Appendix A

FILE PAGE

CALPUFF Input File A.2

CALPUFF Output File.....A.26

```
CALPUFF - Tritium Release from Berkeley Lab


---------------- Run title (3 lines) ----------------------------------------

                    CALPUFF MODEL CONTROL FILE
                    --------------------------

------------------------------------------------------------------------------

INPUT GROUP: 0 -- Input and Output File Names

--------------
Default Name  Type          File Name
------------  ----          ---------
CALMET.DAT    input    ! METDAT =d:\p38069\calsurf\CALMETA.DAT !
    or
ISCMET.DAT    input    * ISCDAT =             *
    or
PLMMET.DAT    input    * PLMDAT =             *
    or
PROFILE.DAT   input    * PRFDAT =             *
SURFACE.DAT   input    * SFCDAT =             *
RESTARTB.DAT  input    * RSTARTB=             *
------------------------------------------------------------------------------
CALPUFF.LST   output   ! PUFLST =nsa.LST  !
CONC.DAT      output   ! CONDAT =nsa.CON     !
DFLX.DAT      output   ! DFDAT  =nsa.DRY     !
WFLX.DAT      output   ! WFDAT  =nsa.WET     !

VISB.DAT      output   * VISDAT =             *
RESTARTE.DAT  output   * RSTARTE=             *
------------------------------------------------------------------------------
Emission Files
--------------
PTEMARB.DAT   input    * PTDAT  =             *
VOLEM.DAT     input    * VOLDAT =             *
BAEMARB.DAT   input    * ARDAT  =             *
LNEMARB.DAT   input    * LNDAT  =             *
------------------------------------------------------------------------------
Other Files
-----------
OZONE.DAT     input    * OZDAT  =             *
VD.DAT        input    * VDDAT  =             *
CHEM.DAT      input    * CHEMDAT=             *
HILL.DAT      input    * HILDAT=             *
HILLRCT.DAT   input    * RCTDAT=             *
COASTLN.DAT   input    * CSTDAT=             *
DEBUG.DAT     output   * DEBUG =             *
------------------------------------------------------------------------------
All file names will be converted to lower case if LCFILES = T
Otherwise, if LCFILES = F, file names will be converted to UPPER CASE
         T = lower case      ! LCFILES = F !
         F = UPPER CASE
NOTE: (1) file/path names can be up to 70 characters in length

!END!
------------------------------------------------------------------------------
```

```
INPUT GROUP: 1 -- General run control parameters
--------------

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

         METRUN = 0 - Run period explicitly defined below
         METRUN = 1 - Run all periods in met. file(s)

     Starting date:   Year (IBYR) -- No default       ! IBYR = 1998  !
     (used only if   Month (IBMO) -- No default       ! IBMO =  1  !
      METRUN = 0)      Day (IBDY) -- No default       ! IBDY =  1  !
                      Hour (IBHR) -- No default       ! IBHR =  0  !

     Length of run (hours) (IRLG) -- No default       ! IRLG = 4344 !

     Number of chemical species (NSPEC)
                                     Default: 5       ! NSPEC =  2   !

     Number of chemical species
     to be emitted  (NSE)            Default: 3       ! NSE =  2   !

     Flag to stop run after
     SETUP phase (ITEST)             Default: 2       ! ITEST =  2   !
     (Used to allow checking
     of the model inputs, files, etc.)
           ITEST = 1 - STOPS program after SETUP phase
           ITEST = 2 - Continues with execution of program
                       after SETUP

     Restart Configuration:

        Control flag (MRESTART)      Default: 0       ! MRESTART =  0   !

           0 = Do not read or write a restart file
           1 = Read a restart file at the beginning of
               the run
           2 = Write a restart file during run
           3 = Read a restart file at beginning of run
               and write a restart file during run

        Number of periods in Restart
        output cycle (NRESPD)        Default: 0       ! NRESPD =  0   !

           0 = File written only at last period
          >0 = File updated every NRESPD periods

     Meteorological Data Format (METFM)
                                     Default: 1       ! METFM =  1   !

           METFM = 1 - CALMET binary file (CALMET.MET)
           METFM = 2 - ISC ASCII file (ISCMET.MET)
           METFM = 3 - AUSPLUME ASCII file (PLMMET.MET)
           METFM = 4 - CTDM plus tower file (PROFILE.DAT) and
                       surface parameters file (SURFACE.DAT)

     Averaging Time (minutes) (AVET)
                                     Default: 60.0    ! AVET = 60. !
     PG sigma-y is adjusted by the equation
     (AVET/60.0)**0.2


!END!

-------------------------------------------------------------------------------
```

```
INPUT GROUP: 2 -- Technical options
--------------


     Vertical distribution used in the
     near field (MGAUSS)                  Default: 1     ! MGAUSS =  1   !
        0 = uniform
        1 = Gaussian

     Terrain adjustment method
     (MCTADJ)                             Default: 3     ! MCTADJ =  3   !
        0 = no adjustment
        1 = ISC-type of terrain adjustment
        2 = simple, CALPUFF-type of terrain
            adjustment
        3 = partial plume path adjustment

     Subgrid-scale complex terrain
     flag (MCTSG)                         Default: 0     ! MCTSG =  0   !
        0 = not modeled
        1 = modeled

     Near-field puffs modeled as
     elongated 0 (MSLUG)                  Default: 0     ! MSLUG =  1   !
        0 = no
        1 = yes (slug model used)

     Transitional plume rise modeled ?
     (MTRANS)                             Default: 0     ! MTRANS =  1   !
        0 = no  (i.e., final rise only)
        1 = yes (i.e., transitional rise computed)

     Stack tip downwash? (MTIP)           Default: 1     ! MTIP =  1  !
        0 = no  (i.e., no stack tip downwash)
        1 = yes (i.e., use stack tip downwash)

     Vertical wind shear modeled above
     stack top? (MSHEAR)                  Default: 0     ! MSHEAR =  1  !
        0 = no  (i.e., vertical wind shear not modeled)
        1 = yes (i.e., vertical wind shear modeled)

     Puff splitting allowed? (MSPLIT)     Default: 0     ! MSPLIT =  1  !
        0 = no (i.e., puffs not split)
        1 = yes (i.e., puffs are split)

     Chemical mechanism flag (MCHEM)      Default: 1     ! MCHEM =  0   !
        0 = chemical transformation not
            modeled
        1 = transformation rates computed
            internally (MESOPUFF II scheme)
        2 = user-specified transformation
            rates used
        3 = transformation rates computed
            internally (RIVAD/ARM3 scheme)

     Wet removal modeled ? (MWET)         Default: 1     ! MWET =  1   !
        0 = no
        1 = yes

     Dry deposition modeled ? (MDRY)      Default: 1     ! MDRY =  1   !
        0 = no
        1 = yes
        (dry deposition method specified
         for each species in Input Group 3)
```

```
Method used to compute dispersion
coefficients (MDISP)                  Default: 3     ! MDISP =  2   !

   1 = dispersion coefficients computed from measured values
       of turbulence, sigma v, sigma w
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.
   5 = CTDM sigmas used for stable and neutral conditions.
       For unstable conditions, sigmas are computed as in
       MDISP = 3, described above.  MDISP = 5 assumes that
       measured values are read

Sigma-v/sigma-theta, sigma-w measurements used? (MTURBVW)
(Used only if MDISP = 1 or 5)         Default: 3     ! MTURBVW =  3  !
   1 = use sigma-v or sigma-theta measurements
       from PROFILE.DAT to compute sigma-y
       (valid for METFM = 1, 2, 3, 4)
   2 = use sigma-w measurements
       from PROFILE.DAT to compute sigma-z
       (valid for METFM = 1, 2, 3, 4)
   3 = use both sigma-(v/theta) and sigma-w
       from PROFILE.DAT to compute sigma-y and sigma-z
       (valid for METFM = 1, 2, 3, 4)
   4 = use sigma-theta measurements
       from PLMMET.DAT to compute sigma-y
       (valid only if METFM = 3)

Back-up method used to compute dispersion
when measured turbulence data are
missing (MDISP2)                      Default: 3     ! MDISP2 =  3  !
(used only if MDISP = 1 or 5)
   2 = dispersion coefficients from internally calculated
       sigma v, sigma w using micrometeorological variables
       (u*, w*, L, etc.)
   3 = PG dispersion coefficients for RURAL areas (computed using
       the ISCST multi-segment approximation) and MP coefficients in
       urban areas
   4 = same as 3 except PG coefficients computed using
       the MESOPUFF II eqns.

PG sigma-y,z adj. for roughness?      Default: 0     ! MROUGH =  0  !
(MROUGH)
   0 = no
   1 = yes

Partial plume penetration of          Default: 1     ! MPARTL =  1  !
elevated inversion?
(MPARTL)
   0 = no
   1 = yes

Strength of temperature inversion     Default: 0     ! MTINV =  0  !
provided in PROFILE.DAT extended records?
(MTINV)
   0 = no (computed from measured/default gradients)
   1 = yes
```

```
     PDF used for dispersion under convective conditions?
                                          Default: 0     ! MPDF =  0  !
     (MPDF)
        0 = no
        1 = yes

     Sub-Grid TIBL module used for shore line?
                                          Default: 0     ! MSGTIBL = 0  !
     (MSGTIBL)
        0 = no
        1 = yes

     Test options specified to see if
     they conform to regulatory
     values? (MREG)                       Default: 1     ! MREG =  0   !

        0 = NO checks are made
        1 = Technical options must conform to USEPA values
                      METFM    1
                      AVET     60. (s)
                      MGAUSS   1
                      MCTADJ   3
                      MTRANS   1
                      MTIP     1
                      MCHEM    1 (if modeling SOx, NOx)
                      MWET     1
                      MDRY     1
                      MDISP    3
                      MROUGH   0
                      MPARTL   1
                      SYTDEP   550. (m)
                      MHFTSZ   0


!END!


-------------------------------------------------------------------------------

INPUT GROUP: 3a, 3b -- Species list
-------------------

------------
Subgroup (3a)
------------

  The following species are modeled:

! CSPEC =          SO2 !         !END!
! CSPEC =          NO2 !         !END!

                                                        Dry                OUTPUT GROUP
    SPECIES          MODELED          EMITTED       DEPOSITED                NUMBER
     NAME         (0=NO, 1=YES)    (0=NO, 1=YES)    (0=NO,                 (0=NONE,
   (Limit: 12                                         1=COMPUTED-GAS        1=1st
CGRUP,
    Characters                                        2=COMPUTED-PARTICLE   2=2nd
CGRUP,
    in length)                                        3=USER-SPECIFIED)     3= etc.)

!          SO2  =         1,               1,           1,                 0   !
!          NO2  =         1,               1,           1,                 0   !

!END!
```

```
-------------
Subgroup (3b)
-------------
  The following names are used for Species-Groups in which results
  for certain species are combined (added) prior to output.  The
  CGRUP name will be used as the species name in output files.
  Use this feature to model specific particle-size distributions
  by treating each size-range as a separate species.
  Order must be consistent with 3(a) above.


-------------------------------------------------------------------------------


INPUT GROUP: 4 -- Grid control parameters
--------------


METEOROLOGICAL grid:

            No. X grid cells (NX)      No default     ! NX =  41   !
            No. Y grid cells (NY)      No default     ! NY =  41   !
         No. vertical layers (NZ)      No default     ! NZ =  10   !

           Grid spacing (DGRIDKM)      No default     ! DGRIDKM = 0.25 !
                                       Units: km

                Cell face heights
                    (ZFACE(nz+1))      No defaults
                                       Units: m
   ! ZFACE = 0., 20., 40., 80., 160., 300., 600., 1000., 1500., 2200.,
              3000. !

            Reference Coordinates
           of SOUTHWEST corner of
                 grid cell(1, 1):

            X coordinate (XORIGKM)     No default     ! XORIGKM = 561.435 !
            Y coordinate (YORIGKM)     No default     ! YORIGKM = 4187.335 !
                                      Units: km

                 UTM zone (IUTMZN)     No default     ! IUTMZN =  10   !

   Reference coordinates of CENTER
        of the domain (used in the
    calculation of solar elevation
                           angles)

            Latitude  (deg.) (XLAT)    No default     ! XLAT  = 37.833  !
           Longitude (deg.) (XLONG)    No default     ! XLONG =122.302  !
             Time zone        (XTZ)    No default     ! XTZ   = 8.0  !
       (PST=8, MST=7, CST=6, EST=5)
```

```
Computational grid:

     The computational grid is identical to or a subset of the MET. grid.
     The lower left (LL) corner of the computational grid is at grid point
     (IBCOMP, JBCOMP) of the MET. grid.  The upper right (UR) corner of the
     computational grid is at grid point (IECOMP, JECOMP) of the MET. grid.
     The grid spacing of the computational grid is the same as the MET. grid.

        X index of LL corner (IBCOMP)      No default     ! IBCOMP =  13   !
                  (1 <= IBCOMP <= NX)

        Y index of LL corner (JBCOMP)      No default     ! JBCOMP =  13   !
                  (1 <= JBCOMP <= NY)


        X index of UR corner (IECOMP)      No default     ! IECOMP =  28   !
                  (1 <= IECOMP <= NX)

        Y index of UR corner (JECOMP)      No default     ! JECOMP =  28   !
                  (1 <= JECOMP <= NY)



SAMPLING GRID (GRIDDED RECEPTORS):

     The lower left (LL) corner of the sampling grid is at grid point
     (IBSAMP, JBSAMP) of the MET. grid.  The upper right (UR) corner of the
     sampling grid is at grid point (IESAMP, JESAMP) of the MET. grid.
     The sampling grid must be identical to or a subset of the computational
     grid.  It may be a nested grid inside the computational grid.
     The grid spacing of the sampling grid is DGRIDKM/MESHDN.

        Logical flag indicating if gridded
        receptors are used (LSAMP)         Default: T     ! LSAMP = T !
        (T=yes, F=no)

        X index of LL corner (IBSAMP)      No default     ! IBSAMP =  13   !
         (IBCOMP <= IBSAMP <= IECOMP)

        Y index of LL corner (JBSAMP)      No default     ! JBSAMP =  13   !
         (JBCOMP <= JBSAMP <= JECOMP)


        X index of UR corner (IESAMP)      No default     ! IESAMP =  28   !
         (IBCOMP <= IESAMP <= IECOMP)

        Y index of UR corner (JESAMP)      No default     ! JESAMP =  28   !
         (JBCOMP <= JESAMP <= JECOMP)


       Nesting factor of the sampling
        grid (MESHDN)                      Default: 1     ! MESHDN =  3  !
        (MESHDN is an integer >= 1)

!END!

-------------------------------------------------------------------------------
```

```
INPUT GROUP: 5 -- Output Options
--------------
                                                *                          *
     FILE                        DEFAULT VALUE             VALUE THIS RUN
     ----                        -------------             --------------

   Concentrations (ICON)              1                   !  ICON =  1   !
   Dry Fluxes (IDRY)                  1                   !  IDRY =  1   !
   Wet Fluxes (IWET)                  1                   !  IWET =  1   !
   Relative Humidity (IVIS)           1                   !  IVIS =  0   !
    (relative humidity file is
     required for visibility
     analysis)
   Use data compression option in output file?
   (LCOMPRS)                           Default: T         ! LCOMPRS = T !

   *
    0 = Do not create file, 1 = create file


    LINE PRINTER OUTPUT OPTIONS:

       Print concentrations (ICPRT)    Default: 0         ! ICPRT =  0   !
       Print dry fluxes (IDPRT)        Default: 0         ! IDPRT =  0   !
       Print wet fluxes (IWPRT)        Default: 0         ! IWPRT =  0   !
       (0 = Do not print, 1 = Print)

       Concentration print interval
       (ICFRQ) in hours                Default: 1         ! ICFRQ =  1   !
       Dry flux print interval
       (IDFRQ) in hours                Default: 1         ! IDFRQ =  1   !
       Wet flux print interval
       (IWFRQ) in hours                Default: 1         ! IWFRQ =  1   !

       Units for Line Printer Output
       (IPRTU)                         Default: 1         ! IPRTU =  3   !
                       for            for
                  Concentration    Deposition
           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

       Messages tracking progress of   Default: 1         ! IMESG =  1   !
       run written to the screen ?
       (IMESG) -- 0=no, 1=yes


     SPECIES (or GROUP for combined species) LIST FOR OUTPUT OPTIONS

                -------- CONCENTRATIONS ---------   ----------- DRY FLUXES -----------
--------- WET FLUXES ----------
   SPECIES
   /GROUP         PRINTED ?       SAVED ON DISK ?      PRINTED ?       SAVED ON DISK ?
PRINTED ?     SAVED ON DISK ?
   -------      ---------------------------------   ----------------------------------
-------------------------------
!          SO2 =         1,               1,               0,               1,
0,               1   !
!          NO2 =         1,               1,               0,               1,
0,               1   !
```

```
     OPTIONS FOR PRINTING "DEBUG" QUANTITIES (much output)

       Logical for debug output
       (LDEBUG)                                Default: F     ! LDEBUG = F !

       Number of puffs to track
       (NPFDEB)                                Default: 1     ! NPFDEB =  1  !

       Met. period to start output
       (NN1)                                   Default: 1     ! NN1 =  1   !

       Met. period to end output
       (NN2)                                   Default: 10    ! NN2 =  10  !

!END!


------------------------------------------------------------------------------


INPUT GROUP: 6a, 6b, & 6c -- Subgrid scale complex terrain inputs
-------------------------

---------------
Subgroup (6a)
---------------
       Number of terrain features (NHILL)      Default: 0     ! NHILL =  0   !

       Number of special complex terrain
       receptors  (NCTREC)                     Default: 0     ! NCTREC =  0   !

       Terrain and CTSG Receptor data for
       CTSG hills input in CTDM format ?
       (MHILL)                                 No Default     ! MHILL =  0   !
       1 = Hill and Receptor data created
           by CTDM processors & read from
           HILL.DAT and HILLRCT.DAT files
       2 = Hill data created by OPTHILL &
           input below in Subgroup (6b);
           Receptor data in Subgroup (6c)

       Factor to convert horizontal dimensions  Default: 1.0   ! XHILL2M = 1. !
       to meters (MHILL=1)

       Factor to convert vertical dimensions    Default: 1.0   ! ZHILL2M = 1. !
       to meters (MHILL=1)

       X-origin of CTDM system relative to      No Default     ! XCTDMKM = 0.0E00 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

       Y-origin of CTDM system relative to      No Default     ! YCTDMKM = 0.0E00 !
       CALPUFF coordinate system, in Kilometers (MHILL=1)

! END !
```

```
---------------
Subgroup (6b)
---------------

                      1 **
     HILL information


HILL           XC        YC       THETAH  ZGRID  RELIEF    EXPO 1    EXPO 2   SCALE 1
SCALE 2    AMAX1     AMAX2
 NO.          (km)      (km)      (deg.)   (m)     (m)      (m)       (m)       (m)
(m)       (m)       (m)
----          ----      ----      ------  -----  ------    ------    ------   -------
-------    -----     -----

---------------
Subgroup (6c)
---------------

    COMPLEX TERRAIN RECEPTOR INFORMATION

                      XRCT         YRCT        ZRCT          XHH
                      (km)         (km)         (m)
                     ------       -----      ------         ----


-------------------
1
     Description of Complex Terrain Variables:
          XC, YC  = Coordinates of center of hill
          THETAH  = Orientation of major axis of hill (clockwise from
                    North)
          ZGRID   = Height of the  0  of the grid above mean sea
                    level
          RELIEF  = Height of the crest of the hill above the grid elevation
          EXPO 1  = Hill-shape exponent for the major axis
          EXPO 2  = Hill-shape exponent for the major axis
          SCALE 1 = Horizontal length scale along the major axis
          SCALE 2 = Horizontal length scale along the minor axis
          AMAX    = Maximum allowed axis length for the major axis
          BMAX    = Maximum allowed axis length for the major axis

          XRCT, YRCT = Coordinates of the complex terrain receptors
          ZRCT    = Height of the ground (MSL) at the complex terrain
                    Receptor
          XHH     = Hill number associated with each complex terrain receptor
                    (NOTE: MUST BE ENTERED AS A REAL NUMBER)

   **
     NOTE: DATA for each hill and CTSG receptor are treated as a separate
           input subgroup and therefore must end with an input group terminator.

-------------------------------------------------------------------------------
```

```
INPUT GROUP: 7 -- Chemical parameters for dry deposition of gases
--------------

      SPECIES     DIFFUSIVITY      ALPHA STAR      REACTIVITY    MESOPHYLL RESISTANCE
HENRY'S LAW COEFFICIENT
       NAME        (cm**2/s)                                           (s/cm)
(dimensionless)
      -------     -----------      ----------      ----------    --------------------
-----------------------

!          SO2 =     0.1659,            1.,            8.,                5.,
0.04 !
!          NO2 =     0.1656,            1.,            8.,                5.,
0.04 !

!END!


-------------------------------------------------------------------------------


INPUT GROUP: 8 -- Size parameters for dry deposition of particles
--------------

     For SINGLE SPECIES, the mean and standard deviation are used to
     compute a deposition velocity for NINT (see group 9) size-ranges,
     and these are then averaged to obtain a mean deposition velocity.

     For GROUPED SPECIES, the size distribution should be explicitly
     specified (by the 'species' in the group), and the standard deviation
     for each should be entered as 0.  The model will then use the
     deposition velocity for the stated mean diameter.

      SPECIES      GEOMETRIC MASS MEAN        GEOMETRIC STANDARD
       NAME             DIAMETER                 DEVIATION
                        (microns)                (microns)
      -------      -------------------        ------------------
!          SO2 =          0.10,                      0.01 !
!          NO2 =          0.10,                      0.01 !

!END!


-------------------------------------------------------------------------------


INPUT GROUP: 9 -- Miscellaneous dry deposition parameters
--------------

     Reference cuticle resistance   (RCUTR)  (s/cm)   !  RCUTR = 30. !
     Reference ground resistance    (RGR)    (s/cm)   !    RGR = 5. !
     Reference pollutant reactivity (REACTR)          ! REACTR = 8. !

     Number of particle-size intervals used to
     evaluate effective particle deposition velocity
     (NINT)                            Default: 9     !   NINT =  9  !

     Vegetation state in unirrigated areas (IVEG)     !   IVEG =  1   !
        IVEG=1 for active and unstressed vegetation
        IVEG=2 for active and stressed vegetation
        IVEG=3 for inactive vegetation

!END!

-------------------------------------------------------------------------------
```

```
INPUT GROUP: 10 -- Wet Deposition Parameters
---------------


                      Scavenging Coefficient -- Units: (sec)**(-1)

       Pollutant      Liquid Precip.       Frozen Precip.
       ---------      --------------       --------------
!          SO2 =         3.0E-05,             5.0E-06 !
!          NO2 =         3.0E-05,             5.0E-06 !

!END!


-------------------------------------------------------------------------------


INPUT GROUP: 11 -- Chemistry Parameters
---------------

     Ozone data input option (MOZ)     Default: 1            ! MOZ =  0   !
     (Used only if MCHEM = 1 or 3)
        0 = use a constant background ozone value
        1 = read hourly ozone concentrations from
            the OZONE.DAT data file

     Background ozone concentration
     (BCKO3) in ppb                    Default: 80.          ! BCKO3 = 40. !
     (Used only if MCHEM = 1 or 3 and
      MOZ = 0 or (MOZ = 1 and all hourly
      O3 data missing)

     Background ammonia concentration
     (BCKNH3) in ppb                   Default: 10.          ! BCKNH3 = 10. !

     Nighttime SO2 loss rate (RNITE1)
     in percent/hour                   Default: 0.2          ! RNITE1 = 0.2 !

     Nighttime NOx loss rate (RNITE2)
     in percent/hour                   Default: 2.0          ! RNITE2 = 2. !

     Nighttime HNO3 formation rate (RNITE3)
     in percent/hour                   Default: 2.0          ! RNITE3 = 2. !

!END!


-------------------------------------------------------------------------------


INPUT GROUP: 12 -- Misc. Dispersion and Computational Parameters
---------------

     Horizontal size of puff (m) beyond which
     time-dependent dispersion equations (Heffter)
     are used to determine sigma-y and
     sigma-z (SYTDEP)                          Default: 550.   ! SYTDEP = 5.5E02 !

     Switch for using Heffter equation for sigma z
     as above (0 = Not use Heffter; 1 = use Heffter
     (MHFTSZ)                                  Default: 0      ! MHFTSZ =  0   !
```

```
Stability class used to determine plume
growth rates for puffs above the boundary
layer (JSUP)                              Default: 5      ! JSUP =  5   !

Vertical dispersion constant for stable
conditions (k1 in Eqn. 2.7-3)  (CONK1)    Default: 0.01   ! CONK1 = 0.01 !

Vertical dispersion constant for neutral/
unstable conditions (k2 in Eqn. 2.7-4)
(CONK2)                                   Default: 0.1    ! CONK2 = 0.1 !

Factor for determining Transition-point from
Schulman-Scire to Huber-Snyder Building Downwash
scheme (SS used for Hs < Hb + TBD * HL)
(TBD)                                     Default: 0.5    ! TBD = 0.5 !
   TBD < 0   ==> always use Huber-Snyder
   TBD = 1.5 ==> always use Schulman-Scire
   TBD = 0.5 ==> ISC Transition-point

Range of land use categories for which
urban dispersion is assumed
(IURB1, IURB2)                            Default: 10     ! IURB1 =  10  !
                                                   19     ! IURB2 =  19  !

Site characterization parameters for single-point Met data files ---------
(needed for METFM = 2,3,4)

   Land use category for modeling domain
   (ILANDUIN)                             Default: 20     ! ILANDUIN =  20  !

   Roughness length (m) for modeling domain
   (Z0IN)                                 Default: 0.25   ! Z0IN = 0.25 !

   Leaf area index for modeling domain
   (XLAIIN)                               Default: 3.0    ! XLAIIN = 3. !

   Elevation above sea level (m)
   (ELEVIN)                               Default: 0.0    ! ELEVIN = 0. !

   Latitude (degrees) for met location
   (XLATIN)                               Default: -999.  ! XLATIN = 0. !

   Longitude (degrees) for met location
   (XLONIN)                               Default: -999.  ! XLONIN = 0. !

Specialized information for interpreting single-point Met data files -----

   Anemometer height (m) (Used only if METFM = 2,3)
   (ANEMHT)                               Default: 10.    ! ANEMHT = 10. !

   Form of lateral turbulance data in PROFILE.DAT file
   (Used only if METFM = 4 or MTURBVW = 1 or 3)
   (ISIGMAV)                              Default: 1      ! ISIGMAV =  1  !
       0 = read sigma-theta
       1 = read sigma-v

   Choice of mixing heights (Used only if METFM = 4)
   (IMIXCTDM)                             Default: 0      ! IMIXCTDM =  0  !
       0 = read PREDICTED mixing heights
       1 = read OBSERVED mixing heights

Maximum length of a slug (met. grid units)
(XMXLEN)                                  Default: 1.0    ! XMXLEN = 1. !
```

```
     Maximum travel distance of a puff/slug (in
     grid units) during one sampling step
     (XSAMLEN)                                  Default: 1.0    ! XSAMLEN = 1. !

     Maximum Number of slugs/puffs release from
     one source during one time step
     (MXNEW)                                    Default: 99     ! MXNEW =  99   !

     Maximum Number of sampling steps for
     one puff/slug during one time step
     (MXSAM)                                    Default: 99     ! MXSAM =  99   !

     Number of iterations used when computing
     the transport wind for a sampling step
     that includes gradual rise (for CALMET
     and PROFILE winds)
     (NCOUNT)                                   Default: 2      ! NCOUNT =  2   !

     Minimum sigma y for a new puff/slug (m)
     (SYMIN)                                    Default: 1.0    ! SYMIN = 1.  !

     Minimum sigma z for a new puff/slug (m)
     (SZMIN)                                    Default: 1.0    ! SZMIN = 1.  !

     Default minimum turbulence velocities
     sigma-v and sigma-w for each
     stability class (m/s)
     (SVMIN(6) and SWMIN(6))     Default SVMIN : .50,  .50,  .50,  .50,  .50,  .50
                                 Default SWMIN : .20,  .12,  .08,  .06,  .03,  .016

                              Stability Class :  A     B     C     D     E     F
                                                ---   ---   ---   ---   ---   ---
                                      ! SVMIN = 0.500, 0.500, 0.500, 0.500, 0.500,
0.500!
                                      ! SWMIN = 0.200, 0.120, 0.080, 0.060, 0.030,
0.016!

     Divergence criterion for dw/dz across puff
     used to initiate adjustment for horizontal
     convergence (1/s)
     Partial adjustment starts at CDIV(1), and
     full adjustment is reached at CDIV(2)
     (CDIV(2))                                  Default: 0.0,0.0  ! CDIV = 0.0, 0.0  !

     Minimum wind speed (m/s) allowed for
     non-calm conditions. Also used as minimum
     speed returned when using power-law
     extrapolation toward surface
     (WSCALM)                                   Default: 0.5    ! WSCALM = 0.5 !

     Maximum mixing height (m)
     (XMAXZI)                                   Default: 3000.  ! XMAXZI = 3000. !

     Minimum mixing height (m)
     (XMINZI)                                   Default: 50.    ! XMINZI = 20. !

     Default wind speed classes --
     5 upper bounds (m/s) are entered;
     the 6th class has no upper limit
     (WSCAT(5))                       Default   :
                                      ISC RURAL : 1.54, 3.09, 5.14, 8.23, 10,8 (10.8+)

                             Wind Speed Class :  1     2     3     4     5     6
                                                ---   ---   ---   ---   ---   ---
                                      ! WSCAT = 1.54, 3.09, 5.14, 8.23, 10.80 !
```

```
     Default wind speed profile power-law
     exponents for stabilities 1-6
     (PLX0(6))                       Default   : ISC RURAL values
                                     ISC RURAL : .07, .07, .10, .15, .35, .55
                                     ISC URBAN : .15, .15, .20, .25, .30, .30

                               Stability Class :  A     B     C     D     E     F
                                                 ---   ---   ---   ---   ---   ---
                                        ! PLX0 = 0.07, 0.07, 0.10, 0.15, 0.35, 0.55 !

     Default potential temperature gradient
     for stable classes E, F (degK/m)
     (PTG0(2))                       Default: 0.020, 0.035
                                        ! PTG0 = 0.020,   0.035 !

     Default plume path coefficients for
     each stability class (used when option
     for partial plume height terrain adjustment
     is selected -- MCTADJ=3)
     (PPC(6))                  Stability Class :  A     B     C     D     E     F
                                  Default  PPC : .50,  .50,  .50,  .50,  .35,  .35
                                                 ---   ---   ---   ---   ---   ---
                                        !  PPC = 0.50, 0.50, 0.50, 0.50, 0.35, 0.35 !

     Slug-to-puff transition criterion factor
     equal to sigma-y/length of slug
     (SL2PF)                              Default: 10.        ! SL2PF = 10. !

     Puff-splitting control variables ------------------------

       Number of puffs that result every time a puff
       is split - nsplit=2 means that 1 puff splits
       into 2
       (NSPLIT)                           Default:   3        ! NSPLIT =  3  !

       Time(s) of a day when split puffs are eligible to
       be split once again; this is typically set once
       per day, around sunset before nocturnal shear develops.
       24 values: 0 is midnight (00:00) and 23 is 11 PM (23:00)
       0=do not re-split    1=eligible for re-split
       (IRESPLIT(24))                     Default:  Hour 17 = 1
       !  IRESPLIT = 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0 !

       Split is allowed only if last hour's mixing
       height (m) exceeds a minimum value
       (ZISPLIT)                          Default: 100.       ! ZISPLIT = 100. !

       Split is allowed only if ratio of last hour's
       mixing ht to the maximum mixing ht experienced
       by the puff is less than a maximum value (this
       postpones a split until a nocturnal layer develops)
       (ROLDMAX)                          Default: 0.25       ! ROLDMAX = 0.25 !

     Integration control variables ------------------------

       Fractional convergence criterion for numerical SLUG
       sampling integration
       (EPSSLUG)                          Default:   1.0e-04  ! EPSSLUG = 1.0E-04 !

       Fractional convergence criterion for numerical AREA
       source integration
       (EPSAREA)                          Default:   1.0e-06  ! EPSAREA = 1.0E-06 !
!END!
-------------------------------------------------------------------------------
```

```
INPUT GROUPS: 13a, 13b, 13c, 13d -- Point source parameters
-------------------------------

---------------
Subgroup (13a)
---------------

     Number of point sources with
     parameters provided below      (NPT1)  No default  !  NPT1 =  1  !

     Units used for point source
     emissions below                (IPTU)  Default: 1  !  IPTU =   1  !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (13d)        (NSPT1) Default: 0  !  NSPT1 =  0  !

     Number of point sources with
     variable emission parameters
     provided in external file      (NPT2)  No default  !  NPT2 =  0  !

     (If NPT2 > 0, these point
     source emissions are read from
     the file: PTEMARB.DAT)

!END!

---------------
Subgroup (13b)
---------------
                                      a
          POINT SOURCE: CONSTANT DATA
          ----------------------------
                                                                          b
c
  Source      X UTM     Y UTM     Stack   Base     Stack    Exit  Exit    Bldg.
Emission
   No.     Coordinate Coordinate Height Elevation Diameter  Vel.  Temp.   Dwash
Rates
              (km)      (km)       (m)      (m)       (m)  (m/s) (deg. K)
--------   ---------- ---------- ------  ------   -------- ----- -------- ----- ------
--
   1 ! SRCNAM = P1 !
   1 ! X =   566.481, 4192.316,     9.1, 298.7,       .57,  11.9, 293.15,
1.0, 1.0E00 !
   1 ! FMFAC  =      1.0 !   !END!

--------
```

a
Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

b
0. = No building downwash modeled, 1. = downwash modeled
NOTE: must be entered as a REAL number (i.e., with decimal point)

c
An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IPTU (e.g. 1 for g/s).

Subgroup (13c)

```
Source                                                                  a
 No.       Effective building width and height (in meters) every 10 degrees
------     ----------------------------------------------------------------
 1    ! SRCNAM  =   P1 !
 1    ! HEIGHT  =    3.80,   3.80,   3.80,   3.80,   3.80,   3.80,
                     4.70,   4.70,   4.70,   3.80,   3.80,   4.70,
                     4.70,   4.70,   4.70,   3.80,   3.80,   3.80,
                     3.80,   3.80,   3.80,   3.80,   3.80,   3.80,
                     4.70,   4.70,   4.70,   4.70,   4.70,   4.70,
                     4.70,   4.70,   4.70,   3.80,   3.80,   3.80!


 1    ! WIDTH  =     22.36,  23.50,  25.75,  27.00,  27.75,  27.50,
                     26.50,  24.50,  22.00,  18.50,  20.75,  24.25,
                     26.25,  27.25,  27.75,  27.88,  26.88,  25.00,
                     22.36,  23.50,  25.75,  27.25,  27.75,  27.50,
                     26.50,  24.75,  22.00,  18.50,  21.50,  24.00,
                     26.00,  27.25,  28.00,  28.00,  26.88,  25.00!

!END!
```

---

a
Each pair of width and height values is treated as a separate input subgroup and therefore must end with an input group terminator.

Subgroup (13d)

POINT SOURCE: VARIABLE EMISSIONS DATA a

Use this subgroup to describe temporal variations in the emission rates given in 13b. Factors entered multiply the rates in 13b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use PTEMARB.DAT and NPT2 > 0.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

```
      0 =       Constant
      1 =       Diurnal cycle (24 scaling factors: hours 1-24)
      2 =       Monthly cycle (12 scaling factors: months 1-12)
      3 =       Hour & Season (4 groups of 24 hourly scaling factors,
                               where first group is DEC-JAN-FEB)
      4 =       Speed & Stab. (6 groups of 6 scaling factors, where
                               first group is Stability Class A,
                               and the speed classes have upper
                               bounds (m/s) defined in Group 12
      5 =       Temperature   (12 scaling factors, where temperature
                               classes have upper bounds (C) of:
                               0, 5, 10, 15, 20, 25, 30, 35, 40,
                               45, 50, 50+)
```

```
--------

    a
     Data for each species are treated as a separate input subgroup
     and therefore must end with an input group terminator.


-------------------------------------------------------------------------------


INPUT GROUPS: 14a, 14b, 14c, 14d -- Area source parameters
---------------------------------

---------------
Subgroup (14a)
---------------

     Number of polygon area sources with
     parameters specified below (NAR1)       No default  !  NAR1 =  0   !

     Units used for area source
     emissions below            (IARU)       Default: 1  !  IARU =   1  !
           1 =        g/m**2/s
           2 =       kg/m**2/hr
           3 =       lb/m**2/hr
           4 =     tons/m**2/yr
           5 =     Odour Unit * m/s  (vol. flux/m**2 of odour compound)
           6 =     Odour Unit * m/min

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (14d)        (NSAR1) Default: 0  !  NSAR1 =  0  !

     Number of buoyant polygon area sources
     with variable location and emission
     parameters (NAR2)                      No default  !  NAR2 =  0   !
     (If NAR2 > 0, ALL parameter data for
     these sources are read from the file: BAEMARB.DAT)

!END!

---------------
Subgroup (14b)
---------------
                                       a
          AREA SOURCE: CONSTANT DATA
          ----------------------------
                                                          b
Source           Effect.    Base      Initial    Emission
 No.             Height   Elevation   Sigma z     Rates
                   (m)       (m)        (m)
-------          ------    ------     --------   ---------


--------
    a
     Data for each source are treated as a separate input subgroup
     and therefore must end with an input group terminator.
    b
     An emission rate must be entered for every pollutant modeled.
     Enter emission rate of zero for secondary pollutants that are
     modeled, but not emitted.  Units are specified by IARU
     (e.g. 1 for g/m**2/s).
```

```
---------------
Subgroup (14c)
---------------

           COORDINATES (UTM-km) FOR EACH VERTEX(4) OF EACH POLYGON
           -------------------------------------------------------
Source                                                            a
 No.       Ordered list of X followed by list of Y, grouped by source
------     -------------------------------------------------------------


--------
    a
     Data for each source are treated as a separate input subgroup
     and therefore must end with an input group terminator.


---------------
Subgroup (14d)
---------------
                                              a
          AREA SOURCE: VARIABLE EMISSIONS DATA
          ------------------------------------

     Use this subgroup to describe temporal variations in the emission
     rates given in 14b.  Factors entered multiply the rates in 14b.
     Skip sources here that have constant emissions.  For more elaborate
     variation in source parameters, use BAEMARB.DAT and NAR2 > 0.

     IVARY determines the type of variation, and is source-specific:
     (IVARY)                                Default: 0
           0 =       Constant
           1 =       Diurnal cycle (24 scaling factors: hours 1-24)
           2 =       Monthly cycle (12 scaling factors: months 1-12)
           3 =       Hour & Season (4 groups of 24 hourly scaling factors,
                                    where first group is DEC-JAN-FEB)
           4 =       Speed & Stab. (6 groups of 6 scaling factors, where
                                    first group is Stability Class A,
                                    and the speed classes have upper
                                    bounds (m/s) defined in Group 12
           5 =       Temperature   (12 scaling factors, where temperature
                                    classes have upper bounds (C) of:
                                    0, 5, 10, 15, 20, 25, 30, 35, 40,
                                    45, 50, 50+)



--------
    a
     Data for each species are treated as a separate input subgroup
     and therefore must end with an input group terminator.


-------------------------------------------------------------------------------
```

```
INPUT GROUPS: 15a, 15b, 15c -- Line source parameters
----------------------------

---------------
Subgroup (15a)
---------------

     Number of buoyant line sources
     with variable location and emission
     parameters (NLN2)                              No default  !  NLN2 =  0   !

     (If NLN2 > 0, ALL parameter data for
      these sources are read from the file: LNEMARB.DAT)

     Number of buoyant line sources (NLINES)        No default   ! NLINES =  0  !

     Units used for line source
     emissions below                (ILNU)          Default: 1  !  ILNU =   1  !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (15c)        (NSLN1) Default: 0  !  NSLN1 =  0  !

     Maximum number of segments used to model
     each line (MXNSEG)                             Default: 7   ! MXNSEG =  7  !

     The following variables are required only if NLINES > 0.  They are
     used in the buoyant line source plume rise calculations.

        Number of distances at which                Default: 6   ! NLRISE =  6  !
        transitional rise is computed

        Average line source length (XL)             No default   ! XL = 0. !
                                                    (in meters)

        Average height of line source height (HBL)  No default   ! HBL = 0. !
                                                    (in meters)

        Average building width (WBL)                No default   ! WBL = 0. !
                                                    (in meters)

        Average line source width (WML)             No default   ! WML = 0. !
                                                    (in meters)

        Average separation between buildings (DXL)  No default   ! DXL = 0. !
                                                    (in meters)

        Average buoyancy parameter (FPRIMEL)        No default   ! FPRIMEL = 0. !
                                                    (in m**4/s**3)

!END!
```

Subgroup (15b)

BUOYANT LINE SOURCE: CONSTANT DATA

Source Emission No.	Beg. X Coordinate (km)	Beg. Y Coordinate (km)	End. X Coordinate (km)	End. Y Coordinate (km)	Release Height (m)	Base Elevation (m)	Rates[a]

---

[a] Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

[b] An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by ILNTU (e.g. 1 for g/s).

Subgroup (15c)

BUOYANT LINE SOURCE: VARIABLE EMISSIONS DATA[a]

Use this subgroup to describe temporal variations in the emission rates given in 15b. Factors entered multiply the rates in 15b. Skip sources here that have constant emissions.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

0 =	Constant	
1 =	Diurnal cycle	(24 scaling factors: hours 1-24)
2 =	Monthly cycle	(12 scaling factors: months 1-12)
3 =	Hour & Season	(4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
4 =	Speed & Stab.	(6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
5 =	Temperature	(12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

```
INPUT GROUPS: 16a, 16b, 16c -- Volume source parameters
---------------------------

---------------
Subgroup (16a)
---------------

     Number of volume sources with
     parameters provided in 16b,c (NVL1)     No default  !  NVL1 =  0   !

     Units used for volume source
     emissions below in 16b       (IVLU)     Default: 1  !  IVLU =   1  !
           1 =        g/s
           2 =       kg/hr
           3 =       lb/hr
           4 =     tons/yr
           5 =     Odour Unit * m**3/s  (vol. flux of odour compound)
           6 =     Odour Unit * m**3/min

     Number of source-species
     combinations with variable
     emissions scaling factors
     provided below in (16c)      (NSVL1)    Default: 0  !  NSVL1 =  0  !

     Gridded volume source data
     used ? (IGRDVL)                         No default  ! IGRDVL =  0   !
        0 = no
        1 = yes (gridded volume source
            emissions read from the file:
            VOLEM.DAT)

     The following parameters apply to the data in the
     gridded volume source emissions file (VOLEM.DAT)

       -  Effective height of emissions
          (VEFFHT) in meters                 No default  ! VEFFHT =  0. !

       -  Initial sigma y (VSIGYI) in
          meters                             No default  ! VSIGYI =  0. !

       -  Initial sigma z (VSIGZI) in
          meters                             No default  ! VSIGZI =  0. !

!END!
```

Subgroup (16b)

VOLUME SOURCE: CONSTANT DATA[a]

X UTM Coordinate (km)	Y UTM Coordinate (km)	Effect. Height (m)	Base Elevation (m)	Initial Sigma y (m)	Initial Sigma z (m)	Emission Rates[b]

---

[a] Data for each source are treated as a separate input subgroup and therefore must end with an input group terminator.

[b] An emission rate must be entered for every pollutant modeled. Enter emission rate of zero for secondary pollutants that are modeled, but not emitted. Units are specified by IVLU (e.g. 1 for g/s).

Subgroup (16c)

VOLUME SOURCE: VARIABLE EMISSIONS DATA[a]

Use this subgroup to describe temporal variations in the emission rates given in 16b. Factors entered multiply the rates in 16b. Skip sources here that have constant emissions. For more elaborate variation in source parameters, use VOLEM.DAT and IGRDVL = 1.

IVARY determines the type of variation, and is source-specific:
(IVARY) Default: 0

- 0 = Constant
- 1 = Diurnal cycle (24 scaling factors: hours 1-24)
- 2 = Monthly cycle (12 scaling factors: months 1-12)
- 3 = Hour & Season (4 groups of 24 hourly scaling factors, where first group is DEC-JAN-FEB)
- 4 = Speed & Stab. (6 groups of 6 scaling factors, where first group is Stability Class A, and the speed classes have upper bounds (m/s) defined in Group 12
- 5 = Temperature (12 scaling factors, where temperature classes have upper bounds (C) of: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 50+)

---

[a] Data for each species are treated as a separate input subgroup and therefore must end with an input group terminator.

INPUT GROUPS: 17a & 17b -- Non-gridded (discrete) receptor information

---

Subgroup (17a)

Number of non-gridded receptors (NREC) No default ! NREC = 35 !

!END!

Subgroup (17b)

NON-GRIDDED (DISCRETE) RECEPTOR DATA[a]

Receptor No.	X UTM Coordinate (km)	Y UTM Coordinate (km)	Ground Elevation (m)		
1 ! X =	566.438,	4192.474,	319.000,	0.000!	!END!
2 ! X =	566.488,	4192.452,	316.000,	0.000!	!END!
3 ! X =	566.535,	4192.426,	329.000,	0.000!	!END!
4 ! X =	566.571,	4192.387,	320.000,	0.000!	!END!
5 ! X =	566.614,	4192.331,	308.000,	0.000!	!END!
6 ! X =	566.755,	4192.198,	283.000,	0.000!	!END!
7 ! X =	566.813,	4191.961,	239.000,	0.000!	!END!
8 ! X =	566.593,	4191.969,	207.000,	0.000!	!END!
9 ! X =	566.441,	4191.955,	226.000,	0.000!	!END!
10 ! X =	566.269,	4191.917,	210.000,	0.000!	!END!
11 ! X =	566.06,	4191.949,	230.000,	0.000!	!END!
12 ! X =	565.725,	4192.032,	155.000,	0.000!	!END!
13 ! X =	565.589,	4192.325,	175.000,	0.000!	!END!
14 ! X =	565.747,	4192.622,	259.000,	0.000!	!END!
15 ! X =	566.37,	4192.401,	343.000,	0.000!	!END!
16 ! X =	566.276,	4192.714,	357.000,	0.000!	!END!
17 ! X =	566.54,	4192.576,	384.000,	0.000!	!END!
18 ! X =	566.566,	4192.332,	332.000,	0.000!	!END!
19 ! X =	566.972,	4192.268,	265.000,	0.000!	!END!
20 ! X =	566.955,	4192.131,	246.000,	0.000!	!END!
21 ! X =	567.2,	4191.85,	236.000,	0.000!	!END!
22 ! X =	566.7,	4191.49,	285.000,	0.000!	!END!
23 ! X =	566.276,	4192.027,	262.000,	0.000!	!END!
24 ! X =	566.131,	4192.085,	268.000,	0.000!	!END!
25 ! X =	566.001,	4192.147,	238.000,	0.000!	!END!
26 ! X =	565.621,	4192.176,	160.000,	0.000!	!END!
27 ! X =	566.063,	4192.329,	244.000,	0.000!	!END!
28 ! X =	565.918,	4192.548,	251.000,	0.000!	!END!
29 ! X =	565.991,	4192.428,	264.000,	0.000!	!END!
30 ! X =	566.383,	4192.428,	344.000,	0.000!	!END!
31 ! X =	566.143,	4192.672,	338.000,	0.000!	!END!
32 ! X =	566.344,	4192.568,	335.000,	0.000!	!END!
33 ! X =	566.488,	4192.299,	297.000,	0.000!	!END!
34 ! X =	566.439,	4192.889,	378.000,	0.000!	!END!
35 ! X =	566.406,	4192.352,	325.000,	0.000!	!END!

---

[a] Data for each receptor are treated as a separate input subgroup and therefore must end with an input group terminator.

Table A.1 Concentrations Estimated using CALPUFF, assuming an annual release of 30 Ci

UTM-E (km)	UTM-N (km)	**Conc (pCi/m^3)**
564.560	4190.460	**--**
564.643	4190.460	**--**
564.727	4190.460	**--**
564.810	4190.460	**--**
564.893	4190.460	**--**
564.977	4190.460	**--**
565.060	4190.460	**0.010**
565.143	4190.460	**0.011**
565.227	4190.460	**0.012**
565.310	4190.460	**0.012**
565.393	4190.460	**0.013**
565.477	4190.460	**0.014**
565.560	4190.460	**0.015**
565.643	4190.460	**0.015**
565.727	4190.460	**0.016**
565.810	4190.460	**0.017**
565.893	4190.460	**0.018**
565.977	4190.460	**0.018**
566.060	4190.460	**0.019**
566.143	4190.460	**0.020**
566.227	4190.460	**0.021**
566.310	4190.460	**0.023**
566.393	4190.460	**0.023**
566.477	4190.460	**0.023**
566.560	4190.460	**0.024**
566.643	4190.460	**0.025**
566.727	4190.460	**0.027**
566.810	4190.460	**0.029**
566.893	4190.460	**0.034**
566.977	4190.460	**0.040**
567.060	4190.460	**0.049**
567.143	4190.460	**0.062**
567.227	4190.460	**0.080**
567.310	4190.460	**0.108**
567.393	4190.460	**0.121**
567.477	4190.460	**0.139**
567.560	4190.460	**0.161**
567.643	4190.460	**0.136**
567.727	4190.460	**0.118**
567.810	4190.460	**0.105**
567.893	4190.460	**0.119**
567.977	4190.460	**0.139**
568.060	4190.460	**0.166**
568.143	4190.460	**0.288**
568.227	4190.460	**0.562**
568.310	4190.460	**0.565**
564.560	4190.543	**--**
564.643	4190.543	**--**
564.727	4190.543	**--**
564.810	4190.543	**--**
564.893	4190.543	**--**
564.977	4190.543	**0.011**
565.060	4190.543	**0.011**
565.143	4190.543	**0.012**
565.227	4190.543	**0.013**

UTM-E (km)	UTM-N (km)	**Conc (pCi/m^3)**
564.643	4192.377	**0.013**
564.727	4192.377	**0.014**
564.810	4192.377	**0.016**
564.893	4192.377	**0.017**
564.977	4192.377	**0.019**
565.060	4192.377	**0.022**
565.143	4192.377	**0.024**
565.227	4192.377	**0.026**
565.310	4192.377	**0.029**
565.393	4192.377	**0.033**
565.477	4192.377	**0.039**
565.560	4192.377	**0.045**
565.643	4192.377	**0.055**
565.727	4192.377	**0.068**
565.810	4192.377	**0.087**
565.893	4192.377	**0.119**
565.977	4192.377	**0.170**
566.060	4192.377	**0.255**
566.143	4192.377	**0.424**
566.227	4192.377	**0.798**
566.310	4192.377	**1.889**
566.393	4192.377	**5.212**
566.477	4192.377	**10.146**
566.560	4192.377	**22.184**
566.643	4192.377	**13.118**
566.727	4192.377	**7.920**
566.810	4192.377	**5.254**
566.893	4192.377	**3.399**
566.977	4192.377	**2.379**
567.060	4192.377	**1.758**
567.143	4192.377	**1.637**
567.227	4192.377	**1.626**
567.310	4192.377	**1.753**
567.393	4192.377	**2.120**
567.477	4192.377	**2.895**
567.560	4192.377	**3.899**
567.643	4192.377	**3.852**
567.727	4192.377	**3.508**
567.810	4192.377	**3.197**
567.893	4192.377	**2.924**
567.977	4192.377	**2.675**
568.060	4192.377	**2.445**
568.143	4192.377	**2.228**
568.227	4192.377	**2.018**
568.310	4192.377	**1.810**
564.560	4192.460	**0.011**
564.643	4192.460	**0.013**
564.727	4192.460	**0.014**
564.810	4192.460	**0.015**
564.893	4192.460	**0.017**
564.977	4192.460	**0.019**
565.060	4192.460	**0.021**
565.143	4192.460	**0.023**
565.227	4192.460	**0.026**
565.310	4192.460	**0.029**

565.310	4190.543	**0.013**
565.393	4190.543	**0.014**
565.477	4190.543	**0.015**
565.560	4190.543	**0.016**
565.643	4190.543	**0.017**
565.727	4190.543	**0.018**
565.810	4190.543	**0.018**
565.893	4190.543	**0.019**
565.977	4190.543	**0.020**
566.060	4190.543	**0.021**
566.143	4190.543	**0.022**
566.227	4190.543	**0.023**
566.310	4190.543	**0.024**
566.393	4190.543	**0.025**
566.477	4190.543	**0.026**
566.560	4190.543	**0.027**
566.643	4190.543	**0.029**
566.727	4190.543	**0.032**
566.810	4190.543	**0.035**
566.893	4190.543	**0.040**
566.977	4190.543	**0.045**
567.060	4190.543	**0.052**
567.143	4190.543	**0.063**
567.227	4190.543	**0.076**
567.310	4190.543	**0.092**
567.393	4190.543	**0.109**
567.477	4190.543	**0.131**
567.560	4190.543	**0.164**
567.643	4190.543	**0.160**
567.727	4190.543	**0.155**
567.810	4190.543	**0.150**
567.893	4190.543	**0.180**
567.977	4190.543	**0.228**
568.060	4190.543	**0.302**
568.143	4190.543	**0.534**
568.227	4190.543	**0.665**
568.310	4190.543	**0.632**
564.560	4190.627	**--**
564.643	4190.627	**--**
564.727	4190.627	**--**
564.810	4190.627	**--**
564.893	4190.627	**0.010**
564.977	4190.627	**0.011**
565.060	4190.627	**0.012**
565.143	4190.627	**0.013**
565.227	4190.627	**0.013**
565.310	4190.627	**0.014**
565.393	4190.627	**0.015**
565.477	4190.627	**0.016**
565.560	4190.627	**0.017**
565.643	4190.627	**0.018**
565.727	4190.627	**0.019**
565.810	4190.627	**0.020**
565.893	4190.627	**0.021**
565.977	4190.627	**0.022**
566.060	4190.627	**0.023**
566.143	4190.627	**0.024**
566.227	4190.627	**0.025**

565.393	4192.460	**0.034**
565.477	4192.460	**0.039**
565.560	4192.460	**0.047**
565.643	4192.460	**0.057**
565.727	4192.460	**0.072**
565.810	4192.460	**0.093**
565.893	4192.460	**0.129**
565.977	4192.460	**0.188**
566.060	4192.460	**0.292**
566.143	4192.460	**0.537**
566.227	4192.460	**1.156**
566.310	4192.460	**2.923**
566.393	4192.460	**6.336**
566.477	4192.460	**11.224**
566.560	4192.460	**19.536**
566.643	4192.460	**15.337**
566.727	4192.460	**11.325**
566.810	4192.460	**8.487**
566.893	4192.460	**4.593**
566.977	4192.460	**2.865**
567.060	4192.460	**1.965**
567.143	4192.460	**2.003**
567.227	4192.460	**2.251**
567.310	4192.460	**2.885**
567.393	4192.460	**4.339**
567.477	4192.460	**4.371**
567.560	4192.460	**3.971**
567.643	4192.460	**3.607**
567.727	4192.460	**3.288**
567.810	4192.460	**3.006**
567.893	4192.460	**2.755**
567.977	4192.460	**2.526**
568.060	4192.460	**2.313**
568.143	4192.460	**2.112**
568.227	4192.460	**1.915**
568.310	4192.460	**1.721**
564.560	4192.543	**0.011**
564.643	4192.543	**0.012**
564.727	4192.543	**0.014**
564.810	4192.543	**0.015**
564.893	4192.543	**0.017**
564.977	4192.543	**0.019**
565.060	4192.543	**0.021**
565.143	4192.543	**0.024**
565.227	4192.543	**0.028**
565.310	4192.543	**0.032**
565.393	4192.543	**0.037**
565.477	4192.543	**0.044**
565.560	4192.543	**0.053**
565.643	4192.543	**0.068**
565.727	4192.543	**0.090**
565.810	4192.543	**0.123**
565.893	4192.543	**0.176**
565.977	4192.543	**0.268**
566.060	4192.543	**0.438**
566.143	4192.543	**0.816**
566.227	4192.543	**1.622**
566.310	4192.543	**3.183**

566.310	4190.627	**0.026**
566.393	4190.627	**0.027**
566.477	4190.627	**0.028**
566.560	4190.627	**0.030**
566.643	4190.627	**0.033**
566.727	4190.627	**0.037**
566.810	4190.627	**0.043**
566.893	4190.627	**0.047**
566.977	4190.627	**0.051**
567.060	4190.627	**0.056**
567.143	4190.627	**0.064**
567.227	4190.627	**0.072**
567.310	4190.627	**0.083**
567.393	4190.627	**0.102**
567.477	4190.627	**0.127**
567.560	4190.627	**0.167**
567.643	4190.627	**0.186**
567.727	4190.627	**0.209**
567.810	4190.627	**0.236**
567.893	4190.627	**0.313**
567.977	4190.627	**0.445**
568.060	4190.627	**0.665**
568.143	4190.627	**0.771**
568.227	4190.627	**0.746**
568.310	4190.627	**0.703**
564.560	4190.710	**--**
564.643	4190.710	**--**
564.727	4190.710	**--**
564.810	4190.710	**0.010**
564.893	4190.710	**0.011**
564.977	4190.710	**0.012**
565.060	4190.710	**0.013**
565.143	4190.710	**0.013**
565.227	4190.710	**0.014**
565.310	4190.710	**0.015**
565.393	4190.710	**0.016**
565.477	4190.710	**0.017**
565.560	4190.710	**0.018**
565.643	4190.710	**0.019**
565.727	4190.710	**0.020**
565.810	4190.710	**0.021**
565.893	4190.710	**0.022**
565.977	4190.710	**0.024**
566.060	4190.710	**0.025**
566.143	4190.710	**0.026**
566.227	4190.710	**0.027**
566.310	4190.710	**0.028**
566.393	4190.710	**0.029**
566.477	4190.710	**0.031**
566.560	4190.710	**0.033**
566.643	4190.710	**0.038**
566.727	4190.710	**0.044**
566.810	4190.710	**0.053**
566.893	4190.710	**0.055**
566.977	4190.710	**0.057**
567.060	4190.710	**0.059**
567.143	4190.710	**0.064**
567.227	4190.710	**0.070**

566.393	4192.543	**5.066**
566.477	4192.543	**8.343**
566.560	4192.543	**12.980**
566.643	4192.543	**13.679**
566.727	4192.543	**12.761**
566.810	4192.543	**11.116**
566.893	4192.543	**8.637**
566.977	4192.543	**5.010**
567.060	4192.543	**2.962**
567.143	4192.543	**3.405**
567.227	4192.543	**4.169**
567.310	4192.543	**4.662**
567.393	4192.543	**4.430**
567.477	4192.543	**4.022**
567.560	4192.543	**3.657**
567.643	4192.543	**3.337**
567.727	4192.543	**3.054**
567.810	4192.543	**2.802**
567.893	4192.543	**2.576**
567.977	4192.543	**2.368**
568.060	4192.543	**2.173**
568.143	4192.543	**1.988**
568.227	4192.543	**1.807**
568.310	4192.543	**1.627**
564.560	4192.627	**0.011**
564.643	4192.627	**0.012**
564.727	4192.627	**0.014**
564.810	4192.627	**0.015**
564.893	4192.627	**0.017**
564.977	4192.627	**0.019**
565.060	4192.627	**0.022**
565.143	4192.627	**0.026**
565.227	4192.627	**0.030**
565.310	4192.627	**0.036**
565.393	4192.627	**0.042**
565.477	4192.627	**0.051**
565.560	4192.627	**0.063**
565.643	4192.627	**0.085**
565.727	4192.627	**0.119**
565.810	4192.627	**0.173**
565.893	4192.627	**0.252**
565.977	4192.627	**0.387**
566.060	4192.627	**0.623**
566.143	4192.627	**1.077**
566.227	4192.627	**1.854**
566.310	4192.627	**3.006**
566.393	4192.627	**4.365**
566.477	4192.627	**6.710**
566.560	4192.627	**9.427**
566.643	4192.627	**10.329**
566.727	4192.627	**9.760**
566.810	4192.627	**8.861**
566.893	4192.627	**7.882**
566.977	4192.627	**6.946**
567.060	4192.627	**5.822**
567.143	4192.627	**5.417**
567.227	4192.627	**4.910**
567.310	4192.627	**4.432**

567.310	4190.710	**0.075**	567.393	4192.627	**4.024**
567.393	4190.710	**0.096**	567.477	4192.627	**3.664**
567.477	4190.710	**0.125**	567.560	4192.627	**3.349**
567.560	4190.710	**0.171**	567.643	4192.627	**3.070**
567.643	4190.710	**0.216**	567.727	4192.627	**2.823**
567.727	4190.710	**0.294**	567.810	4192.627	**2.600**
567.810	4190.710	**0.438**	567.893	4192.627	**2.398**
567.893	4190.710	**0.666**	567.977	4192.627	**2.210**
567.977	4190.710	**0.886**	568.060	4192.627	**2.034**
568.060	4190.710	**0.903**	568.143	4192.627	**1.864**
568.143	4190.710	**0.871**	568.227	4192.627	**1.698**
568.227	4190.710	**0.829**	568.310	4192.627	**1.532**
568.310	4190.710	**0.777**	564.560	4192.710	**0.011**
564.560	4190.793	**--**	564.643	4192.710	**0.012**
564.643	4190.793	**--**	564.727	4192.710	**0.014**
564.727	4190.793	**--**	564.810	4192.710	**0.015**
564.810	4190.793	**0.011**	564.893	4192.710	**0.017**
564.893	4190.793	**0.012**	564.977	4192.710	**0.020**
564.977	4190.793	**0.012**	565.060	4192.710	**0.023**
565.060	4190.793	**0.013**	565.143	4192.710	**0.028**
565.143	4190.793	**0.014**	565.227	4192.710	**0.034**
565.227	4190.793	**0.015**	565.310	4192.710	**0.041**
565.310	4190.793	**0.016**	565.393	4192.710	**0.050**
565.393	4190.793	**0.017**	565.477	4192.710	**0.062**
565.477	4190.793	**0.018**	565.560	4192.710	**0.077**
565.560	4190.793	**0.019**	565.643	4192.710	**0.110**
565.643	4190.793	**0.021**	565.727	4192.710	**0.162**
565.727	4190.793	**0.022**	565.810	4192.710	**0.250**
565.810	4190.793	**0.023**	565.893	4192.710	**0.361**
565.893	4190.793	**0.024**	565.977	4192.710	**0.538**
565.977	4190.793	**0.025**	566.060	4192.710	**0.826**
566.060	4190.793	**0.026**	566.143	4192.710	**1.316**
566.143	4190.793	**0.028**	566.227	4192.710	**2.020**
566.227	4190.793	**0.029**	566.310	4192.710	**3.002**
566.310	4190.793	**0.030**	566.393	4192.710	**4.193**
566.393	4190.793	**0.032**	566.477	4192.710	**5.756**
566.477	4190.793	**0.034**	566.560	4192.710	**7.253**
566.560	4190.793	**0.037**	566.643	4192.710	**7.719**
566.643	4190.793	**0.045**	566.727	4192.710	**7.480**
566.727	4190.793	**0.055**	566.810	4192.710	**7.067**
566.810	4190.793	**0.068**	566.893	4192.710	**6.510**
566.893	4190.793	**0.073**	566.977	4192.710	**5.914**
566.977	4190.793	**0.078**	567.060	4192.710	**5.348**
567.060	4190.793	**0.083**	567.143	4192.710	**4.840**
567.143	4190.793	**0.088**	567.227	4192.710	**4.390**
567.227	4190.793	**0.093**	567.310	4192.710	**3.992**
567.310	4190.793	**0.098**	567.393	4192.710	**3.643**
567.393	4190.793	**0.115**	567.477	4192.710	**3.336**
567.477	4190.793	**0.134**	567.560	4192.710	**3.065**
567.560	4190.793	**0.158**	567.643	4192.710	**2.822**
567.643	4190.793	**0.184**	567.727	4192.710	**2.604**
567.727	4190.793	**0.219**	567.810	4192.710	**2.408**
567.810	4190.793	**0.271**	567.893	4192.710	**2.227**
567.893	4190.793	**0.397**	567.977	4192.710	**2.058**
567.977	4190.793	**0.669**	568.060	4192.710	**1.898**
568.060	4190.793	**0.972**	568.143	4192.710	**1.744**
568.143	4190.793	**0.951**	568.227	4192.710	**1.591**
568.227	4190.793	**0.908**	568.310	4192.710	**1.439**

568.310	4190.793	**0.852**
564.560	4190.877	**--**
564.643	4190.877	**--**
564.727	4190.877	**0.010**
564.810	4190.877	**0.011**
564.893	4190.877	**0.012**
564.977	4190.877	**0.013**
565.060	4190.877	**0.014**
565.143	4190.877	**0.015**
565.227	4190.877	**0.016**
565.310	4190.877	**0.017**
565.393	4190.877	**0.018**
565.477	4190.877	**0.019**
565.560	4190.877	**0.021**
565.643	4190.877	**0.022**
565.727	4190.877	**0.023**
565.810	4190.877	**0.024**
565.893	4190.877	**0.026**
565.977	4190.877	**0.027**
566.060	4190.877	**0.028**
566.143	4190.877	**0.030**
566.227	4190.877	**0.031**
566.310	4190.877	**0.033**
566.393	4190.877	**0.035**
566.477	4190.877	**0.039**
566.560	4190.877	**0.043**
566.643	4190.877	**0.053**
566.727	4190.877	**0.069**
566.810	4190.877	**0.089**
566.893	4190.877	**0.099**
566.977	4190.877	**0.109**
567.060	4190.877	**0.119**
567.143	4190.877	**0.123**
567.227	4190.877	**0.127**
567.310	4190.877	**0.130**
567.393	4190.877	**0.137**
567.477	4190.877	**0.144**
567.560	4190.877	**0.150**
567.643	4190.877	**0.167**
567.727	4190.877	**0.185**
567.810	4190.877	**0.207**
567.893	4190.877	**0.278**
567.977	4190.877	**0.445**
568.060	4190.877	**0.890**
568.143	4190.877	**0.866**
568.227	4190.877	**0.829**
568.310	4190.877	**0.783**
564.560	4190.960	**--**
564.643	4190.960	**--**
564.727	4190.960	**0.010**
564.810	4190.960	**0.011**
564.893	4190.960	**0.012**
564.977	4190.960	**0.013**
565.060	4190.960	**0.014**
565.143	4190.960	**0.016**
565.227	4190.960	**0.017**
565.310	4190.960	**0.018**
565.393	4190.960	**0.019**

564.560	4192.793	**0.011**
564.643	4192.793	**0.012**
564.727	4192.793	**0.014**
564.810	4192.793	**0.015**
564.893	4192.793	**0.018**
564.977	4192.793	**0.021**
565.060	4192.793	**0.025**
565.143	4192.793	**0.030**
565.227	4192.793	**0.037**
565.310	4192.793	**0.046**
565.393	4192.793	**0.058**
565.477	4192.793	**0.074**
565.560	4192.793	**0.096**
565.643	4192.793	**0.143**
565.727	4192.793	**0.222**
565.810	4192.793	**0.366**
565.893	4192.793	**0.531**
565.977	4192.793	**0.788**
566.060	4192.793	**1.188**
566.143	4192.793	**1.965**
566.227	4192.793	**3.317**
566.310	4192.793	**5.331**
566.393	4192.793	**5.873**
566.477	4192.793	**6.050**
566.560	4192.793	**6.045**
566.643	4192.793	**5.982**
566.727	4192.793	**5.888**
566.810	4192.793	**5.692**
566.893	4192.793	**5.388**
566.977	4192.793	**5.021**
567.060	4192.793	**4.629**
567.143	4192.793	**4.250**
567.227	4192.793	**3.900**
567.310	4192.793	**3.583**
567.393	4192.793	**3.298**
567.477	4192.793	**3.040**
567.560	4192.793	**2.806**
567.643	4192.793	**2.595**
567.727	4192.793	**2.405**
567.810	4192.793	**2.230**
567.893	4192.793	**2.068**
567.977	4192.793	**1.915**
568.060	4192.793	**1.771**
568.143	4192.793	**1.629**
568.227	4192.793	**1.489**
568.310	4192.793	**1.351**
564.560	4192.877	**0.011**
564.643	4192.877	**0.012**
564.727	4192.877	**0.014**
564.810	4192.877	**0.016**
564.893	4192.877	**0.019**
564.977	4192.877	**0.022**
565.060	4192.877	**0.027**
565.143	4192.877	**0.033**
565.227	4192.877	**0.041**
565.310	4192.877	**0.053**
565.393	4192.877	**0.068**
565.477	4192.877	**0.089**

565.477	4190.960	**0.020**
565.560	4190.960	**0.022**
565.643	4190.960	**0.023**
565.727	4190.960	**0.024**
565.810	4190.960	**0.026**
565.893	4190.960	**0.027**
565.977	4190.960	**0.029**
566.060	4190.960	**0.030**
566.143	4190.960	**0.032**
566.227	4190.960	**0.034**
566.310	4190.960	**0.035**
566.393	4190.960	**0.039**
566.477	4190.960	**0.043**
566.560	4190.960	**0.049**
566.643	4190.960	**0.064**
566.727	4190.960	**0.086**
566.810	4190.960	**0.118**
566.893	4190.960	**0.136**
566.977	4190.960	**0.156**
567.060	4190.960	**0.179**
567.143	4190.960	**0.178**
567.227	4190.960	**0.177**
567.310	4190.960	**0.175**
567.393	4190.960	**0.164**
567.477	4190.960	**0.154**
567.560	4190.960	**0.145**
567.643	4190.960	**0.156**
567.727	4190.960	**0.167**
567.810	4190.960	**0.178**
567.893	4190.960	**0.226**
567.977	4190.960	**0.330**
568.060	4190.960	**0.652**
568.143	4190.960	**0.566**
568.227	4190.960	**0.487**
568.310	4190.960	**0.415**
564.560	4191.043	**--**
564.643	4191.043	**--**
564.727	4191.043	**0.011**
564.810	4191.043	**0.012**
564.893	4191.043	**0.013**
564.977	4191.043	**0.014**
565.060	4191.043	**0.015**
565.143	4191.043	**0.016**
565.227	4191.043	**0.017**
565.310	4191.043	**0.019**
565.393	4191.043	**0.020**
565.477	4191.043	**0.022**
565.560	4191.043	**0.023**
565.643	4191.043	**0.025**
565.727	4191.043	**0.026**
565.810	4191.043	**0.027**
565.893	4191.043	**0.029**
565.977	4191.043	**0.031**
566.060	4191.043	**0.033**
566.143	4191.043	**0.035**
566.227	4191.043	**0.037**
566.310	4191.043	**0.039**
566.393	4191.043	**0.044**

565.560	4192.877	**0.120**
565.643	4192.877	**0.186**
565.727	4192.877	**0.307**
565.810	4192.877	**0.562**
565.893	4192.877	**0.828**
565.977	4192.877	**1.244**
566.060	4192.877	**1.892**
566.143	4192.877	**3.372**
566.227	4192.877	**4.615**
566.310	4192.877	**4.815**
566.393	4192.877	**4.836**
566.477	4192.877	**4.845**
566.560	4192.877	**4.821**
566.643	4192.877	**4.780**
566.727	4192.877	**4.743**
566.810	4192.877	**4.661**
566.893	4192.877	**4.502**
566.977	4192.877	**4.275**
567.060	4192.877	**4.008**
567.143	4192.877	**3.728**
567.227	4192.877	**3.459**
567.310	4192.877	**3.209**
567.393	4192.877	**2.978**
567.477	4192.877	**2.766**
567.560	4192.877	**2.570**
567.643	4192.877	**2.389**
567.727	4192.877	**2.222**
567.810	4192.877	**2.067**
567.893	4192.877	**1.922**
567.977	4192.877	**1.785**
568.060	4192.877	**1.653**
568.143	4192.877	**1.523**
568.227	4192.877	**1.395**
568.310	4192.877	**1.267**
564.560	4192.960	**0.011**
564.643	4192.960	**0.012**
564.727	4192.960	**0.014**
564.810	4192.960	**0.016**
564.893	4192.960	**0.020**
564.977	4192.960	**0.024**
565.060	4192.960	**0.029**
565.143	4192.960	**0.037**
565.227	4192.960	**0.047**
565.310	4192.960	**0.060**
565.393	4192.960	**0.080**
565.477	4192.960	**0.108**
565.560	4192.960	**0.148**
565.643	4192.960	**0.242**
565.727	4192.960	**0.436**
565.810	4192.960	**0.959**
565.893	4192.960	**1.451**
565.977	4192.960	**2.183**
566.060	4192.960	**3.158**
566.143	4192.960	**3.703**
566.227	4192.960	**3.890**
566.310	4192.960	**3.951**
566.393	4192.960	**3.965**
566.477	4192.960	**3.956**

566.477	4191.043	**0.051**
566.560	4191.043	**0.061**
566.643	4191.043	**0.081**
566.727	4191.043	**0.109**
566.810	4191.043	**0.149**
566.893	4191.043	**0.178**
566.977	4191.043	**0.212**
567.060	4191.043	**0.256**
567.143	4191.043	**0.255**
567.227	4191.043	**0.253**
567.310	4191.043	**0.251**
567.393	4191.043	**0.232**
567.477	4191.043	**0.216**
567.560	4191.043	**0.202**
567.643	4191.043	**0.201**
567.727	4191.043	**0.198**
567.810	4191.043	**0.195**
567.893	4191.043	**0.232**
567.977	4191.043	**0.301**
568.060	4191.043	**0.463**
568.143	4191.043	**0.575**
568.227	4191.043	**0.742**
568.310	4191.043	**0.942**
564.560	4191.127	**--**
564.643	4191.127	**--**
564.727	4191.127	**0.011**
564.810	4191.127	**0.012**
564.893	4191.127	**0.013**
564.977	4191.127	**0.014**
565.060	4191.127	**0.015**
565.143	4191.127	**0.017**
565.227	4191.127	**0.018**
565.310	4191.127	**0.019**
565.393	4191.127	**0.021**
565.477	4191.127	**0.023**
565.560	4191.127	**0.025**
565.643	4191.127	**0.026**
565.727	4191.127	**0.028**
565.810	4191.127	**0.029**
565.893	4191.127	**0.031**
565.977	4191.127	**0.034**
566.060	4191.127	**0.036**
566.143	4191.127	**0.038**
566.227	4191.127	**0.040**
566.310	4191.127	**0.043**
566.393	4191.127	**0.051**
566.477	4191.127	**0.061**
566.560	4191.127	**0.076**
566.643	4191.127	**0.102**
566.727	4191.127	**0.138**
566.810	4191.127	**0.193**
566.893	4191.127	**0.240**
566.977	4191.127	**0.306**
567.060	4191.127	**0.405**
567.143	4191.127	**0.406**
567.227	4191.127	**0.405**
567.310	4191.127	**0.402**
567.393	4191.127	**0.361**

566.560	4192.960	**3.933**
566.643	4192.960	**3.914**
566.727	4192.960	**3.901**
566.810	4192.960	**3.872**
566.893	4192.960	**3.794**
566.977	4192.960	**3.658**
567.060	4192.960	**3.476**
567.143	4192.960	**3.275**
567.227	4192.960	**3.070**
567.310	4192.960	**2.872**
567.393	4192.960	**2.687**
567.477	4192.960	**2.511**
567.560	4192.960	**2.348**
567.643	4192.960	**2.195**
567.727	4192.960	**2.053**
567.810	4192.960	**1.917**
567.893	4192.960	**1.788**
567.977	4192.960	**1.665**
568.060	4192.960	**1.546**
568.143	4192.960	**1.427**
568.227	4192.960	**1.309**
568.310	4192.960	**1.191**
564.560	4193.043	**0.011**
564.643	4193.043	**0.013**
564.727	4193.043	**0.015**
564.810	4193.043	**0.017**
564.893	4193.043	**0.021**
564.977	4193.043	**0.026**
565.060	4193.043	**0.032**
565.143	4193.043	**0.039**
565.227	4193.043	**0.049**
565.310	4193.043	**0.061**
565.393	4193.043	**0.082**
565.477	4193.043	**0.113**
565.560	4193.043	**0.157**
565.643	4193.043	**0.236**
565.727	4193.043	**0.372**
565.810	4193.043	**0.639**
565.893	4193.043	**0.994**
565.977	4193.043	**1.620**
566.060	4193.043	**2.626**
566.143	4193.043	**3.167**
566.227	4193.043	**3.280**
566.310	4193.043	**3.302**
566.393	4193.043	**3.303**
566.477	4193.043	**3.287**
566.560	4193.043	**3.269**
566.643	4193.043	**3.260**
566.727	4193.043	**3.258**
566.810	4193.043	**3.257**
566.893	4193.043	**3.224**
566.977	4193.043	**3.144**
567.060	4193.043	**3.026**
567.143	4193.043	**2.883**
567.227	4193.043	**2.730**
567.310	4193.043	**2.575**
567.393	4193.043	**2.424**
567.477	4193.043	**2.279**

567.477	4191.127	**0.327**
567.560	4191.127	**0.297**
567.643	4191.127	**0.263**
567.727	4191.127	**0.235**
567.810	4191.127	**0.212**
567.893	4191.127	**0.240**
567.977	4191.127	**0.282**
568.060	4191.127	**0.359**
568.143	4191.127	**0.581**
568.227	4191.127	**1.130**
568.310	4191.127	**1.199**
564.560	4191.210	**--**
564.643	4191.210	**--**
564.727	4191.210	**0.011**
564.810	4191.210	**0.012**
564.893	4191.210	**0.013**
564.977	4191.210	**0.015**
565.060	4191.210	**0.016**
565.143	4191.210	**0.017**
565.227	4191.210	**0.019**
565.310	4191.210	**0.020**
565.393	4191.210	**0.022**
565.477	4191.210	**0.024**
565.560	4191.210	**0.026**
565.643	4191.210	**0.028**
565.727	4191.210	**0.029**
565.810	4191.210	**0.031**
565.893	4191.210	**0.033**
565.977	4191.210	**0.036**
566.060	4191.210	**0.039**
566.143	4191.210	**0.042**
566.227	4191.210	**0.045**
566.310	4191.210	**0.048**
566.393	4191.210	**0.058**
566.477	4191.210	**0.074**
566.560	4191.210	**0.097**
566.643	4191.210	**0.131**
566.727	4191.210	**0.181**
566.810	4191.210	**0.258**
566.893	4191.210	**0.345**
566.977	4191.210	**0.492**
567.060	4191.210	**0.758**
567.143	4191.210	**0.780**
567.227	4191.210	**0.798**
567.310	4191.210	**0.810**
567.393	4191.210	**0.704**
567.477	4191.210	**0.614**
567.560	4191.210	**0.538**
567.643	4191.210	**0.364**
567.727	4191.210	**0.280**
567.810	4191.210	**0.230**
567.893	4191.210	**0.247**
567.977	4191.210	**0.270**
568.060	4191.210	**0.302**
568.143	4191.210	**0.586**
568.227	4191.210	**1.382**
568.310	4191.210	**1.300**
564.560	4191.293	**--**

567.560	4193.043	**2.143**
567.643	4193.043	**2.015**
567.727	4193.043	**1.893**
567.810	4193.043	**1.776**
567.893	4193.043	**1.664**
567.977	4193.043	**1.554**
568.060	4193.043	**1.446**
568.143	4193.043	**1.338**
568.227	4193.043	**1.230**
568.310	4193.043	**1.119**
564.560	4193.127	**0.011**
564.643	4193.127	**0.013**
564.727	4193.127	**0.015**
564.810	4193.127	**0.018**
564.893	4193.127	**0.022**
564.977	4193.127	**0.028**
565.060	4193.127	**0.035**
565.143	4193.127	**0.042**
565.227	4193.127	**0.051**
565.310	4193.127	**0.062**
565.393	4193.127	**0.084**
565.477	4193.127	**0.117**
565.560	4193.127	**0.163**
565.643	4193.127	**0.227**
565.727	4193.127	**0.321**
565.810	4193.127	**0.464**
565.893	4193.127	**0.714**
565.977	4193.127	**1.196**
566.060	4193.127	**2.146**
566.143	4193.127	**2.711**
566.227	4193.127	**2.785**
566.310	4193.127	**2.790**
566.393	4193.127	**2.787**
566.477	4193.127	**2.772**
566.560	4193.127	**2.758**
566.643	4193.127	**2.755**
566.727	4193.127	**2.756**
566.810	4193.127	**2.763**
566.893	4193.127	**2.753**
566.977	4193.127	**2.715**
567.060	4193.127	**2.641**
567.143	4193.127	**2.544**
567.227	4193.127	**2.430**
567.310	4193.127	**2.312**
567.393	4193.127	**2.190**
567.477	4193.127	**2.071**
567.560	4193.127	**1.957**
567.643	4193.127	**1.848**
567.727	4193.127	**1.744**
567.810	4193.127	**1.642**
567.893	4193.127	**1.545**
567.977	4193.127	**1.448**
568.060	4193.127	**1.351**
568.143	4193.127	**1.254**
568.227	4193.127	**1.155**
568.310	4193.127	**1.053**
564.560	4193.210	**0.012**
564.643	4193.210	**0.014**

564.643	4191.293	**0.010**
564.727	4191.293	**0.011**
564.810	4191.293	**0.012**
564.893	4191.293	**0.014**
564.977	4191.293	**0.015**
565.060	4191.293	**0.016**
565.143	4191.293	**0.018**
565.227	4191.293	**0.019**
565.310	4191.293	**0.021**
565.393	4191.293	**0.023**
565.477	4191.293	**0.025**
565.560	4191.293	**0.027**
565.643	4191.293	**0.029**
565.727	4191.293	**0.031**
565.810	4191.293	**0.033**
565.893	4191.293	**0.036**
565.977	4191.293	**0.039**
566.060	4191.293	**0.042**
566.143	4191.293	**0.046**
566.227	4191.293	**0.050**
566.310	4191.293	**0.056**
566.393	4191.293	**0.067**
566.477	4191.293	**0.086**
566.560	4191.293	**0.113**
566.643	4191.293	**0.151**
566.727	4191.293	**0.205**
566.810	4191.293	**0.283**
566.893	4191.293	**0.395**
566.977	4191.293	**0.606**
567.060	4191.293	**1.061**
567.143	4191.293	**1.040**
567.227	4191.293	**1.013**
567.310	4191.293	**0.974**
567.393	4191.293	**0.972**
567.477	4191.293	**0.961**
567.560	4191.293	**0.944**
567.643	4191.293	**0.594**
567.727	4191.293	**0.417**
567.810	4191.293	**0.325**
567.893	4191.293	**0.315**
567.977	4191.293	**0.304**
568.060	4191.293	**0.291**
568.143	4191.293	**0.474**
568.227	4191.293	**1.251**
568.310	4191.293	**1.402**
564.560	4191.377	**--**
564.643	4191.377	**0.011**
564.727	4191.377	**0.012**
564.810	4191.377	**0.013**
564.893	4191.377	**0.014**
564.977	4191.377	**0.015**
565.060	4191.377	**0.017**
565.143	4191.377	**0.018**
565.227	4191.377	**0.020**
565.310	4191.377	**0.022**
565.393	4191.377	**0.024**
565.477	4191.377	**0.026**
565.560	4191.377	**0.029**

564.727	4193.210	**0.016**
564.810	4193.210	**0.019**
564.893	4193.210	**0.024**
564.977	4193.210	**0.030**
565.060	4193.210	**0.039**
565.143	4193.210	**0.045**
565.227	4193.210	**0.053**
565.310	4193.210	**0.062**
565.393	4193.210	**0.085**
565.477	4193.210	**0.119**
565.560	4193.210	**0.167**
565.643	4193.210	**0.215**
565.727	4193.210	**0.277**
565.810	4193.210	**0.354**
565.893	4193.210	**0.534**
565.977	4193.210	**0.899**
566.060	4193.210	**1.747**
566.143	4193.210	**2.323**
566.227	4193.210	**2.383**
566.310	4193.210	**2.381**
566.393	4193.210	**2.377**
566.477	4193.210	**2.365**
566.560	4193.210	**2.354**
566.643	4193.210	**2.354**
566.727	4193.210	**2.356**
566.810	4193.210	**2.364**
566.893	4193.210	**2.369**
566.977	4193.210	**2.354**
567.060	4193.210	**2.314**
567.143	4193.210	**2.250**
567.227	4193.210	**2.169**
567.310	4193.210	**2.077**
567.393	4193.210	**1.981**
567.477	4193.210	**1.885**
567.560	4193.210	**1.790**
567.643	4193.210	**1.697**
567.727	4193.210	**1.605**
567.810	4193.210	**1.518**
567.893	4193.210	**1.432**
567.977	4193.210	**1.347**
568.060	4193.210	**1.261**
568.143	4193.210	**1.173**
568.227	4193.210	**1.083**
568.310	4193.210	**0.990**
564.560	4193.293	**0.013**
564.643	4193.293	**0.015**
564.727	4193.293	**0.018**
564.810	4193.293	**0.021**
564.893	4193.293	**0.026**
564.977	4193.293	**0.033**
565.060	4193.293	**0.041**
565.143	4193.293	**0.049**
565.227	4193.293	**0.059**
565.310	4193.293	**0.071**
565.393	4193.293	**0.096**
565.477	4193.293	**0.132**
565.560	4193.293	**0.183**
565.643	4193.293	**0.238**

565.643	4191.377	**0.031**
565.727	4191.377	**0.033**
565.810	4191.377	**0.035**
565.893	4191.377	**0.038**
565.977	4191.377	**0.042**
566.060	4191.377	**0.045**
566.143	4191.377	**0.051**
566.227	4191.377	**0.057**
566.310	4191.377	**0.065**
566.393	4191.377	**0.079**
566.477	4191.377	**0.101**
566.560	4191.377	**0.133**
566.643	4191.377	**0.176**
566.727	4191.377	**0.234**
566.810	4191.377	**0.314**
566.893	4191.377	**0.457**
566.977	4191.377	**0.759**
567.060	4191.377	**1.539**
567.143	4191.377	**1.416**
567.227	4191.377	**1.295**
567.310	4191.377	**1.174**
567.393	4191.377	**1.383**
567.477	4191.377	**1.653**
567.560	4191.377	**1.926**
567.643	4191.377	**1.221**
567.727	4191.377	**0.797**
567.810	4191.377	**0.565**
567.893	4191.377	**0.427**
567.977	4191.377	**0.343**
568.060	4191.377	**0.284**
568.143	4191.377	**0.399**
568.227	4191.377	**0.812**
568.310	4191.377	**1.494**
564.560	4191.460	**--**
564.643	4191.460	**0.011**
564.727	4191.460	**0.012**
564.810	4191.460	**0.013**
564.893	4191.460	**0.015**
564.977	4191.460	**0.016**
565.060	4191.460	**0.017**
565.143	4191.460	**0.019**
565.227	4191.460	**0.021**
565.310	4191.460	**0.023**
565.393	4191.460	**0.025**
565.477	4191.460	**0.027**
565.560	4191.460	**0.030**
565.643	4191.460	**0.033**
565.727	4191.460	**0.035**
565.810	4191.460	**0.038**
565.893	4191.460	**0.041**
565.977	4191.460	**0.045**
566.060	4191.460	**0.049**
566.143	4191.460	**0.056**
566.227	4191.460	**0.065**
566.310	4191.460	**0.076**
566.393	4191.460	**0.094**
566.477	4191.460	**0.120**
566.560	4191.460	**0.158**

565.727	4193.293	**0.309**
565.810	4193.293	**0.404**
565.893	4193.293	**0.609**
565.977	4193.293	**1.030**
566.060	4193.293	**1.836**
566.143	4193.293	**2.042**
566.227	4193.293	**2.052**
566.310	4193.293	**2.052**
566.393	4193.293	**2.049**
566.477	4193.293	**2.040**
566.560	4193.293	**2.034**
566.643	4193.293	**2.033**
566.727	4193.293	**2.037**
566.810	4193.293	**2.043**
566.893	4193.293	**2.054**
566.977	4193.293	**2.052**
567.060	4193.293	**2.034**
567.143	4193.293	**1.995**
567.227	4193.293	**1.940**
567.310	4193.293	**1.872**
567.393	4193.293	**1.796**
567.477	4193.293	**1.718**
567.560	4193.293	**1.638**
567.643	4193.293	**1.558**
567.727	4193.293	**1.480**
567.810	4193.293	**1.403**
567.893	4193.293	**1.327**
567.977	4193.293	**1.251**
568.060	4193.293	**1.174**
568.143	4193.293	**1.096**
568.227	4193.293	**1.013**
568.310	4193.293	**0.928**
564.560	4193.377	**0.014**
564.643	4193.377	**0.017**
564.727	4193.377	**0.020**
564.810	4193.377	**0.024**
564.893	4193.377	**0.029**
564.977	4193.377	**0.036**
565.060	4193.377	**0.044**
565.143	4193.377	**0.053**
565.227	4193.377	**0.065**
565.310	4193.377	**0.080**
565.393	4193.377	**0.107**
565.477	4193.377	**0.145**
565.560	4193.377	**0.198**
565.643	4193.377	**0.260**
565.727	4193.377	**0.346**
565.810	4193.377	**0.472**
565.893	4193.377	**0.718**
565.977	4193.377	**1.191**
566.060	4193.377	**1.739**
566.143	4193.377	**1.787**
566.227	4193.377	**1.786**
566.310	4193.377	**1.785**
566.393	4193.377	**1.783**
566.477	4193.377	**1.777**
566.560	4193.377	**1.773**
566.643	4193.377	**1.774**

566.643	4191.460	**0.207**
566.727	4191.460	**0.271**
566.810	4191.460	**0.352**
566.893	4191.460	**0.533**
566.977	4191.460	**0.966**
567.060	4191.460	**2.221**
567.143	4191.460	**1.978**
567.227	4191.460	**1.682**
567.310	4191.460	**1.422**
567.393	4191.460	**2.045**
567.477	4191.460	**2.509**
567.560	4191.460	**2.576**
567.643	4191.460	**2.437**
567.727	4191.460	**2.108**
567.810	4191.460	**1.547**
567.893	4191.460	**0.660**
567.977	4191.460	**0.389**
568.060	4191.460	**0.280**
568.143	4191.460	**0.353**
568.227	4191.460	**0.565**
568.310	4191.460	**1.314**
564.560	4191.543	**0.010**
564.643	4191.543	**0.011**
564.727	4191.543	**0.012**
564.810	4191.543	**0.014**
564.893	4191.543	**0.015**
564.977	4191.543	**0.016**
565.060	4191.543	**0.018**
565.143	4191.543	**0.020**
565.227	4191.543	**0.021**
565.310	4191.543	**0.023**
565.393	4191.543	**0.026**
565.477	4191.543	**0.029**
565.560	4191.543	**0.032**
565.643	4191.543	**0.035**
565.727	4191.543	**0.037**
565.810	4191.543	**0.040**
565.893	4191.543	**0.044**
565.977	4191.543	**0.048**
566.060	4191.543	**0.053**
566.143	4191.543	**0.060**
566.227	4191.543	**0.069**
566.310	4191.543	**0.080**
566.393	4191.543	**0.097**
566.477	4191.543	**0.125**
566.560	4191.543	**0.166**
566.643	4191.543	**0.219**
566.727	4191.543	**0.289**
566.810	4191.543	**0.372**
566.893	4191.543	**0.489**
566.977	4191.543	**0.661**
567.060	4191.543	**0.985**
567.143	4191.543	**0.984**
567.227	4191.543	**0.969**
567.310	4191.543	**0.945**
567.393	4191.543	**1.294**
567.477	4191.543	**1.930**
567.560	4191.543	**2.657**

566.727	4193.377	**1.776**
566.810	4193.377	**1.773**
566.893	4193.377	**1.792**
566.977	4193.377	**1.800**
567.060	4193.377	**1.796**
567.143	4193.377	**1.775**
567.227	4193.377	**1.739**
567.310	4193.377	**1.690**
567.393	4193.377	**1.632**
567.477	4193.377	**1.568**
567.560	4193.377	**1.500**
567.643	4193.377	**1.432**
567.727	4193.377	**1.365**
567.810	4193.377	**1.298**
567.893	4193.377	**1.230**
567.977	4193.377	**1.161**
568.060	4193.377	**1.092**
568.143	4193.377	**1.021**
568.227	4193.377	**0.946**
568.310	4193.377	**0.868**
564.560	4193.460	**0.016**
564.643	4193.460	**0.019**
564.727	4193.460	**0.022**
564.810	4193.460	**0.027**
564.893	4193.460	**0.032**
564.977	4193.460	**0.038**
565.060	4193.460	**0.046**
565.143	4193.460	**0.057**
565.227	4193.460	**0.071**
565.310	4193.460	**0.089**
565.393	4193.460	**0.118**
565.477	4193.460	**0.157**
565.560	4193.460	**0.212**
565.643	4193.460	**0.284**
565.727	4193.460	**0.392**
565.810	4193.460	**0.576**
565.893	4193.460	**0.878**
565.977	4193.460	**1.364**
566.060	4193.460	**1.561**
566.143	4193.460	**1.571**
566.227	4193.460	**1.566**
566.310	4193.460	**1.566**
566.393	4193.460	**1.565**
566.477	4193.460	**1.561**
566.560	4193.460	**1.558**
566.643	4193.460	**1.560**
566.727	4193.460	**1.556**
566.810	4193.460	**1.474**
566.893	4193.460	**1.511**
566.977	4193.460	**1.542**
567.060	4193.460	**1.561**
567.143	4193.460	**1.573**
567.227	4193.460	**1.558**
567.310	4193.460	**1.526**
567.393	4193.460	**1.482**
567.477	4193.460	**1.432**
567.560	4193.460	**1.376**
567.643	4193.460	**1.318**

567.643	4191.543	**2.503**
567.727	4191.543	**2.341**
567.810	4191.543	**2.172**
567.893	4191.543	**1.298**
567.977	4191.543	**0.808**
568.060	4191.543	**0.554**
568.143	4191.543	**0.720**
568.227	4191.543	**1.036**
568.310	4191.543	**1.512**
564.560	4191.627	**0.011**
564.643	4191.627	**0.012**
564.727	4191.627	**0.013**
564.810	4191.627	**0.014**
564.893	4191.627	**0.015**
564.977	4191.627	**0.017**
565.060	4191.627	**0.018**
565.143	4191.627	**0.020**
565.227	4191.627	**0.022**
565.310	4191.627	**0.024**
565.393	4191.627	**0.027**
565.477	4191.627	**0.030**
565.560	4191.627	**0.034**
565.643	4191.627	**0.037**
565.727	4191.627	**0.040**
565.810	4191.627	**0.043**
565.893	4191.627	**0.048**
565.977	4191.627	**0.053**
566.060	4191.627	**0.058**
566.143	4191.627	**0.065**
566.227	4191.627	**0.074**
566.310	4191.627	**0.083**
566.393	4191.627	**0.101**
566.477	4191.627	**0.131**
566.560	4191.627	**0.176**
566.643	4191.627	**0.237**
566.727	4191.627	**0.313**
566.810	4191.627	**0.405**
566.893	4191.627	**0.481**
566.977	4191.627	**0.558**
567.060	4191.627	**0.637**
567.143	4191.627	**0.667**
567.227	4191.627	**0.694**
567.310	4191.627	**0.721**
567.393	4191.627	**0.914**
567.477	4191.627	**1.267**
567.560	4191.627	**1.994**
567.643	4191.627	**2.353**
567.727	4191.627	**2.595**
567.810	4191.627	**2.664**
567.893	4191.627	**2.528**
567.977	4191.627	**2.386**
568.060	4191.627	**2.238**
568.143	4191.627	**2.063**
568.227	4191.627	**1.878**
568.310	4191.627	**1.685**
564.560	4191.710	**0.011**
564.643	4191.710	**0.012**
564.727	4191.710	**0.013**

567.727	4193.460	**1.260**
567.810	4193.460	**1.200**
567.893	4193.460	**1.140**
567.977	4193.460	**1.079**
568.060	4193.460	**1.016**
568.143	4193.460	**0.950**
568.227	4193.460	**0.882**
568.310	4193.460	**0.811**
564.560	4193.543	**0.017**
564.643	4193.543	**0.021**
564.727	4193.543	**0.025**
564.810	4193.543	**0.031**
564.893	4193.543	**0.037**
564.977	4193.543	**0.044**
565.060	4193.543	**0.052**
565.143	4193.543	**0.064**
565.227	4193.543	**0.080**
565.310	4193.543	**0.098**
565.393	4193.543	**0.129**
565.477	4193.543	**0.172**
565.560	4193.543	**0.232**
565.643	4193.543	**0.295**
565.727	4193.543	**0.384**
565.810	4193.543	**0.517**
565.893	4193.543	**0.807**
565.977	4193.543	**1.271**
566.060	4193.543	**1.388**
566.143	4193.543	**1.388**
566.227	4193.543	**1.383**
566.310	4193.543	**1.384**
566.393	4193.543	**1.384**
566.477	4193.543	**1.381**
566.560	4193.543	**1.380**
566.643	4193.543	**1.381**
566.727	4193.543	**1.361**
566.810	4193.543	**1.151**
566.893	4193.543	**1.187**
566.977	4193.543	**1.224**
567.060	4193.543	**1.257**
567.143	4193.543	**1.361**
567.227	4193.543	**1.390**
567.310	4193.543	**1.378**
567.393	4193.543	**1.347**
567.477	4193.543	**1.308**
567.560	4193.543	**1.263**
567.643	4193.543	**1.214**
567.727	4193.543	**1.163**
567.810	4193.543	**1.110**
567.893	4193.543	**1.057**
567.977	4193.543	**1.001**
568.060	4193.543	**0.944**
568.143	4193.543	**0.884**
568.227	4193.543	**0.821**
568.310	4193.543	**0.756**
564.560	4193.627	**0.018**
564.643	4193.627	**0.023**
564.727	4193.627	**0.028**
564.810	4193.627	**0.035**

564.810	4191.710	**0.015**
564.893	4191.710	**0.016**
564.977	4191.710	**0.017**
565.060	4191.710	**0.019**
565.143	4191.710	**0.021**
565.227	4191.710	**0.023**
565.310	4191.710	**0.025**
565.393	4191.710	**0.028**
565.477	4191.710	**0.032**
565.560	4191.710	**0.036**
565.643	4191.710	**0.039**
565.727	4191.710	**0.042**
565.810	4191.710	**0.046**
565.893	4191.710	**0.052**
565.977	4191.710	**0.058**
566.060	4191.710	**0.064**
566.143	4191.710	**0.071**
566.227	4191.710	**0.078**
566.310	4191.710	**0.088**
566.393	4191.710	**0.107**
566.477	4191.710	**0.139**
566.560	4191.710	**0.191**
566.643	4191.710	**0.262**
566.727	4191.710	**0.350**
566.810	4191.710	**0.451**
566.893	4191.710	**0.495**
566.977	4191.710	**0.525**
567.060	4191.710	**0.540**
567.143	4191.710	**0.571**
567.227	4191.710	**0.599**
567.310	4191.710	**0.630**
567.393	4191.710	**0.730**
567.477	4191.710	**0.936**
567.560	4191.710	**1.352**
567.643	4191.710	**1.987**
567.727	4191.710	**2.860**
567.810	4191.710	**2.982**
567.893	4191.710	**2.833**
567.977	4191.710	**2.656**
568.060	4191.710	**2.474**
568.143	4191.710	**2.285**
568.227	4191.710	**2.087**
568.310	4191.710	**1.816**
564.560	4191.793	**0.012**
564.643	4191.793	**0.013**
564.727	4191.793	**0.014**
564.810	4191.793	**0.015**
564.893	4191.793	**0.017**
564.977	4191.793	**0.018**
565.060	4191.793	**0.020**
565.143	4191.793	**0.022**
565.227	4191.793	**0.024**
565.310	4191.793	**0.026**
565.393	4191.793	**0.029**
565.477	4191.793	**0.033**
565.560	4191.793	**0.037**
565.643	4191.793	**0.041**
565.727	4191.793	**0.046**

564.893	4193.627	**0.042**
564.977	4193.627	**0.049**
565.060	4193.627	**0.059**
565.143	4193.627	**0.072**
565.227	4193.627	**0.088**
565.310	4193.627	**0.107**
565.393	4193.627	**0.141**
565.477	4193.627	**0.186**
565.560	4193.627	**0.253**
565.643	4193.627	**0.306**
565.727	4193.627	**0.374**
565.810	4193.627	**0.463**
565.893	4193.627	**0.741**
565.977	4193.627	**1.173**
566.060	4193.627	**1.237**
566.143	4193.627	**1.233**
566.227	4193.627	**1.229**
566.310	4193.627	**1.230**
566.393	4193.627	**1.231**
566.477	4193.627	**1.230**
566.560	4193.627	**1.229**
566.643	4193.627	**1.229**
566.727	4193.627	**1.164**
566.810	4193.627	**0.871**
566.893	4193.627	**0.883**
566.977	4193.627	**0.898**
567.060	4193.627	**0.913**
567.143	4193.627	**1.086**
567.227	4193.627	**1.209**
567.310	4193.627	**1.238**
567.393	4193.627	**1.224**
567.477	4193.627	**1.194**
567.560	4193.627	**1.158**
567.643	4193.627	**1.118**
567.727	4193.627	**1.074**
567.810	4193.627	**1.028**
567.893	4193.627	**0.979**
567.977	4193.627	**0.929**
568.060	4193.627	**0.877**
568.143	4193.627	**0.822**
568.227	4193.627	**0.764**
568.310	4193.627	**0.704**
564.560	4193.710	**0.019**
564.643	4193.710	**0.024**
564.727	4193.710	**0.031**
564.810	4193.710	**0.040**
564.893	4193.710	**0.047**
564.977	4193.710	**0.056**
565.060	4193.710	**0.065**
565.143	4193.710	**0.079**
565.227	4193.710	**0.096**
565.310	4193.710	**0.116**
565.393	4193.710	**0.152**
565.477	4193.710	**0.202**
565.560	4193.710	**0.279**
565.643	4193.710	**0.319**
565.727	4193.710	**0.363**
565.810	4193.710	**0.414**

565.810	4191.793	**0.050**
565.893	4191.793	**0.058**
565.977	4191.793	**0.066**
566.060	4191.793	**0.075**
566.143	4191.793	**0.085**
566.227	4191.793	**0.098**
566.310	4191.793	**0.114**
566.393	4191.793	**0.134**
566.477	4191.793	**0.168**
566.560	4191.793	**0.221**
566.643	4191.793	**0.302**
566.727	4191.793	**0.396**
566.810	4191.793	**0.491**
566.893	4191.793	**0.535**
566.977	4191.793	**0.557**
567.060	4191.793	**0.563**
567.143	4191.793	**0.587**
567.227	4191.793	**0.604**
567.310	4191.793	**0.623**
567.393	4191.793	**0.696**
567.477	4191.793	**0.841**
567.560	4191.793	**1.180**
567.643	4191.793	**1.383**
567.727	4191.793	**1.677**
567.810	4191.793	**2.106**
567.893	4191.793	**2.946**
567.977	4191.793	**2.789**
568.060	4191.793	**2.581**
568.143	4191.793	**2.371**
568.227	4191.793	**2.160**
568.310	4191.793	**1.944**
564.560	4191.877	**0.012**
564.643	4191.877	**0.013**
564.727	4191.877	**0.014**
564.810	4191.877	**0.016**
564.893	4191.877	**0.017**
564.977	4191.877	**0.019**
565.060	4191.877	**0.021**
565.143	4191.877	**0.023**
565.227	4191.877	**0.025**
565.310	4191.877	**0.027**
565.393	4191.877	**0.030**
565.477	4191.877	**0.034**
565.560	4191.877	**0.039**
565.643	4191.877	**0.043**
565.727	4191.877	**0.049**
565.810	4191.877	**0.055**
565.893	4191.877	**0.065**
565.977	4191.877	**0.076**
566.060	4191.877	**0.089**
566.143	4191.877	**0.105**
566.227	4191.877	**0.125**
566.310	4191.877	**0.154**
566.393	4191.877	**0.172**
566.477	4191.877	**0.207**
566.560	4191.877	**0.267**
566.643	4191.877	**0.367**
566.727	4191.877	**0.471**

565.893	4193.710	**0.679**
565.977	4193.710	**1.073**
566.060	4193.710	**1.104**
566.143	4193.710	**1.100**
566.227	4193.710	**1.097**
566.310	4193.710	**1.099**
566.393	4193.710	**1.100**
566.477	4193.710	**1.100**
566.560	4193.710	**1.100**
566.643	4193.710	**1.094**
566.727	4193.710	**0.941**
566.810	4193.710	**0.664**
566.893	4193.710	**0.660**
566.977	4193.710	**0.660**
567.060	4193.710	**0.660**
567.143	4193.710	**0.815**
567.227	4193.710	**0.991**
567.310	4193.710	**1.099**
567.393	4193.710	**1.107**
567.477	4193.710	**1.089**
567.560	4193.710	**1.061**
567.643	4193.710	**1.028**
567.727	4193.710	**0.991**
567.810	4193.710	**0.951**
567.893	4193.710	**0.908**
567.977	4193.710	**0.862**
568.060	4193.710	**0.814**
568.143	4193.710	**0.764**
568.227	4193.710	**0.711**
568.310	4193.710	**0.655**
564.560	4193.793	**0.021**
564.643	4193.793	**0.026**
564.727	4193.793	**0.034**
564.810	4193.793	**0.043**
564.893	4193.793	**0.051**
564.977	4193.793	**0.060**
565.060	4193.793	**0.070**
565.143	4193.793	**0.085**
565.227	4193.793	**0.105**
565.310	4193.793	**0.128**
565.393	4193.793	**0.164**
565.477	4193.793	**0.216**
565.560	4193.793	**0.296**
565.643	4193.793	**0.358**
565.727	4193.793	**0.438**
565.810	4193.793	**0.544**
565.893	4193.793	**0.765**
565.977	4193.793	**0.968**
566.060	4193.793	**0.988**
566.143	4193.793	**0.984**
566.227	4193.793	**0.982**
566.310	4193.793	**0.984**
566.393	4193.793	**0.986**
566.477	4193.793	**0.985**
566.560	4193.793	**0.975**
566.643	4193.793	**0.867**
566.727	4193.793	**0.661**
566.810	4193.793	**0.503**

566.810	4191.877	**0.563**	566.893	4193.793	**0.551**
566.893	4191.877	**0.602**	566.977	4193.793	**0.607**
566.977	4191.877	**0.615**	567.060	4193.793	**0.669**
567.060	4191.877	**0.608**	567.143	4193.793	**0.868**
567.143	4191.877	**0.620**	567.227	4193.793	**1.003**
567.227	4191.877	**0.628**	567.310	4193.793	**1.020**
567.310	4191.877	**0.636**	567.393	4193.793	**1.011**
567.393	4191.877	**0.690**	567.477	4193.793	**0.994**
567.477	4191.877	**0.795**	567.560	4193.793	**0.971**
567.560	4191.877	**1.061**	567.643	4193.793	**0.944**
567.643	4191.877	**1.048**	567.727	4193.793	**0.913**
567.727	4191.877	**1.038**	567.810	4193.793	**0.878**
567.810	4191.877	**1.031**	567.893	4193.793	**0.840**
567.893	4191.877	**2.333**	567.977	4193.793	**0.799**
567.977	4191.877	**2.878**	568.060	4193.793	**0.755**
568.060	4191.877	**2.656**	568.143	4193.793	**0.709**
568.143	4191.877	**2.430**	568.227	4193.793	**0.660**
568.227	4191.877	**2.205**	568.310	4193.793	**0.609**
568.310	4191.877	**1.981**	564.560	4193.877	**0.022**
564.560	4191.960	**0.012**	564.643	4193.877	**0.028**
564.643	4191.960	**0.013**	564.727	4193.877	**0.036**
564.727	4191.960	**0.015**	564.810	4193.877	**0.046**
564.810	4191.960	**0.016**	564.893	4193.877	**0.054**
564.893	4191.960	**0.018**	564.977	4193.877	**0.063**
564.977	4191.960	**0.020**	565.060	4193.877	**0.073**
565.060	4191.960	**0.022**	565.143	4193.877	**0.091**
565.143	4191.960	**0.023**	565.227	4193.877	**0.113**
565.227	4191.960	**0.025**	565.310	4193.877	**0.140**
565.310	4191.960	**0.028**	565.393	4193.877	**0.178**
565.393	4191.960	**0.031**	565.477	4193.877	**0.232**
565.477	4191.960	**0.035**	565.560	4193.877	**0.316**
565.560	4191.960	**0.040**	565.643	4193.877	**0.412**
565.643	4191.960	**0.046**	565.727	4193.877	**0.551**
565.727	4191.960	**0.053**	565.810	4193.877	**0.743**
565.810	4191.960	**0.061**	565.893	4193.877	**0.834**
565.893	4191.960	**0.073**	565.977	4193.877	**0.873**
565.977	4191.960	**0.089**	566.060	4193.877	**0.882**
566.060	4191.960	**0.107**	566.143	4193.877	**0.880**
566.143	4191.960	**0.134**	566.227	4193.877	**0.881**
566.227	4191.960	**0.166**	566.310	4193.877	**0.884**
566.310	4191.960	**0.213**	566.393	4193.877	**0.882**
566.393	4191.960	**0.223**	566.477	4193.877	**0.845**
566.477	4191.960	**0.263**	566.560	4193.877	**0.700**
566.560	4191.960	**0.335**	566.643	4193.877	**0.573**
566.643	4191.960	**0.472**	566.727	4193.877	**0.468**
566.727	4191.960	**0.598**	566.810	4193.877	**0.389**
566.810	4191.960	**0.685**	566.893	4193.877	**0.462**
566.893	4191.960	**0.713**	566.977	4193.877	**0.558**
566.977	4191.960	**0.705**	567.060	4193.877	**0.677**
567.060	4191.960	**0.676**	567.143	4193.877	**0.875**
567.143	4191.960	**0.671**	567.227	4193.877	**0.920**
567.227	4191.960	**0.665**	567.310	4193.877	**0.922**
567.310	4191.960	**0.662**	567.393	4193.877	**0.916**
567.393	4191.960	**0.701**	567.477	4193.877	**0.904**
567.477	4191.960	**0.777**	567.560	4193.877	**0.887**
567.560	4191.960	**0.972**	567.643	4193.877	**0.865**
567.643	4191.960	**0.860**	567.727	4193.877	**0.839**
567.727	4191.960	**0.763**	567.810	4193.877	**0.809**

567.810	4191.960	**0.680**
567.893	4191.960	**1.314**
567.977	4191.960	**2.889**
568.060	4191.960	**2.700**
568.143	4191.960	**2.463**
568.227	4191.960	**2.231**
568.310	4191.960	**2.000**
564.560	4192.043	**0.012**
564.643	4192.043	**0.014**
564.727	4192.043	**0.015**
564.810	4192.043	**0.016**
564.893	4192.043	**0.018**
564.977	4192.043	**0.020**
565.060	4192.043	**0.022**
565.143	4192.043	**0.024**
565.227	4192.043	**0.026**
565.310	4192.043	**0.029**
565.393	4192.043	**0.032**
565.477	4192.043	**0.037**
565.560	4192.043	**0.042**
565.643	4192.043	**0.049**
565.727	4192.043	**0.058**
565.810	4192.043	**0.069**
565.893	4192.043	**0.086**
565.977	4192.043	**0.110**
566.060	4192.043	**0.141**
566.143	4192.043	**0.183**
566.227	4192.043	**0.235**
566.310	4192.043	**0.308**
566.393	4192.043	**0.331**
566.477	4192.043	**0.428**
566.560	4192.043	**0.620**
566.643	4192.043	**0.870**
566.727	4192.043	**1.031**
566.810	4192.043	**1.079**
566.893	4192.043	**1.039**
566.977	4192.043	**0.961**
567.060	4192.043	**0.871**
567.143	4192.043	**0.834**
567.227	4192.043	**0.806**
567.310	4192.043	**0.785**
567.393	4192.043	**0.798**
567.477	4192.043	**0.840**
567.560	4192.043	**0.947**
567.643	4192.043	**1.077**
567.727	4192.043	**1.306**
567.810	4192.043	**1.734**
567.893	4192.043	**2.914**
567.977	4192.043	**2.957**
568.060	4192.043	**2.714**
568.143	4192.043	**2.472**
568.227	4192.043	**2.236**
568.310	4192.043	**2.002**
564.560	4192.127	**0.012**
564.643	4192.127	**0.014**
564.727	4192.127	**0.015**
564.810	4192.127	**0.017**
564.893	4192.127	**0.018**

567.893	4193.877	**0.776**
567.977	4193.877	**0.739**
568.060	4193.877	**0.700**
568.143	4193.877	**0.657**
568.227	4193.877	**0.612**
568.310	4193.877	**0.565**
564.560	4193.960	**0.023**
564.643	4193.960	**0.030**
564.727	4193.960	**0.038**
564.810	4193.960	**0.048**
564.893	4193.960	**0.057**
564.977	4193.960	**0.066**
565.060	4193.960	**0.076**
565.143	4193.960	**0.096**
565.227	4193.960	**0.121**
565.310	4193.960	**0.155**
565.393	4193.960	**0.195**
565.477	4193.960	**0.252**
565.560	4193.960	**0.340**
565.643	4193.960	**0.483**
565.727	4193.960	**0.699**
565.810	4193.960	**0.797**
565.893	4193.960	**0.795**
565.977	4193.960	**0.788**
566.060	4193.960	**0.777**
566.143	4193.960	**0.775**
566.227	4193.960	**0.775**
566.310	4193.960	**0.778**
566.393	4193.960	**0.687**
566.477	4193.960	**0.547**
566.560	4193.960	**0.433**
566.643	4193.960	**0.383**
566.727	4193.960	**0.341**
566.810	4193.960	**0.305**
566.893	4193.960	**0.389**
566.977	4193.960	**0.514**
567.060	4193.960	**0.683**
567.143	4193.960	**0.816**
567.227	4193.960	**0.828**
567.310	4193.960	**0.831**
567.393	4193.960	**0.829**
567.477	4193.960	**0.821**
567.560	4193.960	**0.808**
567.643	4193.960	**0.790**
567.727	4193.960	**0.768**
567.810	4193.960	**0.743**
567.893	4193.960	**0.714**
567.977	4193.960	**0.682**
568.060	4193.960	**0.646**
568.143	4193.960	**0.607**
568.227	4193.960	**0.566**
568.310	4193.960	**0.523**
564.560	4194.043	**0.025**
564.643	4194.043	**0.031**
564.727	4194.043	**0.039**
564.810	4194.043	**0.049**
564.893	4194.043	**0.059**
564.977	4194.043	**0.070**

564.977	4192.127	**0.021**	565.060	4194.043	**0.084**
565.060	4192.127	**0.023**	565.143	4194.043	**0.104**
565.143	4192.127	**0.025**	565.227	4194.043	**0.130**
565.227	4192.127	**0.027**	565.310	4194.043	**0.164**
565.310	4192.127	**0.029**	565.393	4194.043	**0.214**
565.393	4192.127	**0.033**	565.477	4194.043	**0.292**
565.477	4192.127	**0.038**	565.560	4194.043	**0.420**
565.560	4192.127	**0.043**	565.643	4194.043	**0.505**
565.643	4192.127	**0.052**	565.727	4194.043	**0.607**
565.727	4192.127	**0.063**	565.810	4194.043	**0.691**
565.810	4192.127	**0.077**	565.893	4194.043	**0.657**
565.893	4192.127	**0.100**	565.977	4194.043	**0.611**
565.977	4192.127	**0.136**	566.060	4194.043	**0.562**
566.060	4192.127	**0.188**	566.143	4194.043	**0.521**
566.143	4192.127	**0.261**	566.227	4194.043	**0.487**
566.227	4192.127	**0.364**	566.310	4194.043	**0.456**
566.310	4192.127	**0.499**	566.393	4194.043	**0.431**
566.393	4192.127	**0.534**	566.477	4194.043	**0.406**
566.477	4192.127	**0.776**	566.560	4194.043	**0.382**
566.560	4192.127	**1.404**	566.643	4194.043	**0.335**
566.643	4192.127	**1.847**	566.727	4194.043	**0.297**
566.727	4192.127	**1.909**	566.810	4194.043	**0.264**
566.810	4192.127	**1.734**	566.893	4194.043	**0.366**
566.893	4192.127	**1.505**	566.977	4194.043	**0.534**
566.977	4192.127	**1.286**	567.060	4194.043	**0.715**
567.060	4192.127	**1.099**	567.143	4194.043	**0.738**
567.143	4192.127	**1.015**	567.227	4194.043	**0.743**
567.227	4192.127	**0.956**	567.310	4194.043	**0.747**
567.310	4192.127	**0.915**	567.393	4194.043	**0.747**
567.393	4192.127	**0.895**	567.477	4194.043	**0.742**
567.477	4192.127	**0.896**	567.560	4194.043	**0.733**
567.560	4192.127	**0.929**	567.643	4194.043	**0.719**
567.643	4192.127	**1.371**	567.727	4194.043	**0.700**
567.727	4192.127	**2.959**	567.810	4194.043	**0.679**
567.810	4192.127	**3.530**	567.893	4194.043	**0.654**
567.893	4192.127	**3.229**	567.977	4194.043	**0.625**
567.977	4192.127	**2.953**	568.060	4194.043	**0.594**
568.060	4192.127	**2.696**	568.143	4194.043	**0.559**
568.143	4192.127	**2.454**	568.227	4194.043	**0.522**
568.227	4192.127	**2.217**	568.310	4194.043	**0.482**
568.310	4192.127	**1.984**	564.560	4194.127	**0.026**
564.560	4192.210	**0.012**	564.643	4194.127	**0.032**
564.643	4192.210	**0.013**	564.727	4194.127	**0.040**
564.727	4192.210	**0.015**	564.810	4194.127	**0.049**
564.810	4192.210	**0.016**	564.893	4194.127	**0.060**
564.893	4192.210	**0.018**	564.977	4194.127	**0.074**
564.977	4192.210	**0.021**	565.060	4194.127	**0.092**
565.060	4192.210	**0.023**	565.143	4194.127	**0.113**
565.143	4192.210	**0.025**	565.227	4194.127	**0.139**
565.227	4192.210	**0.027**	565.310	4194.127	**0.174**
565.310	4192.210	**0.029**	565.393	4194.127	**0.240**
565.393	4192.210	**0.033**	565.477	4194.127	**0.349**
565.477	4192.210	**0.038**	565.560	4194.127	**0.529**
565.560	4192.210	**0.044**	565.643	4194.127	**0.527**
565.643	4192.210	**0.054**	565.727	4194.127	**0.523**
565.727	4192.210	**0.067**	565.810	4194.127	**0.517**
565.810	4192.210	**0.084**	565.893	4194.127	**0.460**
565.893	4192.210	**0.115**	565.977	4194.127	**0.412**

565.977	4192.210	**0.166**	566.060	4194.127	**0.370**
566.060	4192.210	**0.248**	566.143	4194.127	**0.322**
566.143	4192.210	**0.378**	566.227	4194.127	**0.285**
566.227	4192.210	**0.605**	566.310	4194.127	**0.253**
566.310	4192.210	**1.005**	566.393	4194.127	**0.278**
566.393	4192.210	**1.092**	566.477	4194.127	**0.305**
566.477	4192.210	**1.654**	566.560	4194.127	**0.336**
566.560	4192.210	**4.455**	566.643	4194.127	**0.293**
566.643	4192.210	**4.617**	566.727	4194.127	**0.258**
566.727	4192.210	**3.634**	566.810	4194.127	**0.228**
566.810	4192.210	**2.703**	566.893	4194.127	**0.344**
566.893	4192.210	**2.086**	566.977	4194.127	**0.554**
566.977	4192.210	**1.645**	567.060	4194.127	**0.656**
567.060	4192.210	**1.330**	567.143	4194.127	**0.661**
567.143	4192.210	**1.193**	567.227	4194.127	**0.665**
567.227	4192.210	**1.104**	567.310	4194.127	**0.668**
567.310	4192.210	**1.044**	567.393	4194.127	**0.670**
567.393	4192.210	**0.982**	567.477	4194.127	**0.667**
567.477	4192.210	**0.936**	567.560	4194.127	**0.661**
567.560	4192.210	**0.906**	567.643	4194.127	**0.650**
567.643	4192.210	**1.799**	567.727	4194.127	**0.635**
567.727	4192.210	**3.808**	567.810	4194.127	**0.617**
567.810	4192.210	**3.481**	567.893	4194.127	**0.595**
567.893	4192.210	**3.175**	567.977	4194.127	**0.570**
567.977	4192.210	**2.899**	568.060	4194.127	**0.543**
568.060	4192.210	**2.641**	568.143	4194.127	**0.512**
568.143	4192.210	**2.406**	568.227	4194.127	**0.478**
568.227	4192.210	**2.174**	568.310	4194.127	**0.443**
568.310	4192.210	**1.946**	564.560	4194.210	**0.027**
564.560	4192.293	**0.012**	564.643	4194.210	**0.033**
564.643	4192.293	**0.013**	564.727	4194.210	**0.040**
564.727	4192.293	**0.015**	564.810	4194.210	**0.048**
564.810	4192.293	**0.016**	564.893	4194.210	**0.061**
564.893	4192.293	**0.018**	564.977	4194.210	**0.078**
564.977	4192.293	**0.020**	565.060	4194.210	**0.101**
565.060	4192.293	**0.022**	565.143	4194.210	**0.123**
565.143	4192.293	**0.024**	565.227	4194.210	**0.151**
565.227	4192.293	**0.027**	565.310	4194.210	**0.187**
565.310	4192.293	**0.029**	565.393	4194.210	**0.274**
565.393	4192.293	**0.033**	565.477	4194.210	**0.424**
565.477	4192.293	**0.038**	565.560	4194.210	**0.567**
565.560	4192.293	**0.045**	565.643	4194.210	**0.535**
565.643	4192.293	**0.054**	565.727	4194.210	**0.448**
565.727	4192.293	**0.067**	565.810	4194.210	**0.368**
565.810	4192.293	**0.085**	565.893	4194.210	**0.320**
565.893	4192.293	**0.117**	565.977	4194.210	**0.280**
565.977	4192.293	**0.167**	566.060	4194.210	**0.249**
566.060	4192.293	**0.250**	566.143	4194.210	**0.209**
566.143	4192.293	**0.398**	566.227	4194.210	**0.180**
566.227	4192.293	**0.690**	566.310	4194.210	**0.157**
566.310	4192.293	**1.364**	566.393	4194.210	**0.188**
566.393	4192.293	**2.036**	566.477	4194.210	**0.231**
566.477	4192.293	**2.488**	566.560	4194.210	**0.294**
566.560	4192.293	**17.917**	566.643	4194.210	**0.255**
566.643	4192.293	**10.141**	566.727	4194.210	**0.222**
566.727	4192.293	**6.025**	566.810	4194.210	**0.196**
566.810	4192.293	**3.945**	566.893	4194.210	**0.322**
566.893	4192.293	**2.750**	566.977	4194.210	**0.552**

566.977	4192.293	**2.029**
567.060	4192.293	**1.561**
567.143	4192.293	**1.406**
567.227	4192.293	**1.322**
567.310	4192.293	**1.293**
567.393	4192.293	**1.305**
567.477	4192.293	**1.394**
567.560	4192.293	**1.562**
567.643	4192.293	**3.594**
567.727	4192.293	**3.692**
567.810	4192.293	**3.362**
567.893	4192.293	**3.069**
567.977	4192.293	**2.804**
568.060	4192.293	**2.559**
568.143	4192.293	**2.329**
568.227	4192.293	**2.106**
568.310	4192.293	**1.886**
564.560	4192.377	**0.012**

567.060	4194.210	**0.586**
567.143	4194.210	**0.589**
567.227	4194.210	**0.592**
567.310	4194.210	**0.596**
567.393	4194.210	**0.598**
567.477	4194.210	**0.597**
567.560	4194.210	**0.592**
567.643	4194.210	**0.584**
567.727	4194.210	**0.572**
567.810	4194.210	**0.556**
567.893	4194.210	**0.538**
567.977	4194.210	**0.516**
568.060	4194.210	**0.492**
568.143	4194.210	**0.465**
568.227	4194.210	**0.435**
568.310	4194.210	**0.404**