900	6058.600	3.8807E+00	(2009,182,2300)
37, 30	720.900	6058.700	4.2305E+00	(2009,115,2300)
37, 31	720.900	6058.800	5.1683E+00	(2009,115,2300)
37, 32	720.900	6058.900	4.5914E+00	(2009,115,2300)
37, 33	720.900	6059.000	2.9569E+00	(2009,073,2300)
37, 34	720.900	6059.100	2.5350E+00	(2009,287,2300)
37, 35	720.900	6059.200	2.9380E+00	(2009,287,2300)
37, 36	720.900	6059.300	2.8938E+00	(2009,287,2300)
37, 37	720.900	6059.400	2.4140E+00	(2009,287,2300)
37, 38	720.900	6059.500	2.1612E+00	(2009,336,2300)
37, 39	720.900	6059.600	2.3250E+00	(2009,064,2300)
37, 40	720.900	6059.700	2.4948E+00	(2009,064,2300)
37, 41	720.900	6059.800	2.5950E+00	(2009,064,2300)
37, 42	720.900	6059.900	2.6230E+00	(2009,064,2300)
37, 43	720.900	6060.000	2.5864E+00	(2009,064,2300)
37, 44	720.900	6060.100	2.4965E+00	(2009,064,2300)

37, 45	720.900	6060.200	2.3663E+00	(2009,064,2300)
37, 46	720.900	6060.300	2.2109E+00	(2009,064,2300)
37, 47	720.900	6060.400	2.0410E+00	(2009,064,2300)
37, 48	720.900	6060.500	1.8667E+00	(2009,064,2300)
37, 49	720.900	6060.600	1.6953E+00	(2009,064,2300)
37, 50	720.900	6060.700	1.6545E+00	(2009,057,2300)
37, 51	720.900	6060.800	1.7451E+00	(2009,057,2300)
38, 1	721.000	6055.800	7.1282E-01	(2009,200,2300)
38, 2	721.000	6055.900	7.7049E-01	(2009,200,2300)
38, 3	721.000	6056.000	8.2250E-01	(2009,200,2300)
38, 4	721.000	6056.100	8.6455E-01	(2009,200,2300)
38, 5	721.000	6056.200	8.9175E-01	(2009,200,2300)
38, 6	721.000	6056.300	8.9964E-01	(2009,200,2300)
38, 7	721.000	6056.400	8.8398E-01	(2009,200,2300)
38, 8	721.000	6056.500	8.4219E-01	(2009,200,2300)
38, 9	721.000	6056.600	8.0893E-01	(2009,154,2300)
38, 10	721.000	6056.700	8.8837E-01	(2009,178,2300)
38, 11	721.000	6056.800	9.6759E-01	(2009,178,2300)
38, 12	721.000	6056.900	1.0390E+00	(2009,178,2300)
38, 13	721.000	6057.000	1.1062E+00	(2009,178,2300)
38, 14	721.000	6057.100	1.1743E+00	(2009,178,2300)
38, 15	721.000	6057.200	1.2417E+00	(2009,178,2300)
38, 16	721.000	6057.300	1.2950E+00	(2009,178,2300)
38, 17	721.000	6057.400	1.3023E+00	(2009,178,2300)
38, 18	721.000	6057.500	1.3531E+00	(2009,201,2300)
38, 19	721.000	6057.600	1.5331E+00	(2009,201,2300)
38, 20	721.000	6057.700	1.5918E+00	(2009,201,2300)
38, 21	721.000	6057.800	1.7941E+00	(2009,105,2300)
38, 22	721.000	6057.900	2.3756E+00	(2009,105,2300)
38, 23	721.000	6058.000	2.6183E+00	(2009,105,2300)
38, 24	721.000	6058.100	2.4248E+00	(2009,105,2300)
38, 25	721.000	6058.200	3.3003E+00	(2009,134,2300)
38, 26	721.000	6058.300	4.4688E+00	(2009,134,2300)
38, 27	721.000	6058.400	5.4712E+00	(2009,193,2300)
38, 28	721.000	6058.500	5.0162E+00	(2009,193,2300)
38, 29	721.000	6058.600	3.8471E+00	(2009,182,2300)
38, 30	721.000	6058.700	3.4672E+00	(2009,115,2300)
38, 31	721.000	6058.800	4.5745E+00	(2009,115,2300)
38, 32	721.000	6058.900	4.7034E+00	(2009,115,2300)
38, 33	721.000	6059.000	3.4566E+00	(2009,115,2300)
38, 34	721.000	6059.100	2.4655E+00	(2009,073,2300)
38, 35	721.000	6059.200	2.3262E+00	(2009,287,2300)
38, 36	721.000	6059.300	2.6252E+00	(2009,287,2300)
38, 37	721.000	6059.400	2.5672E+00	(2009,287,2300)
38, 38	721.000	6059.500	2.1741E+00	(2009,287,2300)
38, 39	721.000	6059.600	1.9251E+00	(2009,336,2300)
38, 40	721.000	6059.700	2.0609E+00	(2009,064,2300)
38, 41	721.000	6059.800	2.2038E+00	(2009,064,2300)
38, 42	721.000	6059.900	2.2884E+00	(2009,064,2300)
38, 43	721.000	6060.000	2.3151E+00	(2009,064,2300)
38, 44	721.000	6060.100	2.2900E+00	(2009,064,2300)
38, 45	721.000	6060.200	2.2216E+00	(2009,064,2300)
38, 46	721.000	6060.300	2.1207E+00	(2009,064,2300)
38, 47	721.000	6060.400	1.9976E+00	(2009,064,2300)
38, 48	721.000	6060.500	1.8621E+00	(2009,064,2300)
38, 49	721.000	6060.600	1.7268E+00	(2009,166,2300)
38, 50	721.000	6060.700	1.5820E+00	(2009,166,2300)
38, 51	721.000	6060.800	1.4408E+00	(2009,064,2300)
39, 1	721.100	6055.800	7.2199E-01	(2009,200,2300)
39, 2	721.100	6055.900	7.5671E-01	(2009,200,2300)

39, 3	721.100	6056.000	7.8002E-01	(2009,200,2300)
39, 4	721.100	6056.100	7.8853E-01	(2009,200,2300)
39, 5	721.100	6056.200	7.7881E-01	(2009,200,2300)
39, 6	721.100	6056.300	7.4878E-01	(2009,200,2300)
39, 7	721.100	6056.400	6.9824E-01	(2009,200,2300)
39, 8	721.100	6056.500	7.4399E-01	(2009,178,2300)
39, 9	721.100	6056.600	8.1081E-01	(2009,178,2300)
39, 10	721.100	6056.700	8.6963E-01	(2009,178,2300)
39, 11	721.100	6056.800	9.2043E-01	(2009,178,2300)
39, 12	721.100	6056.900	9.6895E-01	(2009,178,2300)
39, 13	721.100	6057.000	1.0205E+00	(2009,178,2300)
39, 14	721.100	6057.100	1.0778E+00	(2009,178,2300)
39, 15	721.100	6057.200	1.1282E+00	(2009,178,2300)
39, 16	721.100	6057.300	1.1469E+00	(2009,178,2300)
39, 17	721.100	6057.400	1.1441E+00	(2009,201,2300)
39, 18	721.100	6057.500	1.3249E+00	(2009,238,2300)
39, 19	721.100	6057.600	1.4111E+00	(2009,201,2300)
39, 20	721.100	6057.700	1.3815E+00	(2009,201,2300)
39, 21	721.100	6057.800	1.8056E+00	(2009,105,2300)
39, 22	721.100	6057.900	2.2412E+00	(2009,105,2300)
39, 23	721.100	6058.000	2.3678E+00	(2009,105,2300)
39, 24	721.100	6058.100	2.1563E+00	(2009,105,2300)
39, 25	721.100	6058.200	3.1820E+00	(2009,134,2300)
39, 26	721.100	6058.300	4.2550E+00	(2009,134,2300)
39, 27	721.100	6058.400	5.1828E+00	(2009,193,2300)
39, 28	721.100	6058.500	4.8833E+00	(2009,193,2300)
39, 29	721.100	6058.600	3.7880E+00	(2009,182,2300)
39, 30	721.100	6058.700	2.8146E+00	(2009,062,2300)
39, 31	721.100	6058.800	3.9317E+00	(2009,115,2300)
39, 32	721.100	6058.900	4.5034E+00	(2009,115,2300)
39, 33	721.100	6059.000	3.8587E+00	(2009,115,2300)
39, 34	721.100	6059.100	2.6154E+00	(2009,073,2300)
39, 35	721.100	6059.200	2.0283E+00	(2009,073,2300)
39, 36	721.100	6059.300	2.1398E+00	(2009,287,2300)
39, 37	721.100	6059.400	2.3607E+00	(2009,287,2300)
39, 38	721.100	6059.500	2.2904E+00	(2009,287,2300)
39, 39	721.100	6059.600	1.9705E+00	(2009,287,2300)
39, 40	721.100	6059.700	1.7241E+00	(2009,336,2300)
39, 41	721.100	6059.800	1.8417E+00	(2009,064,2300)
39, 42	721.100	6059.900	1.9609E+00	(2009,064,2300)
39, 43	721.100	6060.000	2.0332E+00	(2009,064,2300)
39, 44	721.100	6060.100	2.0580E+00	(2009,064,2300)
39, 45	721.100	6060.200	2.0412E+00	(2009,064,2300)
39, 46	721.100	6060.300	1.9897E+00	(2009,064,2300)
39, 47	721.100	6060.400	1.9109E+00	(2009,064,2300)
39, 48	721.100	6060.500	1.8132E+00	(2009,064,2300)
39, 49	721.100	6060.600	1.7136E+00	(2009,166,2300)
39, 50	721.100	6060.700	1.6148E+00	(2009,166,2300)
39, 51	721.100	6060.800	1.4994E+00	(2009,166,2300)
40, 1	721.200	6055.800	6.8694E-01	(2009,200,2300)
40, 2	721.200	6055.900	6.9547E-01	(2009,200,2300)
40, 3	721.200	6056.000	6.8965E-01	(2009,200,2300)
40, 4	721.200	6056.100	6.6795E-01	(2009,200,2300)
40, 5	721.200	6056.200	6.2982E-01	(2009,200,2300)
40, 6	721.200	6056.300	6.2922E-01	(2009,178,2300)
40, 7	721.200	6056.400	6.8715E-01	(2009,178,2300)
40, 8	721.200	6056.500	7.3801E-01	(2009,178,2300)
40, 9	721.200	6056.600	7.8015E-01	(2009,178,2300)
40, 10	721.200	6056.700	8.1714E-01	(2009,178,2300)
40, 11	721.200	6056.800	8.5290E-01	(2009,178,2300)

40, 12	721.200	6056.900	8.9381E-01	(2009,178,2300)
40, 13	721.200	6057.000	9.4175E-01	(2009,178,2300)
40, 14	721.200	6057.100	9.8926E-01	(2009,178,2300)
40, 15	721.200	6057.200	1.0164E+00	(2009,178,2300)
40, 16	721.200	6057.300	9.9569E-01	(2009,178,2300)
40, 17	721.200	6057.400	1.1382E+00	(2009,238,2300)
40, 18	721.200	6057.500	1.2396E+00	(2009,201,2300)
40, 19	721.200	6057.600	1.2671E+00	(2009,201,2300)
40, 20	721.200	6057.700	1.3098E+00	(2009,105,2300)
40, 21	721.200	6057.800	1.7767E+00	(2009,105,2300)
40, 22	721.200	6057.900	2.0903E+00	(2009,105,2300)
40, 23	721.200	6058.000	2.1418E+00	(2009,105,2300)
40, 24	721.200	6058.100	2.0349E+00	(2009,134,2300)
40, 25	721.200	6058.200	3.1131E+00	(2009,134,2300)
40, 26	721.200	6058.300	4.0894E+00	(2009,134,2300)
40, 27	721.200	6058.400	4.9169E+00	(2009,193,2300)
40, 28	721.200	6058.500	4.7423E+00	(2009,193,2300)
40, 29	721.200	6058.600	3.7029E+00	(2009,182,2300)
40, 30	721.200	6058.700	2.6807E+00	(2009,182,2300)
40, 31	721.200	6058.800	3.2879E+00	(2009,115,2300)
40, 32	721.200	6058.900	4.1056E+00	(2009,115,2300)
40, 33	721.200	6059.000	4.0074E+00	(2009,115,2300)
40, 34	721.200	6059.100	2.9627E+00	(2009,115,2300)
40, 35	721.200	6059.200	2.2664E+00	(2009,073,2300)
40, 36	721.200	6059.300	1.7394E+00	(2009,222,2300)
40, 37	721.200	6059.400	1.9685E+00	(2009,287,2300)
40, 38	721.200	6059.500	2.1363E+00	(2009,287,2300)
40, 39	721.200	6059.600	2.0669E+00	(2009,287,2300)
40, 40	721.200	6059.700	1.7946E+00	(2009,287,2300)
40, 41	721.200	6059.800	1.5537E+00	(2009,336,2300)
40, 42	721.200	6059.900	1.6577E+00	(2009,064,2300)
40, 43	721.200	6060.000	1.7576E+00	(2009,064,2300)
40, 44	721.200	6060.100	1.8191E+00	(2009,064,2300)
40, 45	721.200	6060.200	1.8422E+00	(2009,064,2300)
40, 46	721.200	6060.300	1.8315E+00	(2009,064,2300)
40, 47	721.200	6060.400	1.7919E+00	(2009,064,2300)
40, 48	721.200	6060.500	1.7299E+00	(2009,064,2300)
40, 49	721.200	6060.600	1.6515E+00	(2009,064,2300)
40, 50	721.200	6060.700	1.5765E+00	(2009,166,2300)
40, 51	721.200	6060.800	1.5027E+00	(2009,166,2300)
41, 1	721.300	6055.800	6.1362E-01	(2009,200,2300)
41, 2	721.300	6055.900	5.9812E-01	(2009,200,2300)
41, 3	721.300	6056.000	5.6917E-01	(2009,200,2300)
41, 4	721.300	6056.100	5.3619E-01	(2009,178,2300)
41, 5	721.300	6056.200	5.8683E-01	(2009,178,2300)
41, 6	721.300	6056.300	6.3199E-01	(2009,178,2300)
41, 7	721.300	6056.400	6.6992E-01	(2009,178,2300)
41, 8	721.300	6056.500	7.0073E-01	(2009,178,2300)
41, 9	721.300	6056.600	7.2695E-01	(2009,178,2300)
41, 10	721.300	6056.700	7.5365E-01	(2009,178,2300)
41, 11	721.300	6056.800	7.8676E-01	(2009,178,2300)
41, 12	721.300	6056.900	8.2917E-01	(2009,178,2300)
41, 13	721.300	6057.000	8.7427E-01	(2009,178,2300)
41, 14	721.300	6057.100	9.0558E-01	(2009,178,2300)
41, 15	721.300	6057.200	9.0102E-01	(2009,178,2300)
41, 16	721.300	6057.300	9.8876E-01	(2009,238,2300)
41, 17	721.300	6057.400	1.0985E+00	(2009,238,2300)
41, 18	721.300	6057.500	1.1450E+00	(2009,201,2300)
41, 19	721.300	6057.600	1.1108E+00	(2009,201,2300)
41, 20	721.300	6057.700	1.3499E+00	(2009,105,2300)

41, 21	721.300	6057.800	1.7245E+00	(2009,105,2300)
41, 22	721.300	6057.900	1.9376E+00	(2009,105,2300)
41, 23	721.300	6058.000	1.9344E+00	(2009,105,2300)
41, 24	721.300	6058.100	2.0119E+00	(2009,134,2300)
41, 25	721.300	6058.200	3.0414E+00	(2009,134,2300)
41, 26	721.300	6058.300	3.9253E+00	(2009,134,2300)
41, 27	721.300	6058.400	4.6626E+00	(2009,193,2300)
41, 28	721.300	6058.500	4.5923E+00	(2009,193,2300)
41, 29	721.300	6058.600	3.5975E+00	(2009,182,2300)
41, 30	721.300	6058.700	2.6982E+00	(2009,182,2300)
41, 31	721.300	6058.800	2.6900E+00	(2009,115,2300)
41, 32	721.300	6058.900	3.6249E+00	(2009,115,2300)
41, 33	721.300	6059.000	3.9346E+00	(2009,115,2300)
41, 34	721.300	6059.100	3.3011E+00	(2009,115,2300)
41, 35	721.300	6059.200	2.3197E+00	(2009,073,2300)
41, 36	721.300	6059.300	1.9277E+00	(2009,073,2300)
41, 37	721.300	6059.400	1.6428E+00	(2009,338,2300)
41, 38	721.300	6059.500	1.8129E+00	(2009,287,2300)
41, 39	721.300	6059.600	1.9380E+00	(2009,287,2300)
41, 40	721.300	6059.700	1.8709E+00	(2009,287,2300)
41, 41	721.300	6059.800	1.6453E+00	(2009,287,2300)
41, 42	721.300	6059.900	1.4099E+00	(2009,336,2300)
41, 43	721.300	6060.000	1.5032E+00	(2009,064,2300)
41, 44	721.300	6060.100	1.5875E+00	(2009,064,2300)
41, 45	721.300	6060.200	1.6396E+00	(2009,064,2300)
41, 46	721.300	6060.300	1.6603E+00	(2009,064,2300)
41, 47	721.300	6060.400	1.6535E+00	(2009,064,2300)
41, 48	721.300	6060.500	1.6229E+00	(2009,064,2300)
41, 49	721.300	6060.600	1.5735E+00	(2009,064,2300)
41, 50	721.300	6060.700	1.5099E+00	(2009,064,2300)
41, 51	721.300	6060.800	1.4443E+00	(2009,166,2300)
42, 1	721.400	6055.800	5.1529E-01	(2009,200,2300)
42, 2	721.400	6055.900	4.8239E-01	(2009,200,2300)
42, 3	721.400	6056.000	5.0406E-01	(2009,178,2300)
42, 4	721.400	6056.100	5.4469E-01	(2009,178,2300)
42, 5	721.400	6056.200	5.7957E-01	(2009,178,2300)
42, 6	721.400	6056.300	6.0756E-01	(2009,178,2300)
42, 7	721.400	6056.400	6.2918E-01	(2009,178,2300)
42, 8	721.400	6056.500	6.4801E-01	(2009,178,2300)
42, 9	721.400	6056.600	6.6865E-01	(2009,178,2300)
42, 10	721.400	6056.700	6.9641E-01	(2009,178,2300)
42, 11	721.400	6056.800	7.3385E-01	(2009,178,2300)
42, 12	721.400	6056.900	7.7645E-01	(2009,178,2300)
42, 13	721.400	6057.000	8.1127E-01	(2009,178,2300)
42, 14	721.400	6057.100	8.1860E-01	(2009,178,2300)
42, 15	721.400	6057.200	8.5703E-01	(2009,238,2300)
42, 16	721.400	6057.300	9.8325E-01	(2009,238,2300)
42, 17	721.400	6057.400	1.0278E+00	(2009,201,2300)
42, 18	721.400	6057.500	1.0378E+00	(2009,201,2300)
42, 19	721.400	6057.600	1.0003E+00	(2009,105,2300)
42, 20	721.400	6057.700	1.3706E+00	(2009,105,2300)
42, 21	721.400	6057.800	1.6676E+00	(2009,105,2300)
42, 22	721.400	6057.900	1.8029E+00	(2009,105,2300)
42, 23	721.400	6058.000	1.7600E+00	(2009,105,2300)
42, 24	721.400	6058.100	1.9975E+00	(2009,134,2300)
42, 25	721.400	6058.200	2.9693E+00	(2009,134,2300)
42, 26	721.400	6058.300	3.7678E+00	(2009,134,2300)
42, 27	721.400	6058.400	4.4193E+00	(2009,193,2300)
42, 28	721.400	6058.500	4.4377E+00	(2009,193,2300)
42, 29	721.400	6058.600	3.4791E+00	(2009,182,2300)

42, 30	721.400	6058.700	2.6856E+00	(2009,182,2300)
42, 31	721.400	6058.800	2.3849E+00	(2009,062,2300)
42, 32	721.400	6058.900	3.1089E+00	(2009,115,2300)
42, 33	721.400	6059.000	3.6854E+00	(2009,115,2300)
42, 34	721.400	6059.100	3.4637E+00	(2009,115,2300)
42, 35	721.400	6059.200	2.5826E+00	(2009,115,2300)
42, 36	721.400	6059.300	2.0702E+00	(2009,073,2300)
42, 37	721.400	6059.400	1.6317E+00	(2009,073,2300)
42, 38	721.400	6059.500	1.5307E+00	(2009,338,2300)
42, 39	721.400	6059.600	1.6714E+00	(2009,287,2300)
42, 40	721.400	6059.700	1.7704E+00	(2009,287,2300)
42, 41	721.400	6059.800	1.7068E+00	(2009,287,2300)
42, 42	721.400	6059.900	1.5119E+00	(2009,287,2300)
42, 43	721.400	6060.000	1.2821E+00	(2009,336,2300)
42, 44	721.400	6060.100	1.3711E+00	(2009,064,2300)
42, 45	721.400	6060.200	1.4423E+00	(2009,064,2300)
42, 46	721.400	6060.300	1.4869E+00	(2009,064,2300)
42, 47	721.400	6060.400	1.5055E+00	(2009,064,2300)
42, 48	721.400	6060.500	1.5009E+00	(2009,064,2300)
42, 49	721.400	6060.600	1.4765E+00	(2009,064,2300)
42, 50	721.400	6060.700	1.4366E+00	(2009,064,2300)
42, 51	721.400	6060.800	1.3846E+00	(2009,064,2300)
43, 1	721.500	6055.800	4.3547E-01	(2009,178,2300)
43, 2	721.500	6055.900	4.7199E-01	(2009,178,2300)
43, 3	721.500	6056.000	5.0405E-01	(2009,178,2300)
43, 4	721.500	6056.100	5.3045E-01	(2009,178,2300)
43, 5	721.500	6056.200	5.5063E-01	(2009,178,2300)
43, 6	721.500	6056.300	5.6599E-01	(2009,178,2300)
43, 7	721.500	6056.400	5.7933E-01	(2009,178,2300)
43, 8	721.500	6056.500	5.9548E-01	(2009,178,2300)
43, 9	721.500	6056.600	6.1929E-01	(2009,178,2300)
43, 10	721.500	6056.700	6.5291E-01	(2009,178,2300)
43, 11	721.500	6056.800	6.9354E-01	(2009,178,2300)
43, 12	721.500	6056.900	7.2970E-01	(2009,178,2300)
43, 13	721.500	6057.000	7.4526E-01	(2009,178,2300)
43, 14	721.500	6057.100	7.4944E-01	(2009,201,2300)
43, 15	721.500	6057.200	8.6624E-01	(2009,238,2300)
43, 16	721.500	6057.300	9.3458E-01	(2009,238,2300)
43, 17	721.500	6057.400	9.5494E-01	(2009,201,2300)
43, 18	721.500	6057.500	9.2188E-01	(2009,201,2300)
43, 19	721.500	6057.600	1.0537E+00	(2009,105,2300)
43, 20	721.500	6057.700	1.3718E+00	(2009,105,2300)
43, 21	721.500	6057.800	1.5976E+00	(2009,105,2300)
43, 22	721.500	6057.900	1.6706E+00	(2009,105,2300)
43, 23	721.500	6058.000	1.5997E+00	(2009,105,2300)
43, 24	721.500	6058.100	1.9793E+00	(2009,134,2300)
43, 25	721.500	6058.200	2.8916E+00	(2009,134,2300)
43, 26	721.500	6058.300	3.6129E+00	(2009,134,2300)
43, 27	721.500	6058.400	4.1882E+00	(2009,193,2300)
43, 28	721.500	6058.500	4.2784E+00	(2009,193,2300)
43, 29	721.500	6058.600	3.3640E+00	(2009,193,2300)
43, 30	721.500	6058.700	2.6543E+00	(2009,182,2300)
43, 31	721.500	6058.800	2.1407E+00	(2009,062,2300)
43, 32	721.500	6058.900	2.6017E+00	(2009,115,2300)
43, 33	721.500	6059.000	3.3349E+00	(2009,115,2300)
43, 34	721.500	6059.100	3.4600E+00	(2009,115,2300)
43, 35	721.500	6059.200	2.8614E+00	(2009,115,2300)
43, 36	721.500	6059.300	2.0615E+00	(2009,073,2300)
43, 37	721.500	6059.400	1.8094E+00	(2009,073,2300)
43, 38	721.500	6059.500	1.4634E+00	(2009,338,2300)

43, 39	721.500	6059.600	1.3961E+00	(2009,338,2300)
43, 40	721.500	6059.700	1.5449E+00	(2009,287,2300)
43, 41	721.500	6059.800	1.6205E+00	(2009,287,2300)
43, 42	721.500	6059.900	1.5644E+00	(2009,287,2300)
43, 43	721.500	6060.000	1.3991E+00	(2009,287,2300)
43, 44	721.500	6060.100	1.1778E+00	(2009,287,2300)
43, 45	721.500	6060.200	1.2585E+00	(2009,064,2300)
43, 46	721.500	6060.300	1.3186E+00	(2009,064,2300)
43, 47	721.500	6060.400	1.3560E+00	(2009,064,2300)
43, 48	721.500	6060.500	1.3720E+00	(2009,064,2300)
43, 49	721.500	6060.600	1.3689E+00	(2009,064,2300)
43, 50	721.500	6060.700	1.3493E+00	(2009,064,2300)
43, 51	721.500	6060.800	1.3162E+00	(2009,064,2300)
44, 1	721.600	6055.800	4.4010E-01	(2009,178,2300)
44, 2	721.600	6055.900	4.6528E-01	(2009,178,2300)
44, 3	721.600	6056.000	4.8504E-01	(2009,178,2300)
44, 4	721.600	6056.100	4.9935E-01	(2009,178,2300)
44, 5	721.600	6056.200	5.0975E-01	(2009,178,2300)
44, 6	721.600	6056.300	5.1951E-01	(2009,178,2300)
44, 7	721.600	6056.400	5.3262E-01	(2009,178,2300)
44, 8	721.600	6056.500	5.5326E-01	(2009,178,2300)
44, 9	721.600	6056.600	5.8375E-01	(2009,178,2300)
44, 10	721.600	6056.700	6.2143E-01	(2009,178,2300)
44, 11	721.600	6056.800	6.5828E-01	(2009,178,2300)
44, 12	721.600	6056.900	6.7997E-01	(2009,178,2300)
44, 13	721.600	6057.000	6.7146E-01	(2009,178,2300)
44, 14	721.600	6057.100	7.6752E-01	(2009,238,2300)
44, 15	721.600	6057.200	8.4652E-01	(2009,238,2300)
44, 16	721.600	6057.300	8.7018E-01	(2009,201,2300)
44, 17	721.600	6057.400	8.7045E-01	(2009,201,2300)
44, 18	721.600	6057.500	8.0299E-01	(2009,201,2300)
44, 19	721.600	6057.600	1.0911E+00	(2009,105,2300)
44, 20	721.600	6057.700	1.3573E+00	(2009,105,2300)
44, 21	721.600	6057.800	1.5206E+00	(2009,105,2300)
44, 22	721.600	6057.900	1.5476E+00	(2009,105,2300)
44, 23	721.600	6058.000	1.4581E+00	(2009,105,2300)
44, 24	721.600	6058.100	1.9574E+00	(2009,134,2300)
44, 25	721.600	6058.200	2.8088E+00	(2009,134,2300)
44, 26	721.600	6058.300	3.4618E+00	(2009,134,2300)
44, 27	721.600	6058.400	3.9711E+00	(2009,193,2300)
44, 28	721.600	6058.500	4.1211E+00	(2009,193,2300)
44, 29	721.600	6058.600	3.3387E+00	(2009,193,2300)
44, 30	721.600	6058.700	2.6080E+00	(2009,182,2300)
44, 31	721.600	6058.800	2.0167E+00	(2009,182,2300)
44, 32	721.600	6058.900	2.2272E+00	(2009,062,2300)
44, 33	721.600	6059.000	2.9256E+00	(2009,115,2300)
44, 34	721.600	6059.100	3.3060E+00	(2009,115,2300)
44, 35	721.600	6059.200	3.0165E+00	(2009,115,2300)
44, 36	721.600	6059.300	2.2690E+00	(2009,115,2300)
44, 37	721.600	6059.400	1.8822E+00	(2009,073,2300)
44, 38	721.600	6059.500	1.5657E+00	(2009,073,2300)
44, 39	721.600	6059.600	1.3587E+00	(2009,023,2300)
44, 40	721.600	6059.700	1.2730E+00	(2009,287,2300)
44, 41	721.600	6059.800	1.4330E+00	(2009,287,2300)
44, 42	721.600	6059.900	1.4946E+00	(2009,287,2300)
44, 43	721.600	6060.000	1.4413E+00	(2009,287,2300)
44, 44	721.600	6060.100	1.2962E+00	(2009,287,2300)
44, 45	721.600	6060.200	1.1042E+00	(2009,287,2300)
44, 46	721.600	6060.300	1.1605E+00	(2009,064,2300)
44, 47	721.600	6060.400	1.2115E+00	(2009,064,2300)

44, 48	721.600	6060.500	1.2432E+00	(2009,064,2300)
44, 49	721.600	6060.600	1.2568E+00	(2009,064,2300)
44, 50	721.600	6060.700	1.2538E+00	(2009,064,2300)
44, 51	721.600	6060.800	1.2371E+00	(2009,064,2300)
45, 1	721.700	6055.800	4.2865E-01	(2009,178,2300)
45, 2	721.700	6055.900	4.4320E-01	(2009,178,2300)
45, 3	721.700	6056.000	4.5323E-01	(2009,178,2300)
45, 4	721.700	6056.100	4.6025E-01	(2009,178,2300)
45, 5	721.700	6056.200	4.6715E-01	(2009,178,2300)
45, 6	721.700	6056.300	4.7775E-01	(2009,178,2300)
45, 7	721.700	6056.400	4.9608E-01	(2009,178,2300)
45, 8	721.700	6056.500	5.2389E-01	(2009,178,2300)
45, 9	721.700	6056.600	5.5925E-01	(2009,178,2300)
45, 10	721.700	6056.700	5.9548E-01	(2009,178,2300)
45, 11	721.700	6056.800	6.2065E-01	(2009,178,2300)
45, 12	721.700	6056.900	6.2208E-01	(2009,178,2300)
45, 13	721.700	6057.000	6.7767E-01	(2009,238,2300)
45, 14	721.700	6057.100	7.6641E-01	(2009,238,2300)
45, 15	721.700	6057.200	8.0284E-01	(2009,238,2300)
45, 16	721.700	6057.300	8.0937E-01	(2009,201,2300)
45, 17	721.700	6057.400	7.7798E-01	(2009,201,2300)
45, 18	721.700	6057.500	8.4357E-01	(2009,105,2300)
45, 19	721.700	6057.600	1.1102E+00	(2009,105,2300)
45, 20	721.700	6057.700	1.3257E+00	(2009,105,2300)
45, 21	721.700	6057.800	1.4359E+00	(2009,105,2300)
45, 22	721.700	6057.900	1.4266E+00	(2009,105,2300)
45, 23	721.700	6058.000	1.3880E+00	(2009,242,2300)
45, 24	721.700	6058.100	1.9332E+00	(2009,134,2300)
45, 25	721.700	6058.200	2.7250E+00	(2009,134,2300)
45, 26	721.700	6058.300	3.3189E+00	(2009,134,2300)
45, 27	721.700	6058.400	3.7683E+00	(2009,193,2300)
45, 28	721.700	6058.500	3.9658E+00	(2009,193,2300)
45, 29	721.700	6058.600	3.3041E+00	(2009,193,2300)
45, 30	721.700	6058.700	2.5468E+00	(2009,182,2300)
45, 31	721.700	6058.800	2.0229E+00	(2009,182,2300)
45, 32	721.700	6058.900	2.0561E+00	(2009,062,2300)
45, 33	721.700	6059.000	2.4962E+00	(2009,115,2300)
45, 34	721.700	6059.100	3.0485E+00	(2009,115,2300)
45, 35	721.700	6059.200	3.0473E+00	(2009,115,2300)
45, 36	721.700	6059.300	2.5006E+00	(2009,115,2300)
45, 37	721.700	6059.400	1.8347E+00	(2009,073,2300)
45, 38	721.700	6059.500	1.6838E+00	(2009,073,2300)
45, 39	721.700	6059.600	1.3490E+00	(2009,073,2300)
45, 40	721.700	6059.700	1.2386E+00	(2009,023,2300)
45, 41	721.700	6059.800	1.1963E+00	(2009,287,2300)
45, 42	721.700	6059.900	1.3317E+00	(2009,287,2300)
45, 43	721.700	6060.000	1.3800E+00	(2009,287,2300)
45, 44	721.700	6060.100	1.3328E+00	(2009,287,2300)
45, 45	721.700	6060.200	1.2065E+00	(2009,287,2300)
45, 46	721.700	6060.300	1.0364E+00	(2009,287,2300)
45, 47	721.700	6060.400	1.0757E+00	(2009,064,2300)
45, 48	721.700	6060.500	1.1184E+00	(2009,064,2300)
45, 49	721.700	6060.600	1.1446E+00	(2009,064,2300)
45, 50	721.700	6060.700	1.1551E+00	(2009,064,2300)
45, 51	721.700	6060.800	1.1521E+00	(2009,064,2300)
46, 1	721.800	6055.800	4.0504E-01	(2009,178,2300)
46, 2	721.800	6055.900	4.1160E-01	(2009,178,2300)
46, 3	721.800	6056.000	4.1615E-01	(2009,178,2300)
46, 4	721.800	6056.100	4.2147E-01	(2009,178,2300)
46, 5	721.800	6056.200	4.3068E-01	(2009,178,2300)

46, 6	721.800	6056.300	4.4690E-01	(2009,178,2300)
46, 7	721.800	6056.400	4.7223E-01	(2009,178,2300)
46, 8	721.800	6056.500	5.0519E-01	(2009,178,2300)
46, 9	721.800	6056.600	5.4016E-01	(2009,178,2300)
46, 10	721.800	6056.700	5.6739E-01	(2009,178,2300)
46, 11	721.800	6056.800	5.7572E-01	(2009,178,2300)
46, 12	721.800	6056.900	5.9633E-01	(2009,238,2300)
46, 13	721.800	6057.000	6.8633E-01	(2009,238,2300)
46, 14	721.800	6057.100	7.3819E-01	(2009,238,2300)
46, 15	721.800	6057.200	7.4396E-01	(2009,201,2300)
46, 16	721.800	6057.300	7.3911E-01	(2009,201,2300)
46, 17	721.800	6057.400	6.8070E-01	(2009,201,2300)
46, 18	721.800	6057.500	8.8232E-01	(2009,105,2300)
46, 19	721.800	6057.600	1.1145E+00	(2009,105,2300)
46, 20	721.800	6057.700	1.2826E+00	(2009,105,2300)
46, 21	721.800	6057.800	1.3484E+00	(2009,105,2300)
46, 22	721.800	6057.900	1.3093E+00	(2009,105,2300)
46, 23	721.800	6058.000	1.3488E+00	(2009,242,2300)
46, 24	721.800	6058.100	1.9047E+00	(2009,134,2300)
46, 25	721.800	6058.200	2.6385E+00	(2009,134,2300)
46, 26	721.800	6058.300	3.1798E+00	(2009,134,2300)
46, 27	721.800	6058.400	3.5783E+00	(2009,193,2300)
46, 28	721.800	6058.500	3.8142E+00	(2009,193,2300)
46, 29	721.800	6058.600	3.2600E+00	(2009,193,2300)
46, 30	721.800	6058.700	2.4777E+00	(2009,182,2300)
46, 31	721.800	6058.800	2.0115E+00	(2009,182,2300)
46, 32	721.800	6058.900	1.8751E+00	(2009,062,2300)
46, 33	721.800	6059.000	2.0787E+00	(2009,115,2300)
46, 34	721.800	6059.100	2.7283E+00	(2009,115,2300)
46, 35	721.800	6059.200	2.9595E+00	(2009,115,2300)
46, 36	721.800	6059.300	2.6465E+00	(2009,115,2300)
46, 37	721.800	6059.400	2.0114E+00	(2009,115,2300)
46, 38	721.800	6059.500	1.7088E+00	(2009,073,2300)
46, 39	721.800	6059.600	1.4880E+00	(2009,073,2300)
46, 40	721.800	6059.700	1.2393E+00	(2009,023,2300)
46, 41	721.800	6059.800	1.0965E+00	(2009,338,2300)
46, 42	721.800	6059.900	1.1261E+00	(2009,287,2300)
46, 43	721.800	6060.000	1.2423E+00	(2009,287,2300)
46, 44	721.800	6060.100	1.2816E+00	(2009,287,2300)
46, 45	721.800	6060.200	1.2361E+00	(2009,287,2300)
46, 46	721.800	6060.300	1.1245E+00	(2009,287,2300)
46, 47	721.800	6060.400	9.7465E-01	(2009,287,2300)
46, 48	721.800	6060.500	1.0000E+00	(2009,064,2300)
46, 49	721.800	6060.600	1.0355E+00	(2009,064,2300)
46, 50	721.800	6060.700	1.0569E+00	(2009,064,2300)
46, 51	721.800	6060.800	1.0647E+00	(2009,064,2300)
47, 1	721.900	6055.800	3.7453E-01	(2009,178,2300)
47, 2	721.900	6055.900	3.7729E-01	(2009,178,2300)
47, 3	721.900	6056.000	3.8124E-01	(2009,178,2300)
47, 4	721.900	6056.100	3.8927E-01	(2009,178,2300)
47, 5	721.900	6056.200	4.0434E-01	(2009,178,2300)
47, 6	721.900	6056.300	4.2763E-01	(2009,178,2300)
47, 7	721.900	6056.400	4.5823E-01	(2009,178,2300)
47, 8	721.900	6056.500	4.9160E-01	(2009,178,2300)
47, 9	721.900	6056.600	5.1974E-01	(2009,178,2300)
47, 10	721.900	6056.700	5.3279E-01	(2009,178,2300)
47, 11	721.900	6056.800	5.2781E-01	(2009,238,2300)
47, 12	721.900	6056.900	6.1646E-01	(2009,238,2300)
47, 13	721.900	6057.000	6.7525E-01	(2009,238,2300)
47, 14	721.900	6057.100	6.9232E-01	(2009,238,2300)

47, 15	721.900	6057.200	6.9221E-01	(2009,201,2300)
47, 16	721.900	6057.300	6.6247E-01	(2009,201,2300)
47, 17	721.900	6057.400	6.8693E-01	(2009,105,2300)
47, 18	721.900	6057.500	9.0898E-01	(2009,105,2300)
47, 19	721.900	6057.600	1.1053E+00	(2009,105,2300)
47, 20	721.900	6057.700	1.2307E+00	(2009,105,2300)
47, 21	721.900	6057.800	1.2589E+00	(2009,105,2300)
47, 22	721.900	6057.900	1.1961E+00	(2009,105,2300)
47, 23	721.900	6058.000	1.3027E+00	(2009,242,2300)
47, 24	721.900	6058.100	1.8693E+00	(2009,134,2300)
47, 25	721.900	6058.200	2.5488E+00	(2009,134,2300)
47, 26	721.900	6058.300	3.0454E+00	(2009,134,2300)
47, 27	721.900	6058.400	3.4026E+00	(2009,193,2300)
47, 28	721.900	6058.500	3.6676E+00	(2009,193,2300)
47, 29	721.900	6058.600	3.2084E+00	(2009,193,2300)
47, 30	721.900	6058.700	2.4030E+00	(2009,182,2300)
47, 31	721.900	6058.800	1.9885E+00	(2009,182,2300)
47, 32	721.900	6058.900	1.6876E+00	(2009,062,2300)
47, 33	721.900	6059.000	1.9183E+00	(2009,062,2300)
47, 34	721.900	6059.100	2.3756E+00	(2009,115,2300)
47, 35	721.900	6059.200	2.7792E+00	(2009,115,2300)
47, 36	721.900	6059.300	2.6988E+00	(2009,115,2300)
47, 37	721.900	6059.400	2.2073E+00	(2009,115,2300)
47, 38	721.900	6059.500	1.6382E+00	(2009,073,2300)
47, 39	721.900	6059.600	1.5598E+00	(2009,073,2300)
47, 40	721.900	6059.700	1.3043E+00	(2009,073,2300)
47, 41	721.900	6059.800	1.1148E+00	(2009,023,2300)
47, 42	721.900	6059.900	9.6859E-01	(2009,338,2300)
47, 43	721.900	6060.000	1.0618E+00	(2009,287,2300)
47, 44	721.900	6060.100	1.1606E+00	(2009,287,2300)
47, 45	721.900	6060.200	1.1915E+00	(2009,287,2300)
47, 46	721.900	6060.300	1.1513E+00	(2009,287,2300)
47, 47	721.900	6060.400	1.0523E+00	(2009,287,2300)
47, 48	721.900	6060.500	9.1781E-01	(2009,287,2300)
47, 49	721.900	6060.600	9.3229E-01	(2009,064,2300)
47, 50	721.900	6060.700	9.6132E-01	(2009,064,2300)
47, 51	721.900	6060.800	9.7805E-01	(2009,064,2300)
48, 1	722.000	6055.800	3.4302E-01	(2009,178,2300)
48, 2	722.000	6055.900	3.4617E-01	(2009,178,2300)
48, 3	722.000	6056.000	3.5339E-01	(2009,178,2300)
48, 4	722.000	6056.100	3.6699E-01	(2009,178,2300)
48, 5	722.000	6056.200	3.8846E-01	(2009,178,2300)
48, 6	722.000	6056.300	4.1719E-01	(2009,178,2300)
48, 7	722.000	6056.400	4.4890E-01	(2009,178,2300)
48, 8	722.000	6056.500	4.7717E-01	(2009,178,2300)
48, 9	722.000	6056.600	4.9344E-01	(2009,178,2300)
48, 10	722.000	6056.700	4.8963E-01	(2009,178,2300)
48, 11	722.000	6056.800	5.5202E-01	(2009,238,2300)
48, 12	722.000	6056.900	6.1690E-01	(2009,238,2300)
48, 13	722.000	6057.000	6.4723E-01	(2009,238,2300)
48, 14	722.000	6057.100	6.4152E-01	(2009,201,2300)
48, 15	722.000	6057.200	6.3380E-01	(2009,201,2300)
48, 16	722.000	6057.300	5.8343E-01	(2009,201,2300)
48, 17	722.000	6057.400	7.2479E-01	(2009,105,2300)
48, 18	722.000	6057.500	9.2365E-01	(2009,105,2300)
48, 19	722.000	6057.600	1.0853E+00	(2009,105,2300)
48, 20	722.000	6057.700	1.1730E+00	(2009,105,2300)
48, 21	722.000	6057.800	1.1705E+00	(2009,105,2300)
48, 22	722.000	6057.900	1.0876E+00	(2009,105,2300)
48, 23	722.000	6058.000	1.2527E+00	(2009,242,2300)

48, 24	722.000	6058.100	1.8320E+00	(2009,134,2300)
48, 25	722.000	6058.200	2.4534E+00	(2009,134,2300)
48, 26	722.000	6058.300	2.9106E+00	(2009,134,2300)
48, 27	722.000	6058.400	3.2360E+00	(2009,193,2300)
48, 28	722.000	6058.500	3.5237E+00	(2009,193,2300)
48, 29	722.000	6058.600	3.1503E+00	(2009,193,2300)
48, 30	722.000	6058.700	2.3269E+00	(2009,182,2300)
48, 31	722.000	6058.800	1.9545E+00	(2009,182,2300)
48, 32	722.000	6058.900	1.5995E+00	(2009,182,2300)
48, 33	722.000	6059.000	1.7944E+00	(2009,062,2300)
48, 34	722.000	6059.100	2.0196E+00	(2009,115,2300)
48, 35	722.000	6059.200	2.5350E+00	(2009,115,2300)
48, 36	722.000	6059.300	2.6577E+00	(2009,115,2300)
48, 37	722.000	6059.400	2.3419E+00	(2009,115,2300)
48, 38	722.000	6059.500	1.7979E+00	(2009,115,2300)
48, 39	722.000	6059.600	1.5515E+00	(2009,073,2300)
48, 40	722.000	6059.700	1.4041E+00	(2009,073,2300)
48, 41	722.000	6059.800	1.1386E+00	(2009,073,2300)
48, 42	722.000	6059.900	9.6937E-01	(2009,023,2300)
48, 43	722.000	6060.000	8.7344E-01	(2009,287,2300)
48, 44	722.000	6060.100	1.0029E+00	(2009,287,2300)
48, 45	722.000	6060.200	1.0888E+00	(2009,287,2300)
48, 46	722.000	6060.300	1.1132E+00	(2009,287,2300)
48, 47	722.000	6060.400	1.0750E+00	(2009,287,2300)
48, 48	722.000	6060.500	9.8611E-01	(2009,287,2300)
48, 49	722.000	6060.600	8.6612E-01	(2009,287,2300)
48, 50	722.000	6060.700	8.7023E-01	(2009,064,2300)
48, 51	722.000	6060.800	8.9359E-01	(2009,064,2300)
49, 1	722.100	6055.800	3.1517E-01	(2009,178,2300)
49, 2	722.100	6055.900	3.2192E-01	(2009,178,2300)
49, 3	722.100	6056.000	3.3466E-01	(2009,178,2300)
49, 4	722.100	6056.100	3.5470E-01	(2009,178,2300)
49, 5	722.100	6056.200	3.8108E-01	(2009,178,2300)
49, 6	722.100	6056.300	4.1102E-01	(2009,178,2300)
49, 7	722.100	6056.400	4.3888E-01	(2009,178,2300)
49, 8	722.100	6056.500	4.5741E-01	(2009,178,2300)
49, 9	722.100	6056.600	4.5901E-01	(2009,178,2300)
49, 10	722.100	6056.700	4.9309E-01	(2009,238,2300)
49, 11	722.100	6056.800	5.5940E-01	(2009,238,2300)
49, 12	722.100	6056.900	5.9941E-01	(2009,238,2300)
49, 13	722.100	6057.000	6.0475E-01	(2009,238,2300)
49, 14	722.100	6057.100	5.9796E-01	(2009,201,2300)
49, 15	722.100	6057.200	5.7050E-01	(2009,201,2300)
49, 16	722.100	6057.300	5.6972E-01	(2009,105,2300)
49, 17	722.100	6057.400	7.5459E-01	(2009,105,2300)
49, 18	722.100	6057.500	9.2846E-01	(2009,105,2300)
49, 19	722.100	6057.600	1.0567E+00	(2009,105,2300)
49, 20	722.100	6057.700	1.1118E+00	(2009,105,2300)
49, 21	722.100	6057.800	1.0836E+00	(2009,105,2300)
49, 22	722.100	6057.900	9.8636E-01	(2009,242,2300)
49, 23	722.100	6058.000	1.1908E+00	(2009,242,2300)
49, 24	722.100	6058.100	1.7768E+00	(2009,134,2300)
49, 25	722.100	6058.200	2.3436E+00	(2009,134,2300)
49, 26	722.100	6058.300	2.7642E+00	(2009,134,2300)
49, 27	722.100	6058.400	3.0739E+00	(2009,193,2300)
49, 28	722.100	6058.500	3.3799E+00	(2009,193,2300)
49, 29	722.100	6058.600	3.0824E+00	(2009,193,2300)
49, 30	722.100	6058.700	2.3232E+00	(2009,193,2300)
49, 31	722.100	6058.800	1.9116E+00	(2009,182,2300)
49, 32	722.100	6058.900	1.5977E+00	(2009,182,2300)