APPENDIX G

RADTRAD NUCLIDE INFORMATION FILES (".NIF")

Columbia.nif

```
Nuclide Inventory Name:
 Normalized Columbia 3556 MWth BWR
Core Inventory
 Power Level:
  0.1000E+01
 Nuclides:
  60
 Nuclide 001:
 Co-58
   7
  0.6117120000E+07
  0.5800E+02
  0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 002:
 Co-60
   7
  0.1663401096E+09
  0.6000E+02
  0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 003:
 Kr-85
   1
  0.3382974720E+09
  0.8500E+02
  0.4110E+03
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 004:
 Kr-85m
   1
  0.1612800000E+05
  0.8500E+02
  0.7350E+04
 Kr-85     0.2100E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 005:
 Kr-87
   1
  0.4578000000E+04
  0.8700E+02
  0.1340E+05
 Rb-87     0.1000E+01
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 006:
 Kr-88
   1
  0.1022400000E+05
  0.8800E+02
  0.1900E+05
 Rb-88     0.1000E+01
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 007:
 Rb-86
   3
  0.1612224000E+07
  0.8600E+02
  0.4470E+02
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 008:
 Sr-89
   5
  0.4363200000E+07
  0.8900E+02
  0.2020E+05
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 009:
 Sr-90
   5
  0.9189573120E+09
  0.9000E+02
  0.3340E+04
 Y-90      0.1000E+01
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 010:
 Sr-91
   5
  0.3420000000E+05
  0.9100E+02
  0.2590E+05
 Y-91m     0.5800E+00
 Y-91      0.4200E+00
```

```
none      0.0000E+00
Nuclide 011:
Sr-92
  5
 0.9756000000E+04
 0.9200E+02
 0.3010E+05
Y-92      0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 012:
Y-90
  9
 0.2304000000E+06
 0.9000E+02
 0.2040E+04
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 013:
Y-91
  9
 0.5055264000E+07
 0.9100E+02
 0.2730E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 014:
Y-92
  9
 0.1274400000E+05
 0.9200E+02
 0.2900E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 015:
Y-93
  9
 0.3636000000E+05
 0.9300E+02
 0.3560E+05
Zr-93     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 016:
Zr-95
  9
 0.5527872000E+07
 0.9500E+02
 0.4270E+05
Nb-95m    0.7000E-02
Nb-95     0.9900E+00
none      0.0000E+00
Nuclide 017:
Zr-97
  9
 0.6084000000E+05
 0.9700E+02
 0.4330E+05
Nb-97m    0.9500E+00
Nb-97     0.5300E-01
none      0.0000E+00
Nuclide 018:
Nb-95
  9
 0.3036960000E+07
 0.9500E+02
 0.4270E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 019:
Mo-99
  7
 0.2376000000E+06
 0.9900E+02
 0.4900E+05
Tc-99m    0.8800E+00
Tc-99     0.1200E+00
none      0.0000E+00
Nuclide 020:
Tc-99m
  7
 0.2167200000E+05
 0.9900E+02
 0.4340E+05
Tc-99     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 021:
Ru-103
  7
 0.3393792000E+07
 0.1030E+03
 0.4700E+05
Rh-103m   0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 022:
Ru-105
  7
 0.1598400000E+05
 0.1050E+03
 0.3460E+05
Rh-105    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 023:
Ru-106
  7
 0.3181248000E+08
 0.1060E+03
```

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 0.2040E+05
Rh-106    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 024:
Rh-105
  7
 0.1272960000E+06
 0.1050E+03
 0.3270E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 025:
Sb-127
  4
 0.3326400000E+06
 0.1270E+03
 0.3310E+04
Te-127m   0.1800E+00
Te-127    0.8200E+00
none      0.0000E+00
Nuclide 026:
Sb-129
  4
 0.1555200000E+05
 0.1290E+03
 0.9480E+04
Te-129m   0.2200E+00
Te-129    0.7700E+00
none      0.0000E+00
Nuclide 027:
Te-127
  4
 0.3366000000E+05
 0.1270E+03
 0.3310E+04
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 028:
Te-127m
  4
 0.9417600000E+07
 0.1270E+03
 0.4660E+03
Te-127    0.9800E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 029:
Te-129
  4
 0.4176000000E+04
 0.1290E+03
 0.8900E+04
I-129     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 030:
Te-129m
  4
 0.2903040000E+07
 0.1290E+03
 0.1390E+04
Te-129    0.6500E+00
I-129     0.3500E+00
none      0.0000E+00
Nuclide 031:
Te-131m
  4
 0.1080000000E+06
 0.1310E+03
 0.4200E+04
Te-131    0.2200E+00
I-131     0.7800E+00
none      0.0000E+00
Nuclide 032:
Te-132
  4
 0.2815200000E+06
 0.1320E+03
 0.3990E+05
I-132     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 033:
I-131
  2
 0.6946560000E+06
 0.1310E+03
 0.2790E+05
Xe-131m   0.1100E-01
none      0.0000E+00
none      0.0000E+00
Nuclide 034:
I-132
  2
 0.8280000000E+04
 0.1320E+03
 0.3940E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 035:
I-133
  2
 0.7488000000E+05
 0.1330E+03
 0.5440E+05
Xe-133m   0.2900E-01
Xe-133    0.9700E+00
none      0.0000E+00
Nuclide 036:
I-134
```

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  2
 0.3156000000E+04
 0.1340E+03
 0.6030E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 037:
I-135
  2
 0.2379600000E+05
 0.1350E+03
 0.5030E+05
Xe-135m   0.1500E+00
Xe-135    0.8500E+00
none      0.0000E+00
Nuclide 038:
Xe-133
  1
 0.4531680000E+06
 0.1330E+03
 0.5430E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 039:
Xe-135
  1
 0.3272400000E+05
 0.1350E+03
 0.1310E+05
Cs-135    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 040:
Cs-134
  3
 0.6507177120E+08
 0.1340E+03
 0.6270E+04
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 041:
Cs-136
  3
 0.1131840000E+07
 0.1360E+03
 0.1390E+04
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 042:
Cs-137
  3
 0.9467280000E+09
 0.1370E+03
 0.5050E+04
Ba-137m   0.9500E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 043:
Ba-139
  6
 0.4962000000E+04
 0.1390E+03
 0.4720E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 044:
Ba-140
  6
 0.1100736000E+07
 0.1400E+03
 0.4580E+05
La-140    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 045:
La-140
  9
 0.1449792000E+06
 0.1400E+03
 0.4710E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 046:
La-141
  9
 0.1414800000E+05
 0.1410E+03
 0.4360E+05
Ce-141    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 047:
La-142
  9
 0.5550000000E+04
 0.1420E+03
 0.4170E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 048:
Ce-141
  8
 0.2808086400E+07
 0.1410E+03
 0.4430E+05
none      0.0000E+00
none      0.0000E+00
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none      0.0000E+00
Nuclide 049:
Ce-143
  8
 0.1188000000E+06
 0.1430E+03
 0.4010E+05
Pr-143    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 050:
Ce-144
  8
 0.2456352000E+08
 0.1440E+03
 0.3250E+05
Pr-144m   0.1800E-01
Pr-144    0.9800E+00
none      0.0000E+00
Nuclide 051:
Pr-143
  9
 0.1171584000E+07
 0.1430E+03
 0.3780E+05
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 052:
Nd-147
  9
 0.9486720000E+06
 0.1470E+03
 0.1710E+05
Pm-147    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 053:
Np-239
  8
 0.2034720000E+06
 0.2390E+03
 0.7010E+06
Pu-239    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 054:
Pu-238
  8
 0.2768863824E+10
 0.2380E+03
 0.9560E+02
U-234     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 055:
Pu-239
  8
 0.7594336440E+12
 0.2390E+03
 0.1890E+02
U-235     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 056:
Pu-240
  8
 0.2062920312E+12
 0.2400E+03
 0.3110E+02
U-236     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 057:
Pu-241
  8
 0.4544294400E+09
 0.2410E+03
 0.8850E+04
U-237     0.2400E-04
Am-241    0.1000E+01
none      0.0000E+00
Nuclide 058:
Am-241
  9
 0.1363919472E+11
 0.2410E+03
 0.7670E+01
Np-237    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 059:
Cm-242
  9
 0.1406592000E+08
 0.2420E+03
 0.1740E+04
Pu-238    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 060:
Cm-244
  9
 0.5715081360E+09
 0.2440E+03
 0.1410E+03
Pu-240    0.1000E+01
none      0.0000E+00
none      0.0000E+00
End of Nuclear Inventory File
```

Columbiaesf.nif

```
Nuclide Inventory Name:
 Normalized Columbia 3556 MWth BWR
Core Inventory
 Power Level:
  0.1000E+01
 Nuclides:
  60
 Nuclide 001:
 Co-58
   7
  0.6117120000E+07
  0.5800E+02
  0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 002:
 Co-60
   7
  0.1663401096E+09
  0.6000E+02
  0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 003:
 Kr-85
   1
  0.3382974720E+09
  0.8500E+02
  0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 004:
 Kr-85m
   1
  0.1612800000E+05
  0.8500E+02
  0.0000E+00
 Kr-85     0.2100E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 005:
 Kr-87
   1
  0.4578000000E+04
  0.8700E+02
  0.0000E+00
 Rb-87     0.1000E+01
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 006:
 Kr-88
   1
  0.1022400000E+05
  0.8800E+02
  0.0000E+00
 Rb-88     0.1000E+01
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 007:
 Rb-86
   3
  0.1612224000E+07
  0.8600E+02
  0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 008:
 Sr-89
   5
  0.4363200000E+07
  0.8900E+02
  0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 009:
 Sr-90
   5
  0.9189573120E+09
  0.9000E+02
  0.0000E+00
 Y-90      0.1000E+01
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 010:
 Sr-91
   5
  0.3420000000E+05
  0.9100E+02
  0.0000E+00
 Y-91m     0.5800E+00
 Y-91      0.4200E+00
 none      0.0000E+00
 Nuclide 011:
 Sr-92
   5
  0.9756000000E+04
  0.9200E+02
  0.0000E+00
 Y-92      0.1000E+01
 none      0.0000E+00
 none      0.0000E+00
 Nuclide 012:
 Y-90
   9
  0.2304000000E+06
  0.9000E+02
```

```
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 013:
Y-91
  9
 0.5055264000E+07
 0.9100E+02
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 014:
Y-92
  9
 0.1274400000E+05
 0.9200E+02
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 015:
Y-93
  9
 0.3636000000E+05
 0.9300E+02
 0.0000E+00
Zr-93     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 016:
Zr-95
  9
 0.5527872000E+07
 0.9500E+02
 0.0000E+00
Nb-95m    0.7000E-02
Nb-95     0.9900E+00
none      0.0000E+00
Nuclide 017:
Zr-97
  9
 0.6084000000E+05
 0.9700E+02
 0.0000E+00
Nb-97m    0.9500E+00
Nb-97     0.5300E-01
none      0.0000E+00
Nuclide 018:
Nb-95
  9
 0.3036960000E+07
 0.9500E+02
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 019:
Mo-99
  7
 0.2376000000E+06
 0.9900E+02
 0.0000E+00
Tc-99m    0.8800E+00
Tc-99     0.1200E+00
none      0.0000E+00
Nuclide 020:
Tc-99m
  7
 0.2167200000E+05
 0.9900E+02
 0.0000E+00
Tc-99     0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 021:
Ru-103
  7
 0.3393792000E+07
 0.1030E+03
 0.0000E+00
Rh-103m   0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 022:
Ru-105
  7
 0.1598400000E+05
 0.1050E+03
 0.0000E+00
Rh-105    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 023:
Ru-106
  7
 0.3181248000E+08
 0.1060E+03
 0.0000E+00
Rh-106    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 024:
Rh-105
  7
 0.1272960000E+06
 0.1050E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 025:
Sb-127
```

```
  4
 0.3326400000E+06
 0.1270E+03
 0.0000E+00
Te-127m  0.1800E+00
Te-127   0.8200E+00
none     0.0000E+00
Nuclide 026:
Sb-129
  4
 0.1555200000E+05
 0.1290E+03
 0.0000E+00
Te-129m  0.2200E+00
Te-129   0.7700E+00
none     0.0000E+00
Nuclide 027:
Te-127
  4
 0.3366000000E+05
 0.1270E+03
 0.0000E+00
none     0.0000E+00
none     0.0000E+00
none     0.0000E+00
Nuclide 028:
Te-127m
  4
 0.9417600000E+07
 0.1270E+03
 0.0000E+00
Te-127   0.9800E+00
none     0.0000E+00
none     0.0000E+00
Nuclide 029:
Te-129
  4
 0.4176000000E+04
 0.1290E+03
 0.0000E+00
I-129    0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 030:
Te-129m
  4
 0.2903040000E+07
 0.1290E+03
 0.0000E+00
Te-129   0.6500E+00
I-129    0.3500E+00
none     0.0000E+00
Nuclide 031:
Te-131m
  4
 0.1080000000E+06
 0.1310E+03
 0.0000E+00
Te-131   0.2200E+00
I-131    0.7800E+00
none     0.0000E+00
Nuclide 032:
Te-132
  4
 0.2815200000E+06
 0.1320E+03
 0.0000E+00
I-132    0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 033:
I-131
  2
 0.6946560000E+06
 0.1310E+03
 0.5580E+05
Xe-131m  0.1100E-01
none     0.0000E+00
none     0.0000E+00
Nuclide 034:
I-132
  2
 0.8280000000E+04
 0.1320E+03
 0.7880E+05
none     0.0000E+00
none     0.0000E+00
none     0.0000E+00
Nuclide 035:
I-133
  2
 0.7488000000E+05
 0.1330E+03
 0.1088E+06
Xe-133m  0.2900E-01
Xe-133   0.9700E+00
none     0.0000E+00
Nuclide 036:
I-134
  2
 0.3156000000E+04
 0.1340E+03
 0.1206E+06
none     0.0000E+00
none     0.0000E+00
none     0.0000E+00
Nuclide 037:
I-135
  2
 0.2379600000E+05
 0.1350E+03
 0.1006E+06
Xe-135m  0.1500E+00
Xe-135   0.8500E+00
```

```
none      0.0000E+00
Nuclide 038:
Xe-133
  1
 0.4531680000E+06
 0.1330E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 039:
Xe-135
  1
 0.3272400000E+05
 0.1350E+03
 0.0000E+00
Cs-135    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 040:
Cs-134
  3
 0.6507177120E+08
 0.1340E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 041:
Cs-136
  3
 0.1131840000E+07
 0.1360E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 042:
Cs-137
  3
 0.9467280000E+09
 0.1370E+03
 0.0000E+00
Ba-137m   0.9500E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 043:
Ba-139
  6
 0.4962000000E+04
 0.1390E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 044:
Ba-140
  6
 0.1100736000E+07
 0.1400E+03
 0.0000E+00
La-140    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 045:
La-140
  9
 0.1449792000E+06
 0.1400E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 046:
La-141
  9
 0.1414800000E+05
 0.1410E+03
 0.0000E+00
Ce-141    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 047:
La-142
  9
 0.5550000000E+04
 0.1420E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 048:
Ce-141
  8
 0.2808086400E+07
 0.1410E+03
 0.0000E+00
none      0.0000E+00
none      0.0000E+00
none      0.0000E+00
Nuclide 049:
Ce-143
  8
 0.1188000000E+06
 0.1430E+03
 0.0000E+00
Pr-143    0.1000E+01
none      0.0000E+00
none      0.0000E+00
Nuclide 050:
Ce-144
  8
 0.2456352000E+08
 0.1440E+03
```

```
 0.0000E+00
Pr-144m  0.1800E-01
Pr-144   0.9800E+00
none     0.0000E+00
Nuclide 051:
Pr-143
  9
 0.1171584000E+07
 0.1430E+03
 0.0000E+00
none     0.0000E+00
none     0.0000E+00
none     0.0000E+00
Nuclide 052:
Nd-147
  9
 0.9486720000E+06
 0.1470E+03
 0.0000E+00
Pm-147   0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 053:
Np-239
  8
 0.2034720000E+06
 0.2390E+03
 0.0000E+00
Pu-239   0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 054:
Pu-238
  8
 0.2768863824E+10
 0.2380E+03
 0.0000E+00
U-234    0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 055:
Pu-239
  8
 0.7594336440E+12
 0.2390E+03
 0.0000E+00
U-235    0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 056:
Pu-240
  8
 0.2062920312E+12
 0.2400E+03
 0.0000E+00
U-236    0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 057:
Pu-241
  8
 0.4544294400E+09
 0.2410E+03
 0.0000E+00
U-237    0.2400E-04
Am-241   0.1000E+01
none     0.0000E+00
Nuclide 058:
Am-241
  9
 0.1363919472E+11
 0.2410E+03
 0.0000E+00
Np-237   0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 059:
Cm-242
  9
 0.1406592000E+08
 0.2420E+03
 0.0000E+00
Pu-238   0.1000E+01
none     0.0000E+00
none     0.0000E+00
Nuclide 060:
Cm-244
  9
 0.5715081360E+09
 0.2440E+03
 0.0000E+00
Pu-240   0.1000E+01
none     0.0000E+00
none     0.0000E+00
End of Nuclear Inventory File
```

APPENDIX H

RADTRAD RELEASE FRACTIONS FILE (".RTF")

Columbia.rtf

```
Release Fraction and Timing Name:
 Columbia, NUREG-1465
 Duration (h): Design Basis Accident
  0.3333E-01  0.5000E+00  0.1500E+01  0.0000E+00
 Noble Gases:
  0.0000E+00  0.5000E-01  0.9500E+00  0.0000E+00
 Iodine:
  0.0000E+00  0.5000E-01  0.2500E+00  0.0000E+00
 Cesium:
  0.0000E+00  0.5000E-01  0.2000E+00  0.0000E+00
 Tellurium:
  0.0000E+00  0.0000E+00  0.5000E-01  0.0000E+00
 Strontium:
  0.0000E+00  0.0000E+00  0.2000E-01  0.0000E+00
 Barium:
  0.0000E+00  0.0000E+00  0.2000E-01  0.0000E+00
 Ruthenium:
  0.0000E+00  0.0000E+00  0.2500E-02  0.0000E+00
 Cerium:
  0.0000E+00  0.0000E+00  0.5000E-03  0.0000E+00
 Lanthanum:
  0.0000E+00  0.0000E+00  0.2000E-03  0.0000E+00
 Non-Radioactive Aerosols (kg):
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
 End of Release File
```

APPENDIX I

RADTRAD DCF FILE

Fgr11&12.inp

```
FGRDCF 10/24/95   03:24:50   beta-test version 1.10, minor FORTRAN fixes 5/4/95
Implicit daughter halflives (m) less than  90 and less than 0.100 of parent
         9 ORGANS DEFINED IN THIS FILE:
GONADS
BREAST
LUNGS
RED MARR
BONE SUR
THYROID
REMAINDER
EFFECTIVE
SKIN(FGR)
        60 NUCLIDES DEFINED IN THIS FILE:
Co-58     Y
Co-60     Y
Kr-85
Kr-85m
Kr-87
Kr-88
Rb-86     D
Sr-89     Y
Sr-90     Y
Sr-91     Y     Including:Y-91m
Sr-92     Y
Y-90      Y
Y-91      Y
Y-92      Y
Y-93      Y
Zr-95     D
Zr-97     Y     Including:Nb-97m , Including:Nb-97
Nb-95     Y
Mo-99     Y
Tc-99m    D
Ru-103    Y     Including:Rh-103m
Ru-105    Y
Ru-106    Y     Including:Rh-106
Rh-105    Y
Sb-127    W
Sb-129    W
Te-127    W
Te-127m   W
Te-129    W
Te-129m   W     Including:Te-129
Te-131m   W     Including:Te-131
Te-132    W
I-131     D
I-132     D
```

I-133	D	
I-134	D	
I-135	D	Including:Xe-135m
Xe-133		
Xe-135		
Cs-134	D	
Cs-136	D	
Cs-137	D	Including:Ba-137m
Ba-139	D	
Ba-140	D	
La-140	W	
La-141	D	
La-142	D	
Ce-141	Y	
Ce-143	Y	
Ce-144	Y	Including:Pr-144m, Including:Pr-144
Pr-143	Y	
Nd-147	Y	
Np-239	W	
Pu-238	Y	
Pu-239	Y	
Pu-240	Y	
Pu-241	Y	
Am-241	W	
Cm-242	W	
Cm-244	W	

	CLOUDSHINE	GROUND SHINE 8HR	GROUND SHINE 7DAY	GROUND SHINE RATE	INHALED ACUTE	INHALED CHRONIC	INGESTION
Co-58							
GONADS	4.660E-14	2.867E-11	5.828E-10	9.970E-16	-1.000E+00	6.170E-10	1.040E-09
BREAST	5.300E-14	2.737E-11	5.565E-10	9.520E-16	-1.000E+00	9.370E-10	1.790E-10
LUNGS	4.640E-14	2.617E-11	5.319E-10	9.100E-16	-1.000E+00	1.600E-08	8.530E-11
RED MARR	4.530E-14	2.671E-11	5.430E-10	9.290E-16	-1.000E+00	9.230E-10	2.600E-10
BONE SUR	7.410E-14	3.795E-11	7.716E-10	1.320E-15	-1.000E+00	6.930E-10	1.250E-10
THYROID	4.770E-14	2.720E-11	5.530E-10	9.460E-16	-1.000E+00	8.720E-10	6.310E-11
REMAINDER	4.440E-14	2.585E-11	5.255E-10	8.990E-16	-1.000E+00	1.890E-09	1.580E-09
EFFECTIVE	4.760E-14	2.732E-11	5.553E-10	9.500E-16	-1.000E+00	2.940E-09	8.090E-10
SKIN(FGR)	5.580E-14	3.278E-11	6.664E-10	1.140E-15	-1.000E+00	0.000E+00	0.000E+00
Co-60							
GONADS	1.230E-13	7.056E-11	1.480E-09	2.450E-15	-1.000E+00	4.760E-09	3.190E-09
BREAST	1.390E-13	6.739E-11	1.413E-09	2.340E-15	-1.000E+00	1.840E-08	1.100E-09
LUNGS	1.240E-13	6.537E-11	1.371E-09	2.270E-15	-1.000E+00	3.450E-07	8.770E-10
RED MARR	1.230E-13	6.710E-11	1.407E-09	2.330E-15	-1.000E+00	1.720E-08	1.320E-09
BONE SUR	1.780E-13	8.956E-11	1.879E-09	3.110E-15	-1.000E+00	1.350E-08	9.390E-10
THYROID	1.270E-13	6.480E-11	1.359E-09	2.250E-15	-1.000E+00	1.620E-08	7.880E-10
REMAINDER	1.200E-13	6.508E-11	1.365E-09	2.260E-15	-1.000E+00	3.600E-08	4.970E-09
EFFECTIVE	1.260E-13	6.768E-11	1.419E-09	2.350E-15	-1.000E+00	5.910E-08	2.770E-09
SKIN(FGR)	1.450E-13	7.948E-11	1.667E-09	2.760E-15	-1.000E+00	0.000E+00	0.000E+00
Kr-85							
GONADS	1.170E-16	8.121E-14	1.704E-12	2.820E-18	-1.000E+00	0.000E+00	0.000E+00
BREAST	1.340E-16	7.891E-14	1.656E-12	2.740E-18	-1.000E+00	0.000E+00	0.000E+00
LUNGS	1.140E-16	7.056E-14	1.481E-12	2.450E-18	-1.000E+00	0.000E+00	0.000E+00
RED MARR	1.090E-16	6.998E-14	1.469E-12	2.430E-18	-1.000E+00	0.000E+00	0.000E+00
BONE SUR	2.200E-16	1.287E-13	2.702E-12	4.470E-18	-1.000E+00	0.000E+00	0.000E+00
THYROID	1.180E-16	7.459E-14	1.565E-12	2.590E-18	-1.000E+00	0.000E+00	0.000E+00
REMAINDER	1.090E-16	6.941E-14	1.457E-12	2.410E-18	-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	1.190E-16	7.603E-14	1.596E-12	2.640E-18	-1.000E+00	0.000E+00	0.000E+00

SKIN(FGR)	1.320E-14	2.304E-11	4.835E-10	8.000E-16-1.000E+00	0.000E+00	0.000E+00
Kr-85m						
GONADS	7.310E-15	2.594E-12	3.653E-12	1.570E-16-1.000E+00	0.000E+00	0.000E+00
BREAST	8.410E-15	2.527E-12	3.560E-12	1.530E-16-1.000E+00	0.000E+00	0.000E+00
LUNGS	7.040E-15	2.379E-12	3.351E-12	1.440E-16-1.000E+00	0.000E+00	0.000E+00
RED MARR	6.430E-15	2.346E-12	3.304E-12	1.420E-16-1.000E+00	0.000E+00	0.000E+00
BONE SUR	1.880E-14	5.286E-12	7.446E-12	3.200E-16-1.000E+00	0.000E+00	0.000E+00
THYROID	7.330E-15	2.395E-12	3.374E-12	1.450E-16-1.000E+00	0.000E+00	0.000E+00
REMAINDER	6.640E-15	2.313E-12	3.257E-12	1.400E-16-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	7.480E-15	2.511E-12	3.537E-12	1.520E-16-1.000E+00	0.000E+00	0.000E+00
SKIN(FGR)	2.240E-14	2.247E-11	3.164E-11	1.360E-15-1.000E+00	0.000E+00	0.000E+00
Kr-87						
GONADS	4.000E-14	4.962E-12	5.026E-12	7.610E-16-1.000E+00	0.000E+00	0.000E+00
BREAST	4.500E-14	4.740E-12	4.802E-12	7.270E-16-1.000E+00	0.000E+00	0.000E+00
LUNGS	4.040E-14	4.603E-12	4.663E-12	7.060E-16-1.000E+00	0.000E+00	0.000E+00
RED MARR	4.000E-14	4.708E-12	4.769E-12	7.220E-16-1.000E+00	0.000E+00	0.000E+00
BONE SUR	6.020E-14	6.514E-12	6.598E-12	9.990E-16-1.000E+00	0.000E+00	0.000E+00
THYROID	4.130E-14	4.473E-12	4.531E-12	6.860E-16-1.000E+00	0.000E+00	0.000E+00
REMAINDER	3.910E-14	4.590E-12	4.650E-12	7.040E-16-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	4.120E-14	4.773E-12	4.835E-12	7.320E-16-1.000E+00	0.000E+00	0.000E+00
SKIN(FGR)	1.370E-13	8.802E-11	8.916E-11	1.350E-14-1.000E+00	0.000E+00	0.000E+00
Kr-88						
GONADS	9.900E-14	2.278E-11	2.655E-11	1.800E-15-1.000E+00	0.000E+00	0.000E+00
BREAST	1.110E-13	2.177E-11	2.537E-11	1.720E-15-1.000E+00	0.000E+00	0.000E+00
LUNGS	1.010E-13	2.139E-11	2.493E-11	1.690E-15-1.000E+00	0.000E+00	0.000E+00
RED MARR	1.000E-13	2.190E-11	2.552E-11	1.730E-15-1.000E+00	0.000E+00	0.000E+00
BONE SUR	1.390E-13	2.886E-11	3.363E-11	2.280E-15-1.000E+00	0.000E+00	0.000E+00
THYROID	1.030E-13	2.012E-11	2.345E-11	1.590E-15-1.000E+00	0.000E+00	0.000E+00
REMAINDER	9.790E-14	2.139E-11	2.493E-11	1.690E-15-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	1.020E-13	2.202E-11	2.567E-11	1.740E-15-1.000E+00	0.000E+00	0.000E+00
SKIN(FGR)	1.350E-13	5.607E-11	6.534E-11	4.430E-15-1.000E+00	0.000E+00	0.000E+00
Rb-86						
GONADS	4.710E-15	2.788E-12	5.187E-11	9.740E-17-1.000E+00	1.340E-09	2.150E-09
BREAST	5.340E-15	2.662E-12	4.953E-11	9.300E-17-1.000E+00	1.330E-09	2.140E-09
LUNGS	4.710E-15	2.553E-12	4.750E-11	8.920E-17-1.000E+00	3.300E-09	2.140E-09
RED MARR	4.640E-15	2.619E-12	4.873E-11	9.150E-17-1.000E+00	2.320E-09	3.720E-09
BONE SUR	7.050E-15	3.635E-12	6.764E-11	1.270E-16-1.000E+00	4.270E-09	6.860E-09
THYROID	4.840E-15	2.599E-12	4.836E-11	9.080E-17-1.000E+00	1.330E-09	2.140E-09
REMAINDER	4.520E-15	2.542E-12	4.729E-11	8.880E-17-1.000E+00	1.380E-09	2.330E-09
EFFECTIVE	4.810E-15	2.665E-12	4.958E-11	9.310E-17-1.000E+00	1.790E-09	2.530E-09
SKIN(FGR)	4.850E-14	2.210E-10	4.111E-09	7.720E-15-1.000E+00	0.000E+00	0.000E+00
Sr-89						
GONADS	7.730E-17	7.155E-14	1.436E-12	2.490E-18-1.000E+00	7.950E-12	8.050E-12
BREAST	9.080E-17	7.212E-14	1.447E-12	2.510E-18-1.000E+00	7.960E-12	7.980E-12
LUNGS	7.080E-17	5.689E-14	1.142E-12	1.980E-18-1.000E+00	8.350E-08	7.970E-12
RED MARR	6.390E-17	5.345E-14	1.073E-12	1.860E-18-1.000E+00	1.070E-10	1.080E-10
BONE SUR	1.940E-16	1.560E-13	3.131E-12	5.430E-18-1.000E+00	1.590E-10	1.610E-10
THYROID	7.600E-17	6.063E-14	1.217E-12	2.110E-18-1.000E+00	7.960E-12	7.970E-12
REMAINDER	6.710E-17	5.603E-14	1.124E-12	1.950E-18-1.000E+00	3.970E-09	8.250E-09
EFFECTIVE	7.730E-17	6.523E-14	1.309E-12	2.270E-18-1.000E+00	1.120E-08	2.500E-09
SKIN(FGR)	3.690E-14	1.914E-10	3.841E-09	6.660E-15-1.000E+00	0.000E+00	0.000E+00
Sr-90						
GONADS	7.780E-18	9.590E-15	2.014E-13	3.330E-19-1.000E+00	2.690E-10	5.040E-11
BREAST	9.490E-18	1.008E-14	2.116E-13	3.500E-19-1.000E+00	2.690E-10	5.040E-11
LUNGS	6.440E-18	6.307E-15	1.324E-13	2.190E-19-1.000E+00	2.860E-06	5.040E-11
RED MARR	5.440E-18	5.558E-15	1.167E-13	1.930E-19-1.000E+00	3.280E-08	6.450E-09
BONE SUR	2.280E-17	2.393E-14	5.025E-13	8.310E-19-1.000E+00	7.090E-08	1.390E-08

THYROID	7.330E-18	7.171E-15	1.506E-13	2.490E-19	-1.000E+00	2.690E-10	5.040E-11
REMAINDER	6.110E-18	6.422E-15	1.348E-13	2.230E-19	-1.000E+00	5.730E-09	6.700E-09
EFFECTIVE	7.530E-18	8.179E-15	1.717E-13	2.840E-19	-1.000E+00	3.510E-07	3.230E-09
SKIN(FGR)	9.200E-15	4.032E-12	8.465E-11	1.400E-16	-1.000E+00	0.000E+00	0.000E+00
Sr-91							
GONADS	4.819E-14	2.155E-11	5.062E-11	1.026E-15	-1.000E+00	5.669E-11	2.520E-10
BREAST	5.477E-14	2.059E-11	4.838E-11	9.806E-16	-1.000E+00	1.775E-11	3.676E-11
LUNGS	4.803E-14	1.970E-11	4.626E-11	9.376E-16	-1.000E+00	2.170E-09	1.055E-11
RED MARR	4.691E-14	2.011E-11	4.722E-11	9.570E-16	-1.000E+00	2.275E-11	5.659E-11
BONE SUR	7.674E-14	2.852E-11	6.709E-11	1.360E-15	-1.000E+00	1.306E-11	2.070E-11
THYROID	4.938E-14	2.035E-11	4.782E-11	9.693E-16	-1.000E+00	9.930E-12	1.968E-12
REMAINDER	4.610E-14	1.948E-11	4.573E-11	9.268E-16	-1.000E+00	5.802E-10	2.557E-09
EFFECTIVE	4.924E-14	2.057E-11	4.832E-11	9.793E-16	-1.000E+00	4.547E-10	8.455E-10
SKIN(FGR)	9.938E-14	1.748E-10	3.987E-10	8.080E-15	-1.000E+00	0.000E+00	0.000E+00
Sr-92							
GONADS	6.610E-14	1.593E-11	1.830E-11	1.300E-15	-1.000E+00	1.020E-11	8.180E-11
BREAST	7.480E-14	1.520E-11	1.745E-11	1.240E-15	-1.000E+00	6.490E-12	1.700E-11
LUNGS	6.670E-14	1.483E-11	1.703E-11	1.210E-15	-1.000E+00	1.050E-09	7.220E-12
RED MARR	6.620E-14	1.520E-11	1.745E-11	1.240E-15	-1.000E+00	6.980E-12	2.290E-11
BONE SUR	9.490E-14	2.010E-11	2.308E-11	1.640E-15	-1.000E+00	4.360E-12	8.490E-12
THYROID	6.820E-14	1.446E-11	1.661E-11	1.180E-15	-1.000E+00	3.920E-12	1.300E-12
REMAINDER	6.450E-14	1.471E-11	1.689E-11	1.200E-15	-1.000E+00	2.900E-10	1.720E-09
EFFECTIVE	6.790E-14	1.532E-11	1.759E-11	1.250E-15	-1.000E+00	2.180E-10	5.430E-10
SKIN(FGR)	8.560E-14	2.280E-11	2.618E-11	1.860E-15	-1.000E+00	0.000E+00	0.000E+00
Y-90							
GONADS	1.890E-16	1.586E-13	1.601E-12	5.750E-18	-1.000E+00	5.170E-13	1.430E-14
BREAST	2.200E-16	1.578E-13	1.593E-12	5.720E-18	-1.000E+00	5.170E-13	1.270E-14
LUNGS	1.770E-16	1.313E-13	1.326E-12	4.760E-18	-1.000E+00	9.310E-09	1.260E-14
RED MARR	1.620E-16	1.261E-13	1.273E-12	4.570E-18	-1.000E+00	1.520E-11	3.700E-13
BONE SUR	4.440E-16	3.228E-13	3.259E-12	1.170E-17	-1.000E+00	1.510E-11	3.670E-13
THYROID	1.870E-16	1.385E-13	1.398E-12	5.020E-18	-1.000E+00	5.170E-13	1.260E-14
REMAINDER	1.680E-16	1.291E-13	1.303E-12	4.680E-18	-1.000E+00	3.870E-09	9.680E-09
EFFECTIVE	1.900E-16	1.468E-13	1.482E-12	5.320E-18	-1.000E+00	2.280E-09	2.910E-09
SKIN(FGR)	6.240E-14	2.897E-10	2.924E-09	1.050E-14	-1.000E+00	0.000E+00	0.000E+00
Y-91							
GONADS	2.560E-16	1.756E-13	3.546E-12	6.110E-18	-1.000E+00	8.200E-12	3.540E-12
BREAST	2.930E-16	1.713E-13	3.459E-12	5.960E-18	-1.000E+00	8.920E-12	5.540E-13
LUNGS	2.500E-16	1.526E-13	3.082E-12	5.310E-18	-1.000E+00	9.870E-08	2.020E-13
RED MARR	2.410E-16	1.521E-13	3.070E-12	5.290E-18	-1.000E+00	3.190E-10	6.590E-12
BONE SUR	4.560E-16	2.903E-13	5.862E-12	1.010E-17	-1.000E+00	3.180E-10	6.130E-12
THYROID	2.600E-16	1.564E-13	3.157E-12	5.440E-18	-1.000E+00	8.500E-12	1.290E-13
REMAINDER	2.390E-16	1.509E-13	3.047E-12	5.250E-18	-1.000E+00	4.200E-09	8.570E-09
EFFECTIVE	2.600E-16	1.650E-13	3.332E-12	5.740E-18	-1.000E+00	1.320E-08	2.570E-09
SKIN(FGR)	3.850E-14	1.989E-10	4.016E-09	6.920E-15	-1.000E+00	0.000E+00	0.000E+00
Y-92							
GONADS	1.270E-14	3.855E-12	4.872E-12	2.650E-16	-1.000E+00	2.610E-12	1.960E-11
BREAST	1.440E-14	3.680E-12	4.652E-12	2.530E-16	-1.000E+00	1.500E-12	3.550E-12
LUNGS	1.270E-14	3.535E-12	4.468E-12	2.430E-16	-1.000E+00	1.240E-09	1.390E-12
RED MARR	1.250E-14	3.608E-12	4.560E-12	2.480E-16	-1.000E+00	2.070E-12	4.910E-12
BONE SUR	1.950E-14	5.091E-12	6.435E-12	3.500E-16	-1.000E+00	1.510E-12	1.750E-12
THYROID	1.300E-14	3.579E-12	4.523E-12	2.460E-16	-1.000E+00	1.050E-12	1.770E-13
REMAINDER	1.220E-14	3.506E-12	4.431E-12	2.410E-16	-1.000E+00	2.030E-10	1.700E-09
EFFECTIVE	1.300E-14	3.680E-12	4.652E-12	2.530E-16	-1.000E+00	2.110E-10	5.150E-10
SKIN(FGR)	1.140E-13	2.022E-10	2.556E-10	1.390E-14	-1.000E+00	0.000E+00	0.000E+00
Y-93							
GONADS	4.670E-15	2.108E-12	4.989E-12	9.510E-17	-1.000E+00	5.310E-12	2.200E-11
BREAST	5.300E-15	2.026E-12	4.794E-12	9.140E-17	-1.000E+00	1.740E-12	3.130E-12

LUNGS	4.680E-15	1.937E-12	4.585E-12	8.740E-17	1.000E+00	2.520E-09	8.670E-13
RED MARR	4.580E-15	1.972E-12	4.669E-12	8.900E-17	1.000E+00	4.040E-12	4.930E-12
BONE SUR	7.580E-15	2.948E-12	6.977E-12	1.330E-16	1.000E+00	3.140E-12	1.730E-12
THYROID	4.790E-15	1.908E-12	4.516E-12	8.610E-17	1.000E+00	9.260E-13	1.260E-13
REMAINDER	4.510E-15	1.919E-12	4.543E-12	8.660E-17	1.000E+00	9.250E-10	4.090E-09
EFFECTIVE	4.800E-15	2.021E-12	4.784E-12	9.120E-17	1.000E+00	5.820E-10	1.230E-09
SKIN(FGR)	8.500E-14	2.726E-10	6.452E-10	1.230E-14	1.000E+00	0.000E+00	0.000E+00
Zr-95							
GONADS	3.530E-14	2.182E-11	4.421E-10	7.590E-16	1.000E+00	1.880E-09	8.160E-10
BREAST	4.010E-14	2.084E-11	4.223E-10	7.250E-16	1.000E+00	1.910E-09	1.050E-10
LUNGS	3.510E-14	1.989E-11	4.030E-10	6.920E-16	1.000E+00	2.170E-09	2.340E-11
RED MARR	3.430E-14	2.030E-11	4.112E-10	7.060E-16	1.000E+00	1.300E-08	2.140E-10
BONE SUR	5.620E-14	2.875E-11	5.824E-10	1.000E-15	1.000E+00	1.030E-07	4.860E-10
THYROID	3.610E-14	2.076E-11	4.205E-10	7.220E-16	1.000E+00	1.440E-09	8.270E-12
REMAINDER	3.360E-14	1.963E-11	3.978E-10	6.830E-16	1.000E+00	2.280E-09	2.530E-09
EFFECTIVE	3.600E-14	2.078E-11	4.211E-10	7.230E-16	1.000E+00	6.390E-09	1.020E-09
SKIN(FGR)	4.500E-14	2.561E-11	5.190E-10	8.910E-16	1.000E+00	0.000E+00	0.000E+00
Zr-97							
GONADS	4.331E-14	2.179E-11	7.799E-11	9.253E-16	1.000E+00	1.840E-10	6.228E-10
BREAST	4.928E-14	2.083E-11	7.455E-11	8.846E-16	1.000E+00	4.706E-11	8.137E-11
LUNGS	4.322E-14	1.992E-11	7.127E-11	8.456E-16	1.000E+00	4.108E-09	1.770E-11
RED MARR	4.224E-14	2.034E-11	7.279E-11	8.634E-16	1.000E+00	6.376E-11	1.302E-10
BONE SUR	6.897E-14	2.881E-11	1.031E-10	1.224E-15	1.000E+00	3.504E-11	4.558E-11
THYROID	4.443E-14	2.061E-11	7.377E-11	8.755E-16	1.000E+00	2.315E-11	2.671E-12
REMAINDER	4.139E-14	1.966E-11	7.035E-11	8.345E-16	1.000E+00	2.041E-09	6.990E-09
EFFECTIVE	4.432E-14	2.078E-11	7.438E-11	8.824E-16	1.000E+00	1.171E-09	2.283E-09
SKIN(FGR)	9.835E-14	2.281E-10	8.148E-10	9.587E-15	1.000E+00	0.000E+00	0.000E+00
Nb-95							
GONADS	3.660E-14	2.253E-11	4.435E-10	7.850E-16	1.000E+00	4.320E-10	8.050E-10
BREAST	4.160E-14	2.150E-11	4.231E-10	7.490E-16	1.000E+00	4.070E-10	1.070E-10
LUNGS	3.650E-14	2.055E-11	4.045E-10	7.160E-16	1.000E+00	8.320E-09	2.740E-11
RED MARR	3.560E-14	2.101E-11	4.135E-10	7.320E-16	1.000E+00	4.420E-10	1.990E-10
BONE SUR	5.790E-14	2.957E-11	5.819E-10	1.030E-15	1.000E+00	5.130E-10	2.940E-10
THYROID	3.750E-14	2.144E-11	4.220E-10	7.470E-16	1.000E+00	3.580E-10	1.180E-11
REMAINDER	3.490E-14	2.032E-11	4.000E-10	7.080E-16	1.000E+00	1.070E-09	1.470E-09
EFFECTIVE	3.740E-14	2.147E-11	4.226E-10	7.480E-16	1.000E+00	1.570E-09	6.950E-10
SKIN(FGR)	4.300E-14	2.598E-11	5.112E-10	9.050E-16	1.000E+00	0.000E+00	0.000E+00
Mo-99							
GONADS	7.130E-15	4.282E-12	4.403E-11	1.550E-16	1.000E+00	9.510E-11	2.180E-10
BREAST	8.130E-15	4.116E-12	4.233E-11	1.490E-16	1.000E+00	2.750E-11	3.430E-11
LUNGS	7.060E-15	3.867E-12	3.977E-11	1.400E-16	1.000E+00	4.290E-09	1.510E-11
RED MARR	6.820E-15	3.923E-12	4.034E-11	1.420E-16	1.000E+00	5.240E-11	8.320E-11
BONE SUR	1.240E-14	6.105E-12	6.278E-11	2.210E-16	1.000E+00	4.130E-11	6.320E-11
THYROID	7.270E-15	4.033E-12	4.147E-11	1.460E-16	1.000E+00	1.520E-11	1.030E-11
REMAINDER	6.740E-15	3.812E-12	3.920E-11	1.380E-16	1.000E+00	1.740E-09	4.280E-09
EFFECTIVE	7.280E-15	4.061E-12	4.176E-11	1.470E-16	1.000E+00	1.070E-09	1.360E-09
SKIN(FGR)	3.140E-14	1.039E-10	1.068E-09	3.760E-15	1.000E+00	0.000E+00	0.000E+00
Tc-99m							
GONADS	5.750E-15	2.334E-12	3.877E-12	1.240E-16	1.000E+00	2.770E-12	9.750E-12
BREAST	6.650E-15	2.258E-12	3.752E-12	1.200E-16	1.000E+00	2.150E-12	3.570E-12
LUNGS	5.490E-15	2.127E-12	3.533E-12	1.130E-16	1.000E+00	2.280E-11	3.140E-12
RED MARR	4.910E-15	2.070E-12	3.439E-12	1.100E-16	1.000E+00	3.360E-12	6.290E-12
BONE SUR	1.630E-14	5.383E-12	8.942E-12	2.860E-16	1.000E+00	2.620E-12	4.060E-12
THYROID	5.750E-15	2.145E-12	3.564E-12	1.140E-16	1.000E+00	5.010E-11	8.460E-11
REMAINDER	5.150E-15	2.070E-12	3.439E-12	1.100E-16	1.000E+00	1.020E-11	3.340E-11
EFFECTIVE	5.890E-15	2.277E-12	3.783E-12	1.210E-16	1.000E+00	8.800E-12	1.680E-11
SKIN(FGR)	7.140E-15	2.710E-12	4.502E-12	1.440E-16	1.000E+00	0.000E+00	0.000E+00

Ru-103							
GONADS	2.191E-14	1.404E-11	2.783E-10	4.892E-16	-1.000E+00	3.070E-10	5.720E-10
BREAST	2.512E-14	1.350E-11	2.677E-10	4.705E-16	-1.000E+00	3.110E-10	1.200E-10
LUNGS	2.180E-14	1.273E-11	2.522E-10	4.432E-16	-1.000E+00	1.561E-08	7.310E-11
RED MARR	2.100E-14	1.287E-11	2.551E-10	4.483E-16	-1.000E+00	3.190E-10	1.660E-10
BONE SUR	3.892E-14	1.958E-11	3.882E-10	6.823E-16	-1.000E+00	2.370E-10	9.631E-11
THYROID	2.241E-14	1.331E-11	2.639E-10	4.638E-16	-1.000E+00	2.570E-10	6.250E-11
REMAINDER	2.080E-14	1.248E-11	2.472E-10	4.346E-16	-1.000E+00	1.250E-09	2.110E-09
EFFECTIVE	2.251E-14	1.332E-11	2.641E-10	4.642E-16	-1.000E+00	2.421E-09	8.271E-10
SKIN(FGR)	2.774E-14	1.785E-11	3.543E-10	6.229E-16	-1.000E+00	0.000E+00	0.000E+00
Ru-105							
GONADS	3.720E-14	1.327E-11	1.861E-11	8.070E-16	-1.000E+00	1.590E-11	9.670E-11
BREAST	4.240E-14	1.271E-11	1.783E-11	7.730E-16	-1.000E+00	6.610E-12	1.590E-11
LUNGS	3.700E-14	1.210E-11	1.697E-11	7.360E-16	-1.000E+00	5.730E-10	6.210E-12
RED MARR	3.590E-14	1.230E-11	1.725E-11	7.480E-16	-1.000E+00	7.700E-12	2.350E-11
BONE SUR	6.280E-14	1.809E-11	2.537E-11	1.100E-15	-1.000E+00	4.620E-12	8.890E-12
THYROID	3.800E-14	1.260E-11	1.766E-11	7.660E-16	-1.000E+00	4.150E-12	1.820E-12
REMAINDER	3.540E-14	1.189E-11	1.667E-11	7.230E-16	-1.000E+00	1.610E-10	8.540E-10
EFFECTIVE	3.810E-14	1.265E-11	1.773E-11	7.690E-16	-1.000E+00	1.230E-10	2.870E-10
SKIN(FGR)	6.730E-14	7.368E-11	1.033E-10	4.480E-15	-1.000E+00	0.000E+00	0.000E+00
Ru-106							
GONADS	1.010E-14	6.411E-12	1.340E-10	2.230E-16	-1.000E+00	1.300E-09	1.640E-09
BREAST	1.160E-14	6.152E-12	1.286E-10	2.140E-16	-1.000E+00	1.780E-09	1.440E-09
LUNGS	1.010E-14	5.836E-12	1.220E-10	2.030E-16	-1.000E+00	1.040E-06	1.420E-09
RED MARR	9.750E-15	5.893E-12	1.232E-10	2.050E-16	-1.000E+00	1.760E-09	1.460E-09
BONE SUR	1.720E-14	8.883E-12	1.856E-10	3.090E-16	-1.000E+00	1.610E-09	1.430E-09
THYROID	1.030E-14	6.066E-12	1.268E-10	2.110E-16	-1.000E+00	1.720E-09	1.410E-09
REMAINDER	9.630E-15	5.721E-12	1.196E-10	1.990E-16	-1.000E+00	1.200E-08	2.110E-08
EFFECTIVE	1.040E-14	6.095E-12	1.274E-10	2.120E-16	-1.000E+00	1.290E-07	7.400E-09
SKIN(FGR)	1.090E-13	4.082E-10	8.531E-09	1.420E-14	-1.000E+00	0.000E+00	0.000E+00
Rh-105							
GONADS	3.640E-15	2.127E-12	1.411E-11	7.980E-17	-1.000E+00	2.110E-11	5.800E-11
BREAST	4.160E-15	2.063E-12	1.369E-11	7.740E-17	-1.000E+00	5.610E-12	8.970E-12
LUNGS	3.570E-15	1.935E-12	1.284E-11	7.260E-17	-1.000E+00	9.580E-10	3.860E-12
RED MARR	3.380E-15	1.946E-12	1.291E-11	7.300E-17	-1.000E+00	7.770E-12	1.470E-11
BONE SUR	7.530E-15	3.332E-12	2.210E-11	1.250E-16	-1.000E+00	4.460E-12	6.750E-12
THYROID	3.680E-15	1.983E-12	1.316E-11	7.440E-17	-1.000E+00	2.880E-12	2.910E-12
REMAINDER	3.390E-15	1.885E-12	1.250E-11	7.070E-17	-1.000E+00	4.530E-10	1.270E-09
EFFECTIVE	3.720E-15	2.031E-12	1.347E-11	7.620E-17	-1.000E+00	2.580E-10	3.990E-10
SKIN(FGR)	1.070E-14	4.691E-12	3.112E-11	1.760E-16	-1.000E+00	0.000E+00	0.000E+00
Sb-127							
GONADS	3.260E-14	1.985E-11	2.441E-10	7.100E-16	-1.000E+00	2.520E-10	6.140E-10
BREAST	3.720E-14	1.904E-11	2.341E-10	6.810E-16	-1.000E+00	9.120E-11	7.600E-11
LUNGS	3.240E-14	1.809E-11	2.224E-10	6.470E-16	-1.000E+00	6.940E-09	1.570E-11
RED MARR	3.140E-14	1.834E-11	2.255E-10	6.560E-16	-1.000E+00	1.610E-10	1.330E-10
BONE SUR	5.520E-14	2.720E-11	3.345E-10	9.730E-16	-1.000E+00	1.340E-10	5.240E-11
THYROID	3.330E-14	1.884E-11	2.317E-10	6.740E-16	-1.000E+00	6.150E-11	4.640E-12
REMAINDER	3.090E-14	1.775E-11	2.183E-10	6.350E-16	-1.000E+00	2.330E-09	5.870E-09
EFFECTIVE	3.330E-14	1.890E-11	2.324E-10	6.760E-16	-1.000E+00	1.630E-09	1.950E-09
SKIN(FGR)	5.580E-14	7.967E-11	9.799E-10	2.850E-15	-1.000E+00	0.000E+00	0.000E+00
Sb-129							
GONADS	6.970E-14	2.336E-11	3.231E-11	1.440E-15	-1.000E+00	2.150E-11	1.510E-10
BREAST	7.910E-14	2.222E-11	3.074E-11	1.370E-15	-1.000E+00	1.280E-11	2.560E-11
LUNGS	6.980E-14	2.141E-11	2.962E-11	1.320E-15	-1.000E+00	8.980E-10	9.390E-12
RED MARR	6.860E-14	2.190E-11	3.029E-11	1.350E-15	-1.000E+00	1.700E-11	3.670E-11
BONE SUR	1.070E-13	3.033E-11	4.196E-11	1.870E-15	-1.000E+00	1.460E-11	1.340E-11
THYROID	7.160E-14	2.174E-11	3.007E-11	1.340E-15	-1.000E+00	9.720E-12	1.470E-12

REMAINDER	6.710E-14	2.125E-11	2.939E-11	1.310E-15-1.000E+00	1.870E-10	1.450E-09
EFFECTIVE	7.140E-14	2.238E-11	3.096E-11	1.380E-15-1.000E+00	1.740E-10	4.840E-10
SKIN(FGR)	1.050E-13	8.273E-11	1.144E-10	5.100E-15-1.000E+00	0.000E+00	0.000E+00
Te-127						
GONADS	2.370E-16	1.191E-13	2.661E-13	5.480E-18-1.000E+00	2.020E-12	4.020E-12
BREAST	2.730E-16	1.158E-13	2.588E-13	5.330E-18-1.000E+00	1.880E-12	3.000E-12
LUNGS	2.320E-16	1.060E-13	2.370E-13	4.880E-18-1.000E+00	4.270E-10	2.890E-12
RED MARR	2.210E-16	1.058E-13	2.365E-13	4.870E-18-1.000E+00	4.090E-12	6.570E-12
BONE SUR	4.650E-16	1.862E-13	4.162E-13	8.570E-18-1.000E+00	4.090E-12	6.460E-12
THYROID	2.400E-16	1.106E-13	2.472E-13	5.090E-18-1.000E+00	1.840E-12	2.860E-12
REMAINDER	2.210E-16	1.036E-13	2.316E-13	4.770E-18-1.000E+00	1.110E-10	6.130E-10
EFFECTIVE	2.420E-16	1.125E-13	2.515E-13	5.180E-18-1.000E+00	8.600E-11	1.870E-10
SKIN(FGR)	1.140E-14	1.173E-11	2.622E-11	5.400E-16-1.000E+00	0.000E+00	0.000E+00
Te-127m						
GONADS	1.900E-16	4.689E-13	9.642E-12	1.630E-17-1.000E+00	1.100E-10	1.250E-10
BREAST	2.690E-16	5.150E-13	1.059E-11	1.790E-17-1.000E+00	1.100E-10	9.740E-11
LUNGS	7.620E-17	1.602E-13	3.295E-12	5.570E-18-1.000E+00	3.340E-08	9.620E-11
RED MARR	6.430E-17	1.249E-13	2.567E-12	4.340E-18-1.000E+00	5.360E-09	5.430E-09
BONE SUR	3.940E-16	9.005E-13	1.852E-11	3.130E-17-1.000E+00	2.040E-08	2.070E-08
THYROID	1.500E-16	2.779E-13	5.714E-12	9.660E-18-1.000E+00	9.660E-11	9.430E-11
REMAINDER	8.640E-17	1.999E-13	4.111E-12	6.950E-18-1.000E+00	1.660E-09	2.980E-09
EFFECTIVE	1.470E-16	3.251E-13	6.684E-12	1.130E-17-1.000E+00	5.810E-09	2.230E-09
SKIN(FGR)	8.490E-16	1.496E-12	3.076E-11	5.200E-17-1.000E+00	0.000E+00	0.000E+00
Te-129						
GONADS	2.710E-15	3.889E-13	3.922E-13	6.510E-17-1.000E+00	5.050E-13	1.590E-12
BREAST	3.120E-15	3.800E-13	3.832E-13	6.360E-17-1.000E+00	5.390E-13	6.050E-13
LUNGS	2.640E-15	3.298E-13	3.326E-13	5.520E-17-1.000E+00	1.530E-10	4.910E-13
RED MARR	2.540E-15	3.298E-13	3.326E-13	5.520E-17-1.000E+00	6.190E-13	7.640E-13
BONE SUR	4.880E-15	5.753E-13	5.802E-13	9.630E-17-1.000E+00	6.220E-13	5.400E-13
THYROID	2.740E-15	3.525E-13	3.555E-13	5.900E-17-1.000E+00	5.090E-13	3.360E-13
REMAINDER	2.520E-15	3.262E-13	3.289E-13	5.460E-17-1.000E+00	7.280E-12	1.790E-10
EFFECTIVE	2.750E-15	3.590E-13	3.621E-13	6.010E-17-1.000E+00	2.090E-11	5.450E-11
SKIN(FGR)	3.570E-14	3.429E-11	3.458E-11	5.740E-15-1.000E+00	0.000E+00	0.000E+00
Te-129m						
GONADS	3.321E-15	2.206E-12	4.799E-11	8.561E-17-1.000E+00	1.783E-10	2.420E-10
BREAST	3.838E-15	2.181E-12	4.739E-11	8.454E-17-1.000E+00	1.694E-10	1.664E-10
LUNGS	3.176E-15	1.741E-12	3.815E-11	6.808E-17-1.000E+00	4.040E-08	1.593E-10
RED MARR	3.071E-15	1.729E-12	3.793E-11	6.768E-17-1.000E+00	3.100E-09	3.500E-09
BONE SUR	5.772E-15	3.287E-12	7.147E-11	1.275E-16-1.000E+00	7.050E-09	7.990E-09
THYROID	3.341E-15	1.923E-12	4.201E-11	7.495E-17-1.000E+00	1.563E-10	1.572E-10
REMAINDER	3.048E-15	1.746E-12	3.822E-11	6.819E-17-1.000E+00	3.275E-09	7.196E-09
EFFECTIVE	3.337E-15	1.974E-12	4.308E-11	7.686E-17-1.000E+00	6.484E-09	2.925E-09
SKIN(FGR)	3.811E-14	1.501E-10	3.360E-09	6.001E-15-1.000E+00	0.000E+00	0.000E+00
Te-131m						
GONADS	7.292E-14	4.020E-11	2.343E-10	1.535E-15-1.000E+00	2.345E-10	7.415E-10
BREAST	8.286E-14	3.853E-11	2.246E-10	1.472E-15-1.000E+00	9.309E-11	1.361E-10
LUNGS	7.265E-14	3.657E-11	2.131E-10	1.397E-15-1.000E+00	2.296E-09	6.335E-11
RED MARR	7.097E-14	3.736E-11	2.178E-10	1.427E-15-1.000E+00	1.417E-10	2.435E-10
BONE SUR	1.174E-13	5.467E-11	3.189E-10	2.090E-15-1.000E+00	2.276E-10	3.248E-10
THYROID	7.471E-14	3.741E-11	2.181E-10	1.429E-15-1.000E+00	3.669E-08	4.383E-08
REMAINDER	6.965E-14	3.626E-11	2.113E-10	1.385E-15-1.000E+00	9.509E-10	3.153E-09
EFFECTIVE	7.463E-14	3.825E-11	2.229E-10	1.461E-15-1.000E+00	1.758E-09	2.514E-09
SKIN(FGR)	1.038E-13	1.033E-10	6.188E-10	4.056E-15-1.000E+00	0.000E+00	0.000E+00
Te-132						
GONADS	1.020E-14	6.812E-12	7.706E-11	2.450E-16-1.000E+00	4.150E-10	5.410E-10
BREAST	1.180E-14	6.756E-12	7.643E-11	2.430E-16-1.000E+00	3.630E-10	3.500E-10
LUNGS	9.650E-15	5.727E-12	6.479E-11	2.060E-16-1.000E+00	1.670E-09	3.300E-10

RED MARR	8.950E-15	5.588E-12	6.322E-11	2.010E-16	1.000E+00	4.270E-10	4.440E-10
BONE SUR	2.420E-14	1.273E-11	1.441E-10	4.580E-16	1.000E+00	7.120E-10	8.300E-10
THYROID	1.020E-14	5.978E-12	6.762E-11	2.150E-16	1.000E+00	6.280E-08	5.950E-08
REMAINDER	9.160E-15	5.644E-12	6.385E-11	2.030E-16	1.000E+00	7.890E-10	1.490E-09
EFFECTIVE	1.030E-14	6.339E-12	7.171E-11	2.280E-16	1.000E+00	2.550E-09	2.540E-09
SKIN(FGR)	1.390E-14	8.313E-12	9.405E-11	2.990E-16	1.000E+00	0.000E+00	0.000E+00
I-131							
GONADS	1.780E-14	1.119E-11	1.789E-10	3.940E-16	1.000E+00	2.530E-11	4.070E-11
BREAST	2.040E-14	1.082E-11	1.730E-10	3.810E-16	1.000E+00	7.880E-11	1.210E-10
LUNGS	1.760E-14	1.016E-11	1.626E-10	3.580E-16	1.000E+00	6.570E-10	1.020E-10
RED MARR	1.680E-14	1.022E-11	1.635E-10	3.600E-16	1.000E+00	6.260E-11	9.440E-11
BONE SUR	3.450E-14	1.675E-11	2.679E-10	5.900E-16	1.000E+00	5.730E-11	8.720E-11
THYROID	1.810E-14	1.053E-11	1.685E-10	3.710E-16	1.000E+00	2.920E-07	4.760E-07
REMAINDER	1.670E-14	9.908E-12	1.585E-10	3.490E-16	1.000E+00	8.030E-11	1.570E-10
EFFECTIVE	1.820E-14	1.067E-11	1.707E-10	3.760E-16	1.000E+00	8.890E-09	1.440E-08
SKIN(FGR)	2.980E-14	1.825E-11	2.920E-10	6.430E-16	1.000E+00	0.000E+00	0.000E+00
I-132							
GONADS	1.090E-13	2.523E-11	2.771E-11	2.320E-15	1.000E+00	9.950E-12	2.330E-11
BREAST	1.240E-13	2.414E-11	2.652E-11	2.220E-15	1.000E+00	1.410E-11	2.520E-11
LUNGS	1.090E-13	2.305E-11	2.532E-11	2.120E-15	1.000E+00	2.710E-10	2.640E-11
RED MARR	1.070E-13	2.360E-11	2.592E-11	2.170E-15	1.000E+00	1.400E-11	2.460E-11
BONE SUR	1.730E-13	3.327E-11	3.655E-11	3.060E-15	1.000E+00	1.240E-11	2.190E-11
THYROID	1.120E-13	2.381E-11	2.616E-11	2.190E-15	1.000E+00	1.740E-09	3.870E-09
REMAINDER	1.050E-13	2.283E-11	2.509E-11	2.100E-15	1.000E+00	3.780E-11	1.650E-10
EFFECTIVE	1.120E-13	2.403E-11	2.640E-11	2.210E-15	1.000E+00	1.030E-10	1.820E-10
SKIN(FGR)	1.580E-13	8.199E-11	9.007E-11	7.540E-15	1.000E+00	0.000E+00	0.000E+00
I-133							
GONADS	2.870E-14	1.585E-11	6.748E-11	6.270E-16	1.000E+00	1.950E-11	3.630E-11
BREAST	3.280E-14	1.519E-11	6.468E-11	6.010E-16	1.000E+00	2.940E-11	4.680E-11
LUNGS	2.860E-14	1.446E-11	6.156E-11	5.720E-16	1.000E+00	8.200E-10	4.530E-11
RED MARR	2.770E-14	1.466E-11	6.242E-11	5.800E-16	1.000E+00	2.720E-11	4.300E-11
BONE SUR	4.870E-14	2.161E-11	9.202E-11	8.550E-16	1.000E+00	2.520E-11	4.070E-11
THYROID	2.930E-14	1.502E-11	6.393E-11	5.940E-16	1.000E+00	4.860E-08	9.100E-08
REMAINDER	2.730E-14	1.418E-11	6.038E-11	5.610E-16	1.000E+00	5.000E-11	1.550E-10
EFFECTIVE	2.940E-14	1.509E-11	6.425E-11	5.970E-16	1.000E+00	1.580E-09	2.800E-09
SKIN(FGR)	5.830E-14	1.150E-10	4.897E-10	4.550E-15	1.000E+00	0.000E+00	0.000E+00
I-134							
GONADS	1.270E-13	1.200E-11	1.202E-11	2.640E-15	1.000E+00	4.250E-12	1.100E-11
BREAST	1.440E-13	1.145E-11	1.147E-11	2.520E-15	1.000E+00	6.170E-12	1.170E-11
LUNGS	1.270E-13	1.100E-11	1.102E-11	2.420E-15	1.000E+00	1.430E-10	1.260E-11
RED MARR	1.250E-13	1.127E-11	1.129E-11	2.480E-15	1.000E+00	6.080E-12	1.090E-11
BONE SUR	1.960E-13	1.568E-11	1.571E-11	3.450E-15	1.000E+00	5.310E-12	9.320E-12
THYROID	1.300E-13	1.127E-11	1.129E-11	2.480E-15	1.000E+00	2.880E-10	6.210E-10
REMAINDER	1.220E-13	1.091E-11	1.093E-11	2.400E-15	1.000E+00	2.270E-11	1.340E-10
EFFECTIVE	1.300E-13	1.150E-11	1.152E-11	2.530E-15	1.000E+00	3.550E-11	6.660E-11
SKIN(FGR)	1.870E-13	4.477E-11	4.485E-11	9.850E-15	1.000E+00	0.000E+00	0.000E+00
I-135							
GONADS	8.078E-14	3.113E-11	5.489E-11	1.599E-15	1.000E+00	1.700E-11	3.610E-11
BREAST	9.143E-14	2.971E-11	5.240E-11	1.526E-15	1.000E+00	2.340E-11	3.850E-11
LUNGS	8.145E-14	2.886E-11	5.089E-11	1.482E-15	1.000E+00	4.410E-10	3.750E-11
RED MARR	8.054E-14	2.965E-11	5.228E-11	1.523E-15	1.000E+00	2.240E-11	3.650E-11
BONE SUR	1.184E-13	3.983E-11	7.024E-11	2.046E-15	1.000E+00	2.010E-11	3.360E-11
THYROID	8.324E-14	2.852E-11	5.030E-11	1.465E-15	1.000E+00	8.460E-09	1.790E-08
REMAINDER	7.861E-14	2.883E-11	5.084E-11	1.481E-15	1.000E+00	4.700E-11	1.540E-10
EFFECTIVE	8.294E-14	2.989E-11	5.271E-11	1.535E-15	1.000E+00	3.320E-10	6.080E-10
SKIN(FGR)	1.156E-13	9.826E-11	1.733E-10	5.047E-15	1.000E+00	0.000E+00	0.000E+00
Xe-133							

GONADS	1.610E-15	1.465E-12	2.052E-11	5.200E-17	-1.000E+00	0.000E+00	0.000E+00
BREAST	1.960E-15	1.505E-12	2.107E-11	5.340E-17	-1.000E+00	0.000E+00	0.000E+00
LUNGS	1.320E-15	1.045E-12	1.464E-11	3.710E-17	-1.000E+00	0.000E+00	0.000E+00
RED MARR	1.070E-15	8.791E-13	1.231E-11	3.120E-17	-1.000E+00	0.000E+00	0.000E+00
BONE SUR	5.130E-15	4.254E-12	5.958E-11	1.510E-16	-1.000E+00	0.000E+00	0.000E+00
THYROID	1.510E-15	1.181E-12	1.653E-11	4.190E-17	-1.000E+00	0.000E+00	0.000E+00
REMAINDER	1.240E-15	1.042E-12	1.460E-11	3.700E-17	-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	1.560E-15	1.299E-12	1.819E-11	4.610E-17	-1.000E+00	0.000E+00	0.000E+00
SKIN(FGR)	4.970E-15	1.953E-12	2.734E-11	6.930E-17	-1.000E+00	0.000E+00	0.000E+00
Xe-135							
GONADS	1.170E-14	5.455E-12	1.194E-11	2.530E-16	-1.000E+00	0.000E+00	0.000E+00
BREAST	1.330E-14	5.325E-12	1.166E-11	2.470E-16	-1.000E+00	0.000E+00	0.000E+00
LUNGS	1.130E-14	4.959E-12	1.086E-11	2.300E-16	-1.000E+00	0.000E+00	0.000E+00
RED MARR	1.070E-14	4.959E-12	1.086E-11	2.300E-16	-1.000E+00	0.000E+00	0.000E+00
BONE SUR	2.570E-14	9.120E-12	1.997E-11	4.230E-16	-1.000E+00	0.000E+00	0.000E+00
THYROID	1.180E-14	5.023E-12	1.100E-11	2.330E-16	-1.000E+00	0.000E+00	0.000E+00
REMAINDER	1.080E-14	4.829E-12	1.058E-11	2.240E-16	-1.000E+00	0.000E+00	0.000E+00
EFFECTIVE	1.190E-14	5.217E-12	1.142E-11	2.420E-16	-1.000E+00	0.000E+00	0.000E+00
SKIN(FGR)	3.120E-14	4.506E-11	9.867E-11	2.090E-15	-1.000E+00	0.000E+00	0.000E+00
Cs-134							
GONADS	7.400E-14	4.607E-11	9.646E-10	1.600E-15	-1.000E+00	1.300E-08	2.060E-08
BREAST	8.430E-14	4.406E-11	9.224E-10	1.530E-15	-1.000E+00	1.080E-08	1.720E-08
LUNGS	7.370E-14	4.204E-11	8.802E-10	1.460E-15	-1.000E+00	1.180E-08	1.760E-08
RED MARR	7.190E-14	4.262E-11	8.922E-10	1.480E-15	-1.000E+00	1.180E-08	1.870E-08
BONE SUR	1.200E-13	6.105E-11	1.278E-09	2.120E-15	-1.000E+00	1.100E-08	1.740E-08
THYROID	7.570E-14	4.377E-11	9.163E-10	1.520E-15	-1.000E+00	1.110E-08	1.760E-08
REMAINDER	7.060E-14	4.147E-11	8.681E-10	1.440E-15	-1.000E+00	1.390E-08	2.210E-08
EFFECTIVE	7.570E-14	4.377E-11	9.163E-10	1.520E-15	-1.000E+00	1.250E-08	1.980E-08
SKIN(FGR)	9.450E-14	6.249E-11	1.308E-09	2.170E-15	-1.000E+00	0.000E+00	0.000E+00
Cs-136							
GONADS	1.040E-13	6.223E-11	1.102E-09	2.180E-15	-1.000E+00	1.880E-09	3.040E-09
BREAST	1.180E-13	5.966E-11	1.056E-09	2.090E-15	-1.000E+00	1.670E-09	2.650E-09
LUNGS	1.040E-13	5.710E-11	1.011E-09	2.000E-15	-1.000E+00	2.320E-09	2.620E-09
RED MARR	1.010E-13	5.824E-11	1.031E-09	2.040E-15	-1.000E+00	1.860E-09	2.950E-09
BONE SUR	1.660E-13	8.422E-11	1.491E-09	2.950E-15	-1.000E+00	1.700E-09	2.710E-09
THYROID	1.070E-13	5.852E-11	1.036E-09	2.050E-15	-1.000E+00	1.730E-09	2.740E-09
REMAINDER	9.950E-14	5.652E-11	1.001E-09	1.980E-15	-1.000E+00	2.190E-09	3.520E-09
EFFECTIVE	1.060E-13	5.966E-11	1.056E-09	2.090E-15	-1.000E+00	1.980E-09	3.040E-09
SKIN(FGR)	1.250E-13	7.251E-11	1.284E-09	2.540E-15	-1.000E+00	0.000E+00	0.000E+00
Cs-137							
GONADS	2.669E-14	1.669E-11	3.530E-10	5.840E-16	-1.000E+00	8.760E-09	1.390E-08
BREAST	3.047E-14	1.596E-11	3.376E-10	5.585E-16	-1.000E+00	7.840E-09	1.240E-08
LUNGS	2.649E-14	1.517E-11	3.209E-10	5.309E-16	-1.000E+00	8.820E-09	1.270E-08
RED MARR	2.583E-14	1.542E-11	3.260E-10	5.394E-16	-1.000E+00	8.300E-09	1.320E-08
BONE SUR	4.382E-14	2.238E-11	4.734E-10	7.832E-16	-1.000E+00	7.940E-09	1.260E-08
THYROID	2.725E-14	1.588E-11	3.358E-10	5.556E-16	-1.000E+00	7.930E-09	1.260E-08
REMAINDER	2.536E-14	1.490E-11	3.152E-10	5.215E-16	-1.000E+00	9.120E-09	1.450E-08
EFFECTIVE	2.725E-14	1.585E-11	3.353E-10	5.546E-16	-1.000E+00	8.630E-09	1.350E-08
SKIN(FGR)	4.392E-14	5.253E-11	1.110E-09	1.836E-15	-1.000E+00	0.000E+00	0.000E+00
Ba-139							
GONADS	2.130E-15	3.368E-13	3.429E-13	4.790E-17	-1.000E+00	2.560E-12	1.560E-12
BREAST	2.450E-15	3.297E-13	3.357E-13	4.690E-17	-1.000E+00	2.460E-12	5.170E-13
LUNGS	2.030E-15	3.002E-13	3.057E-13	4.270E-17	-1.000E+00	2.530E-10	3.890E-13
RED MARR	1.870E-15	2.932E-13	2.985E-13	4.170E-17	-1.000E+00	3.410E-12	8.590E-13
BONE SUR	5.290E-15	6.841E-13	6.965E-13	9.730E-17	-1.000E+00	2.490E-12	4.380E-13
THYROID	2.130E-15	3.044E-13	3.100E-13	4.330E-17	-1.000E+00	2.400E-12	2.660E-13
REMAINDER	1.920E-15	2.932E-13	2.985E-13	4.170E-17	-1.000E+00	4.820E-11	3.570E-10

EFFECTIVE	2.170E-15	3.227E-13	3.286E-13	4.590E-17	-1.000E+00	4.640E-11	1.080E-10
SKIN(FGR)	6.160E-14	7.241E-11	7.373E-11	1.030E-14	-1.000E+00	0.000E+00	0.000E+00
Ba-140							
GONADS	8.410E-15	5.451E-12	9.607E-11	1.910E-16	-1.000E+00	4.300E-10	9.960E-10
BREAST	9.640E-15	5.280E-12	9.305E-11	1.850E-16	-1.000E+00	2.870E-10	1.590E-10
LUNGS	8.270E-15	4.852E-12	8.550E-11	1.700E-16	-1.000E+00	1.660E-09	6.630E-11
RED MARR	7.930E-15	4.880E-12	8.601E-11	1.710E-16	-1.000E+00	1.290E-09	4.390E-10
BONE SUR	1.550E-14	8.020E-12	1.413E-10	2.810E-16	-1.000E+00	2.410E-09	5.530E-10
THYROID	8.530E-15	5.109E-12	9.003E-11	1.790E-16	-1.000E+00	2.560E-10	5.250E-11
REMAINDER	7.890E-15	4.766E-12	8.399E-11	1.670E-16	-1.000E+00	1.410E-09	7.370E-09
EFFECTIVE	8.580E-15	5.137E-12	9.053E-11	1.800E-16	-1.000E+00	1.010E-09	2.560E-09
SKIN(FGR)	2.520E-14	5.565E-11	9.808E-10	1.950E-15	-1.000E+00	0.000E+00	0.000E+00
La-140							
GONADS	1.140E-13	6.027E-11	4.425E-10	2.240E-15	-1.000E+00	4.540E-10	1.340E-09
BREAST	1.290E-13	5.758E-11	4.228E-10	2.140E-15	-1.000E+00	1.450E-10	1.800E-10
LUNGS	1.150E-13	5.596E-11	4.109E-10	2.080E-15	-1.000E+00	4.210E-09	4.010E-11
RED MARR	1.140E-13	5.731E-11	4.208E-10	2.130E-15	-1.000E+00	2.140E-10	2.810E-10
BONE SUR	1.690E-13	7.776E-11	5.709E-10	2.890E-15	-1.000E+00	1.410E-10	9.770E-11
THYROID	1.180E-13	5.462E-11	4.010E-10	2.030E-15	-1.000E+00	6.870E-11	6.400E-12
REMAINDER	1.110E-13	5.569E-11	4.089E-10	2.070E-15	-1.000E+00	2.120E-09	6.260E-09
EFFECTIVE	1.170E-13	5.812E-11	4.267E-10	2.160E-15	-1.000E+00	1.310E-09	2.280E-09
SKIN(FGR)	1.660E-13	2.217E-10	1.628E-09	8.240E-15	-1.000E+00	0.000E+00	0.000E+00
La-141							
GONADS	2.330E-15	7.315E-13	9.675E-13	4.740E-17	-1.000E+00	1.010E-11	3.770E-12
BREAST	2.640E-15	7.007E-13	9.267E-13	4.540E-17	-1.000E+00	9.840E-12	7.070E-13
LUNGS	2.340E-15	6.713E-13	8.879E-13	4.350E-17	-1.000E+00	6.460E-10	2.720E-13
RED MARR	2.310E-15	6.852E-13	9.063E-13	4.440E-17	-1.000E+00	2.930E-11	1.070E-12
BONE SUR	3.490E-15	9.923E-13	1.312E-12	6.430E-17	-1.000E+00	1.200E-10	6.060E-13
THYROID	2.390E-15	6.590E-13	8.716E-13	4.270E-17	-1.000E+00	9.400E-12	5.290E-14
REMAINDER	2.260E-15	6.682E-13	8.838E-13	4.330E-17	-1.000E+00	2.280E-10	1.240E-09
EFFECTIVE	2.390E-15	7.007E-13	9.267E-13	4.540E-17	-1.000E+00	1.570E-10	3.740E-10
SKIN(FGR)	6.580E-14	1.667E-10	2.204E-10	1.080E-14	-1.000E+00	0.000E+00	0.000E+00
La-142							
GONADS	1.400E-13	1.978E-11	2.034E-11	2.540E-15	-1.000E+00	1.660E-11	6.990E-11
BREAST	1.570E-13	1.885E-11	1.938E-11	2.420E-15	-1.000E+00	1.130E-11	1.540E-11
LUNGS	1.420E-13	1.846E-11	1.898E-11	2.370E-15	-1.000E+00	3.010E-10	8.400E-12
RED MARR	1.420E-13	1.900E-11	1.954E-11	2.440E-15	-1.000E+00	1.360E-11	1.930E-11
BONE SUR	1.950E-13	2.484E-11	2.554E-11	3.190E-15	-1.000E+00	1.110E-11	7.400E-12
THYROID	1.450E-13	1.768E-11	1.818E-11	2.270E-15	-1.000E+00	8.740E-12	1.160E-12
REMAINDER	1.380E-13	1.853E-11	1.906E-11	2.380E-15	-1.000E+00	8.070E-11	5.200E-10
EFFECTIVE	1.440E-13	1.916E-11	1.970E-11	2.460E-15	-1.000E+00	6.840E-11	1.790E-10
SKIN(FGR)	2.160E-13	9.111E-11	9.368E-11	1.170E-14	-1.000E+00	0.000E+00	0.000E+00
Ce-141							
GONADS	3.380E-15	2.213E-12	4.332E-11	7.710E-17	-1.000E+00	5.540E-11	1.080E-10
BREAST	3.930E-15	2.170E-12	4.247E-11	7.560E-17	-1.000E+00	4.460E-11	1.110E-11
LUNGS	3.170E-15	1.951E-12	3.820E-11	6.800E-17	-1.000E+00	1.670E-08	1.430E-12
RED MARR	2.830E-15	1.860E-12	3.641E-11	6.480E-17	-1.000E+00	8.960E-11	3.390E-11
BONE SUR	9.410E-15	5.166E-12	1.011E-10	1.800E-16	-1.000E+00	2.540E-10	2.300E-11
THYROID	3.350E-15	2.003E-12	3.922E-11	6.980E-17	-1.000E+00	2.550E-11	1.800E-13
REMAINDER	2.980E-15	1.894E-12	3.708E-11	6.600E-17	-1.000E+00	1.260E-09	2.500E-09
EFFECTIVE	3.430E-15	2.118E-12	4.146E-11	7.380E-17	-1.000E+00	2.420E-09	7.830E-10
SKIN(FGR)	1.020E-14	3.788E-12	7.416E-11	1.320E-16	-1.000E+00	0.000E+00	0.000E+00
Ce-143							
GONADS	1.280E-14	7.900E-12	4.958E-11	2.980E-16	-1.000E+00	7.530E-11	2.120E-10
BREAST	1.470E-14	7.688E-12	4.825E-11	2.900E-16	-1.000E+00	1.660E-11	2.320E-11
LUNGS	1.230E-14	6.893E-12	4.325E-11	2.600E-16	-1.000E+00	3.880E-09	3.820E-12
RED MARR	1.170E-14	6.787E-12	4.259E-11	2.560E-16	-1.000E+00	2.960E-11	5.070E-11

BONE SUR	2.520E-14	1.323E-11	8.302E-11	4.990E-16	-1.000E+00	1.640E-11	1.610E-11
THYROID	1.280E-14	7.211E-12	4.525E-11	2.720E-16	-1.000E+00	6.230E-12	4.350E-13
REMAINDER	1.170E-14	6.734E-12	4.226E-11	2.540E-16	-1.000E+00	1.420E-09	3.890E-09
EFFECTIVE	1.290E-14	7.396E-12	4.642E-11	2.790E-16	-1.000E+00	9.160E-10	1.230E-09
SKIN(FGR)	3.960E-14	1.058E-10	6.638E-10	3.990E-15	-1.000E+00	0.000E+00	0.000E+00
Ce-144							
GONADS	2.725E-15	6.328E-13	1.319E-11	6.088E-17	-1.000E+00	2.390E-10	6.987E-11
BREAST	3.129E-15	6.274E-13	1.307E-11	5.922E-17	-1.000E+00	3.480E-10	1.223E-11
LUNGS	2.639E-15	5.228E-13	1.089E-11	5.362E-17	-1.000E+00	7.911E-07	6.551E-12
RED MARR	2.507E-15	4.755E-13	9.907E-12	5.247E-17	-1.000E+00	2.880E-09	8.923E-11
BONE SUR	5.441E-15	1.646E-12	3.429E-11	1.127E-16	-1.000E+00	4.720E-09	1.280E-10
THYROID	2.753E-15	5.529E-13	1.152E-11	5.418E-17	-1.000E+00	2.920E-10	5.154E-12
REMAINDER	2.534E-15	5.086E-13	1.060E-11	5.283E-17	-1.000E+00	1.910E-08	1.890E-08
EFFECTIVE	2.773E-15	5.909E-13	1.231E-11	5.766E-17	-1.000E+00	1.010E-07	5.711E-09
SKIN(FGR)	8.574E-14	7.648E-13	1.594E-11	1.250E-14	-1.000E+00	0.000E+00	0.000E+00
Pr-143							
GONADS	2.130E-17	2.264E-14	4.032E-13	7.930E-19	-1.000E+00	4.370E-18	8.990E-18
BREAST	2.550E-17	2.330E-14	4.149E-13	8.160E-19	-1.000E+00	2.220E-18	1.090E-18
LUNGS	1.860E-17	1.642E-14	2.923E-13	5.750E-19	-1.000E+00	1.330E-08	1.910E-19
RED MARR	1.620E-17	1.493E-14	2.659E-13	5.230E-19	-1.000E+00	1.480E-11	1.030E-12
BONE SUR	5.930E-17	5.454E-14	9.711E-13	1.910E-18	-1.000E+00	1.490E-11	1.030E-12
THYROID	2.050E-17	1.802E-14	3.208E-13	6.310E-19	-1.000E+00	1.680E-18	2.660E-20
REMAINDER	1.760E-17	1.642E-14	2.923E-13	5.750E-19	-1.000E+00	1.970E-09	4.220E-09
EFFECTIVE	2.100E-17	2.002E-14	3.564E-13	7.010E-19	-1.000E+00	2.190E-09	1.270E-09
SKIN(FGR)	1.760E-14	5.711E-11	1.017E-09	2.000E-15	-1.000E+00	0.000E+00	0.000E+00
Nd-147							
GONADS	6.130E-15	4.218E-12	7.235E-11	1.480E-16	-1.000E+00	8.410E-11	1.790E-10
BREAST	7.120E-15	4.132E-12	7.088E-11	1.450E-16	-1.000E+00	3.450E-11	1.870E-11
LUNGS	5.820E-15	3.648E-12	6.257E-11	1.280E-16	-1.000E+00	1.060E-08	2.440E-12
RED MARR	5.400E-15	3.505E-12	6.013E-11	1.230E-16	-1.000E+00	9.190E-11	5.050E-11
BONE SUR	1.320E-14	8.265E-12	1.418E-10	2.900E-16	-1.000E+00	3.260E-10	2.220E-11
THYROID	6.120E-15	3.876E-12	6.648E-11	1.360E-16	-1.000E+00	1.820E-11	2.640E-13
REMAINDER	5.530E-15	3.562E-12	6.111E-11	1.250E-16	-1.000E+00	1.760E-09	3.760E-09
EFFECTIVE	6.190E-15	3.961E-12	6.795E-11	1.390E-16	-1.000E+00	1.850E-09	1.180E-09
SKIN(FGR)	1.950E-14	3.135E-11	5.377E-10	1.100E-15	-1.000E+00	0.000E+00	0.000E+00
Np-239							
GONADS	7.530E-15	4.691E-12	4.380E-11	1.710E-16	-1.000E+00	7.450E-11	1.620E-10
BREAST	8.730E-15	4.636E-12	4.329E-11	1.690E-16	-1.000E+00	1.630E-11	1.720E-11
LUNGS	7.180E-15	4.115E-12	3.842E-11	1.500E-16	-1.000E+00	2.360E-09	2.400E-12
RED MARR	6.500E-15	4.005E-12	3.740E-11	1.460E-16	-1.000E+00	2.080E-10	4.660E-11
BONE SUR	2.000E-14	1.001E-11	9.349E-11	3.650E-16	-1.000E+00	2.030E-09	3.590E-11
THYROID	7.520E-15	4.197E-12	3.919E-11	1.530E-16	-1.000E+00	7.620E-12	2.070E-13
REMAINDER	6.760E-15	4.005E-12	3.740E-11	1.460E-16	-1.000E+00	9.590E-10	2.770E-09
EFFECTIVE	7.690E-15	4.471E-12	4.175E-11	1.630E-16	-1.000E+00	6.780E-10	8.820E-10
SKIN(FGR)	1.600E-14	7.215E-12	6.737E-11	2.630E-16	-1.000E+00	0.000E+00	0.000E+00
Pu-238							
GONADS	6.560E-18	4.291E-14	9.011E-13	1.490E-18	-1.000E+00	1.040E-05	2.330E-09
BREAST	1.270E-17	5.558E-14	1.167E-12	1.930E-18	-1.000E+00	4.400E-10	1.800E-13
LUNGS	1.060E-18	2.267E-15	4.759E-14	7.870E-20	-1.000E+00	3.200E-04	8.640E-14
RED MARR	1.680E-18	5.587E-15	1.173E-13	1.940E-19	-1.000E+00	5.800E-05	1.270E-08
BONE SUR	9.300E-18	3.514E-14	7.378E-13	1.220E-18	-1.000E+00	7.250E-04	1.580E-07
THYROID	4.010E-18	9.792E-15	2.056E-13	3.400E-19	-1.000E+00	3.860E-10	7.990E-14
REMAINDER	1.990E-18	9.216E-15	1.935E-13	3.200E-19	-1.000E+00	2.740E-05	2.180E-08
EFFECTIVE	4.880E-18	2.413E-14	5.068E-13	8.380E-19	-1.000E+00	7.790E-05	1.340E-08
SKIN(FGR)	4.090E-17	2.776E-13	5.830E-12	9.640E-18	-1.000E+00	0.000E+00	0.000E+00
Pu-239							
GONADS	4.840E-18	1.768E-14	3.713E-13	6.140E-19	-1.000E+00	1.200E-05	2.640E-09

BREAST	7.550E-18	2.238E-14	4.699E-13	7.770E-19	1.000E+00	3.990E-10	1.210E-13
LUNGS	2.650E-18	2.267E-15	4.760E-14	7.870E-20	1.000E+00	3.230E-04	7.890E-14
RED MARR	2.670E-18	3.456E-15	7.258E-14	1.200E-19	1.000E+00	6.570E-05	1.410E-08
BONE SUR	9.470E-18	1.673E-14	3.514E-13	5.810E-19	1.000E+00	8.210E-04	1.760E-07
THYROID	3.880E-18	5.126E-15	1.077E-13	1.780E-19	1.000E+00	3.750E-10	7.500E-14
REMAINDER	2.860E-18	4.838E-15	1.016E-13	1.680E-19	1.000E+00	3.020E-05	2.120E-08
EFFECTIVE	4.240E-18	1.057E-14	2.220E-13	3.670E-19	1.000E+00	8.330E-05	1.400E-08
SKIN(FGR)	1.860E-17	1.057E-13	2.220E-12	3.670E-18	1.000E+00	0.000E+00	0.000E+00
Pu-240							
GONADS	6.360E-18	4.118E-14	8.649E-13	1.430E-18	1.000E+00	1.200E-05	2.640E-09
BREAST	1.230E-17	5.328E-14	1.119E-12	1.850E-18	1.000E+00	4.330E-10	1.730E-13
LUNGS	1.090E-18	2.249E-15	4.723E-14	7.810E-20	1.000E+00	3.230E-04	8.220E-14
RED MARR	1.650E-18	5.386E-15	1.131E-13	1.870E-19	1.000E+00	6.570E-05	1.410E-08
BONE SUR	9.260E-18	3.398E-14	7.137E-13	1.180E-18	1.000E+00	8.210E-04	1.760E-07
THYROID	3.920E-18	9.446E-15	1.984E-13	3.280E-19	1.000E+00	3.760E-10	7.510E-14
REMAINDER	1.960E-18	8.870E-15	1.863E-13	3.080E-19	1.000E+00	3.020E-05	2.130E-08
EFFECTIVE	4.750E-18	2.313E-14	4.857E-13	8.030E-19	1.000E+00	8.330E-05	1.400E-08
SKIN(FGR)	3.920E-17	2.644E-13	5.552E-12	9.180E-18	1.000E+00	0.000E+00	0.000E+00
Pu-241							
GONADS	7.190E-20	6.653E-17	1.396E-15	2.310E-21	1.000E+00	2.760E-07	5.660E-11
BREAST	8.670E-20	7.229E-17	1.517E-15	2.510E-21	1.000E+00	2.140E-11	2.790E-15
LUNGS	6.480E-20	4.090E-17	8.584E-16	1.420E-21	1.000E+00	3.180E-06	4.480E-15
RED MARR	5.630E-20	4.003E-17	8.403E-16	1.390E-21	1.000E+00	1.430E-06	2.780E-10
BONE SUR	2.190E-19	1.385E-16	2.908E-15	4.810E-21	1.000E+00	1.780E-05	3.480E-09
THYROID	6.980E-20	4.522E-17	9.491E-16	1.570E-21	1.000E+00	9.150E-12	1.010E-15
REMAINDER	6.090E-20	4.291E-17	9.007E-16	1.490E-21	1.000E+00	6.020E-07	1.850E-10
EFFECTIVE	7.250E-20	5.558E-17	1.167E-15	1.930E-21	1.000E+00	1.340E-06	2.070E-10
SKIN(FGR)	1.170E-19	2.033E-16	4.268E-15	7.060E-21	1.000E+00	0.000E+00	0.000E+00
Am-241							
GONADS	8.580E-16	9.360E-13	1.966E-11	3.250E-17	1.000E+00	3.250E-05	2.700E-07
BREAST	1.070E-15	1.014E-12	2.129E-11	3.520E-17	1.000E+00	2.670E-09	2.620E-11
LUNGS	6.740E-16	5.789E-13	1.216E-11	2.010E-17	1.000E+00	1.840E-05	3.360E-11
RED MARR	5.210E-16	4.838E-13	1.016E-11	1.680E-17	1.000E+00	1.740E-04	1.450E-06
BONE SUR	2.870E-15	2.678E-12	5.625E-11	9.300E-17	1.000E+00	2.170E-03	1.810E-05
THYROID	7.830E-16	6.365E-13	1.337E-11	2.210E-17	1.000E+00	1.600E-09	1.320E-11
REMAINDER	6.340E-16	5.933E-13	1.246E-11	2.060E-17	1.000E+00	7.820E-05	6.660E-07
EFFECTIVE	8.180E-16	7.920E-13	1.663E-11	2.750E-17	1.000E+00	1.200E-04	9.840E-07
SKIN(FGR)	1.280E-15	2.396E-12	5.032E-11	8.320E-17	1.000E+00	0.000E+00	0.000E+00
Cm-242							
GONADS	7.830E-18	4.893E-14	1.013E-12	1.700E-18	1.000E+00	5.700E-07	5.200E-09
BREAST	1.480E-17	6.159E-14	1.275E-12	2.140E-18	1.000E+00	9.440E-10	8.950E-12
LUNGS	1.130E-18	3.022E-15	6.257E-14	1.050E-19	1.000E+00	1.550E-05	8.840E-12
RED MARR	1.890E-18	6.562E-15	1.359E-13	2.280E-19	1.000E+00	3.900E-06	3.570E-08
BONE SUR	1.060E-17	4.231E-14	8.759E-13	1.470E-18	1.000E+00	4.870E-05	4.460E-07
THYROID	4.910E-18	1.261E-14	2.610E-13	4.380E-19	1.000E+00	9.410E-10	8.820E-12
REMAINDER	2.270E-18	1.079E-14	2.235E-13	3.750E-19	1.000E+00	2.450E-06	4.020E-08
EFFECTIVE	5.690E-18	2.751E-14	5.697E-13	9.560E-19	1.000E+00	4.670E-06	3.100E-08
SKIN(FGR)	4.290E-17	2.700E-13	5.589E-12	9.380E-18	1.000E+00	0.000E+00	0.000E+00
Cm-244							
GONADS	6.900E-18	4.522E-14	9.492E-13	1.570E-18	1.000E+00	1.590E-05	1.330E-07
BREAST	1.330E-17	5.702E-14	1.197E-12	1.980E-18	1.000E+00	1.040E-09	8.820E-12
LUNGS	7.080E-19	2.592E-15	5.441E-14	9.000E-20	1.000E+00	1.930E-05	8.810E-12
RED MARR	1.460E-18	5.875E-15	1.233E-13	2.040E-19	1.000E+00	9.380E-05	7.820E-07
BONE SUR	8.820E-18	3.859E-14	8.101E-13	1.340E-18	1.000E+00	1.170E-03	9.770E-06
THYROID	4.190E-18	1.146E-14	2.406E-13	3.980E-19	1.000E+00	1.010E-09	8.440E-12
REMAINDER	1.810E-18	9.821E-15	2.062E-13	3.410E-19	1.000E+00	4.780E-05	4.150E-07
EFFECTIVE	4.910E-18	2.529E-14	5.308E-13	8.780E-19	1.000E+00	6.700E-05	5.450E-07

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SKIN(FGR)  3.910E-17 2.506E-13 5.260E-12 8.700E-18-1.000E+00 0.000E+00 0.000E+00
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APPENDIX J

RADTRAD EXCERPTS FROM RESULT FILES (".o0")

Columbia_1f.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	2.5942E-04	1.1344E-05	2.3724E-01	1.1271E-02	7.8151E-02	3.7128E-03
0.250	1.0904E-03	4.7619E-05	6.2279E-01	2.9528E-02	2.0515E-01	9.7268E-03
0.500	8.4372E-03	3.7292E-04	1.8770E+00	8.9232E-02	6.1832E-01	2.9394E-02
0.533	9.8597E-03	4.3693E-04	2.0287E+00	9.6510E-02	6.6827E-01	3.1791E-02
0.785	2.2236E-02	1.0208E-03	3.5221E+00	1.8536E-01	1.1602E+00	6.1059E-02
1.035	3.8047E-02	1.8736E-03	5.2960E+00	3.0437E-01	1.7446E+00	1.0026E-01
1.285	5.7514E-02	3.0626E-03	7.1290E+00	4.3308E-01	2.3484E+00	1.4266E-01
1.535	8.0476E-02	4.6148E-03	8.9727E+00	5.6670E-01	2.9557E+00	1.8668E-01
1.785	1.0673E-01	6.5423E-03	1.0817E+01	7.0383E-01	3.5632E+00	2.3185E-01
2.033	1.3584E-01	8.8304E-03	1.2647E+01	8.4290E-01	4.1661E+00	2.7766E-01
2.033	1.3584E-01	8.8307E-03	1.2647E+01	8.4291E-01	4.1662E+00	2.7767E-01
2.290	1.6704E-01	1.1378E-02	1.3379E+01	9.0432E-01	4.4071E+00	2.9789E-01
2.440	1.8473E-01	1.2850E-02	1.3579E+01	9.2540E-01	4.4731E+00	3.0484E-01
2.690	2.1302E-01	1.5250E-02	1.3831E+01	9.5470E-01	4.5560E+00	3.1449E-01
2.940	2.3985E-01	1.7579E-02	1.4061E+01	9.8190E-01	4.6320E+00	3.2345E-01
3.190	2.6527E-01	1.9834E-02	1.4273E+01	1.0071E+00	4.7017E+00	3.3177E-01
3.440	2.8935E-01	2.2013E-02	1.4467E+01	1.0306E+00	4.7656E+00	3.3949E-01
3.690	3.1217E-01	2.4115E-02	1.4645E+01	1.0524E+00	4.8243E+00	3.4669E-01
3.940	3.3378E-01	2.6140E-02	1.4809E+01	1.0728E+00	4.8782E+00	3.5338E-01
4.300	3.6291E-01	2.8931E-02	1.5022E+01	1.0998E+00	4.9484E+00	3.6228E-01
4.600	3.8550E-01	3.1140E-02	1.5181E+01	1.1203E+00	5.0007E+00	3.6905E-01
4.900	4.0664E-01	3.3241E-02	1.5325E+01	1.1393E+00	5.0482E+00	3.7530E-01
5.200	4.2644E-01	3.5239E-02	1.5456E+01	1.1568E+00	5.0914E+00	3.8106E-01
5.500	4.4498E-01	3.7137E-02	1.5575E+01	1.1730E+00	5.1306E+00	3.8640E-01
5.800	4.6234E-01	3.8939E-02	1.5683E+01	1.1880E+00	5.1663E+00	3.9134E-01
6.100	4.7860E-01	4.0650E-02	1.5782E+01	1.2019E+00	5.1988E+00	3.9592E-01
6.400	4.9383E-01	4.2272E-02	1.5873E+01	1.2148E+00	5.2286E+00	4.0017E-01
6.700	5.0810E-01	4.3812E-02	1.5955E+01	1.2268E+00	5.2559E+00	4.0413E-01
7.000	5.2147E-01	4.5271E-02	1.6031E+01	1.2380E+00	5.2809E+00	4.0782E-01
7.300	5.3402E-01	4.6656E-02	1.6101E+01	1.2485E+00	5.3039E+00	4.1127E-01
7.600	5.4579E-01	4.7970E-02	1.6165E+01	1.2583E+00	5.3251E+00	4.1449E-01
7.900	5.5684E-01	4.9217E-02	1.6225E+01	1.2674E+00	5.3447E+00	4.1750E-01
8.000	5.6037E-01	4.9618E-02	1.6244E+01	1.2703E+00	5.3509E+00	4.1846E-01
8.300	5.7047E-01	5.0763E-02	1.6271E+01	1.2774E+00	5.3530E+00	4.1901E-01
8.600	5.7984E-01	5.1819E-02	1.6297E+01	1.2841E+00	5.3549E+00	4.1952E-01
8.900	5.8854E-01	5.2795E-02	1.6321E+01	1.2904E+00	5.3568E+00	4.2000E-01
9.200	5.9662E-01	5.3697E-02	1.6343E+01	1.2964E+00	5.3585E+00	4.2046E-01
9.500	6.0413E-01	5.4533E-02	1.6364E+01	1.3021E+00	5.3601E+00	4.2090E-01
9.800	6.1111E-01	5.5309E-02	1.6384E+01	1.3075E+00	5.3616E+00	4.2131E-01
10.100	6.1762E-01	5.6030E-02	1.6403E+01	1.3127E+00	5.3630E+00	4.2170E-01
10.400	6.2368E-01	5.6702E-02	1.6420E+01	1.3175E+00	5.3644E+00	4.2207E-01
24.000	7.2575E-01	6.8620E-02	1.6884E+01	1.4346E+00	5.3999E+00	4.3103E-01
96.000	7.7035E-01	7.3017E-02	1.7898E+01	1.5611E+00	5.4249E+00	4.3415E-01

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 720.000 8.2491E-01 7.7013E-02 2.0674E+01 1.8142E+00 5.4396E+00 4.3549E-01

#################################################################
                        Worst Two-Hour Doses
    Note: All of the dose locations are shown below but the
          worst two-hour dose is only meaningful for the EAB
          dose location.  Please disregard the two-hour worst
          doses for the other dose locations
#################################################################

CR
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    1.8    7.5852E-03   2.1319E-01   1.8325E-02

EAB
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    0.2    1.5674E-01   1.2732E+01   8.6426E-01

LPZ
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    0.2    5.1631E-02   4.1940E+00   2.8470E-01
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Columbia_1u.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	1.3561E-02	5.7616E-04	2.3724E-01	1.1271E-02	7.8151E-02	3.7128E-03
0.250	5.7000E-02	2.4213E-03	6.2279E-01	2.9528E-02	2.0515E-01	9.7268E-03
0.500	4.4056E-01	1.8711E-02	1.8770E+00	8.9232E-02	6.1832E-01	2.9394E-02
0.533	5.1493E-01	2.1870E-02	2.0287E+00	9.6510E-02	6.6827E-01	3.1791E-02
0.785	1.1772E+00	5.0891E-02	3.5221E+00	1.8536E-01	1.1602E+00	6.1059E-02
1.035	2.0499E+00	9.2401E-02	5.2960E+00	3.0437E-01	1.7446E+00	1.0026E-01
1.285	3.1440E+00	1.4761E-01	7.1290E+00	4.3308E-01	2.3484E+00	1.4266E-01
1.535	4.4480E+00	2.1598E-01	8.9727E+00	5.6670E-01	2.9557E+00	1.8668E-01
1.785	5.9472E+00	2.9664E-01	1.0817E+01	7.0383E-01	3.5632E+00	2.3185E-01
2.033	7.6148E+00	3.8806E-01	1.2647E+01	8.4289E-01	4.1661E+00	2.7766E-01
2.033	7.6150E+00	3.8807E-01	1.2647E+01	8.4291E-01	4.1662E+00	2.7766E-01
2.290	9.4024E+00	4.8703E-01	1.3379E+01	9.0432E-01	4.4071E+00	2.9789E-01
2.440	1.0414E+01	5.4321E-01	1.3579E+01	9.2539E-01	4.4731E+00	3.0484E-01
2.690	1.2028E+01	6.3299E-01	1.3831E+01	9.5470E-01	4.5560E+00	3.1449E-01
2.940	1.3553E+01	7.1805E-01	1.4061E+01	9.8189E-01	4.6320E+00	3.2345E-01
3.190	1.4995E+01	7.9858E-01	1.4273E+01	1.0071E+00	4.7017E+00	3.3176E-01
3.440	1.6355E+01	8.7478E-01	1.4467E+01	1.0306E+00	4.7656E+00	3.3949E-01
3.690	1.7640E+01	9.4684E-01	1.4645E+01	1.0524E+00	4.8243E+00	3.4668E-01
3.940	1.8851E+01	1.0150E+00	1.4809E+01	1.0728E+00	4.8782E+00	3.5338E-01
4.300	2.0477E+01	1.1065E+00	1.5022E+01	1.0998E+00	4.9484E+00	3.6228E-01
4.600	2.1729E+01	1.1772E+00	1.5181E+01	1.1203E+00	5.0007E+00	3.6905E-01
4.900	2.2896E+01	1.2432E+00	1.5325E+01	1.1393E+00	5.0482E+00	3.7530E-01
5.200	2.3981E+01	1.3047E+00	1.5456E+01	1.1568E+00	5.0914E+00	3.8106E-01
5.500	2.4991E+01	1.3620E+00	1.5575E+01	1.1730E+00	5.1306E+00	3.8640E-01

5.800	2.5930E+01	1.4154E+00	1.5683E+01	1.1880E+00	5.1663E+00	3.9133E-01
6.100	2.6803E+01	1.4651E+00	1.5782E+01	1.2019E+00	5.1988E+00	3.9592E-01
6.400	2.7614E+01	1.5113E+00	1.5873E+01	1.2148E+00	5.2286E+00	4.0017E-01
6.700	2.8368E+01	1.5544E+00	1.5955E+01	1.2268E+00	5.2559E+00	4.0413E-01
7.000	2.9069E+01	1.5944E+00	1.6031E+01	1.2380E+00	5.2809E+00	4.0782E-01
7.300	2.9719E+01	1.6316E+00	1.6101E+01	1.2485E+00	5.3039E+00	4.1126E-01
7.600	3.0324E+01	1.6661E+00	1.6165E+01	1.2583E+00	5.3251E+00	4.1448E-01
7.900	3.0885E+01	1.6983E+00	1.6225E+01	1.2674E+00	5.3447E+00	4.1750E-01
8.000	3.1063E+01	1.7085E+00	1.6244E+01	1.2703E+00	5.3509E+00	4.1846E-01
8.300	3.1570E+01	1.7375E+00	1.6271E+01	1.2774E+00	5.3530E+00	4.1900E-01
8.600	3.2036E+01	1.7642E+00	1.6297E+01	1.2841E+00	5.3549E+00	4.1952E-01
8.900	3.2467E+01	1.7889E+00	1.6321E+01	1.2904E+00	5.3568E+00	4.2000E-01
9.200	3.2863E+01	1.8116E+00	1.6343E+01	1.2964E+00	5.3585E+00	4.2046E-01
9.500	3.3229E+01	1.8326E+00	1.6364E+01	1.3021E+00	5.3601E+00	4.2089E-01
9.800	3.3566E+01	1.8519E+00	1.6384E+01	1.3075E+00	5.3616E+00	4.2130E-01
10.100	3.3877E+01	1.8697E+00	1.6403E+01	1.3126E+00	5.3630E+00	4.2170E-01
10.400	3.4163E+01	1.8862E+00	1.6420E+01	1.3175E+00	5.3644E+00	4.2207E-01
24.000	3.7802E+01	2.0870E+00	1.6884E+01	1.4346E+00	5.3999E+00	4.3103E-01
96.000	3.8424E+01	2.1093E+00	1.7898E+01	1.5611E+00	5.4249E+00	4.3415E-01
720.000	3.9140E+01	2.1332E+00	2.0674E+01	1.8141E+00	5.4396E+00	4.3549E-01

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#################################################################
                    Worst Two-Hour Doses
   Note: All of the dose locations are shown below but the
         worst two-hour dose is only meaningful for the EAB
         dose location.  Please disregard the two-hour worst
         doses for the other dose locations
#################################################################
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CR

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
1.5	6.8991E-03	1.2398E+01	6.8567E-01

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.2	1.5674E-01	1.2732E+01	8.6426E-01

LPZ

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.2	5.1631E-02	4.1940E+00	2.8470E-01

Columbia_2f.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	1.8105E-04	9.4842E-06	1.4592E-01	7.2493E-03	4.8069E-02	2.3880E-03
0.250	7.6096E-04	3.9701E-05	3.8306E-01	1.8979E-02	1.2619E-01	6.2520E-03
0.500	5.9177E-03	3.2205E-04	1.1581E+00	5.8890E-02	3.8149E-01	1.9399E-02
0.533	6.9225E-03	3.8010E-04	1.2523E+00	6.3980E-02	4.1254E-01	2.1076E-02
0.785	1.5703E-02	9.3772E-04	2.1814E+00	1.3018E-01	7.1858E-01	4.2882E-02

1.035	2.7023E-02	1.8656E-03	3.2908E+00	2.2784E-01	1.0840E+00	7.5052E-02
1.285	4.1117E-02	3.3240E-03	4.4458E+00	3.4312E-01	1.4645E+00	1.1303E-01
1.535	5.7959E-02	5.4153E-03	5.6167E+00	4.7169E-01	1.8502E+00	1.5538E-01
1.785	7.7479E-02	8.2069E-03	6.7974E+00	6.1143E-01	2.2392E+00	2.0141E-01
2.033	9.9435E-02	1.1712E-02	7.9784E+00	7.5980E-01	2.6282E+00	2.5029E-01
2.033	9.9438E-02	1.1712E-02	7.9786E+00	7.5982E-01	2.6282E+00	2.5029E-01
2.290	1.2324E-01	1.5733E-02	8.4671E+00	8.3776E-01	2.7892E+00	2.7597E-01
2.440	1.3685E-01	1.8094E-02	8.6133E+00	8.7268E-01	2.8373E+00	2.8747E-01
2.690	1.5882E-01	2.2017E-02	8.8066E+00	9.2570E-01	2.9010E+00	3.0494E-01
2.940	1.7993E-01	2.5904E-02	8.9869E+00	9.7550E-01	2.9604E+00	3.2134E-01
3.190	2.0019E-01	2.9739E-02	9.1554E+00	1.0223E+00	3.0159E+00	3.3676E-01
3.440	2.1965E-01	3.3507E-02	9.3131E+00	1.0664E+00	3.0678E+00	3.5127E-01
3.690	2.3834E-01	3.7198E-02	9.4609E+00	1.1079E+00	3.1165E+00	3.6494E-01
3.940	2.5630E-01	4.0804E-02	9.5998E+00	1.1470E+00	3.1623E+00	3.7784E-01
4.300	2.8096E-01	4.5869E-02	9.7857E+00	1.1999E+00	3.2235E+00	3.9527E-01
4.600	3.0047E-01	4.9942E-02	9.9291E+00	1.2409E+00	3.2708E+00	4.0877E-01
4.900	3.1909E-01	5.3871E-02	1.0063E+01	1.2793E+00	3.3150E+00	4.2141E-01
5.200	3.3688E-01	5.7655E-02	1.0189E+01	1.3152E+00	3.3564E+00	4.3325E-01
5.500	3.5388E-01	6.1294E-02	1.0308E+01	1.3490E+00	3.3955E+00	4.4437E-01
5.800	3.7015E-01	6.4791E-02	1.0419E+01	1.3807E+00	3.4323E+00	4.5482E-01
6.100	3.8573E-01	6.8148E-02	1.0525E+01	1.4106E+00	3.4671E+00	4.6466E-01
6.400	4.0066E-01	7.1369E-02	1.0626E+01	1.4387E+00	3.5002E+00	4.7393E-01
6.700	4.1498E-01	7.4458E-02	1.0721E+01	1.4653E+00	3.5317E+00	4.8268E-01
7.000	4.2874E-01	7.7421E-02	1.0812E+01	1.4904E+00	3.5618E+00	4.9095E-01
7.300	4.4197E-01	8.0261E-02	1.0900E+01	1.5141E+00	3.5905E+00	4.9877E-01
7.600	4.5470E-01	8.2984E-02	1.0984E+01	1.5366E+00	3.6182E+00	5.0619E-01
7.900	4.6697E-01	8.5596E-02	1.1064E+01	1.5580E+00	3.6448E+00	5.1323E-01
8.000	4.7096E-01	8.6442E-02	1.1091E+01	1.5649E+00	3.6534E+00	5.1550E-01
8.300	4.8251E-01	8.8863E-02	1.1130E+01	1.5834E+00	3.6564E+00	5.1691E-01
8.600	4.9338E-01	9.1096E-02	1.1169E+01	1.6010E+00	3.6594E+00	5.1826E-01
8.900	5.0363E-01	9.3160E-02	1.1206E+01	1.6178E+00	3.6622E+00	5.1954E-01
9.200	5.1331E-01	9.5074E-02	1.1242E+01	1.6338E+00	3.6650E+00	5.2076E-01
9.500	5.2245E-01	9.6852E-02	1.1277E+01	1.6491E+00	3.6677E+00	5.2193E-01
9.800	5.3112E-01	9.8509E-02	1.1312E+01	1.6637E+00	3.6703E+00	5.2305E-01
10.100	5.3934E-01	1.0006E-01	1.1345E+01	1.6777E+00	3.6729E+00	5.2412E-01
10.400	5.4715E-01	1.0150E-01	1.1378E+01	1.6911E+00	3.6754E+00	5.2515E-01
24.000	7.3901E-01	1.3092E-01	1.2603E+01	2.0320E+00	3.7691E+00	5.5122E-01
96.000	8.7092E-01	1.4399E-01	1.5618E+01	2.4092E+00	3.8436E+00	5.6054E-01
720.000	1.0338E+00	1.5592E-01	2.3873E+01	3.1595E+00	3.8873E+00	5.6451E-01

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#####################################################################
                        Worst Two-Hour Doses
    Note: All of the dose locations are shown below but the
          worst two-hour dose is only meaningful for the EAB
          dose location.  Please disregard the two-hour worst
          doses for the other dose locations
#####################################################################
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CR

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
2.0	2.2947E-02	1.6392E-01	3.0406E-02

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.5	4.1101E-01	7.5016E+00	8.2651E-01

LPZ

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.5	1.3539E-01	2.4711E+00	2.7226E-01

Columbia_2u.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	8.3413E-03	3.5179E-04	1.4592E-01	7.2493E-03	4.8069E-02	2.3880E-03
0.250	3.5060E-02	1.4783E-03	3.8306E-01	1.8979E-02	1.2619E-01	6.2520E-03
0.500	2.7136E-01	1.1443E-02	1.1581E+00	5.8890E-02	3.8149E-01	1.9399E-02
0.533	3.1726E-01	1.3379E-02	1.2523E+00	6.3980E-02	4.1254E-01	2.1076E-02
0.785	7.2656E-01	3.1193E-02	2.1814E+00	1.3018E-01	7.1858E-01	4.2882E-02
1.035	1.2674E+00	5.6742E-02	3.2908E+00	2.2784E-01	1.0840E+00	7.5052E-02
1.285	1.9478E+00	9.0874E-02	4.4458E+00	3.4312E-01	1.4645E+00	1.1303E-01
1.535	2.7617E+00	1.3335E-01	5.6167E+00	4.7169E-01	1.8502E+00	1.5538E-01
1.785	3.7014E+00	1.8374E-01	6.7974E+00	6.1143E-01	2.2392E+00	2.0141E-01
2.033	4.7513E+00	2.4116E-01	7.9784E+00	7.5979E-01	2.6282E+00	2.5029E-01
2.033	4.7514E+00	2.4116E-01	7.9786E+00	7.5981E-01	2.6282E+00	2.5029E-01
2.290	5.8806E+00	3.0354E-01	8.4671E+00	8.3776E-01	2.7892E+00	2.7597E-01
2.440	6.5214E+00	3.3903E-01	8.6133E+00	8.7267E-01	2.8373E+00	2.8747E-01
2.690	7.5469E+00	3.9594E-01	8.8066E+00	9.2569E-01	2.9010E+00	3.0493E-01
2.940	8.5201E+00	4.5006E-01	8.9869E+00	9.7549E-01	2.9604E+00	3.2134E-01
3.190	9.4436E+00	5.0151E-01	9.1554E+00	1.0223E+00	3.0159E+00	3.3676E-01
3.440	1.0319E+01	5.5037E-01	9.3131E+00	1.0664E+00	3.0678E+00	3.5127E-01
3.690	1.1150E+01	5.9677E-01	9.4609E+00	1.1079E+00	3.1165E+00	3.6494E-01
3.940	1.1938E+01	6.4080E-01	9.5998E+00	1.1470E+00	3.1623E+00	3.7783E-01
4.300	1.3001E+01	7.0030E-01	9.7857E+00	1.1999E+00	3.2235E+00	3.9526E-01
4.600	1.3826E+01	7.4653E-01	9.9291E+00	1.2409E+00	3.2708E+00	4.0876E-01
4.900	1.4600E+01	7.8989E-01	1.0063E+01	1.2792E+00	3.3150E+00	4.2140E-01
5.200	1.5326E+01	8.3053E-01	1.0189E+01	1.3152E+00	3.3564E+00	4.3324E-01
5.500	1.6007E+01	8.6863E-01	1.0308E+01	1.3490E+00	3.3955E+00	4.4436E-01
5.800	1.6645E+01	9.0433E-01	1.0419E+01	1.3807E+00	3.4323E+00	4.5481E-01
6.100	1.7244E+01	9.3777E-01	1.0525E+01	1.4105E+00	3.4671E+00	4.6465E-01
6.400	1.7806E+01	9.6912E-01	1.0626E+01	1.4387E+00	3.5002E+00	4.7392E-01
6.700	1.8334E+01	9.9848E-01	1.0721E+01	1.4652E+00	3.5317E+00	4.8267E-01
7.000	1.8830E+01	1.0260E+00	1.0812E+01	1.4903E+00	3.5618E+00	4.9094E-01
7.300	1.9296E+01	1.0518E+00	1.0900E+01	1.5141E+00	3.5905E+00	4.9876E-01
7.600	1.9734E+01	1.0760E+00	1.0984E+01	1.5366E+00	3.6182E+00	5.0618E-01
7.900	2.0146E+01	1.0986E+00	1.1064E+01	1.5580E+00	3.6448E+00	5.1322E-01
8.000	2.0277E+01	1.1059E+00	1.1091E+01	1.5649E+00	3.6534E+00	5.1549E-01
8.300	2.0655E+01	1.1265E+00	1.1130E+01	1.5834E+00	3.6564E+00	5.1690E-01
8.600	2.1005E+01	1.1456E+00	1.1169E+01	1.6010E+00	3.6594E+00	5.1825E-01
8.900	2.1331E+01	1.1634E+00	1.1206E+01	1.6178E+00	3.6622E+00	5.1953E-01
9.200	2.1634E+01	1.1798E+00	1.1242E+01	1.6338E+00	3.6650E+00	5.2075E-01
9.500	2.1916E+01	1.1950E+00	1.1277E+01	1.6491E+00	3.6677E+00	5.2192E-01
9.800	2.2178E+01	1.2091E+00	1.1312E+01	1.6637E+00	3.6703E+00	5.2304E-01
10.100	2.2422E+01	1.2222E+00	1.1345E+01	1.6777E+00	3.6729E+00	5.2411E-01
10.400	2.2651E+01	1.2343E+00	1.1378E+01	1.6911E+00	3.6754E+00	5.2514E-01
24.000	2.6608E+01	1.4214E+00	1.2603E+01	2.0320E+00	3.7691E+00	5.5121E-01
96.000	2.8380E+01	1.4824E+00	1.5618E+01	2.4092E+00	3.8436E+00	5.6052E-01

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 720.000 3.0508E+01 1.5521E+00 2.3873E+01 3.1594E+00 3.8873E+00 5.6450E-01

#################################################################
                        Worst Two-Hour Doses
    Note: All of the dose locations are shown below but the
          worst two-hour dose is only meaningful for the EAB
          dose location.  Please disregard the two-hour worst
          doses for the other dose locations
#################################################################

CR
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    1.5    1.6505E-02   7.8710E+00   4.3410E-01

EAB
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    0.5    4.1100E-01   7.5016E+00   8.2651E-01

LPZ
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    0.5    1.3539E-01   2.4711E+00   2.7226E-01
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Columbia_3f.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	1.1518E-03	5.0366E-05	1.7930E+00	8.5184E-02	5.9065E-01	2.8061E-02
0.250	3.3498E-03	1.4633E-04	2.0100E+00	9.5459E-02	6.6213E-01	3.1445E-02
0.500	1.1033E-02	4.8252E-04	2.7159E+00	1.2906E-01	8.9466E-01	4.2515E-02
0.533	1.2151E-02	5.3180E-04	2.8013E+00	1.3316E-01	9.2278E-01	4.3864E-02
0.785	2.1010E-02	9.3253E-04	3.6418E+00	1.8316E-01	1.1997E+00	6.0336E-02
1.035	3.0801E-02	1.4174E-03	4.6402E+00	2.5014E-01	1.5285E+00	8.2400E-02
1.285	4.1656E-02	2.0138E-03	5.6718E+00	3.2258E-01	1.8684E+00	1.0626E-01
1.535	5.3539E-02	2.7327E-03	6.7095E+00	3.9778E-01	2.2102E+00	1.3104E-01
1.785	6.6391E-02	3.5796E-03	7.7474E+00	4.7496E-01	2.5521E+00	1.5646E-01
2.033	8.0048E-02	4.5483E-03	8.7775E+00	5.5323E-01	2.8914E+00	1.8224E-01
2.033	8.0050E-02	4.5484E-03	8.7776E+00	5.5324E-01	2.8915E+00	1.8224E-01
2.290	9.4243E-02	5.5933E-03	9.4712E+00	6.1133E-01	3.1199E+00	2.0138E-01
2.440	1.0224E-01	6.1921E-03	9.6693E+00	6.3195E-01	3.1852E+00	2.0817E-01
2.690	1.1496E-01	7.1631E-03	9.9128E+00	6.6027E-01	3.2654E+00	2.1750E-01
2.940	1.2697E-01	8.0989E-03	1.0136E+01	6.8654E-01	3.3389E+00	2.2616E-01
3.190	1.3830E-01	8.9993E-03	1.0340E+01	7.1093E-01	3.4063E+00	2.3419E-01
3.440	1.4898E-01	9.8644E-03	1.0528E+01	7.3360E-01	3.4681E+00	2.4166E-01
3.690	1.5906E-01	1.0694E-02	1.0700E+01	7.5468E-01	3.5249E+00	2.4860E-01
3.940	1.6856E-01	1.1490E-02	1.0859E+01	7.7432E-01	3.5770E+00	2.5507E-01
4.300	1.8130E-01	1.2581E-02	1.1065E+01	8.0040E-01	3.6448E+00	2.6366E-01
4.600	1.9113E-01	1.3440E-02	1.1218E+01	8.2026E-01	3.6955E+00	2.7020E-01
4.900	2.0029E-01	1.4253E-02	1.1358E+01	8.3857E-01	3.7414E+00	2.7624E-01
5.200	2.0882E-01	1.5023E-02	1.1484E+01	8.5548E-01	3.7831E+00	2.8180E-01
5.500	2.1677E-01	1.5751E-02	1.1600E+01	8.7111E-01	3.8210E+00	2.8695E-01

5.800	2.2419E-01	1.6441E-02	1.1704E+01	8.8559E-01	3.8555E+00	2.9172E-01
6.100	2.3110E-01	1.7092E-02	1.1800E+01	8.9902E-01	3.8870E+00	2.9615E-01
6.400	2.3755E-01	1.7709E-02	1.1887E+01	9.1149E-01	3.9158E+00	3.0026E-01
6.700	2.4356E-01	1.8291E-02	1.1967E+01	9.2310E-01	3.9421E+00	3.0408E-01
7.000	2.4918E-01	1.8843E-02	1.2041E+01	9.3392E-01	3.9663E+00	3.0764E-01
7.300	2.5442E-01	1.9364E-02	1.2108E+01	9.4401E-01	3.9885E+00	3.1097E-01
7.600	2.5932E-01	1.9857E-02	1.2170E+01	9.5345E-01	4.0090E+00	3.1408E-01
7.900	2.6390E-01	2.0323E-02	1.2228E+01	9.6229E-01	4.0280E+00	3.1699E-01
8.000	2.6536E-01	2.0473E-02	1.2246E+01	9.6511E-01	4.0340E+00	3.1792E-01
8.300	2.6952E-01	2.0901E-02	1.2273E+01	9.7194E-01	4.0360E+00	3.1844E-01
8.600	2.7337E-01	2.1294E-02	1.2297E+01	9.7840E-01	4.0379E+00	3.1893E-01
8.900	2.7694E-01	2.1655E-02	1.2321E+01	9.8451E-01	4.0397E+00	3.1940E-01
9.200	2.8024E-01	2.1989E-02	1.2342E+01	9.9029E-01	4.0413E+00	3.1984E-01
9.500	2.8330E-01	2.2298E-02	1.2363E+01	9.9578E-01	4.0429E+00	3.2026E-01
9.800	2.8613E-01	2.2584E-02	1.2382E+01	1.0010E+00	4.0443E+00	3.2066E-01
10.100	2.8876E-01	2.2849E-02	1.2400E+01	1.0059E+00	4.0457E+00	3.2104E-01
10.400	2.9121E-01	2.3095E-02	1.2417E+01	1.0107E+00	4.0470E+00	3.2140E-01
24.000	3.2947E-01	2.7258E-02	1.2865E+01	1.1236E+00	4.0813E+00	3.3004E-01
96.000	3.4441E-01	2.8727E-02	1.3842E+01	1.2455E+00	4.1054E+00	3.3305E-01
720.000	3.6486E-01	3.0224E-02	1.6517E+01	1.4894E+00	4.1196E+00	3.3434E-01

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#################################################################
                    Worst Two-Hour Doses
   Note: All of the dose locations are shown below but the
         worst two-hour dose is only meaningful for the EAB
         dose location.  Please disregard the two-hour worst
         doses for the other dose locations
#################################################################
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CR

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
1.6	2.6789E-03	9.8553E-02	7.4427E-03

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.0	8.8964E-02	8.6394E+00	5.4274E-01

LPZ

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.0	2.9306E-02	2.8459E+00	1.7878E-01

Columbia_3u.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	2.1986E-02	9.3408E-04	1.7930E+00	8.5184E-02	5.9065E-01	2.8061E-02
0.250	6.3942E-02	2.7163E-03	2.0100E+00	9.5459E-02	6.6213E-01	3.1445E-02
0.500	2.1053E-01	8.9415E-03	2.7159E+00	1.2906E-01	8.9466E-01	4.2514E-02
0.533	2.3186E-01	9.8468E-03	2.8013E+00	1.3316E-01	9.2278E-01	4.3864E-02
0.785	4.0109E-01	1.7140E-02	3.6418E+00	1.8316E-01	1.1997E+00	6.0336E-02

1.035	5.8865E-01	2.5640E-02	4.6402E+00	2.5014E-01	1.5285E+00	8.2400E-02
1.285	7.9693E-01	3.5539E-02	5.6718E+00	3.2258E-01	1.8684E+00	1.0626E-01
1.535	1.0250E+00	4.6789E-02	6.7095E+00	3.9778E-01	2.2102E+00	1.3103E-01
1.785	1.2715E+00	5.9308E-02	7.7474E+00	4.7496E-01	2.5521E+00	1.5646E-01
2.033	1.5331E+00	7.2904E-02	8.7775E+00	5.5323E-01	2.8914E+00	1.8224E-01
2.033	1.5332E+00	7.2906E-02	8.7776E+00	5.5324E-01	2.8915E+00	1.8224E-01
2.290	1.8102E+00	8.7515E-02	9.4712E+00	6.1133E-01	3.1199E+00	2.0138E-01
2.440	1.9684E+00	9.5904E-02	9.6693E+00	6.3195E-01	3.1852E+00	2.0817E-01
2.690	2.2220E+00	1.0939E-01	9.9128E+00	6.6027E-01	3.2654E+00	2.1750E-01
2.940	2.4628E+00	1.2225E-01	1.0136E+01	6.8654E-01	3.3389E+00	2.2615E-01
3.190	2.6913E+00	1.3450E-01	1.0340E+01	7.1093E-01	3.4063E+00	2.3419E-01
3.440	2.9081E+00	1.4616E-01	1.0528E+01	7.3359E-01	3.4681E+00	2.4165E-01
3.690	3.1136E+00	1.5724E-01	1.0700E+01	7.5468E-01	3.5249E+00	2.4860E-01
3.940	3.3082E+00	1.6777E-01	1.0859E+01	7.7431E-01	3.5770E+00	2.5507E-01
4.300	3.5705E+00	1.8201E-01	1.1065E+01	8.0039E-01	3.6448E+00	2.6366E-01
4.600	3.7736E+00	1.9307E-01	1.1218E+01	8.2025E-01	3.6955E+00	2.7020E-01
4.900	3.9634E+00	2.0344E-01	1.1358E+01	8.3857E-01	3.7414E+00	2.7623E-01
5.200	4.1408E+00	2.1316E-01	1.1484E+01	8.5547E-01	3.7831E+00	2.8180E-01
5.500	4.3065E+00	2.2225E-01	1.1600E+01	8.7111E-01	3.8210E+00	2.8695E-01
5.800	4.4610E+00	2.3076E-01	1.1704E+01	8.8558E-01	3.8555E+00	2.9172E-01
6.100	4.6052E+00	2.3871E-01	1.1800E+01	8.9901E-01	3.8870E+00	2.9615E-01
6.400	4.7397E+00	2.4614E-01	1.1887E+01	9.1149E-01	3.9158E+00	3.0025E-01
6.700	4.8651E+00	2.5308E-01	1.1967E+01	9.2309E-01	3.9421E+00	3.0408E-01
7.000	4.9819E+00	2.5955E-01	1.2041E+01	9.3391E-01	3.9663E+00	3.0764E-01
7.300	5.0907E+00	2.6559E-01	1.2108E+01	9.4400E-01	3.9885E+00	3.1097E-01
7.600	5.1921E+00	2.7122E-01	1.2170E+01	9.5344E-01	4.0090E+00	3.1407E-01
7.900	5.2865E+00	2.7647E-01	1.2228E+01	9.6228E-01	4.0280E+00	3.1699E-01
8.000	5.3165E+00	2.7814E-01	1.2246E+01	9.6510E-01	4.0340E+00	3.1791E-01
8.300	5.4020E+00	2.8290E-01	1.2273E+01	9.7194E-01	4.0360E+00	3.1844E-01
8.600	5.4809E+00	2.8730E-01	1.2297E+01	9.7839E-01	4.0379E+00	3.1893E-01
8.900	5.5538E+00	2.9136E-01	1.2321E+01	9.8450E-01	4.0397E+00	3.1940E-01
9.200	5.6210E+00	2.9510E-01	1.2342E+01	9.9028E-01	4.0413E+00	3.1984E-01
9.500	5.6831E+00	2.9857E-01	1.2363E+01	9.9577E-01	4.0429E+00	3.2026E-01
9.800	5.7405E+00	3.0176E-01	1.2382E+01	1.0010E+00	4.0443E+00	3.2066E-01
10.100	5.7935E+00	3.0472E-01	1.2400E+01	1.0059E+00	4.0457E+00	3.2104E-01
10.400	5.8425E+00	3.0745E-01	1.2417E+01	1.0107E+00	4.0470E+00	3.2140E-01
24.000	6.4847E+00	3.4174E-01	1.2865E+01	1.1236E+00	4.0813E+00	3.3004E-01
96.000	6.5972E+00	3.4576E-01	1.3842E+01	1.2455E+00	4.1054E+00	3.3305E-01
720.000	6.7367E+00	3.5042E-01	1.6517E+01	1.4894E+00	4.1196E+00	3.3434E-01

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#################################################################
                        Worst Two-Hour Doses
    Note: All of the dose locations are shown below but the
          worst two-hour dose is only meaningful for the EAB
          dose location.  Please disregard the two-hour worst
          doses for the other dose locations
#################################################################
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CR

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
1.5	1.0025E-03	1.9644E+00	1.0360E-01

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.0	8.8963E-02	8.6394E+00	5.4274E-01

LPZ

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
0.0	2.9306E-02	2.8459E+00	1.7878E-01

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	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.250	9.9420E-08	1.8793E-08	4.4170E-04	3.5178E-05	1.4550E-04	1.1588E-05
0.500	7.2489E-06	1.5081E-06	8.0474E-03	7.0758E-04	2.6509E-03	2.3308E-04
0.533	9.5083E-06	2.0171E-06	9.7030E-03	8.6920E-04	3.1963E-03	2.8632E-04
0.785	3.4785E-05	8.5780E-06	2.7572E-02	3.1190E-03	9.0825E-03	1.0274E-03
1.035	8.1096E-05	2.6418E-05	5.6566E-02	8.6671E-03	1.8634E-02	2.8550E-03
1.285	1.5847E-04	6.9573E-05	9.7200E-02	1.9095E-02	3.2019E-02	6.2902E-03
1.535	2.7604E-04	1.5597E-04	1.4903E-01	3.5508E-02	4.9093E-02	1.1697E-02
1.785	4.4184E-04	3.0546E-04	2.1147E-01	5.8680E-02	6.9662E-02	1.9330E-02
2.033	6.6069E-04	5.3578E-04	2.8340E-01	8.8895E-02	9.3355E-02	2.9283E-02
2.033	6.6072E-04	5.3581E-04	2.8341E-01	8.8899E-02	9.3358E-02	2.9284E-02
2.290	9.1931E-04	8.2666E-04	3.6574E-01	1.2761E-01	1.2048E-01	4.2037E-02
2.440	1.0780E-03	1.0115E-03	4.1483E-01	1.5316E-01	1.3665E-01	5.0452E-02
2.690	1.3544E-03	1.3481E-03	4.9578E-01	1.9957E-01	1.6331E-01	6.5741E-02
2.940	1.6443E-03	1.7237E-03	5.7525E-01	2.4989E-01	1.8949E-01	8.2316E-02
3.190	1.9464E-03	2.1402E-03	6.5308E-01	3.0324E-01	2.1513E-01	9.9890E-02
3.440	2.2592E-03	2.5978E-03	7.2913E-01	3.5888E-01	2.4019E-01	1.1822E-01
3.690	2.5815E-03	3.0956E-03	8.0330E-01	4.1620E-01	2.6462E-01	1.3710E-01
3.940	2.9119E-03	3.6320E-03	8.7550E-01	4.7465E-01	2.8840E-01	1.5635E-01
4.300	3.3998E-03	4.4742E-03	9.7593E-01	5.6061E-01	3.2148E-01	1.8467E-01
4.600	3.8149E-03	5.2287E-03	1.0563E+00	6.3266E-01	3.4797E-01	2.0841E-01
4.900	4.2356E-03	6.0243E-03	1.1337E+00	7.0445E-01	3.7345E-01	2.3205E-01
5.200	4.6602E-03	6.8555E-03	1.2080E+00	7.7558E-01	3.9792E-01	2.5548E-01
5.500	5.0872E-03	7.7168E-03	1.2793E+00	8.4572E-01	4.2140E-01	2.7859E-01
5.800	5.5151E-03	8.6030E-03	1.3475E+00	9.1464E-01	4.4389E-01	3.0129E-01
6.100	5.9426E-03	9.5091E-03	1.4128E+00	9.8214E-01	4.6540E-01	3.2353E-01
6.400	6.3684E-03	1.0431E-02	1.4753E+00	1.0481E+00	4.8597E-01	3.4525E-01
6.700	6.7915E-03	1.1363E-02	1.5349E+00	1.1124E+00	5.0560E-01	3.6643E-01
7.000	7.2110E-03	1.2303E-02	1.5917E+00	1.1750E+00	5.2433E-01	3.8704E-01
7.300	7.6259E-03	1.3246E-02	1.6459E+00	1.2358E+00	5.4219E-01	4.0707E-01
7.600	8.0355E-03	1.4190E-02	1.6976E+00	1.2948E+00	5.5921E-01	4.2651E-01
7.900	8.4393E-03	1.5131E-02	1.7468E+00	1.3520E+00	5.7541E-01	4.4536E-01
8.000	8.5725E-03	1.5444E-02	1.7626E+00	1.3707E+00	5.8063E-01	4.5152E-01
8.300	8.9612E-03	1.6353E-02	1.7863E+00	1.4243E+00	5.8245E-01	4.5561E-01
8.600	9.3313E-03	1.7208E-02	1.8088E+00	1.4762E+00	5.8417E-01	4.5958E-01
8.900	9.6837E-03	1.8015E-02	1.8302E+00	1.5264E+00	5.8580E-01	4.6343E-01
9.200	1.0020E-02	1.8778E-02	1.8506E+00	1.5751E+00	5.8736E-01	4.6715E-01
9.500	1.0340E-02	1.9502E-02	1.8699E+00	1.6222E+00	5.8884E-01	4.7075E-01
9.800	1.0645E-02	2.0191E-02	1.8883E+00	1.6677E+00	5.9025E-01	4.7423E-01
10.100	1.0937E-02	2.0847E-02	1.9058E+00	1.7119E+00	5.9158E-01	4.7761E-01
10.400	1.1215E-02	2.1475E-02	1.9224E+00	1.7546E+00	5.9285E-01	4.8087E-01
24.000	1.7103E-02	3.7630E-02	2.2287E+00	2.9047E+00	6.1627E-01	5.6882E-01
96.000	1.9888E-02	4.6819E-02	2.5057E+00	4.1603E+00	6.2312E-01	5.9984E-01

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720.000 2.3086E-02 5.3729E-02 3.1728E+00 6.1706E+00 6.2665E-01 6.1049E-01

#################################################################
                    Worst Two-Hour Doses
   Note: All of the dose locations are shown below but the
         worst two-hour dose is only meaningful for the EAB
         dose location.  Please disregard the two-hour worst
         doses for the other dose locations
#################################################################

CR
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    6.1   6.0975E-03   2.7595E-03   6.2383E-03

EAB
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    3.7   4.4354E-01   5.1857E-01   4.7313E-01

LPZ
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    3.7   1.4611E-01   1.7082E-01   1.5585E-01
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Columbia_4u.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.250	2.7691E-06	1.2245E-07	4.4170E-04	3.5178E-05	1.4550E-04	1.1588E-05
0.500	2.0172E-04	8.9633E-06	8.0474E-03	7.0757E-04	2.6509E-03	2.3308E-04
0.533	2.6471E-04	1.1775E-05	9.7030E-03	8.6919E-04	3.1963E-03	2.8632E-04
0.785	9.8116E-04	4.4377E-05	2.7572E-02	3.1190E-03	9.0825E-03	1.0274E-03
1.035	2.3129E-03	1.1006E-04	5.6566E-02	8.6670E-03	1.8634E-02	2.8550E-03
1.285	4.5508E-03	2.3108E-04	9.7200E-02	1.9095E-02	3.2019E-02	6.2902E-03
1.535	7.9577E-03	4.2988E-04	1.4903E-01	3.5508E-02	4.9093E-02	1.1697E-02
1.785	1.2762E-02	7.2764E-04	2.1147E-01	5.8679E-02	6.9662E-02	1.9330E-02
2.033	1.9099E-02	1.1397E-03	2.8340E-01	8.8895E-02	9.3355E-02	2.9283E-02
2.033	1.9100E-02	1.1397E-03	2.8341E-01	8.8899E-02	9.3358E-02	2.9284E-02
2.290	2.6701E-02	1.6469E-03	3.6574E-01	1.2761E-01	1.2048E-01	4.2037E-02
2.440	3.1447E-02	1.9683E-03	4.1483E-01	1.5316E-01	1.3665E-01	5.0452E-02
2.690	3.9823E-02	2.5453E-03	4.9578E-01	1.9957E-01	1.6331E-01	6.5740E-02
2.940	4.8731E-02	3.1720E-03	5.7525E-01	2.4989E-01	1.8949E-01	8.2315E-02
3.190	5.8110E-02	3.8454E-03	6.5308E-01	3.0324E-01	2.1513E-01	9.9889E-02
3.440	6.7901E-02	4.5624E-03	7.2913E-01	3.5888E-01	2.4019E-01	1.1822E-01
3.690	7.8049E-02	5.3192E-03	8.0330E-01	4.1619E-01	2.6462E-01	1.3710E-01
3.940	8.8501E-02	6.1120E-03	8.7550E-01	4.7465E-01	2.8840E-01	1.5635E-01
4.300	1.0399E-01	7.3119E-03	9.7593E-01	5.6061E-01	3.2148E-01	1.8467E-01
4.600	1.1721E-01	8.3546E-03	1.0563E+00	6.3266E-01	3.4797E-01	2.0841E-01
4.900	1.3062E-01	9.4286E-03	1.1337E+00	7.0445E-01	3.7345E-01	2.3205E-01
5.200	1.4416E-01	1.0528E-02	1.2080E+00	7.7557E-01	3.9792E-01	2.5548E-01
5.500	1.5776E-01	1.1646E-02	1.2793E+00	8.4571E-01	4.2140E-01	2.7859E-01

5.800	1.7137E-01	1.2777E-02	1.3475E+00	9.1463E-01	4.4389E-01	3.0129E-01
6.100	1.8495E-01	1.3916E-02	1.4128E+00	9.8213E-01	4.6540E-01	3.2353E-01
6.400	1.9843E-01	1.5059E-02	1.4753E+00	1.0481E+00	4.8597E-01	3.4525E-01
6.700	2.1179E-01	1.6201E-02	1.5349E+00	1.1124E+00	5.0560E-01	3.6643E-01
7.000	2.2499E-01	1.7339E-02	1.5917E+00	1.1749E+00	5.2433E-01	3.8704E-01
7.300	2.3799E-01	1.8468E-02	1.6459E+00	1.2357E+00	5.4219E-01	4.0707E-01
7.600	2.5077E-01	1.9587E-02	1.6976E+00	1.2948E+00	5.5921E-01	4.2651E-01
7.900	2.6331E-01	2.0692E-02	1.7468E+00	1.3520E+00	5.7541E-01	4.4536E-01
8.000	2.6744E-01	2.1057E-02	1.7626E+00	1.3707E+00	5.8063E-01	4.5151E-01
8.300	2.7947E-01	2.2123E-02	1.7863E+00	1.4242E+00	5.8245E-01	4.5561E-01
8.600	2.9095E-01	2.3138E-02	1.8088E+00	1.4761E+00	5.8417E-01	4.5958E-01
8.900	3.0190E-01	2.4107E-02	1.8302E+00	1.5264E+00	5.8580E-01	4.6342E-01
9.200	3.1234E-01	2.5032E-02	1.8506E+00	1.5751E+00	5.8736E-01	4.6714E-01
9.500	3.2229E-01	2.5916E-02	1.8699E+00	1.6221E+00	5.8884E-01	4.7074E-01
9.800	3.3178E-01	2.6760E-02	1.8883E+00	1.6677E+00	5.9025E-01	4.7423E-01
10.100	3.4083E-01	2.7568E-02	1.9058E+00	1.7118E+00	5.9158E-01	4.7760E-01
10.400	3.4945E-01	2.8340E-02	1.9224E+00	1.7545E+00	5.9285E-01	4.8087E-01
24.000	5.0612E-01	4.4679E-02	2.2287E+00	2.9046E+00	6.1627E-01	5.6882E-01
96.000	5.3501E-01	4.9793E-02	2.5057E+00	4.1602E+00	6.2312E-01	5.9984E-01
720.000	5.6182E-01	5.3473E-02	3.1728E+00	6.1705E+00	6.2665E-01	6.1048E-01

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#################################################################
                    Worst Two-Hour Doses
   Note: All of the dose locations are shown below but the
         worst two-hour dose is only meaningful for the EAB
         dose location.  Please disregard the two-hour worst
         doses for the other dose locations
#################################################################
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CR

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
5.5	2.5156E-03	8.8754E-02	7.5686E-03

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
3.7	4.4353E-01	5.1857E-01	4.7313E-01

LPZ

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
3.7	1.4610E-01	1.7082E-01	1.5585E-01

Columbia_5f.o0

	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.250	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.500	1.1005E-06	3.8584E-08	4.0890E-04	1.5870E-05	1.3470E-04	5.2278E-06
0.533	1.6009E-06	5.6264E-08	5.4330E-04	2.1138E-05	1.7897E-04	6.9632E-06
0.785	8.9238E-06	3.2248E-07	2.4912E-03	1.0193E-04	8.2062E-04	3.3576E-05

1.035	2.8162E-05	1.0875E-06	6.7855E-03	3.0126E-04	2.2352E-03	9.9240E-05
1.285	7.0132E-05	2.9299E-06	1.4403E-02	6.9043E-04	4.7444E-03	2.2743E-04
1.535	1.4868E-04	6.6890E-06	2.6249E-02	1.3453E-03	8.6469E-03	4.4317E-04
1.785	2.8022E-04	1.3467E-05	4.3174E-02	2.3459E-03	1.4222E-02	7.7276E-04
2.033	4.8112E-04	2.4495E-05	6.5792E-02	3.7637E-03	2.1673E-02	1.2398E-03
2.033	4.8115E-04	2.4497E-05	6.5796E-02	3.7639E-03	2.1674E-02	1.2399E-03
2.290	7.4026E-04	3.9238E-05	9.5841E-02	5.7430E-03	3.1571E-02	1.8918E-03
2.440	9.0903E-04	4.9060E-05	1.1646E-01	7.1395E-03	3.8363E-02	2.3518E-03
2.690	1.2242E-03	6.7856E-05	1.5557E-01	9.8432E-03	5.1246E-02	3.2425E-03
2.940	1.5875E-03	9.0164E-05	2.0031E-01	1.2997E-02	6.5983E-02	4.2814E-03
3.190	2.0048E-03	1.1646E-04	2.5033E-01	1.6579E-02	8.2461E-02	5.4612E-03
3.440	2.4807E-03	1.4716E-04	3.0532E-01	2.0567E-02	1.0058E-01	6.7749E-03
3.690	3.0193E-03	1.8259E-04	3.6497E-01	2.4941E-02	1.2023E-01	8.2158E-03
3.940	3.6236E-03	2.2304E-04	4.2900E-01	2.9682E-02	1.4132E-01	9.7776E-03
4.300	4.6146E-03	2.9065E-04	5.2843E-01	3.7128E-02	1.7407E-01	1.2231E-02
4.600	5.5523E-03	3.5566E-04	6.1727E-01	4.3847E-02	2.0334E-01	1.4444E-02
4.900	6.5934E-03	4.2873E-04	7.1113E-01	5.0999E-02	2.3425E-01	1.6800E-02
5.200	7.7390E-03	5.0997E-04	8.0963E-01	5.8558E-02	2.6670E-01	1.9290E-02
5.500	8.9889E-03	5.9941E-04	9.1242E-01	6.6498E-02	3.0056E-01	2.1905E-02
5.800	1.0343E-02	6.9705E-04	1.0192E+00	7.4794E-02	3.3573E-01	2.4638E-02
6.100	1.1799E-02	8.0281E-04	1.1296E+00	8.3422E-02	3.7212E-01	2.7480E-02
6.400	1.3357E-02	9.1660E-04	1.2435E+00	9.2361E-02	4.0962E-01	3.0425E-02
6.700	1.5013E-02	1.0383E-03	1.3605E+00	1.0159E-01	4.4815E-01	3.3464E-02
7.000	1.6766E-02	1.1677E-03	1.4803E+00	1.1108E-01	4.8764E-01	3.6592E-02
7.300	1.8613E-02	1.3046E-03	1.6029E+00	1.2083E-01	5.2801E-01	3.9802E-02
7.600	2.0551E-02	1.4488E-03	1.7279E+00	1.3080E-01	5.6919E-01	4.3088E-02
7.900	2.2577E-02	1.6001E-03	1.8552E+00	1.4099E-01	6.1112E-01	4.6445E-02
8.000	2.3271E-02	1.6520E-03	1.8981E+00	1.4443E-01	6.2525E-01	4.7578E-02
8.300	2.5350E-02	1.8074E-03	1.9649E+00	1.5292E-01	6.3036E-01	4.8227E-02
8.600	2.7395E-02	1.9597E-03	2.0328E+00	1.6156E-01	6.3555E-01	4.8887E-02
8.900	2.9410E-02	2.1097E-03	2.1015E+00	1.7033E-01	6.4080E-01	4.9558E-02
9.200	3.1401E-02	2.2575E-03	2.1709E+00	1.7922E-01	6.4611E-01	5.0238E-02
9.500	3.3370E-02	2.4037E-03	2.2412E+00	1.8823E-01	6.5149E-01	5.0927E-02
9.800	3.5322E-02	2.5485E-03	2.3121E+00	1.9734E-01	6.5691E-01	5.1624E-02
10.100	3.7260E-02	2.6922E-03	2.3836E+00	2.0654E-01	6.6238E-01	5.2327E-02
10.400	3.9185E-02	2.8350E-03	2.4557E+00	2.1582E-01	6.6789E-01	5.3037E-02
24.000	1.2530E-01	9.1702E-03	5.8598E+00	6.3444E-01	9.2820E-01	8.5049E-02
96.000	2.9912E-01	1.7180E-02	2.4124E+01	1.6182E+00	1.3794E+00	1.0935E-01
720.000	5.4184E-01	2.5525E-02	7.4509E+01	3.4448E+00	1.6462E+00	1.1902E-01

```
#################################################################
                    Worst Two-Hour Doses
   Note: All of the dose locations are shown below but the
         worst two-hour dose is only meaningful for the EAB
         dose location.  Please disregard the two-hour worst
         doses for the other dose locations
#################################################################
```

CR

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
7.6	5.8532E-04	1.3470E-02	1.0032E-03

EAB

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
6.0	3.8870E-02	8.0525E-01	6.3887E-02

LPZ

Time (hr)	Whole Body (rem)	Thyroid (rem)	TEDE (rem)
6.0	1.2804E-02	2.6526E-01	2.1045E-02

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	CR		EAB		LPZ	
Time (hr)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)	Thyroid (rem)	TEDE (rem)
0.001	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.033	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.167	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.250	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.500	7.3441E-06	2.3413E-07	4.0890E-04	1.5870E-05	1.3470E-04	5.2278E-06
0.533	1.0696E-05	3.4099E-07	5.4330E-04	2.1138E-05	1.7897E-04	6.9632E-06
0.785	6.0955E-05	1.9440E-06	2.4912E-03	1.0193E-04	8.2062E-04	3.3576E-05
1.035	1.9499E-04	6.2357E-06	6.7855E-03	3.0126E-04	2.2352E-03	9.9240E-05
1.285	4.8876E-04	1.5691E-05	1.4403E-02	6.9042E-04	4.7444E-03	2.2743E-04
1.535	1.0395E-03	3.3503E-05	2.6249E-02	1.3453E-03	8.6469E-03	4.4317E-04
1.785	1.9625E-03	6.3496E-05	4.3174E-02	2.3459E-03	1.4222E-02	7.7275E-04
2.033	3.3732E-03	1.0953E-04	6.5792E-02	3.7637E-03	2.1673E-02	1.2398E-03
2.033	3.3734E-03	1.0954E-04	6.5796E-02	3.7639E-03	2.1674E-02	1.2399E-03
2.290	5.2352E-03	1.7045E-04	9.5841E-02	5.7430E-03	3.1571E-02	1.8918E-03
2.440	6.4796E-03	2.1123E-04	1.1646E-01	7.1395E-03	3.8363E-02	2.3518E-03
2.690	8.8546E-03	2.8920E-04	1.5557E-01	9.8432E-03	5.1246E-02	3.2425E-03
2.940	1.1653E-02	3.8127E-04	2.0031E-01	1.2997E-02	6.5983E-02	4.2814E-03
3.190	1.4922E-02	4.8903E-04	2.5033E-01	1.6579E-02	8.2461E-02	5.4612E-03
3.440	1.8701E-02	6.1377E-04	3.0532E-01	2.0567E-02	1.0058E-01	6.7749E-03
3.690	2.3020E-02	7.5656E-04	3.6497E-01	2.4941E-02	1.2023E-01	8.2158E-03
3.940	2.7905E-02	9.1824E-04	4.2900E-01	2.9682E-02	1.4132E-01	9.7775E-03
4.300	3.5976E-02	1.1857E-03	5.2843E-01	3.7128E-02	1.7407E-01	1.2230E-02
4.600	4.3659E-02	1.4407E-03	6.1727E-01	4.3847E-02	2.0334E-01	1.4444E-02
4.900	5.2226E-02	1.7251E-03	7.1113E-01	5.0999E-02	2.3425E-01	1.6800E-02
5.200	6.1683E-02	2.0393E-03	8.0963E-01	5.8558E-02	2.6670E-01	1.9290E-02
5.500	7.2029E-02	2.3831E-03	9.1242E-01	6.6498E-02	3.0056E-01	2.1905E-02
5.800	8.3258E-02	2.7565E-03	1.0192E+00	7.4794E-02	3.3573E-01	2.4638E-02
6.100	9.5359E-02	3.1590E-03	1.1296E+00	8.3422E-02	3.7212E-01	2.7480E-02
6.400	1.0832E-01	3.5901E-03	1.2435E+00	9.2360E-02	4.0962E-01	3.0425E-02
6.700	1.2212E-01	4.0492E-03	1.3605E+00	1.0159E-01	4.4815E-01	3.3464E-02
7.000	1.3673E-01	4.5357E-03	1.4803E+00	1.1108E-01	4.8764E-01	3.6592E-02
7.300	1.5214E-01	5.0487E-03	1.6029E+00	1.2083E-01	5.2801E-01	3.9802E-02
7.600	1.6833E-01	5.5874E-03	1.7279E+00	1.3080E-01	5.6919E-01	4.3088E-02
7.900	1.8526E-01	6.1510E-03	1.8552E+00	1.4099E-01	6.1112E-01	4.6444E-02
8.000	1.9106E-01	6.3442E-03	1.8981E+00	1.4443E-01	6.2525E-01	4.7578E-02
8.300	2.0853E-01	6.9255E-03	1.9649E+00	1.5292E-01	6.3036E-01	4.8227E-02
8.600	2.2588E-01	7.5028E-03	2.0328E+00	1.6156E-01	6.3555E-01	4.8887E-02
8.900	2.4316E-01	8.0772E-03	2.1015E+00	1.7033E-01	6.4080E-01	4.9558E-02
9.200	2.6037E-01	8.6494E-03	2.1709E+00	1.7922E-01	6.4611E-01	5.0238E-02
9.500	2.7755E-01	9.2203E-03	2.2412E+00	1.8823E-01	6.5149E-01	5.0927E-02
9.800	2.9471E-01	9.7904E-03	2.3121E+00	1.9734E-01	6.5691E-01	5.1623E-02
10.100	3.1187E-01	1.0360E-02	2.3836E+00	2.0654E-01	6.6238E-01	5.2327E-02
10.400	3.2904E-01	1.0930E-02	2.4557E+00	2.1582E-01	6.6789E-01	5.3037E-02
24.000	1.1430E+00	3.7822E-02	5.8598E+00	6.3444E-01	9.2820E-01	8.5049E-02
96.000	2.6742E+00	8.5881E-02	2.4124E+01	1.6181E+00	1.3794E+00	1.0935E-01

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 720.000 4.6988E+00 1.4795E-01 7.4509E+01 3.4448E+00 1.6462E+00 1.1902E-01

#####################################################################
                        Worst Two-Hour Doses
    Note: All of the dose locations are shown below but the
          worst two-hour dose is only meaningful for the EAB
          dose location.  Please disregard the two-hour worst
          doses for the other dose locations
#####################################################################

CR
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
   14.6   2.6103E-04   1.1969E-01   3.9547E-03

EAB
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    6.0   3.8869E-02   8.0525E-01   6.3887E-02

LPZ
   Time    Whole Body    Thyroid        TEDE
   (hr)      (rem)        (rem)         (rem)
    6.0   1.2804E-02   2.6526E-01   2.1045E-02
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APPENDIX K

CALCULATION OF OFFSITE DOSES USING RADTRAD RUNS

Revision of Offsite X/Qs

The RADTRAD results provided in Appendix J are based on preliminary values for offsite X/Qs. Since dose varies linearly with X/Qs, some multipliers equal to the revised X/Qs divided by the preliminary X/Qs were calculated and used to retrieve revised offsite doses.

Preliminary X/Qs (used in RADTRAD runs)			Revised X/Qs (per Reference 3 and Attachment 1)		
EAB:	0-30d	1.7E-4	EAB:	0-30d	1.8E-4
LPZ:	0-8hr	5.6E-5	LPZ:	0-8hr	5.04E-5
	8-24hr	1.3E-5		8-24hr	3.76E-5
	1-4d	4.2E-6		1-4d	1.99E-5
	4-30d	9.0E-7		4-30d	7.97E-6

The dose multipliers are, therefore, as follows:

EAB:	0-30d	1.8E-4/1.7E-4 = 1.059
LPZ:	0-8hr	5.04E-5/5.6E-5 = 0.900
	8-24hr	3.76E-5/1.3E-5 = 2.892
	1-4d	1.99E-5/4.2E-6 = 4.738
	4-30d	7.97E-6/9.0E-7 = 8.856

The calculation performed in a spreadsheet provided below is as follows:

- Cumulative offsite doses are calculated adding together the doses for each of the 5 different RADTRAD runs corresponding to five different release pathways to the environment (Table 1). (Note that here one uses "filtered" runs. Identical results would be obtained using the five "unfiltered" runs as the differences between "f" runs and "u" runs only deal with CR modeling. Nothing relates to offsite doses)
- Dose increments over each time step are calculated (Table 2)
- Dose increments are multiplied by the correct multipliers for each time frame (Table 2)
- Revised cumulative offsite doses are reconstructed based on the new dose increments (Table 2).

Calculation of a Maximum 2-Hour EAB Dose

The maximum 2-hour EAB dose of one complete RADTRAD run is not the sum of the five maximum 2-hour EAB doses of the five single runs that constitute that complete run. Therefore, that same spreadsheet was also used to retrieve the correct maximum 2-hour EAB dose, taking into account the dose multipliers described above (Table 2).

Offsite Dose Results

The offsite dose results are as follows:

Max 2-hour EAB	= 2.50 Rem TEDE
30-day LPZ	= 2.77 Rem TEDE

Table 1

	Offsite Dose for each RADTRAD Run									
	1f		2f		3f		4f		5f	
Time (hr)	EAB (rem)	LPZ (rem)	EAB (rem)	LPZ (rem)	EAB (rem)	LPZ (rem)	EAB (rem)	LPZ (rem)	EAB (rem)	LPZ (rem)
0.005	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.015	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.025	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.035	1.77E-06	5.82E-07	1.14E-06	3.75E-07	1.34E-05	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.04	2.82E-05	9.29E-06	1.82E-05	5.98E-06	2.13E-04	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.045	8.63E-05	2.84E-05	5.56E-05	1.83E-05	6.52E-04	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.05	1.76E-04	5.80E-05	1.13E-04	3.73E-05	1.33E-03	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.055	2.97E-04	9.80E-05	1.91E-04	6.31E-05	2.25E-03	7.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.06	4.50E-04	1.48E-04	2.90E-04	9.55E-05	3.40E-03	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.065	6.35E-04	2.09E-04	4.09E-04	1.35E-04	4.80E-03	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.07	8.51E-04	2.80E-04	5.48E-04	1.80E-04	6.43E-03	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.075	1.10E-03	3.62E-04	7.07E-04	2.33E-04	8.31E-03	2.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.08	1.38E-03	4.54E-04	8.87E-04	2.92E-04	1.04E-02	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.085	1.69E-03	5.56E-04	1.09E-03	3.58E-04	1.28E-02	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.09	2.03E-03	6.69E-04	1.31E-03	4.31E-04	1.54E-02	5.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.095	2.41E-03	7.92E-04	1.55E-03	5.10E-04	1.82E-02	5.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.1	2.81E-03	9.26E-04	1.81E-03	5.96E-04	2.12E-02	7.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.105	3.25E-03	1.07E-03	2.09E-03	6.88E-04	2.45E-02	8.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.11	3.72E-03	1.22E-03	2.39E-03	7.88E-04	2.81E-02	9.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.115	4.22E-03	1.39E-03	2.71E-03	8.93E-04	3.19E-02	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.12	4.75E-03	1.56E-03	3.05E-03	1.01E-03	3.59E-02	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.125	5.31E-03	1.75E-03	3.42E-03	1.13E-03	4.01E-02	1.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.13	5.90E-03	1.94E-03	3.80E-03	1.25E-03	4.46E-02	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.135	6.53E-03	2.15E-03	4.20E-03	1.38E-03	4.93E-02	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.14	7.18E-03	2.37E-03	4.62E-03	1.52E-03	5.43E-02	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.145	7.87E-03	2.59E-03	5.06E-03	1.67E-03	5.95E-02	1.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0.15	8.59E-03	2.83E-03	5.53E-03	1.82E-03	6.49E-02	2.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.155	9.34E-03	3.08E-03	6.01E-03	1.98E-03	7.06E-02	2.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.16	1.01E-02	3.34E-03	6.51E-03	2.15E-03	7.65E-02	2.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.165	1.09E-02	3.60E-03	7.03E-03	2.32E-03	8.27E-02	2.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.17	1.18E-02	3.88E-03	7.58E-03	2.50E-03	8.55E-02	2.82E-02	3.89E-08	1.28E-08	0.00E+00	0.00E+00
0.175	1.27E-02	4.17E-03	8.14E-03	2.68E-03	8.60E-02	2.83E-02	2.80E-07	9.21E-08	0.00E+00	0.00E+00
0.18	1.36E-02	4.47E-03	8.72E-03	2.87E-03	8.65E-02	2.85E-02	7.47E-07	2.46E-07	0.00E+00	0.00E+00
0.185	1.45E-02	4.78E-03	9.33E-03	3.07E-03	8.70E-02	2.87E-02	1.45E-06	4.77E-07	0.00E+00	0.00E+00
0.19	1.55E-02	5.10E-03	9.95E-03	3.28E-03	8.75E-02	2.88E-02	2.39E-06	7.87E-07	0.00E+00	0.00E+00
0.195	1.65E-02	5.43E-03	1.06E-02	3.49E-03	8.81E-02	2.90E-02	3.58E-06	1.18E-06	0.00E+00	0.00E+00
0.2	1.75E-02	5.77E-03	1.13E-02	3.71E-03	8.87E-02	2.92E-02	5.03E-06	1.66E-06	0.00E+00	0.00E+00
0.205	1.86E-02	6.12E-03	1.19E-02	3.93E-03	8.93E-02	2.94E-02	6.74E-06	2.22E-06	0.00E+00	0.00E+00
0.21	1.97E-02	6.48E-03	1.26E-02	4.16E-03	8.99E-02	2.96E-02	8.72E-06	2.87E-06	0.00E+00	0.00E+00
0.215	2.08E-02	6.85E-03	1.34E-02	4.40E-03	9.05E-02	2.98E-02	1.10E-05	3.62E-06	0.00E+00	0.00E+00
0.22	2.19E-02	7.23E-03	1.41E-02	4.65E-03	9.12E-02	3.00E-02	1.35E-05	4.45E-06	0.00E+00	0.00E+00
0.225	2.31E-02	7.62E-03	1.49E-02	4.90E-03	9.19E-02	3.03E-02	1.64E-05	5.39E-06	0.00E+00	0.00E+00
0.23	2.43E-02	8.02E-03	1.57E-02	5.16E-03	9.25E-02	3.05E-02	1.95E-05	6.42E-06	0.00E+00	0.00E+00
0.235	2.56E-02	8.43E-03	1.65E-02	5.42E-03	9.32E-02	3.07E-02	2.29E-05	7.56E-06	0.00E+00	0.00E+00
0.24	2.69E-02	8.85E-03	1.73E-02	5.69E-03	9.40E-02	3.10E-02	2.67E-05	8.79E-06	0.00E+00	0.00E+00
0.245	2.82E-02	9.28E-03	1.81E-02	5.97E-03	9.47E-02	3.12E-02	3.08E-05	1.01E-05	0.00E+00	0.00E+00
0.25	2.95E-02	9.73E-03	1.90E-02	6.25E-03	9.55E-02	3.14E-02	3.52E-05	1.16E-05	0.00E+00	0.00E+00
0.255	3.09E-02	1.02E-02	1.98E-02	6.54E-03	9.62E-02	3.17E-02	3.99E-05	1.32E-05	4.64E-09	1.53E-09
0.26	3.22E-02	1.06E-02	2.07E-02	6.82E-03	9.70E-02	3.19E-02	4.50E-05	1.48E-05	1.87E-08	6.15E-09
0.265	3.36E-02	1.11E-02	2.16E-02	7.11E-03	9.77E-02	3.22E-02	5.04E-05	1.66E-05	4.23E-08	1.39E-08
0.27	3.49E-02	1.15E-02	2.24E-02	7.39E-03	9.85E-02	3.24E-02	5.62E-05	1.85E-05	7.58E-08	2.50E-08
0.275	3.62E-02	1.19E-02	2.33E-02	7.67E-03	9.92E-02	3.27E-02	6.23E-05	2.05E-05	1.19E-07	3.93E-08
0.28	3.75E-02	1.24E-02	2.41E-02	7.95E-03	9.99E-02	3.29E-02	6.87E-05	2.26E-05	1.73E-07	5.70E-08
0.285	3.88E-02	1.28E-02	2.50E-02	8.22E-03	1.01E-01	3.32E-02	7.55E-05	2.49E-05	2.37E-07	7.82E-08
0.29	4.01E-02	1.32E-02	2.58E-02	8.50E-03	1.01E-01	3.34E-02	8.26E-05	2.72E-05	3.12E-07	1.03E-07
0.295	4.14E-02	1.36E-02	2.66E-02	8.77E-03	1.02E-01	3.36E-02	9.00E-05	2.97E-05	3.98E-07	1.31E-07
0.3	4.26E-02	1.40E-02	2.75E-02	9.05E-03	1.03E-01	3.39E-02	9.78E-05	3.22E-05	4.95E-07	1.63E-07
0.305	4.39E-02	1.45E-02	2.83E-02	9.32E-03	1.04E-01	3.41E-02	1.06E-04	3.49E-05	6.03E-07	1.99E-07
0.31	4.52E-02	1.49E-02	2.91E-02	9.59E-03	1.04E-01	3.43E-02	1.14E-04	3.77E-05	7.22E-07	2.38E-07
0.315	4.64E-02	1.53E-02	2.99E-02	9.86E-03	1.05E-01	3.46E-02	1.23E-04	4.06E-05	8.54E-07	2.81E-07
0.32	4.76E-02	1.57E-02	3.08E-02	1.01E-02	1.06E-01	3.48E-02	1.33E-04	4.37E-05	9.97E-07	3.28E-07

0.325	4.89E-02	1.61E-02	3.16E-02	1.04E-02	1.06E-01	3.50E-02	1.42E-04	4.68E-05	1.15E-06	3.80E-07
0.33	5.01E-02	1.65E-02	3.24E-02	1.07E-02	1.07E-01	3.53E-02	1.52E-04	5.01E-05	1.32E-06	4.35E-07
0.335	5.13E-02	1.69E-02	3.32E-02	1.09E-02	1.08E-01	3.55E-02	1.62E-04	5.34E-05	1.50E-06	4.94E-07
0.34	5.26E-02	1.73E-02	3.40E-02	1.12E-02	1.08E-01	3.57E-02	1.73E-04	5.69E-05	1.69E-06	5.58E-07
0.345	5.38E-02	1.77E-02	3.48E-02	1.15E-02	1.09E-01	3.59E-02	1.84E-04	6.05E-05	1.90E-06	6.26E-07
0.35	5.50E-02	1.81E-02	3.56E-02	1.17E-02	1.10E-01	3.62E-02	1.95E-04	6.43E-05	2.12E-06	6.98E-07
0.355	5.62E-02	1.85E-02	3.64E-02	1.20E-02	1.10E-01	3.64E-02	2.07E-04	6.81E-05	2.35E-06	7.74E-07
0.36	5.74E-02	1.89E-02	3.72E-02	1.22E-02	1.11E-01	3.66E-02	2.19E-04	7.21E-05	2.60E-06	8.56E-07
0.365	5.86E-02	1.93E-02	3.80E-02	1.25E-02	1.12E-01	3.68E-02	2.31E-04	7.62E-05	2.86E-06	9.41E-07
0.37	5.97E-02	1.97E-02	3.88E-02	1.28E-02	1.12E-01	3.70E-02	2.44E-04	8.04E-05	3.13E-06	1.03E-06
0.375	6.09E-02	2.01E-02	3.96E-02	1.30E-02	1.13E-01	3.73E-02	2.57E-04	8.47E-05	3.42E-06	1.13E-06
0.38	6.21E-02	2.05E-02	4.03E-02	1.33E-02	1.14E-01	3.75E-02	2.71E-04	8.91E-05	3.72E-06	1.23E-06
0.385	6.33E-02	2.08E-02	4.11E-02	1.35E-02	1.14E-01	3.77E-02	2.84E-04	9.37E-05	4.04E-06	1.33E-06
0.39	6.44E-02	2.12E-02	4.19E-02	1.38E-02	1.15E-01	3.79E-02	2.99E-04	9.84E-05	4.37E-06	1.44E-06
0.395	6.56E-02	2.16E-02	4.27E-02	1.41E-02	1.16E-01	3.81E-02	3.13E-04	1.03E-04	4.72E-06	1.55E-06
0.4	6.68E-02	2.20E-02	4.35E-02	1.43E-02	1.16E-01	3.83E-02	3.28E-04	1.08E-04	5.08E-06	1.67E-06
0.405	6.79E-02	2.24E-02	4.43E-02	1.46E-02	1.17E-01	3.86E-02	3.44E-04	1.13E-04	5.46E-06	1.80E-06
0.41	6.91E-02	2.27E-02	4.50E-02	1.48E-02	1.18E-01	3.88E-02	3.59E-04	1.18E-04	5.85E-06	1.93E-06
0.415	7.02E-02	2.31E-02	4.58E-02	1.51E-02	1.18E-01	3.90E-02	3.75E-04	1.24E-04	6.26E-06	2.06E-06
0.42	7.13E-02	2.35E-02	4.66E-02	1.53E-02	1.19E-01	3.92E-02	3.92E-04	1.29E-04	6.69E-06	2.20E-06
0.425	7.25E-02	2.39E-02	4.74E-02	1.56E-02	1.20E-01	3.94E-02	4.09E-04	1.35E-04	7.13E-06	2.35E-06
0.43	7.36E-02	2.43E-02	4.81E-02	1.59E-02	1.20E-01	3.96E-02	4.26E-04	1.40E-04	7.59E-06	2.50E-06
0.435	7.48E-02	2.46E-02	4.89E-02	1.61E-02	1.21E-01	3.98E-02	4.43E-04	1.46E-04	8.06E-06	2.66E-06
0.44	7.59E-02	2.50E-02	4.97E-02	1.64E-02	1.22E-01	4.00E-02	4.61E-04	1.52E-04	8.56E-06	2.82E-06
0.445	7.70E-02	2.54E-02	5.05E-02	1.66E-02	1.22E-01	4.02E-02	4.80E-04	1.58E-04	9.07E-06	2.99E-06
0.45	7.81E-02	2.57E-02	5.12E-02	1.69E-02	1.23E-01	4.05E-02	4.99E-04	1.64E-04	9.59E-06	3.16E-06
0.455	7.93E-02	2.61E-02	5.20E-02	1.71E-02	1.23E-01	4.07E-02	5.18E-04	1.71E-04	1.01E-05	3.34E-06
0.46	8.04E-02	2.65E-02	5.28E-02	1.74E-02	1.24E-01	4.09E-02	5.37E-04	1.77E-04	1.07E-05	3.53E-06
0.465	8.15E-02	2.68E-02	5.35E-02	1.76E-02	1.25E-01	4.11E-02	5.57E-04	1.84E-04	1.13E-05	3.72E-06
0.47	8.26E-02	2.72E-02	5.43E-02	1.79E-02	1.25E-01	4.13E-02	5.77E-04	1.90E-04	1.19E-05	3.91E-06
0.475	8.37E-02	2.76E-02	5.51E-02	1.81E-02	1.26E-01	4.15E-02	5.98E-04	1.97E-04	1.25E-05	4.12E-06
0.48	8.48E-02	2.79E-02	5.58E-02	1.84E-02	1.27E-01	4.17E-02	6.19E-04	2.04E-04	1.31E-05	4.33E-06
0.485	8.59E-02	2.83E-02	5.66E-02	1.86E-02	1.27E-01	4.19E-02	6.41E-04	2.11E-04	1.38E-05	4.54E-06
0.49	8.70E-02	2.87E-02	5.74E-02	1.89E-02	1.28E-01	4.21E-02	6.63E-04	2.18E-04	1.45E-05	4.76E-06
0.495	8.81E-02	2.90E-02	5.81E-02	1.91E-02	1.28E-01	4.23E-02	6.85E-04	2.26E-04	1.52E-05	4.99E-06

0.5	8.92E-02	2.94E-02	5.89E-02	1.94E-02	1.29E-01	4.25E-02	7.08E-04	2.33E-04	1.59E-05	5.23E-06
0.505	9.03E-02	2.98E-02	5.97E-02	1.97E-02	1.30E-01	4.27E-02	7.31E-04	2.41E-04	1.66E-05	5.47E-06
0.51	9.14E-02	3.01E-02	6.04E-02	1.99E-02	1.30E-01	4.29E-02	7.54E-04	2.48E-04	1.74E-05	5.72E-06
0.515	9.25E-02	3.05E-02	6.12E-02	2.02E-02	1.31E-01	4.31E-02	7.78E-04	2.56E-04	1.81E-05	5.97E-06
0.52	9.36E-02	3.08E-02	6.19E-02	2.04E-02	1.32E-01	4.33E-02	8.02E-04	2.64E-04	1.89E-05	6.23E-06
0.525	9.47E-02	3.12E-02	6.27E-02	2.07E-02	1.32E-01	4.35E-02	8.27E-04	2.72E-04	1.97E-05	6.50E-06
0.53	9.58E-02	3.16E-02	6.35E-02	2.09E-02	1.33E-01	4.37E-02	8.52E-04	2.81E-04	2.06E-05	6.78E-06
0.535	9.69E-02	3.19E-02	6.42E-02	2.12E-02	1.33E-01	4.39E-02	8.78E-04	2.89E-04	2.14E-05	7.06E-06
0.54	9.80E-02	3.23E-02	6.50E-02	2.14E-02	1.34E-01	4.41E-02	9.04E-04	2.98E-04	2.23E-05	7.35E-06
0.545	9.91E-02	3.27E-02	6.58E-02	2.17E-02	1.35E-01	4.43E-02	9.30E-04	3.06E-04	2.32E-05	7.64E-06
0.55	1.00E-01	3.30E-02	6.67E-02	2.20E-02	1.35E-01	4.46E-02	9.57E-04	3.15E-04	2.41E-05	7.95E-06
0.555	1.02E-01	3.34E-02	6.75E-02	2.22E-02	1.36E-01	4.48E-02	9.84E-04	3.24E-04	2.51E-05	8.26E-06
0.56	1.03E-01	3.39E-02	6.84E-02	2.25E-02	1.37E-01	4.50E-02	1.01E-03	3.33E-04	2.60E-05	8.58E-06
0.565	1.04E-01	3.43E-02	6.94E-02	2.28E-02	1.37E-01	4.53E-02	1.04E-03	3.43E-04	2.70E-05	8.90E-06
0.57	1.05E-01	3.47E-02	7.03E-02	2.32E-02	1.38E-01	4.55E-02	1.07E-03	3.52E-04	2.80E-05	9.24E-06
0.575	1.07E-01	3.52E-02	7.13E-02	2.35E-02	1.39E-01	4.58E-02	1.10E-03	3.62E-04	2.91E-05	9.58E-06
0.58	1.08E-01	3.56E-02	7.23E-02	2.38E-02	1.40E-01	4.60E-02	1.13E-03	3.72E-04	3.01E-05	9.93E-06
0.585	1.10E-01	3.61E-02	7.33E-02	2.42E-02	1.41E-01	4.63E-02	1.16E-03	3.82E-04	3.12E-05	1.03E-05
0.59	1.11E-01	3.66E-02	7.44E-02	2.45E-02	1.41E-01	4.66E-02	1.19E-03	3.92E-04	3.24E-05	1.07E-05
0.595	1.13E-01	3.71E-02	7.54E-02	2.49E-02	1.42E-01	4.68E-02	1.22E-03	4.03E-04	3.35E-05	1.10E-05
0.6	1.14E-01	3.76E-02	7.65E-02	2.52E-02	1.43E-01	4.71E-02	1.26E-03	4.14E-04	3.47E-05	1.14E-05
0.605	1.16E-01	3.81E-02	7.77E-02	2.56E-02	1.44E-01	4.74E-02	1.29E-03	4.25E-04	3.59E-05	1.18E-05
0.61	1.17E-01	3.86E-02	7.88E-02	2.60E-02	1.45E-01	4.77E-02	1.32E-03	4.36E-04	3.71E-05	1.22E-05
0.615	1.19E-01	3.92E-02	8.00E-02	2.63E-02	1.46E-01	4.80E-02	1.36E-03	4.47E-04	3.84E-05	1.26E-05
0.62	1.21E-01	3.97E-02	8.12E-02	2.67E-02	1.47E-01	4.83E-02	1.39E-03	4.59E-04	3.96E-05	1.31E-05
0.625	1.22E-01	4.02E-02	8.24E-02	2.71E-02	1.48E-01	4.86E-02	1.43E-03	4.71E-04	4.10E-05	1.35E-05
0.63	1.24E-01	4.08E-02	8.36E-02	2.75E-02	1.49E-01	4.89E-02	1.47E-03	4.83E-04	4.23E-05	1.39E-05
0.635	1.26E-01	4.14E-02	8.49E-02	2.80E-02	1.50E-01	4.93E-02	1.51E-03	4.96E-04	4.37E-05	1.44E-05
0.64	1.27E-01	4.19E-02	8.61E-02	2.84E-02	1.50E-01	4.96E-02	1.54E-03	5.09E-04	4.51E-05	1.49E-05
0.645	1.29E-01	4.25E-02	8.74E-02	2.88E-02	1.51E-01	4.99E-02	1.58E-03	5.22E-04	4.65E-05	1.53E-05
0.65	1.31E-01	4.31E-02	8.87E-02	2.92E-02	1.52E-01	5.02E-02	1.62E-03	5.35E-04	4.80E-05	1.58E-05
0.655	1.33E-01	4.37E-02	9.01E-02	2.97E-02	1.53E-01	5.06E-02	1.67E-03	5.49E-04	4.95E-05	1.63E-05
0.66	1.34E-01	4.43E-02	9.14E-02	3.01E-02	1.55E-01	5.09E-02	1.71E-03	5.63E-04	5.10E-05	1.68E-05
0.665	1.36E-01	4.49E-02	9.28E-02	3.06E-02	1.56E-01	5.12E-02	1.75E-03	5.77E-04	5.26E-05	1.73E-05
0.67	1.38E-01	4.55E-02	9.42E-02	3.10E-02	1.57E-01	5.16E-02	1.80E-03	5.92E-04	5.42E-05	1.79E-05

0.675	1.40E-01	4.61E-02	9.56E-02	3.15E-02	1.58E-01	5.19E-02	1.84E-03	6.07E-04	5.59E-05	1.84E-05
0.68	1.42E-01	4.68E-02	9.70E-02	3.20E-02	1.59E-01	5.23E-02	1.89E-03	6.22E-04	5.75E-05	1.90E-05
0.685	1.44E-01	4.74E-02	9.84E-02	3.24E-02	1.60E-01	5.26E-02	1.94E-03	6.38E-04	5.93E-05	1.95E-05
0.69	1.46E-01	4.80E-02	9.99E-02	3.29E-02	1.61E-01	5.30E-02	1.98E-03	6.53E-04	6.10E-05	2.01E-05
0.695	1.48E-01	4.87E-02	1.01E-01	3.34E-02	1.62E-01	5.34E-02	2.03E-03	6.70E-04	6.28E-05	2.07E-05
0.7	1.50E-01	4.93E-02	1.03E-01	3.39E-02	1.63E-01	5.37E-02	2.08E-03	6.86E-04	6.46E-05	2.13E-05
0.705	1.52E-01	5.00E-02	1.04E-01	3.44E-02	1.64E-01	5.41E-02	2.13E-03	7.03E-04	6.65E-05	2.19E-05
0.71	1.54E-01	5.06E-02	1.06E-01	3.49E-02	1.65E-01	5.45E-02	2.19E-03	7.21E-04	6.84E-05	2.25E-05
0.715	1.56E-01	5.13E-02	1.07E-01	3.54E-02	1.66E-01	5.48E-02	2.24E-03	7.38E-04	7.03E-05	2.32E-05
0.72	1.58E-01	5.20E-02	1.09E-01	3.59E-02	1.68E-01	5.52E-02	2.30E-03	7.56E-04	7.23E-05	2.38E-05
0.725	1.60E-01	5.26E-02	1.10E-01	3.64E-02	1.69E-01	5.56E-02	2.35E-03	7.75E-04	7.43E-05	2.45E-05
0.73	1.62E-01	5.33E-02	1.12E-01	3.69E-02	1.70E-01	5.60E-02	2.41E-03	7.94E-04	7.64E-05	2.52E-05
0.735	1.64E-01	5.40E-02	1.14E-01	3.74E-02	1.71E-01	5.64E-02	2.47E-03	8.13E-04	7.85E-05	2.59E-05
0.74	1.66E-01	5.47E-02	1.15E-01	3.80E-02	1.72E-01	5.67E-02	2.53E-03	8.32E-04	8.06E-05	2.66E-05
0.745	1.68E-01	5.54E-02	1.17E-01	3.85E-02	1.73E-01	5.71E-02	2.59E-03	8.52E-04	8.28E-05	2.73E-05
0.75	1.70E-01	5.61E-02	1.18E-01	3.90E-02	1.75E-01	5.75E-02	2.65E-03	8.73E-04	8.51E-05	2.80E-05
0.755	1.72E-01	5.68E-02	1.20E-01	3.96E-02	1.76E-01	5.79E-02	2.71E-03	8.94E-04	8.73E-05	2.88E-05
0.76	1.74E-01	5.75E-02	1.22E-01	4.01E-02	1.77E-01	5.83E-02	2.78E-03	9.15E-04	8.97E-05	2.95E-05
0.765	1.77E-01	5.82E-02	1.23E-01	4.07E-02	1.78E-01	5.87E-02	2.84E-03	9.37E-04	9.20E-05	3.03E-05
0.77	1.79E-01	5.89E-02	1.25E-01	4.12E-02	1.79E-01	5.91E-02	2.91E-03	9.59E-04	9.44E-05	3.11E-05
0.775	1.81E-01	5.96E-02	1.27E-01	4.18E-02	1.81E-01	5.95E-02	2.98E-03	9.81E-04	9.69E-05	3.19E-05
0.78	1.83E-01	6.03E-02	1.28E-01	4.23E-02	1.82E-01	5.99E-02	3.05E-03	1.00E-03	9.94E-05	3.27E-05
0.785	1.85E-01	6.11E-02	1.30E-01	4.29E-02	1.83E-01	6.03E-02	3.12E-03	1.03E-03	1.02E-04	3.36E-05
0.79	1.88E-01	6.18E-02	1.32E-01	4.35E-02	1.84E-01	6.07E-02	3.19E-03	1.05E-03	1.05E-04	3.44E-05
0.795	1.90E-01	6.25E-02	1.34E-01	4.40E-02	1.86E-01	6.12E-02	3.27E-03	1.08E-03	1.07E-04	3.53E-05
0.8	1.92E-01	6.32E-02	1.35E-01	4.46E-02	1.87E-01	6.16E-02	3.34E-03	1.10E-03	1.10E-04	3.62E-05
0.805	1.94E-01	6.40E-02	1.37E-01	4.52E-02	1.88E-01	6.20E-02	3.42E-03	1.13E-03	1.13E-04	3.71E-05
0.81	1.96E-01	6.47E-02	1.39E-01	4.58E-02	1.89E-01	6.24E-02	3.49E-03	1.15E-03	1.15E-04	3.80E-05
0.815	1.99E-01	6.55E-02	1.41E-01	4.63E-02	1.91E-01	6.28E-02	3.57E-03	1.18E-03	1.18E-04	3.89E-05
0.82	2.01E-01	6.62E-02	1.42E-01	4.69E-02	1.92E-01	6.32E-02	3.65E-03	1.20E-03	1.21E-04	3.99E-05
0.825	2.03E-01	6.70E-02	1.44E-01	4.75E-02	1.93E-01	6.37E-02	3.74E-03	1.23E-03	1.24E-04	4.09E-05
0.83	2.06E-01	6.77E-02	1.46E-01	4.81E-02	1.95E-01	6.41E-02	3.82E-03	1.26E-03	1.27E-04	4.19E-05
0.835	2.08E-01	6.85E-02	1.48E-01	4.87E-02	1.96E-01	6.45E-02	3.91E-03	1.29E-03	1.30E-04	4.29E-05
0.84	2.10E-01	6.92E-02	1.50E-01	4.93E-02	1.97E-01	6.49E-02	3.99E-03	1.31E-03	1.33E-04	4.39E-05
0.845	2.12E-01	7.00E-02	1.52E-01	4.99E-02	1.98E-01	6.54E-02	4.08E-03	1.34E-03	1.36E-04	4.49E-05

0.85	2.15E-01	7.07E-02	1.53E-01	5.05E-02	2.00E-01	6.58E-02	4.17E-03	1.37E-03	1.40E-04	4.60E-05
0.855	2.17E-01	7.15E-02	1.55E-01	5.11E-02	2.01E-01	6.62E-02	4.26E-03	1.40E-03	1.43E-04	4.70E-05
0.86	2.19E-01	7.23E-02	1.57E-01	5.18E-02	2.02E-01	6.66E-02	4.35E-03	1.43E-03	1.46E-04	4.81E-05
0.865	2.22E-01	7.30E-02	1.59E-01	5.24E-02	2.04E-01	6.71E-02	4.45E-03	1.47E-03	1.50E-04	4.92E-05
0.87	2.24E-01	7.38E-02	1.61E-01	5.30E-02	2.05E-01	6.75E-02	4.54E-03	1.50E-03	1.53E-04	5.04E-05
0.875	2.26E-01	7.46E-02	1.63E-01	5.36E-02	2.06E-01	6.79E-02	4.64E-03	1.53E-03	1.56E-04	5.15E-05
0.88	2.29E-01	7.54E-02	1.65E-01	5.43E-02	2.08E-01	6.84E-02	4.74E-03	1.56E-03	1.60E-04	5.27E-05
0.885	2.31E-01	7.61E-02	1.67E-01	5.49E-02	2.09E-01	6.88E-02	4.84E-03	1.59E-03	1.64E-04	5.39E-05
0.89	2.33E-01	7.69E-02	1.69E-01	5.55E-02	2.10E-01	6.93E-02	4.94E-03	1.63E-03	1.67E-04	5.51E-05
0.895	2.36E-01	7.77E-02	1.70E-01	5.62E-02	2.12E-01	6.97E-02	5.05E-03	1.66E-03	1.71E-04	5.63E-05
0.9	2.38E-01	7.85E-02	1.72E-01	5.68E-02	2.13E-01	7.01E-02	5.15E-03	1.70E-03	1.75E-04	5.75E-05
0.905	2.41E-01	7.93E-02	1.74E-01	5.74E-02	2.14E-01	7.06E-02	5.26E-03	1.73E-03	1.79E-04	5.88E-05
0.91	2.43E-01	8.01E-02	1.76E-01	5.81E-02	2.16E-01	7.10E-02	5.37E-03	1.77E-03	1.82E-04	6.01E-05
0.915	2.45E-01	8.08E-02	1.78E-01	5.87E-02	2.17E-01	7.15E-02	5.48E-03	1.80E-03	1.86E-04	6.14E-05
0.92	2.48E-01	8.16E-02	1.80E-01	5.94E-02	2.18E-01	7.19E-02	5.59E-03	1.84E-03	1.90E-04	6.27E-05
0.925	2.50E-01	8.24E-02	1.82E-01	6.00E-02	2.20E-01	7.24E-02	5.70E-03	1.88E-03	1.94E-04	6.41E-05
0.93	2.53E-01	8.32E-02	1.84E-01	6.07E-02	2.21E-01	7.28E-02	5.82E-03	1.92E-03	1.99E-04	6.54E-05
0.935	2.55E-01	8.40E-02	1.86E-01	6.14E-02	2.22E-01	7.33E-02	5.94E-03	1.96E-03	2.03E-04	6.68E-05
0.94	2.57E-01	8.48E-02	1.88E-01	6.20E-02	2.24E-01	7.37E-02	6.06E-03	2.00E-03	2.07E-04	6.82E-05
0.945	2.60E-01	8.56E-02	1.90E-01	6.27E-02	2.25E-01	7.42E-02	6.18E-03	2.04E-03	2.11E-04	6.97E-05
0.95	2.62E-01	8.64E-02	1.92E-01	6.33E-02	2.26E-01	7.46E-02	6.30E-03	2.08E-03	2.16E-04	7.11E-05
0.955	2.65E-01	8.72E-02	1.94E-01	6.40E-02	2.28E-01	7.51E-02	6.42E-03	2.12E-03	2.20E-04	7.26E-05
0.96	2.67E-01	8.80E-02	1.96E-01	6.47E-02	2.29E-01	7.55E-02	6.55E-03	2.16E-03	2.25E-04	7.41E-05
0.965	2.70E-01	8.88E-02	1.98E-01	6.54E-02	2.31E-01	7.60E-02	6.68E-03	2.20E-03	2.29E-04	7.56E-05
0.97	2.72E-01	8.96E-02	2.00E-01	6.60E-02	2.32E-01	7.64E-02	6.81E-03	2.24E-03	2.34E-04	7.71E-05
0.975	2.75E-01	9.04E-02	2.03E-01	6.67E-02	2.33E-01	7.69E-02	6.94E-03	2.29E-03	2.39E-04	7.87E-05
0.98	2.77E-01	9.13E-02	2.05E-01	6.74E-02	2.35E-01	7.73E-02	7.07E-03	2.33E-03	2.44E-04	8.03E-05
0.985	2.80E-01	9.21E-02	2.07E-01	6.81E-02	2.36E-01	7.78E-02	7.21E-03	2.37E-03	2.49E-04	8.19E-05
0.99	2.82E-01	9.29E-02	2.09E-01	6.88E-02	2.38E-01	7.82E-02	7.35E-03	2.42E-03	2.54E-04	8.35E-05
0.995	2.84E-01	9.37E-02	2.11E-01	6.95E-02	2.39E-01	7.87E-02	7.49E-03	2.47E-03	2.59E-04	8.52E-05
1	2.87E-01	9.45E-02	2.13E-01	7.01E-02	2.40E-01	7.92E-02	7.63E-03	2.51E-03	2.64E-04	8.68E-05
1.005	2.89E-01	9.53E-02	2.15E-01	7.08E-02	2.42E-01	7.96E-02	7.77E-03	2.56E-03	2.69E-04	8.85E-05
1.01	2.92E-01	9.62E-02	2.17E-01	7.15E-02	2.43E-01	8.01E-02	7.91E-03	2.61E-03	2.74E-04	9.03E-05
1.015	2.94E-01	9.70E-02	2.19E-01	7.22E-02	2.45E-01	8.05E-02	8.06E-03	2.66E-03	2.79E-04	9.20E-05
1.02	2.97E-01	9.78E-02	2.21E-01	7.29E-02	2.46E-01	8.10E-02	8.21E-03	2.70E-03	2.85E-04	9.38E-05

1.025	2.99E-01	9.86E-02	2.24E-01	7.36E-02	2.47E-01	8.15E-02	8.36E-03	2.75E-03	2.90E-04	9.56E-05
1.03	3.02E-01	9.94E-02	2.26E-01	7.43E-02	2.49E-01	8.19E-02	8.51E-03	2.80E-03	2.96E-04	9.74E-05
1.035	3.04E-01	1.00E-01	2.28E-01	7.51E-02	2.50E-01	8.24E-02	8.67E-03	2.86E-03	3.01E-04	9.92E-05
1.04	3.07E-01	1.01E-01	2.30E-01	7.58E-02	2.52E-01	8.29E-02	8.82E-03	2.91E-03	3.07E-04	1.01E-04
1.045	3.09E-01	1.02E-01	2.32E-01	7.65E-02	2.53E-01	8.33E-02	8.98E-03	2.96E-03	3.13E-04	1.03E-04
1.05	3.12E-01	1.03E-01	2.34E-01	7.72E-02	2.54E-01	8.38E-02	9.14E-03	3.01E-03	3.19E-04	1.05E-04
1.055	3.14E-01	1.04E-01	2.37E-01	7.79E-02	2.56E-01	8.43E-02	9.30E-03	3.07E-03	3.24E-04	1.07E-04
1.06	3.17E-01	1.04E-01	2.39E-01	7.86E-02	2.57E-01	8.47E-02	9.47E-03	3.12E-03	3.30E-04	1.09E-04
1.065	3.19E-01	1.05E-01	2.41E-01	7.93E-02	2.59E-01	8.52E-02	9.64E-03	3.17E-03	3.36E-04	1.11E-04
1.07	3.22E-01	1.06E-01	2.43E-01	8.01E-02	2.60E-01	8.57E-02	9.80E-03	3.23E-03	3.43E-04	1.13E-04
1.075	3.25E-01	1.07E-01	2.45E-01	8.08E-02	2.61E-01	8.61E-02	9.97E-03	3.29E-03	3.49E-04	1.15E-04
1.08	3.27E-01	1.08E-01	2.47E-01	8.15E-02	2.63E-01	8.66E-02	1.01E-02	3.34E-03	3.55E-04	1.17E-04
1.085	3.30E-01	1.09E-01	2.50E-01	8.22E-02	2.64E-01	8.71E-02	1.03E-02	3.40E-03	3.62E-04	1.19E-04
1.09	3.32E-01	1.09E-01	2.52E-01	8.30E-02	2.66E-01	8.75E-02	1.05E-02	3.46E-03	3.68E-04	1.21E-04
1.095	3.35E-01	1.10E-01	2.54E-01	8.37E-02	2.67E-01	8.80E-02	1.07E-02	3.52E-03	3.75E-04	1.23E-04
1.1	3.37E-01	1.11E-01	2.56E-01	8.44E-02	2.69E-01	8.85E-02	1.09E-02	3.58E-03	3.81E-04	1.26E-04
1.105	3.40E-01	1.12E-01	2.59E-01	8.52E-02	2.70E-01	8.90E-02	1.10E-02	3.64E-03	3.88E-04	1.28E-04
1.11	3.42E-01	1.13E-01	2.61E-01	8.59E-02	2.71E-01	8.94E-02	1.12E-02	3.70E-03	3.95E-04	1.30E-04
1.115	3.45E-01	1.14E-01	2.63E-01	8.67E-02	2.73E-01	8.99E-02	1.14E-02	3.76E-03	4.02E-04	1.32E-04
1.12	3.47E-01	1.14E-01	2.65E-01	8.74E-02	2.74E-01	9.04E-02	1.16E-02	3.82E-03	4.09E-04	1.35E-04
1.125	3.50E-01	1.15E-01	2.68E-01	8.82E-02	2.76E-01	9.09E-02	1.18E-02	3.88E-03	4.16E-04	1.37E-04
1.13	3.53E-01	1.16E-01	2.70E-01	8.89E-02	2.77E-01	9.13E-02	1.20E-02	3.95E-03	4.23E-04	1.39E-04
1.135	3.55E-01	1.17E-01	2.72E-01	8.97E-02	2.79E-01	9.18E-02	1.22E-02	4.01E-03	4.30E-04	1.42E-04
1.14	3.58E-01	1.18E-01	2.74E-01	9.04E-02	2.80E-01	9.23E-02	1.24E-02	4.08E-03	4.37E-04	1.44E-04
1.145	3.60E-01	1.19E-01	2.77E-01	9.12E-02	2.82E-01	9.28E-02	1.26E-02	4.14E-03	4.45E-04	1.47E-04
1.15	3.63E-01	1.20E-01	2.79E-01	9.19E-02	2.83E-01	9.32E-02	1.28E-02	4.21E-03	4.52E-04	1.49E-04
1.155	3.65E-01	1.20E-01	2.81E-01	9.27E-02	2.84E-01	9.37E-02	1.30E-02	4.28E-03	4.60E-04	1.51E-04
1.16	3.68E-01	1.21E-01	2.84E-01	9.34E-02	2.86E-01	9.42E-02	1.32E-02	4.35E-03	4.67E-04	1.54E-04
1.165	3.71E-01	1.22E-01	2.86E-01	9.42E-02	2.87E-01	9.47E-02	1.34E-02	4.41E-03	4.75E-04	1.57E-04
1.17	3.73E-01	1.23E-01	2.88E-01	9.50E-02	2.89E-01	9.51E-02	1.36E-02	4.48E-03	4.83E-04	1.59E-04
1.175	3.76E-01	1.24E-01	2.91E-01	9.57E-02	2.90E-01	9.56E-02	1.38E-02	4.55E-03	4.91E-04	1.62E-04
1.18	3.78E-01	1.25E-01	2.93E-01	9.65E-02	2.92E-01	9.61E-02	1.40E-02	4.63E-03	4.99E-04	1.64E-04
1.185	3.81E-01	1.25E-01	2.95E-01	9.73E-02	2.93E-01	9.66E-02	1.43E-02	4.70E-03	5.07E-04	1.67E-04
1.19	3.83E-01	1.26E-01	2.98E-01	9.80E-02	2.95E-01	9.71E-02	1.45E-02	4.77E-03	5.15E-04	1.70E-04
1.195	3.86E-01	1.27E-01	3.00E-01	9.88E-02	2.96E-01	9.75E-02	1.47E-02	4.84E-03	5.24E-04	1.73E-04

1.2	3.89E-01	1.28E-01	3.02E-01	9.96E-02	2.98E-01	9.80E-02	1.49E-02	4.92E-03	5.32E-04	1.75E-04
1.205	3.91E-01	1.29E-01	3.05E-01	1.00E-01	2.99E-01	9.85E-02	1.52E-02	4.99E-03	5.41E-04	1.78E-04
1.21	3.94E-01	1.30E-01	3.07E-01	1.01E-01	3.01E-01	9.90E-02	1.54E-02	5.07E-03	5.49E-04	1.81E-04
1.215	3.96E-01	1.31E-01	3.09E-01	1.02E-01	3.02E-01	9.95E-02	1.56E-02	5.14E-03	5.58E-04	1.84E-04
1.22	3.99E-01	1.31E-01	3.12E-01	1.03E-01	3.03E-01	1.00E-01	1.58E-02	5.22E-03	5.67E-04	1.87E-04
1.225	4.02E-01	1.32E-01	3.14E-01	1.03E-01	3.05E-01	1.00E-01	1.61E-02	5.30E-03	5.76E-04	1.90E-04
1.23	4.04E-01	1.33E-01	3.17E-01	1.04E-01	3.06E-01	1.01E-01	1.63E-02	5.38E-03	5.85E-04	1.93E-04
1.235	4.07E-01	1.34E-01	3.19E-01	1.05E-01	3.08E-01	1.01E-01	1.66E-02	5.46E-03	5.94E-04	1.96E-04
1.24	4.09E-01	1.35E-01	3.21E-01	1.06E-01	3.09E-01	1.02E-01	1.68E-02	5.54E-03	6.03E-04	1.99E-04
1.245	4.12E-01	1.36E-01	3.24E-01	1.07E-01	3.11E-01	1.02E-01	1.70E-02	5.62E-03	6.12E-04	2.02E-04
1.25	4.15E-01	1.37E-01	3.26E-01	1.07E-01	3.12E-01	1.03E-01	1.73E-02	5.70E-03	6.22E-04	2.05E-04
1.255	4.17E-01	1.37E-01	3.29E-01	1.08E-01	3.14E-01	1.03E-01	1.75E-02	5.78E-03	6.31E-04	2.08E-04
1.26	4.20E-01	1.38E-01	3.31E-01	1.09E-01	3.15E-01	1.04E-01	1.78E-02	5.86E-03	6.41E-04	2.11E-04
1.265	4.23E-01	1.39E-01	3.33E-01	1.10E-01	3.17E-01	1.04E-01	1.81E-02	5.95E-03	6.51E-04	2.14E-04
1.27	4.25E-01	1.40E-01	3.36E-01	1.11E-01	3.18E-01	1.05E-01	1.83E-02	6.03E-03	6.60E-04	2.18E-04
1.275	4.28E-01	1.41E-01	3.38E-01	1.11E-01	3.20E-01	1.05E-01	1.86E-02	6.12E-03	6.70E-04	2.21E-04
1.28	4.30E-01	1.42E-01	3.41E-01	1.12E-01	3.21E-01	1.06E-01	1.88E-02	6.20E-03	6.80E-04	2.24E-04
1.285	4.33E-01	1.43E-01	3.43E-01	1.13E-01	3.23E-01	1.06E-01	1.91E-02	6.29E-03	6.90E-04	2.27E-04
1.29	4.36E-01	1.44E-01	3.46E-01	1.14E-01	3.24E-01	1.07E-01	1.94E-02	6.38E-03	7.01E-04	2.31E-04
1.295	4.38E-01	1.44E-01	3.48E-01	1.15E-01	3.26E-01	1.07E-01	1.96E-02	6.47E-03	7.11E-04	2.34E-04
1.3	4.41E-01	1.45E-01	3.50E-01	1.15E-01	3.27E-01	1.08E-01	1.99E-02	6.56E-03	7.21E-04	2.38E-04
1.305	4.44E-01	1.46E-01	3.53E-01	1.16E-01	3.29E-01	1.08E-01	2.02E-02	6.65E-03	7.32E-04	2.41E-04
1.31	4.46E-01	1.47E-01	3.55E-01	1.17E-01	3.30E-01	1.09E-01	2.05E-02	6.74E-03	7.43E-04	2.45E-04
1.315	4.49E-01	1.48E-01	3.58E-01	1.18E-01	3.31E-01	1.09E-01	2.07E-02	6.83E-03	7.53E-04	2.48E-04
1.32	4.52E-01	1.49E-01	3.60E-01	1.19E-01	3.33E-01	1.10E-01	2.10E-02	6.92E-03	7.64E-04	2.52E-04
1.325	4.54E-01	1.50E-01	3.63E-01	1.20E-01	3.34E-01	1.10E-01	2.13E-02	7.02E-03	7.75E-04	2.55E-04
1.33	4.57E-01	1.50E-01	3.65E-01	1.20E-01	3.36E-01	1.11E-01	2.16E-02	7.11E-03	7.86E-04	2.59E-04
1.335	4.59E-01	1.51E-01	3.68E-01	1.21E-01	3.37E-01	1.11E-01	2.19E-02	7.20E-03	7.98E-04	2.63E-04
1.34	4.62E-01	1.52E-01	3.70E-01	1.22E-01	3.39E-01	1.12E-01	2.22E-02	7.30E-03	8.09E-04	2.66E-04
1.345	4.65E-01	1.53E-01	3.73E-01	1.23E-01	3.40E-01	1.12E-01	2.25E-02	7.40E-03	8.20E-04	2.70E-04
1.35	4.67E-01	1.54E-01	3.75E-01	1.24E-01	3.42E-01	1.13E-01	2.28E-02	7.49E-03	8.32E-04	2.74E-04
1.355	4.70E-01	1.55E-01	3.78E-01	1.24E-01	3.43E-01	1.13E-01	2.30E-02	7.59E-03	8.44E-04	2.78E-04
1.36	4.73E-01	1.56E-01	3.80E-01	1.25E-01	3.45E-01	1.14E-01	2.34E-02	7.69E-03	8.55E-04	2.82E-04
1.365	4.75E-01	1.57E-01	3.83E-01	1.26E-01	3.46E-01	1.14E-01	2.37E-02	7.79E-03	8.67E-04	2.86E-04
1.37	4.78E-01	1.57E-01	3.85E-01	1.27E-01	3.48E-01	1.15E-01	2.40E-02	7.89E-03	8.79E-04	2.90E-04

1.375	4.81E-01	1.58E-01	3.88E-01	1.28E-01	3.49E-01	1.15E-01	2.43E-02	7.99E-03	8.91E-04	2.94E-04
1.38	4.83E-01	1.59E-01	3.91E-01	1.29E-01	3.51E-01	1.16E-01	2.46E-02	8.10E-03	9.04E-04	2.98E-04
1.385	4.86E-01	1.60E-01	3.93E-01	1.29E-01	3.52E-01	1.16E-01	2.49E-02	8.20E-03	9.16E-04	3.02E-04
1.39	4.89E-01	1.61E-01	3.96E-01	1.30E-01	3.54E-01	1.17E-01	2.52E-02	8.30E-03	9.29E-04	3.06E-04
1.395	4.91E-01	1.62E-01	3.98E-01	1.31E-01	3.55E-01	1.17E-01	2.55E-02	8.41E-03	9.41E-04	3.10E-04
1.4	4.94E-01	1.63E-01	4.01E-01	1.32E-01	3.57E-01	1.18E-01	2.58E-02	8.51E-03	9.54E-04	3.14E-04
1.405	4.97E-01	1.64E-01	4.03E-01	1.33E-01	3.58E-01	1.18E-01	2.62E-02	8.62E-03	9.67E-04	3.18E-04
1.41	4.99E-01	1.65E-01	4.06E-01	1.34E-01	3.60E-01	1.19E-01	2.65E-02	8.73E-03	9.80E-04	3.23E-04
1.415	5.02E-01	1.65E-01	4.08E-01	1.35E-01	3.61E-01	1.19E-01	2.68E-02	8.84E-03	9.93E-04	3.27E-04
1.42	5.05E-01	1.66E-01	4.11E-01	1.35E-01	3.63E-01	1.20E-01	2.72E-02	8.95E-03	1.01E-03	3.31E-04
1.425	5.07E-01	1.67E-01	4.14E-01	1.36E-01	3.64E-01	1.20E-01	2.75E-02	9.06E-03	1.02E-03	3.36E-04
1.43	5.10E-01	1.68E-01	4.16E-01	1.37E-01	3.66E-01	1.21E-01	2.78E-02	9.17E-03	1.03E-03	3.40E-04
1.435	5.13E-01	1.69E-01	4.19E-01	1.38E-01	3.67E-01	1.21E-01	2.82E-02	9.28E-03	1.05E-03	3.45E-04
1.44	5.15E-01	1.70E-01	4.21E-01	1.39E-01	3.69E-01	1.22E-01	2.85E-02	9.39E-03	1.06E-03	3.49E-04
1.445	5.18E-01	1.71E-01	4.24E-01	1.40E-01	3.70E-01	1.22E-01	2.89E-02	9.51E-03	1.07E-03	3.54E-04
1.45	5.21E-01	1.72E-01	4.27E-01	1.41E-01	3.72E-01	1.23E-01	2.92E-02	9.62E-03	1.09E-03	3.58E-04
1.455	5.24E-01	1.72E-01	4.29E-01	1.41E-01	3.73E-01	1.23E-01	2.96E-02	9.73E-03	1.10E-03	3.63E-04
1.46	5.26E-01	1.73E-01	4.32E-01	1.42E-01	3.75E-01	1.24E-01	2.99E-02	9.85E-03	1.12E-03	3.68E-04
1.465	5.29E-01	1.74E-01	4.34E-01	1.43E-01	3.77E-01	1.24E-01	3.03E-02	9.97E-03	1.13E-03	3.72E-04
1.47	5.32E-01	1.75E-01	4.37E-01	1.44E-01	3.78E-01	1.25E-01	3.06E-02	1.01E-02	1.15E-03	3.77E-04
1.475	5.34E-01	1.76E-01	4.40E-01	1.45E-01	3.80E-01	1.25E-01	3.10E-02	1.02E-02	1.16E-03	3.82E-04
1.48	5.37E-01	1.77E-01	4.42E-01	1.46E-01	3.81E-01	1.26E-01	3.13E-02	1.03E-02	1.17E-03	3.87E-04
1.485	5.40E-01	1.78E-01	4.45E-01	1.47E-01	3.83E-01	1.26E-01	3.17E-02	1.04E-02	1.19E-03	3.92E-04
1.49	5.42E-01	1.79E-01	4.48E-01	1.47E-01	3.84E-01	1.27E-01	3.21E-02	1.06E-02	1.20E-03	3.97E-04
1.495	5.45E-01	1.80E-01	4.50E-01	1.48E-01	3.86E-01	1.27E-01	3.24E-02	1.07E-02	1.22E-03	4.02E-04
1.5	5.48E-01	1.80E-01	4.53E-01	1.49E-01	3.87E-01	1.28E-01	3.28E-02	1.08E-02	1.23E-03	4.07E-04
1.505	5.50E-01	1.81E-01	4.56E-01	1.50E-01	3.89E-01	1.28E-01	3.32E-02	1.09E-02	1.25E-03	4.12E-04
1.51	5.53E-01	1.82E-01	4.58E-01	1.51E-01	3.90E-01	1.29E-01	3.36E-02	1.11E-02	1.27E-03	4.17E-04
1.515	5.56E-01	1.83E-01	4.61E-01	1.52E-01	3.92E-01	1.29E-01	3.40E-02	1.12E-02	1.28E-03	4.22E-04
1.52	5.59E-01	1.84E-01	4.64E-01	1.53E-01	3.93E-01	1.30E-01	3.43E-02	1.13E-02	1.30E-03	4.27E-04
1.525	5.61E-01	1.85E-01	4.66E-01	1.54E-01	3.95E-01	1.30E-01	3.47E-02	1.14E-02	1.31E-03	4.33E-04
1.53	5.64E-01	1.86E-01	4.69E-01	1.54E-01	3.96E-01	1.31E-01	3.51E-02	1.16E-02	1.33E-03	4.38E-04
1.535	5.67E-01	1.87E-01	4.72E-01	1.55E-01	3.98E-01	1.31E-01	3.55E-02	1.17E-02	1.35E-03	4.43E-04
1.54	5.69E-01	1.88E-01	4.74E-01	1.56E-01	3.99E-01	1.32E-01	3.59E-02	1.18E-02	1.36E-03	4.49E-04
1.545	5.72E-01	1.88E-01	4.77E-01	1.57E-01	4.01E-01	1.32E-01	3.63E-02	1.20E-02	1.38E-03	4.54E-04

1.55	5.75E-01	1.89E-01	4.80E-01	1.58E-01	4.02E-01	1.33E-01	3.67E-02	1.21E-02	1.39E-03	4.59E-04
1.555	5.78E-01	1.90E-01	4.82E-01	1.59E-01	4.04E-01	1.33E-01	3.71E-02	1.22E-02	1.41E-03	4.65E-04
1.56	5.80E-01	1.91E-01	4.85E-01	1.60E-01	4.05E-01	1.34E-01	3.75E-02	1.24E-02	1.43E-03	4.71E-04
1.565	5.83E-01	1.92E-01	4.88E-01	1.61E-01	4.07E-01	1.34E-01	3.79E-02	1.25E-02	1.45E-03	4.76E-04
1.57	5.86E-01	1.93E-01	4.91E-01	1.62E-01	4.08E-01	1.35E-01	3.83E-02	1.26E-02	1.46E-03	4.82E-04
1.575	5.88E-01	1.94E-01	4.93E-01	1.63E-01	4.10E-01	1.35E-01	3.87E-02	1.28E-02	1.48E-03	4.88E-04
1.58	5.91E-01	1.95E-01	4.96E-01	1.63E-01	4.12E-01	1.36E-01	3.92E-02	1.29E-02	1.50E-03	4.93E-04
1.585	5.94E-01	1.96E-01	4.99E-01	1.64E-01	4.13E-01	1.36E-01	3.96E-02	1.30E-02	1.52E-03	4.99E-04
1.59	5.97E-01	1.97E-01	5.02E-01	1.65E-01	4.15E-01	1.37E-01	4.00E-02	1.32E-02	1.53E-03	5.05E-04
1.595	5.99E-01	1.97E-01	5.04E-01	1.66E-01	4.16E-01	1.37E-01	4.04E-02	1.33E-02	1.55E-03	5.11E-04
1.6	6.02E-01	1.98E-01	5.07E-01	1.67E-01	4.18E-01	1.38E-01	4.09E-02	1.35E-02	1.57E-03	5.17E-04
1.605	6.05E-01	1.99E-01	5.10E-01	1.68E-01	4.19E-01	1.38E-01	4.13E-02	1.36E-02	1.59E-03	5.23E-04
1.61	6.08E-01	2.00E-01	5.13E-01	1.69E-01	4.21E-01	1.39E-01	4.17E-02	1.37E-02	1.61E-03	5.29E-04
1.615	6.10E-01	2.01E-01	5.15E-01	1.70E-01	4.22E-01	1.39E-01	4.22E-02	1.39E-02	1.62E-03	5.35E-04
1.62	6.13E-01	2.02E-01	5.18E-01	1.71E-01	4.24E-01	1.40E-01	4.26E-02	1.40E-02	1.64E-03	5.41E-04
1.625	6.16E-01	2.03E-01	5.21E-01	1.72E-01	4.25E-01	1.40E-01	4.30E-02	1.42E-02	1.66E-03	5.47E-04
1.63	6.18E-01	2.04E-01	5.24E-01	1.72E-01	4.27E-01	1.41E-01	4.35E-02	1.43E-02	1.68E-03	5.54E-04
1.635	6.21E-01	2.05E-01	5.26E-01	1.73E-01	4.28E-01	1.41E-01	4.39E-02	1.45E-02	1.70E-03	5.60E-04
1.64	6.24E-01	2.06E-01	5.29E-01	1.74E-01	4.30E-01	1.42E-01	4.44E-02	1.46E-02	1.72E-03	5.66E-04
1.645	6.27E-01	2.06E-01	5.32E-01	1.75E-01	4.32E-01	1.42E-01	4.48E-02	1.48E-02	1.74E-03	5.73E-04
1.65	6.29E-01	2.07E-01	5.35E-01	1.76E-01	4.33E-01	1.43E-01	4.53E-02	1.49E-02	1.76E-03	5.79E-04
1.655	6.32E-01	2.08E-01	5.37E-01	1.77E-01	4.35E-01	1.43E-01	4.58E-02	1.51E-02	1.78E-03	5.86E-04
1.66	6.35E-01	2.09E-01	5.40E-01	1.78E-01	4.36E-01	1.44E-01	4.62E-02	1.52E-02	1.80E-03	5.92E-04
1.665	6.38E-01	2.10E-01	5.43E-01	1.79E-01	4.38E-01	1.44E-01	4.67E-02	1.54E-02	1.82E-03	5.99E-04
1.67	6.40E-01	2.11E-01	5.46E-01	1.80E-01	4.39E-01	1.45E-01	4.71E-02	1.55E-02	1.84E-03	6.05E-04
1.675	6.43E-01	2.12E-01	5.49E-01	1.81E-01	4.41E-01	1.45E-01	4.76E-02	1.57E-02	1.86E-03	6.12E-04
1.68	6.46E-01	2.13E-01	5.51E-01	1.82E-01	4.42E-01	1.46E-01	4.81E-02	1.58E-02	1.88E-03	6.19E-04
1.685	6.49E-01	2.14E-01	5.54E-01	1.83E-01	4.44E-01	1.46E-01	4.86E-02	1.60E-02	1.90E-03	6.26E-04
1.69	6.51E-01	2.15E-01	5.57E-01	1.84E-01	4.45E-01	1.47E-01	4.90E-02	1.62E-02	1.92E-03	6.32E-04
1.695	6.54E-01	2.15E-01	5.60E-01	1.84E-01	4.47E-01	1.47E-01	4.95E-02	1.63E-02	1.94E-03	6.39E-04
1.7	6.57E-01	2.16E-01	5.63E-01	1.85E-01	4.49E-01	1.48E-01	5.00E-02	1.65E-02	1.96E-03	6.46E-04
1.705	6.60E-01	2.17E-01	5.66E-01	1.86E-01	4.50E-01	1.48E-01	5.05E-02	1.66E-02	1.98E-03	6.53E-04
1.71	6.62E-01	2.18E-01	5.68E-01	1.87E-01	4.52E-01	1.49E-01	5.10E-02	1.68E-02	2.00E-03	6.60E-04
1.715	6.65E-01	2.19E-01	5.71E-01	1.88E-01	4.53E-01	1.49E-01	5.15E-02	1.70E-02	2.03E-03	6.67E-04
1.72	6.68E-01	2.20E-01	5.74E-01	1.89E-01	4.55E-01	1.50E-01	5.20E-02	1.71E-02	2.05E-03	6.75E-04

1.725	6.71E-01	2.21E-01	5.77E-01	1.90E-01	4.56E-01	1.50E-01	5.25E-02	1.73E-02	2.07E-03	6.82E-04
1.73	6.73E-01	2.22E-01	5.80E-01	1.91E-01	4.58E-01	1.51E-01	5.30E-02	1.75E-02	2.09E-03	6.89E-04
1.735	6.76E-01	2.23E-01	5.83E-01	1.92E-01	4.59E-01	1.51E-01	5.35E-02	1.76E-02	2.11E-03	6.96E-04
1.74	6.79E-01	2.24E-01	5.86E-01	1.93E-01	4.61E-01	1.52E-01	5.40E-02	1.78E-02	2.14E-03	7.04E-04
1.745	6.82E-01	2.25E-01	5.88E-01	1.94E-01	4.63E-01	1.52E-01	5.45E-02	1.80E-02	2.16E-03	7.11E-04
1.75	6.84E-01	2.25E-01	5.91E-01	1.95E-01	4.64E-01	1.53E-01	5.50E-02	1.81E-02	2.18E-03	7.19E-04
1.755	6.87E-01	2.26E-01	5.94E-01	1.96E-01	4.66E-01	1.53E-01	5.55E-02	1.83E-02	2.20E-03	7.26E-04
1.76	6.90E-01	2.27E-01	5.97E-01	1.97E-01	4.67E-01	1.54E-01	5.60E-02	1.85E-02	2.23E-03	7.34E-04
1.765	6.93E-01	2.28E-01	6.00E-01	1.98E-01	4.69E-01	1.54E-01	5.66E-02	1.86E-02	2.25E-03	7.42E-04
1.77	6.96E-01	2.29E-01	6.03E-01	1.99E-01	4.70E-01	1.55E-01	5.71E-02	1.88E-02	2.27E-03	7.49E-04
1.775	6.98E-01	2.30E-01	6.06E-01	2.00E-01	4.72E-01	1.55E-01	5.76E-02	1.90E-02	2.30E-03	7.57E-04
1.78	7.01E-01	2.31E-01	6.09E-01	2.00E-01	4.73E-01	1.56E-01	5.81E-02	1.92E-02	2.32E-03	7.65E-04
1.785	7.04E-01	2.32E-01	6.11E-01	2.01E-01	4.75E-01	1.56E-01	5.87E-02	1.93E-02	2.35E-03	7.73E-04
1.79	7.07E-01	2.33E-01	6.14E-01	2.02E-01	4.77E-01	1.57E-01	5.92E-02	1.95E-02	2.37E-03	7.81E-04
1.795	7.09E-01	2.34E-01	6.17E-01	2.03E-01	4.78E-01	1.57E-01	5.98E-02	1.97E-02	2.39E-03	7.89E-04
1.8	7.12E-01	2.35E-01	6.20E-01	2.04E-01	4.80E-01	1.58E-01	6.03E-02	1.99E-02	2.42E-03	7.97E-04
1.805	7.15E-01	2.36E-01	6.23E-01	2.05E-01	4.81E-01	1.59E-01	6.08E-02	2.00E-02	2.44E-03	8.05E-04
1.81	7.18E-01	2.36E-01	6.26E-01	2.06E-01	4.83E-01	1.59E-01	6.14E-02	2.02E-02	2.47E-03	8.13E-04
1.815	7.20E-01	2.37E-01	6.29E-01	2.07E-01	4.84E-01	1.60E-01	6.19E-02	2.04E-02	2.49E-03	8.21E-04
1.82	7.23E-01	2.38E-01	6.32E-01	2.08E-01	4.86E-01	1.60E-01	6.25E-02	2.06E-02	2.52E-03	8.30E-04
1.825	7.26E-01	2.39E-01	6.35E-01	2.09E-01	4.87E-01	1.61E-01	6.31E-02	2.08E-02	2.54E-03	8.38E-04
1.83	7.29E-01	2.40E-01	6.38E-01	2.10E-01	4.89E-01	1.61E-01	6.36E-02	2.10E-02	2.57E-03	8.46E-04
1.835	7.32E-01	2.41E-01	6.41E-01	2.11E-01	4.91E-01	1.62E-01	6.42E-02	2.11E-02	2.59E-03	8.55E-04
1.84	7.34E-01	2.42E-01	6.44E-01	2.12E-01	4.92E-01	1.62E-01	6.47E-02	2.13E-02	2.62E-03	8.63E-04
1.845	7.37E-01	2.43E-01	6.46E-01	2.13E-01	4.94E-01	1.63E-01	6.53E-02	2.15E-02	2.65E-03	8.72E-04
1.85	7.40E-01	2.44E-01	6.49E-01	2.14E-01	4.95E-01	1.63E-01	6.59E-02	2.17E-02	2.67E-03	8.80E-04
1.855	7.43E-01	2.45E-01	6.52E-01	2.15E-01	4.97E-01	1.64E-01	6.65E-02	2.19E-02	2.70E-03	8.89E-04
1.86	7.46E-01	2.46E-01	6.55E-01	2.16E-01	4.98E-01	1.64E-01	6.70E-02	2.21E-02	2.73E-03	8.98E-04
1.865	7.48E-01	2.47E-01	6.58E-01	2.17E-01	5.00E-01	1.65E-01	6.76E-02	2.23E-02	2.75E-03	9.07E-04
1.87	7.51E-01	2.47E-01	6.61E-01	2.18E-01	5.02E-01	1.65E-01	6.82E-02	2.25E-02	2.78E-03	9.16E-04
1.875	7.54E-01	2.48E-01	6.64E-01	2.19E-01	5.03E-01	1.66E-01	6.88E-02	2.27E-02	2.81E-03	9.25E-04
1.88	7.57E-01	2.49E-01	6.67E-01	2.20E-01	5.05E-01	1.66E-01	6.94E-02	2.29E-02	2.83E-03	9.34E-04
1.885	7.60E-01	2.50E-01	6.70E-01	2.21E-01	5.06E-01	1.67E-01	7.00E-02	2.30E-02	2.86E-03	9.43E-04
1.89	7.62E-01	2.51E-01	6.73E-01	2.22E-01	5.08E-01	1.67E-01	7.06E-02	2.32E-02	2.89E-03	9.52E-04
1.895	7.65E-01	2.52E-01	6.76E-01	2.23E-01	5.09E-01	1.68E-01	7.12E-02	2.34E-02	2.92E-03	9.61E-04

1.9	7.68E-01	2.53E-01	6.79E-01	2.24E-01	5.11E-01	1.68E-01	7.18E-02	2.36E-02	2.94E-03	9.70E-04
1.905	7.71E-01	2.54E-01	6.82E-01	2.25E-01	5.13E-01	1.69E-01	7.24E-02	2.38E-02	2.97E-03	9.79E-04
1.91	7.74E-01	2.55E-01	6.85E-01	2.26E-01	5.14E-01	1.69E-01	7.30E-02	2.40E-02	3.00E-03	9.89E-04
1.915	7.76E-01	2.56E-01	6.88E-01	2.27E-01	5.16E-01	1.70E-01	7.36E-02	2.42E-02	3.03E-03	9.98E-04
1.92	7.79E-01	2.57E-01	6.91E-01	2.28E-01	5.17E-01	1.70E-01	7.42E-02	2.44E-02	3.06E-03	1.01E-03
1.925	7.82E-01	2.58E-01	6.94E-01	2.29E-01	5.19E-01	1.71E-01	7.48E-02	2.46E-02	3.09E-03	1.02E-03
1.93	7.85E-01	2.59E-01	6.97E-01	2.30E-01	5.20E-01	1.71E-01	7.54E-02	2.48E-02	3.12E-03	1.03E-03
1.935	7.88E-01	2.59E-01	7.00E-01	2.31E-01	5.22E-01	1.72E-01	7.61E-02	2.51E-02	3.15E-03	1.04E-03
1.94	7.90E-01	2.60E-01	7.03E-01	2.32E-01	5.24E-01	1.73E-01	7.67E-02	2.53E-02	3.18E-03	1.05E-03
1.945	7.93E-01	2.61E-01	7.06E-01	2.33E-01	5.25E-01	1.73E-01	7.73E-02	2.55E-02	3.21E-03	1.06E-03
1.95	7.96E-01	2.62E-01	7.09E-01	2.34E-01	5.27E-01	1.74E-01	7.79E-02	2.57E-02	3.24E-03	1.07E-03
1.955	7.99E-01	2.63E-01	7.12E-01	2.35E-01	5.28E-01	1.74E-01	7.86E-02	2.59E-02	3.27E-03	1.08E-03
1.96	8.02E-01	2.64E-01	7.15E-01	2.36E-01	5.30E-01	1.75E-01	7.92E-02	2.61E-02	3.30E-03	1.09E-03
1.965	8.04E-01	2.65E-01	7.18E-01	2.37E-01	5.32E-01	1.75E-01	7.98E-02	2.63E-02	3.33E-03	1.10E-03
1.97	8.07E-01	2.66E-01	7.21E-01	2.38E-01	5.33E-01	1.76E-01	8.05E-02	2.65E-02	3.36E-03	1.11E-03
1.975	8.10E-01	2.67E-01	7.24E-01	2.39E-01	5.35E-01	1.76E-01	8.11E-02	2.67E-02	3.39E-03	1.12E-03
1.98	8.13E-01	2.68E-01	7.27E-01	2.40E-01	5.36E-01	1.77E-01	8.18E-02	2.69E-02	3.42E-03	1.13E-03
1.985	8.16E-01	2.69E-01	7.30E-01	2.41E-01	5.38E-01	1.77E-01	8.24E-02	2.72E-02	3.45E-03	1.14E-03
1.99	8.18E-01	2.70E-01	7.33E-01	2.42E-01	5.39E-01	1.78E-01	8.31E-02	2.74E-02	3.48E-03	1.15E-03
1.995	8.21E-01	2.71E-01	7.36E-01	2.43E-01	5.41E-01	1.78E-01	8.38E-02	2.76E-02	3.51E-03	1.16E-03
2	8.24E-01	2.71E-01	7.39E-01	2.44E-01	5.43E-01	1.79E-01	8.44E-02	2.78E-02	3.55E-03	1.17E-03
2.005	8.27E-01	2.72E-01	7.42E-01	2.45E-01	5.44E-01	1.79E-01	8.51E-02	2.80E-02	3.58E-03	1.18E-03
2.01	8.30E-01	2.73E-01	7.46E-01	2.46E-01	5.46E-01	1.80E-01	8.57E-02	2.82E-02	3.61E-03	1.19E-03
2.015	8.33E-01	2.74E-01	7.49E-01	2.47E-01	5.47E-01	1.80E-01	8.64E-02	2.85E-02	3.64E-03	1.20E-03
2.02	8.35E-01	2.75E-01	7.52E-01	2.48E-01	5.49E-01	1.81E-01	8.71E-02	2.87E-02	3.68E-03	1.21E-03
2.025	8.38E-01	2.76E-01	7.55E-01	2.49E-01	5.51E-01	1.81E-01	8.78E-02	2.89E-02	3.71E-03	1.22E-03
2.03	8.41E-01	2.77E-01	7.58E-01	2.50E-01	5.52E-01	1.82E-01	8.84E-02	2.91E-02	3.74E-03	1.23E-03
2.035	8.44E-01	2.78E-01	7.61E-01	2.51E-01	5.54E-01	1.82E-01	8.91E-02	2.94E-02	3.78E-03	1.24E-03
2.04	8.46E-01	2.79E-01	7.63E-01	2.51E-01	5.55E-01	1.83E-01	8.98E-02	2.96E-02	3.81E-03	1.25E-03
2.045	8.48E-01	2.79E-01	7.66E-01	2.52E-01	5.57E-01	1.83E-01	9.05E-02	2.98E-02	3.84E-03	1.27E-03
2.05	8.50E-01	2.80E-01	7.68E-01	2.53E-01	5.58E-01	1.84E-01	9.12E-02	3.00E-02	3.88E-03	1.28E-03
2.055	8.52E-01	2.81E-01	7.70E-01	2.54E-01	5.60E-01	1.84E-01	9.19E-02	3.03E-02	3.91E-03	1.29E-03
2.06	8.53E-01	2.81E-01	7.71E-01	2.54E-01	5.61E-01	1.85E-01	9.26E-02	3.05E-02	3.94E-03	1.30E-03
2.065	8.55E-01	2.82E-01	7.73E-01	2.55E-01	5.63E-01	1.85E-01	9.33E-02	3.07E-02	3.98E-03	1.31E-03
2.07	8.56E-01	2.82E-01	7.75E-01	2.55E-01	5.64E-01	1.86E-01	9.40E-02	3.10E-02	4.01E-03	1.32E-03

2.075	8.58E-01	2.83E-01	7.76E-01	2.56E-01	5.66E-01	1.86E-01	9.47E-02	3.12E-02	4.05E-03	1.33E-03
2.08	8.59E-01	2.83E-01	7.78E-01	2.56E-01	5.67E-01	1.87E-01	9.54E-02	3.14E-02	4.08E-03	1.35E-03
2.085	8.61E-01	2.83E-01	7.80E-01	2.57E-01	5.68E-01	1.87E-01	9.61E-02	3.17E-02	4.12E-03	1.36E-03
2.09	8.62E-01	2.84E-01	7.81E-01	2.57E-01	5.70E-01	1.88E-01	9.68E-02	3.19E-02	4.16E-03	1.37E-03
2.095	8.63E-01	2.84E-01	7.83E-01	2.58E-01	5.71E-01	1.88E-01	9.76E-02	3.21E-02	4.19E-03	1.38E-03
2.1	8.65E-01	2.85E-01	7.85E-01	2.58E-01	5.72E-01	1.89E-01	9.83E-02	3.24E-02	4.23E-03	1.39E-03
2.105	8.66E-01	2.85E-01	7.86E-01	2.59E-01	5.74E-01	1.89E-01	9.90E-02	3.26E-02	4.26E-03	1.40E-03
2.11	8.67E-01	2.86E-01	7.88E-01	2.59E-01	5.75E-01	1.89E-01	9.97E-02	3.28E-02	4.30E-03	1.42E-03
2.115	8.69E-01	2.86E-01	7.89E-01	2.60E-01	5.76E-01	1.90E-01	1.00E-01	3.31E-02	4.34E-03	1.43E-03
2.12	8.70E-01	2.87E-01	7.91E-01	2.61E-01	5.77E-01	1.90E-01	1.01E-01	3.33E-02	4.37E-03	1.44E-03
2.125	8.71E-01	2.87E-01	7.92E-01	2.61E-01	5.79E-01	1.91E-01	1.02E-01	3.36E-02	4.41E-03	1.45E-03
2.13	8.72E-01	2.87E-01	7.94E-01	2.62E-01	5.80E-01	1.91E-01	1.03E-01	3.38E-02	4.45E-03	1.47E-03
2.135	8.73E-01	2.88E-01	7.95E-01	2.62E-01	5.81E-01	1.91E-01	1.03E-01	3.41E-02	4.48E-03	1.48E-03
2.14	8.75E-01	2.88E-01	7.97E-01	2.63E-01	5.82E-01	1.92E-01	1.04E-01	3.43E-02	4.52E-03	1.49E-03
2.145	8.76E-01	2.89E-01	7.98E-01	2.63E-01	5.83E-01	1.92E-01	1.05E-01	3.46E-02	4.56E-03	1.50E-03
2.15	8.77E-01	2.89E-01	8.00E-01	2.63E-01	5.85E-01	1.93E-01	1.06E-01	3.48E-02	4.60E-03	1.51E-03
2.155	8.78E-01	2.89E-01	8.01E-01	2.64E-01	5.86E-01	1.93E-01	1.06E-01	3.50E-02	4.64E-03	1.53E-03
2.16	8.79E-01	2.90E-01	8.03E-01	2.64E-01	5.87E-01	1.93E-01	1.07E-01	3.53E-02	4.67E-03	1.54E-03
2.165	8.80E-01	2.90E-01	8.04E-01	2.65E-01	5.88E-01	1.94E-01	1.08E-01	3.55E-02	4.71E-03	1.55E-03
2.17	8.82E-01	2.90E-01	8.06E-01	2.65E-01	5.89E-01	1.94E-01	1.09E-01	3.58E-02	4.75E-03	1.57E-03
2.175	8.83E-01	2.91E-01	8.07E-01	2.66E-01	5.90E-01	1.94E-01	1.09E-01	3.60E-02	4.79E-03	1.58E-03
2.18	8.84E-01	2.91E-01	8.09E-01	2.66E-01	5.91E-01	1.95E-01	1.10E-01	3.63E-02	4.83E-03	1.59E-03
2.185	8.85E-01	2.91E-01	8.10E-01	2.67E-01	5.92E-01	1.95E-01	1.11E-01	3.65E-02	4.87E-03	1.60E-03
2.19	8.86E-01	2.92E-01	8.11E-01	2.67E-01	5.93E-01	1.95E-01	1.12E-01	3.68E-02	4.91E-03	1.62E-03
2.195	8.87E-01	2.92E-01	8.13E-01	2.68E-01	5.94E-01	1.96E-01	1.12E-01	3.71E-02	4.95E-03	1.63E-03
2.2	8.88E-01	2.92E-01	8.14E-01	2.68E-01	5.95E-01	1.96E-01	1.13E-01	3.73E-02	4.99E-03	1.64E-03
2.205	8.89E-01	2.93E-01	8.16E-01	2.69E-01	5.96E-01	1.96E-01	1.14E-01	3.76E-02	5.03E-03	1.66E-03
2.21	8.90E-01	2.93E-01	8.17E-01	2.69E-01	5.97E-01	1.97E-01	1.15E-01	3.78E-02	5.07E-03	1.67E-03
2.215	8.91E-01	2.93E-01	8.18E-01	2.70E-01	5.98E-01	1.97E-01	1.16E-01	3.81E-02	5.11E-03	1.68E-03
2.22	8.92E-01	2.94E-01	8.20E-01	2.70E-01	5.99E-01	1.97E-01	1.16E-01	3.83E-02	5.15E-03	1.70E-03
2.225	8.93E-01	2.94E-01	8.21E-01	2.70E-01	6.00E-01	1.98E-01	1.17E-01	3.86E-02	5.19E-03	1.71E-03
2.23	8.94E-01	2.94E-01	8.22E-01	2.71E-01	6.01E-01	1.98E-01	1.18E-01	3.89E-02	5.23E-03	1.72E-03
2.235	8.95E-01	2.95E-01	8.24E-01	2.71E-01	6.02E-01	1.98E-01	1.19E-01	3.91E-02	5.27E-03	1.74E-03
2.24	8.96E-01	2.95E-01	8.25E-01	2.72E-01	6.03E-01	1.99E-01	1.20E-01	3.94E-02	5.32E-03	1.75E-03
2.245	8.97E-01	2.95E-01	8.26E-01	2.72E-01	6.04E-01	1.99E-01	1.20E-01	3.96E-02	5.36E-03	1.77E-03

2.25	8.97E-01	2.96E-01	8.28E-01	2.73E-01	6.05E-01	1.99E-01	1.21E-01	3.99E-02	5.40E-03	1.78E-03
2.255	8.98E-01	2.96E-01	8.29E-01	2.73E-01	6.05E-01	1.99E-01	1.22E-01	4.02E-02	5.44E-03	1.79E-03
2.26	8.99E-01	2.96E-01	8.30E-01	2.73E-01	6.06E-01	2.00E-01	1.23E-01	4.04E-02	5.48E-03	1.81E-03
2.265	9.00E-01	2.97E-01	8.31E-01	2.74E-01	6.07E-01	2.00E-01	1.24E-01	4.07E-02	5.53E-03	1.82E-03
2.27	9.01E-01	2.97E-01	8.33E-01	2.74E-01	6.08E-01	2.00E-01	1.24E-01	4.10E-02	5.57E-03	1.83E-03
2.275	9.02E-01	2.97E-01	8.34E-01	2.75E-01	6.09E-01	2.01E-01	1.25E-01	4.12E-02	5.61E-03	1.85E-03
2.28	9.03E-01	2.97E-01	8.35E-01	2.75E-01	6.10E-01	2.01E-01	1.26E-01	4.15E-02	5.66E-03	1.86E-03
2.285	9.04E-01	2.98E-01	8.37E-01	2.76E-01	6.11E-01	2.01E-01	1.27E-01	4.18E-02	5.70E-03	1.88E-03
2.29	9.04E-01	2.98E-01	8.38E-01	2.76E-01	6.11E-01	2.01E-01	1.28E-01	4.20E-02	5.74E-03	1.89E-03
2.295	9.05E-01	2.98E-01	8.39E-01	2.76E-01	6.12E-01	2.02E-01	1.28E-01	4.23E-02	5.79E-03	1.91E-03
2.3	9.06E-01	2.98E-01	8.40E-01	2.77E-01	6.13E-01	2.02E-01	1.29E-01	4.26E-02	5.83E-03	1.92E-03
2.305	9.07E-01	2.99E-01	8.41E-01	2.77E-01	6.14E-01	2.02E-01	1.30E-01	4.28E-02	5.87E-03	1.94E-03
2.31	9.08E-01	2.99E-01	8.43E-01	2.78E-01	6.14E-01	2.02E-01	1.31E-01	4.31E-02	5.92E-03	1.95E-03
2.315	9.08E-01	2.99E-01	8.44E-01	2.78E-01	6.15E-01	2.03E-01	1.32E-01	4.34E-02	5.96E-03	1.96E-03
2.32	9.09E-01	2.99E-01	8.45E-01	2.78E-01	6.16E-01	2.03E-01	1.33E-01	4.37E-02	6.01E-03	1.98E-03
2.325	9.10E-01	3.00E-01	8.46E-01	2.79E-01	6.17E-01	2.03E-01	1.33E-01	4.39E-02	6.05E-03	1.99E-03
2.33	9.11E-01	3.00E-01	8.48E-01	2.79E-01	6.17E-01	2.03E-01	1.34E-01	4.42E-02	6.10E-03	2.01E-03
2.335	9.11E-01	3.00E-01	8.49E-01	2.80E-01	6.18E-01	2.04E-01	1.35E-01	4.45E-02	6.14E-03	2.02E-03
2.34	9.12E-01	3.00E-01	8.50E-01	2.80E-01	6.19E-01	2.04E-01	1.36E-01	4.48E-02	6.19E-03	2.04E-03
2.345	9.13E-01	3.01E-01	8.51E-01	2.80E-01	6.20E-01	2.04E-01	1.37E-01	4.50E-02	6.24E-03	2.05E-03
2.35	9.14E-01	3.01E-01	8.52E-01	2.81E-01	6.20E-01	2.04E-01	1.38E-01	4.53E-02	6.28E-03	2.07E-03
2.355	9.14E-01	3.01E-01	8.53E-01	2.81E-01	6.21E-01	2.05E-01	1.38E-01	4.56E-02	6.33E-03	2.08E-03
2.36	9.15E-01	3.01E-01	8.55E-01	2.82E-01	6.22E-01	2.05E-01	1.39E-01	4.59E-02	6.37E-03	2.10E-03
2.365	9.16E-01	3.02E-01	8.56E-01	2.82E-01	6.22E-01	2.05E-01	1.40E-01	4.62E-02	6.42E-03	2.11E-03
2.37	9.16E-01	3.02E-01	8.57E-01	2.82E-01	6.23E-01	2.05E-01	1.41E-01	4.64E-02	6.47E-03	2.13E-03
2.375	9.17E-01	3.02E-01	8.58E-01	2.83E-01	6.24E-01	2.05E-01	1.42E-01	4.67E-02	6.51E-03	2.15E-03
2.38	9.18E-01	3.02E-01	8.59E-01	2.83E-01	6.24E-01	2.06E-01	1.43E-01	4.70E-02	6.56E-03	2.16E-03
2.385	9.18E-01	3.03E-01	8.60E-01	2.83E-01	6.25E-01	2.06E-01	1.44E-01	4.73E-02	6.61E-03	2.18E-03
2.39	9.19E-01	3.03E-01	8.62E-01	2.84E-01	6.26E-01	2.06E-01	1.44E-01	4.76E-02	6.65E-03	2.19E-03
2.395	9.20E-01	3.03E-01	8.63E-01	2.84E-01	6.26E-01	2.06E-01	1.45E-01	4.79E-02	6.70E-03	2.21E-03
2.4	9.20E-01	3.03E-01	8.64E-01	2.85E-01	6.27E-01	2.07E-01	1.46E-01	4.81E-02	6.75E-03	2.22E-03
2.405	9.21E-01	3.03E-01	8.65E-01	2.85E-01	6.28E-01	2.07E-01	1.47E-01	4.84E-02	6.80E-03	2.24E-03
2.41	9.22E-01	3.04E-01	8.66E-01	2.85E-01	6.28E-01	2.07E-01	1.48E-01	4.87E-02	6.85E-03	2.26E-03
2.415	9.22E-01	3.04E-01	8.67E-01	2.86E-01	6.29E-01	2.07E-01	1.49E-01	4.90E-02	6.89E-03	2.27E-03
2.42	9.23E-01	3.04E-01	8.68E-01	2.86E-01	6.30E-01	2.07E-01	1.50E-01	4.93E-02	6.94E-03	2.29E-03

2.425	9.24E-01	3.04E-01	8.69E-01	2.86E-01	6.30E-01	2.08E-01	1.51E-01	4.96E-02	6.99E-03	2.30E-03
2.43	9.24E-01	3.04E-01	8.70E-01	2.87E-01	6.31E-01	2.08E-01	1.51E-01	4.99E-02	7.04E-03	2.32E-03
2.435	9.25E-01	3.05E-01	8.72E-01	2.87E-01	6.31E-01	2.08E-01	1.52E-01	5.02E-02	7.09E-03	2.34E-03
2.44	9.25E-01	3.05E-01	8.73E-01	2.87E-01	6.32E-01	2.08E-01	1.53E-01	5.05E-02	7.14E-03	2.35E-03
2.445	9.26E-01	3.05E-01	8.74E-01	2.88E-01	6.33E-01	2.08E-01	1.54E-01	5.07E-02	7.19E-03	2.37E-03
2.45	9.27E-01	3.05E-01	8.75E-01	2.88E-01	6.33E-01	2.09E-01	1.55E-01	5.10E-02	7.24E-03	2.38E-03
2.455	9.27E-01	3.05E-01	8.76E-01	2.89E-01	6.34E-01	2.09E-01	1.56E-01	5.13E-02	7.29E-03	2.40E-03
2.46	9.28E-01	3.06E-01	8.77E-01	2.89E-01	6.34E-01	2.09E-01	1.57E-01	5.16E-02	7.34E-03	2.42E-03
2.465	9.28E-01	3.06E-01	8.78E-01	2.89E-01	6.35E-01	2.09E-01	1.58E-01	5.19E-02	7.39E-03	2.43E-03
2.47	9.29E-01	3.06E-01	8.79E-01	2.90E-01	6.35E-01	2.09E-01	1.58E-01	5.22E-02	7.44E-03	2.45E-03
2.475	9.30E-01	3.06E-01	8.80E-01	2.90E-01	6.36E-01	2.10E-01	1.59E-01	5.25E-02	7.49E-03	2.47E-03
2.48	9.30E-01	3.06E-01	8.81E-01	2.90E-01	6.37E-01	2.10E-01	1.60E-01	5.28E-02	7.54E-03	2.48E-03
2.485	9.31E-01	3.07E-01	8.82E-01	2.91E-01	6.37E-01	2.10E-01	1.61E-01	5.31E-02	7.59E-03	2.50E-03
2.49	9.31E-01	3.07E-01	8.84E-01	2.91E-01	6.38E-01	2.10E-01	1.62E-01	5.34E-02	7.64E-03	2.52E-03
2.495	9.32E-01	3.07E-01	8.85E-01	2.91E-01	6.38E-01	2.10E-01	1.63E-01	5.37E-02	7.69E-03	2.53E-03
2.5	9.33E-01	3.07E-01	8.86E-01	2.92E-01	6.39E-01	2.10E-01	1.64E-01	5.40E-02	7.75E-03	2.55E-03
2.505	9.33E-01	3.07E-01	8.87E-01	2.92E-01	6.40E-01	2.11E-01	1.65E-01	5.43E-02	7.80E-03	2.57E-03
2.51	9.34E-01	3.08E-01	8.88E-01	2.92E-01	6.40E-01	2.11E-01	1.66E-01	5.46E-02	7.85E-03	2.59E-03
2.515	9.34E-01	3.08E-01	8.89E-01	2.93E-01	6.41E-01	2.11E-01	1.67E-01	5.49E-02	7.90E-03	2.60E-03
2.52	9.35E-01	3.08E-01	8.90E-01	2.93E-01	6.41E-01	2.11E-01	1.68E-01	5.52E-02	7.95E-03	2.62E-03
2.525	9.36E-01	3.08E-01	8.91E-01	2.94E-01	6.42E-01	2.11E-01	1.68E-01	5.55E-02	8.01E-03	2.64E-03
2.53	9.36E-01	3.08E-01	8.92E-01	2.94E-01	6.42E-01	2.12E-01	1.69E-01	5.58E-02	8.06E-03	2.65E-03
2.535	9.37E-01	3.09E-01	8.93E-01	2.94E-01	6.43E-01	2.12E-01	1.70E-01	5.61E-02	8.11E-03	2.67E-03
2.54	9.37E-01	3.09E-01	8.94E-01	2.95E-01	6.44E-01	2.12E-01	1.71E-01	5.64E-02	8.17E-03	2.69E-03
2.545	9.38E-01	3.09E-01	8.95E-01	2.95E-01	6.44E-01	2.12E-01	1.72E-01	5.67E-02	8.22E-03	2.71E-03
2.55	9.39E-01	3.09E-01	8.96E-01	2.95E-01	6.45E-01	2.12E-01	1.73E-01	5.70E-02	8.27E-03	2.73E-03
2.555	9.39E-01	3.09E-01	8.97E-01	2.96E-01	6.45E-01	2.13E-01	1.74E-01	5.73E-02	8.33E-03	2.74E-03
2.56	9.40E-01	3.10E-01	8.99E-01	2.96E-01	6.46E-01	2.13E-01	1.75E-01	5.76E-02	8.38E-03	2.76E-03
2.565	9.40E-01	3.10E-01	9.00E-01	2.96E-01	6.46E-01	2.13E-01	1.76E-01	5.79E-02	8.43E-03	2.78E-03
2.57	9.41E-01	3.10E-01	9.01E-01	2.97E-01	6.47E-01	2.13E-01	1.77E-01	5.82E-02	8.49E-03	2.80E-03
2.575	9.41E-01	3.10E-01	9.02E-01	2.97E-01	6.48E-01	2.13E-01	1.78E-01	5.85E-02	8.54E-03	2.81E-03
2.58	9.42E-01	3.10E-01	9.03E-01	2.97E-01	6.48E-01	2.13E-01	1.79E-01	5.88E-02	8.60E-03	2.83E-03
2.585	9.43E-01	3.11E-01	9.04E-01	2.98E-01	6.49E-01	2.14E-01	1.80E-01	5.91E-02	8.65E-03	2.85E-03
2.59	9.43E-01	3.11E-01	9.05E-01	2.98E-01	6.49E-01	2.14E-01	1.80E-01	5.95E-02	8.71E-03	2.87E-03
2.595	9.44E-01	3.11E-01	9.06E-01	2.98E-01	6.50E-01	2.14E-01	1.81E-01	5.98E-02	8.76E-03	2.89E-03

2.6	9.44E-01	3.11E-01	9.07E-01	2.99E-01	6.50E-01	2.14E-01	1.82E-01	6.01E-02	8.82E-03	2.90E-03
2.605	9.45E-01	3.11E-01	9.08E-01	2.99E-01	6.51E-01	2.14E-01	1.83E-01	6.04E-02	8.87E-03	2.92E-03
2.61	9.46E-01	3.11E-01	9.09E-01	2.99E-01	6.51E-01	2.15E-01	1.84E-01	6.07E-02	8.93E-03	2.94E-03
2.615	9.46E-01	3.12E-01	9.10E-01	3.00E-01	6.52E-01	2.15E-01	1.85E-01	6.10E-02	8.98E-03	2.96E-03
2.62	9.47E-01	3.12E-01	9.11E-01	3.00E-01	6.53E-01	2.15E-01	1.86E-01	6.13E-02	9.04E-03	2.98E-03
2.625	9.47E-01	3.12E-01	9.12E-01	3.01E-01	6.53E-01	2.15E-01	1.87E-01	6.16E-02	9.10E-03	3.00E-03
2.63	9.48E-01	3.12E-01	9.13E-01	3.01E-01	6.54E-01	2.15E-01	1.88E-01	6.19E-02	9.15E-03	3.01E-03
2.635	9.48E-01	3.12E-01	9.14E-01	3.01E-01	6.54E-01	2.16E-01	1.89E-01	6.23E-02	9.21E-03	3.03E-03
2.64	9.49E-01	3.13E-01	9.15E-01	3.02E-01	6.55E-01	2.16E-01	1.90E-01	6.26E-02	9.27E-03	3.05E-03
2.645	9.50E-01	3.13E-01	9.16E-01	3.02E-01	6.55E-01	2.16E-01	1.91E-01	6.29E-02	9.32E-03	3.07E-03
2.65	9.50E-01	3.13E-01	9.17E-01	3.02E-01	6.56E-01	2.16E-01	1.92E-01	6.32E-02	9.38E-03	3.09E-03
2.655	9.51E-01	3.13E-01	9.18E-01	3.03E-01	6.56E-01	2.16E-01	1.93E-01	6.35E-02	9.44E-03	3.11E-03
2.66	9.51E-01	3.13E-01	9.20E-01	3.03E-01	6.57E-01	2.16E-01	1.94E-01	6.38E-02	9.49E-03	3.13E-03
2.665	9.52E-01	3.14E-01	9.21E-01	3.03E-01	6.58E-01	2.17E-01	1.95E-01	6.41E-02	9.55E-03	3.15E-03
2.67	9.52E-01	3.14E-01	9.22E-01	3.04E-01	6.58E-01	2.17E-01	1.96E-01	6.45E-02	9.61E-03	3.17E-03
2.675	9.53E-01	3.14E-01	9.23E-01	3.04E-01	6.59E-01	2.17E-01	1.97E-01	6.48E-02	9.67E-03	3.18E-03
2.68	9.54E-01	3.14E-01	9.24E-01	3.04E-01	6.59E-01	2.17E-01	1.98E-01	6.51E-02	9.73E-03	3.20E-03
2.685	9.54E-01	3.14E-01	9.25E-01	3.05E-01	6.60E-01	2.17E-01	1.99E-01	6.54E-02	9.78E-03	3.22E-03
2.69	9.55E-01	3.14E-01	9.26E-01	3.05E-01	6.60E-01	2.18E-01	2.00E-01	6.57E-02	9.84E-03	3.24E-03
2.695	9.55E-01	3.15E-01	9.27E-01	3.05E-01	6.61E-01	2.18E-01	2.01E-01	6.61E-02	9.90E-03	3.26E-03
2.7	9.56E-01	3.15E-01	9.28E-01	3.06E-01	6.61E-01	2.18E-01	2.02E-01	6.64E-02	9.96E-03	3.28E-03
2.705	9.56E-01	3.15E-01	9.29E-01	3.06E-01	6.62E-01	2.18E-01	2.02E-01	6.67E-02	1.00E-02	3.30E-03
2.71	9.57E-01	3.15E-01	9.30E-01	3.06E-01	6.62E-01	2.18E-01	2.03E-01	6.70E-02	1.01E-02	3.32E-03
2.715	9.58E-01	3.15E-01	9.31E-01	3.07E-01	6.63E-01	2.18E-01	2.04E-01	6.73E-02	1.01E-02	3.34E-03
2.72	9.58E-01	3.16E-01	9.32E-01	3.07E-01	6.64E-01	2.19E-01	2.05E-01	6.77E-02	1.02E-02	3.36E-03
2.725	9.59E-01	3.16E-01	9.33E-01	3.07E-01	6.64E-01	2.19E-01	2.06E-01	6.80E-02	1.03E-02	3.38E-03
2.73	9.59E-01	3.16E-01	9.34E-01	3.08E-01	6.65E-01	2.19E-01	2.07E-01	6.83E-02	1.03E-02	3.40E-03
2.735	9.60E-01	3.16E-01	9.35E-01	3.08E-01	6.65E-01	2.19E-01	2.08E-01	6.86E-02	1.04E-02	3.42E-03
2.74	9.60E-01	3.16E-01	9.36E-01	3.08E-01	6.66E-01	2.19E-01	2.09E-01	6.90E-02	1.04E-02	3.44E-03
2.745	9.61E-01	3.17E-01	9.37E-01	3.09E-01	6.66E-01	2.19E-01	2.10E-01	6.93E-02	1.05E-02	3.46E-03
2.75	9.61E-01	3.17E-01	9.38E-01	3.09E-01	6.67E-01	2.20E-01	2.11E-01	6.96E-02	1.06E-02	3.48E-03
2.755	9.62E-01	3.17E-01	9.39E-01	3.09E-01	6.67E-01	2.20E-01	2.12E-01	6.99E-02	1.06E-02	3.50E-03
2.76	9.63E-01	3.17E-01	9.40E-01	3.10E-01	6.68E-01	2.20E-01	2.13E-01	7.03E-02	1.07E-02	3.52E-03
2.765	9.63E-01	3.17E-01	9.41E-01	3.10E-01	6.68E-01	2.20E-01	2.14E-01	7.06E-02	1.07E-02	3.54E-03
2.77	9.64E-01	3.17E-01	9.42E-01	3.10E-01	6.69E-01	2.20E-01	2.15E-01	7.09E-02	1.08E-02	3.56E-03

2.775	9.64E-01	3.18E-01	9.43E-01	3.11E-01	6.69E-01	2.21E-01	2.16E-01	7.12E-02	1.09E-02	3.58E-03
2.78	9.65E-01	3.18E-01	9.44E-01	3.11E-01	6.70E-01	2.21E-01	2.17E-01	7.16E-02	1.09E-02	3.60E-03
2.785	9.65E-01	3.18E-01	9.45E-01	3.11E-01	6.70E-01	2.21E-01	2.18E-01	7.19E-02	1.10E-02	3.62E-03
2.79	9.66E-01	3.18E-01	9.46E-01	3.12E-01	6.71E-01	2.21E-01	2.19E-01	7.22E-02	1.11E-02	3.64E-03
2.795	9.66E-01	3.18E-01	9.47E-01	3.12E-01	6.72E-01	2.21E-01	2.20E-01	7.26E-02	1.11E-02	3.66E-03
2.8	9.67E-01	3.19E-01	9.48E-01	3.12E-01	6.72E-01	2.21E-01	2.21E-01	7.29E-02	1.12E-02	3.68E-03
2.805	9.67E-01	3.19E-01	9.49E-01	3.13E-01	6.73E-01	2.22E-01	2.22E-01	7.32E-02	1.12E-02	3.70E-03
2.81	9.68E-01	3.19E-01	9.50E-01	3.13E-01	6.73E-01	2.22E-01	2.23E-01	7.36E-02	1.13E-02	3.72E-03
2.815	9.69E-01	3.19E-01	9.51E-01	3.13E-01	6.74E-01	2.22E-01	2.24E-01	7.39E-02	1.14E-02	3.74E-03
2.82	9.69E-01	3.19E-01	9.52E-01	3.14E-01	6.74E-01	2.22E-01	2.25E-01	7.42E-02	1.14E-02	3.76E-03
2.825	9.70E-01	3.19E-01	9.53E-01	3.14E-01	6.75E-01	2.22E-01	2.26E-01	7.46E-02	1.15E-02	3.79E-03
2.83	9.70E-01	3.20E-01	9.54E-01	3.14E-01	6.75E-01	2.22E-01	2.27E-01	7.49E-02	1.16E-02	3.81E-03
2.835	9.71E-01	3.20E-01	9.55E-01	3.15E-01	6.76E-01	2.23E-01	2.28E-01	7.52E-02	1.16E-02	3.83E-03
2.84	9.71E-01	3.20E-01	9.56E-01	3.15E-01	6.76E-01	2.23E-01	2.29E-01	7.56E-02	1.17E-02	3.85E-03
2.845	9.72E-01	3.20E-01	9.57E-01	3.15E-01	6.77E-01	2.23E-01	2.30E-01	7.59E-02	1.17E-02	3.87E-03
2.85	9.72E-01	3.20E-01	9.58E-01	3.16E-01	6.77E-01	2.23E-01	2.31E-01	7.62E-02	1.18E-02	3.89E-03
2.855	9.73E-01	3.20E-01	9.59E-01	3.16E-01	6.78E-01	2.23E-01	2.32E-01	7.66E-02	1.19E-02	3.91E-03
2.86	9.73E-01	3.21E-01	9.60E-01	3.16E-01	6.78E-01	2.23E-01	2.33E-01	7.69E-02	1.19E-02	3.93E-03
2.865	9.74E-01	3.21E-01	9.61E-01	3.17E-01	6.79E-01	2.24E-01	2.34E-01	7.72E-02	1.20E-02	3.95E-03
2.87	9.74E-01	3.21E-01	9.62E-01	3.17E-01	6.79E-01	2.24E-01	2.35E-01	7.76E-02	1.21E-02	3.98E-03
2.875	9.75E-01	3.21E-01	9.63E-01	3.17E-01	6.80E-01	2.24E-01	2.36E-01	7.79E-02	1.21E-02	4.00E-03
2.88	9.76E-01	3.21E-01	9.64E-01	3.18E-01	6.80E-01	2.24E-01	2.38E-01	7.82E-02	1.22E-02	4.02E-03
2.885	9.76E-01	3.22E-01	9.65E-01	3.18E-01	6.81E-01	2.24E-01	2.39E-01	7.86E-02	1.23E-02	4.04E-03
2.89	9.77E-01	3.22E-01	9.66E-01	3.18E-01	6.81E-01	2.24E-01	2.40E-01	7.89E-02	1.23E-02	4.06E-03
2.895	9.77E-01	3.22E-01	9.67E-01	3.18E-01	6.82E-01	2.25E-01	2.41E-01	7.93E-02	1.24E-02	4.08E-03
2.9	9.78E-01	3.22E-01	9.68E-01	3.19E-01	6.82E-01	2.25E-01	2.42E-01	7.96E-02	1.25E-02	4.11E-03
2.905	9.78E-01	3.22E-01	9.69E-01	3.19E-01	6.83E-01	2.25E-01	2.43E-01	7.99E-02	1.25E-02	4.13E-03
2.91	9.79E-01	3.22E-01	9.70E-01	3.19E-01	6.83E-01	2.25E-01	2.44E-01	8.03E-02	1.26E-02	4.15E-03
2.915	9.79E-01	3.23E-01	9.71E-01	3.20E-01	6.84E-01	2.25E-01	2.45E-01	8.06E-02	1.27E-02	4.17E-03
2.92	9.80E-01	3.23E-01	9.72E-01	3.20E-01	6.85E-01	2.25E-01	2.46E-01	8.09E-02	1.27E-02	4.19E-03
2.925	9.80E-01	3.23E-01	9.73E-01	3.20E-01	6.85E-01	2.26E-01	2.47E-01	8.13E-02	1.28E-02	4.22E-03
2.93	9.81E-01	3.23E-01	9.74E-01	3.21E-01	6.86E-01	2.26E-01	2.48E-01	8.16E-02	1.29E-02	4.24E-03
2.935	9.81E-01	3.23E-01	9.75E-01	3.21E-01	6.86E-01	2.26E-01	2.49E-01	8.20E-02	1.29E-02	4.26E-03
2.94	9.82E-01	3.23E-01	9.76E-01	3.21E-01	6.87E-01	2.26E-01	2.50E-01	8.23E-02	1.30E-02	4.28E-03
2.945	9.82E-01	3.24E-01	9.76E-01	3.22E-01	6.87E-01	2.26E-01	2.51E-01	8.27E-02	1.31E-02	4.30E-03

2.95	9.83E-01	3.24E-01	9.77E-01	3.22E-01	6.88E-01	2.26E-01	2.52E-01	8.30E-02	1.31E-02	4.33E-03
2.955	9.83E-01	3.24E-01	9.78E-01	3.22E-01	6.88E-01	2.27E-01	2.53E-01	8.33E-02	1.32E-02	4.35E-03
2.96	9.84E-01	3.24E-01	9.79E-01	3.23E-01	6.89E-01	2.27E-01	2.54E-01	8.37E-02	1.33E-02	4.37E-03
2.965	9.85E-01	3.24E-01	9.80E-01	3.23E-01	6.89E-01	2.27E-01	2.55E-01	8.40E-02	1.33E-02	4.39E-03
2.97	9.85E-01	3.24E-01	9.81E-01	3.23E-01	6.90E-01	2.27E-01	2.56E-01	8.44E-02	1.34E-02	4.42E-03
2.975	9.86E-01	3.25E-01	9.82E-01	3.24E-01	6.90E-01	2.27E-01	2.57E-01	8.47E-02	1.35E-02	4.44E-03
2.98	9.86E-01	3.25E-01	9.83E-01	3.24E-01	6.91E-01	2.27E-01	2.58E-01	8.51E-02	1.35E-02	4.46E-03
2.985	9.87E-01	3.25E-01	9.84E-01	3.24E-01	6.91E-01	2.28E-01	2.59E-01	8.54E-02	1.36E-02	4.48E-03
2.99	9.87E-01	3.25E-01	9.85E-01	3.25E-01	6.92E-01	2.28E-01	2.60E-01	8.58E-02	1.37E-02	4.51E-03
2.995	9.88E-01	3.25E-01	9.86E-01	3.25E-01	6.92E-01	2.28E-01	2.61E-01	8.61E-02	1.37E-02	4.53E-03
3	9.88E-01	3.26E-01	9.87E-01	3.25E-01	6.93E-01	2.28E-01	2.62E-01	8.65E-02	1.38E-02	4.55E-03
3.005	9.89E-01	3.26E-01	9.88E-01	3.25E-01	6.93E-01	2.28E-01	2.64E-01	8.68E-02	1.39E-02	4.57E-03
3.01	9.89E-01	3.26E-01	9.89E-01	3.26E-01	6.94E-01	2.28E-01	2.65E-01	8.71E-02	1.40E-02	4.60E-03
3.015	9.90E-01	3.26E-01	9.90E-01	3.26E-01	6.94E-01	2.29E-01	2.66E-01	8.75E-02	1.40E-02	4.62E-03
3.02	9.90E-01	3.26E-01	9.91E-01	3.26E-01	6.95E-01	2.29E-01	2.67E-01	8.78E-02	1.41E-02	4.64E-03
3.025	9.91E-01	3.26E-01	9.92E-01	3.27E-01	6.95E-01	2.29E-01	2.68E-01	8.82E-02	1.42E-02	4.67E-03
3.03	9.91E-01	3.27E-01	9.93E-01	3.27E-01	6.96E-01	2.29E-01	2.69E-01	8.85E-02	1.42E-02	4.69E-03
3.035	9.92E-01	3.27E-01	9.94E-01	3.27E-01	6.96E-01	2.29E-01	2.70E-01	8.89E-02	1.43E-02	4.71E-03
3.04	9.92E-01	3.27E-01	9.95E-01	3.28E-01	6.97E-01	2.29E-01	2.71E-01	8.92E-02	1.44E-02	4.74E-03
3.045	9.93E-01	3.27E-01	9.96E-01	3.28E-01	6.97E-01	2.30E-01	2.72E-01	8.96E-02	1.45E-02	4.76E-03
3.05	9.93E-01	3.27E-01	9.96E-01	3.28E-01	6.98E-01	2.30E-01	2.73E-01	8.99E-02	1.45E-02	4.78E-03
3.055	9.94E-01	3.27E-01	9.97E-01	3.29E-01	6.98E-01	2.30E-01	2.74E-01	9.03E-02	1.46E-02	4.81E-03
3.06	9.94E-01	3.28E-01	9.98E-01	3.29E-01	6.98E-01	2.30E-01	2.75E-01	9.06E-02	1.47E-02	4.83E-03
3.065	9.95E-01	3.28E-01	9.99E-01	3.29E-01	6.99E-01	2.30E-01	2.76E-01	9.10E-02	1.47E-02	4.85E-03
3.07	9.95E-01	3.28E-01	1.00E+00	3.29E-01	6.99E-01	2.30E-01	2.77E-01	9.13E-02	1.48E-02	4.88E-03
3.075	9.96E-01	3.28E-01	1.00E+00	3.30E-01	7.00E-01	2.31E-01	2.78E-01	9.17E-02	1.49E-02	4.90E-03
3.08	9.96E-01	3.28E-01	1.00E+00	3.30E-01	7.00E-01	2.31E-01	2.79E-01	9.21E-02	1.50E-02	4.93E-03
3.085	9.97E-01	3.28E-01	1.00E+00	3.30E-01	7.01E-01	2.31E-01	2.81E-01	9.24E-02	1.50E-02	4.95E-03
3.09	9.97E-01	3.29E-01	1.00E+00	3.31E-01	7.01E-01	2.31E-01	2.82E-01	9.28E-02	1.51E-02	4.97E-03
3.095	9.98E-01	3.29E-01	1.00E+00	3.31E-01	7.02E-01	2.31E-01	2.83E-01	9.31E-02	1.52E-02	5.00E-03
3.1	9.98E-01	3.29E-01	1.01E+00	3.31E-01	7.02E-01	2.31E-01	2.84E-01	9.35E-02	1.52E-02	5.02E-03
3.105	9.99E-01	3.29E-01	1.01E+00	3.32E-01	7.03E-01	2.32E-01	2.85E-01	9.38E-02	1.53E-02	5.04E-03
3.11	9.99E-01	3.29E-01	1.01E+00	3.32E-01	7.03E-01	2.32E-01	2.86E-01	9.42E-02	1.54E-02	5.07E-03
3.115	1.00E+00	3.29E-01	1.01E+00	3.32E-01	7.04E-01	2.32E-01	2.87E-01	9.45E-02	1.55E-02	5.09E-03
3.12	1.00E+00	3.30E-01	1.01E+00	3.33E-01	7.04E-01	2.32E-01	2.88E-01	9.49E-02	1.55E-02	5.12E-03

3.125	1.00E+00	3.30E-01	1.01E+00	3.33E-01	7.05E-01	2.32E-01	2.89E-01	9.52E-02	1.56E-02	5.14E-03
3.13	1.00E+00	3.30E-01	1.01E+00	3.33E-01	7.05E-01	2.32E-01	2.90E-01	9.56E-02	1.57E-02	5.17E-03
3.135	1.00E+00	3.30E-01	1.01E+00	3.33E-01	7.06E-01	2.32E-01	2.91E-01	9.60E-02	1.58E-02	5.19E-03
3.14	1.00E+00	3.30E-01	1.01E+00	3.34E-01	7.06E-01	2.33E-01	2.92E-01	9.63E-02	1.58E-02	5.21E-03
3.145	1.00E+00	3.30E-01	1.01E+00	3.34E-01	7.07E-01	2.33E-01	2.93E-01	9.67E-02	1.59E-02	5.24E-03
3.15	1.00E+00	3.30E-01	1.02E+00	3.34E-01	7.07E-01	2.33E-01	2.95E-01	9.70E-02	1.60E-02	5.26E-03
3.155	1.00E+00	3.31E-01	1.02E+00	3.35E-01	7.08E-01	2.33E-01	2.96E-01	9.74E-02	1.61E-02	5.29E-03
3.16	1.00E+00	3.31E-01	1.02E+00	3.35E-01	7.08E-01	2.33E-01	2.97E-01	9.77E-02	1.61E-02	5.31E-03
3.165	1.00E+00	3.31E-01	1.02E+00	3.35E-01	7.09E-01	2.33E-01	2.98E-01	9.81E-02	1.62E-02	5.34E-03
3.17	1.01E+00	3.31E-01	1.02E+00	3.36E-01	7.09E-01	2.34E-01	2.99E-01	9.85E-02	1.63E-02	5.36E-03
3.175	1.01E+00	3.31E-01	1.02E+00	3.36E-01	7.10E-01	2.34E-01	3.00E-01	9.88E-02	1.64E-02	5.39E-03
3.18	1.01E+00	3.31E-01	1.02E+00	3.36E-01	7.10E-01	2.34E-01	3.01E-01	9.92E-02	1.64E-02	5.41E-03
3.185	1.01E+00	3.32E-01	1.02E+00	3.36E-01	7.10E-01	2.34E-01	3.02E-01	9.95E-02	1.65E-02	5.44E-03
3.19	1.01E+00	3.32E-01	1.02E+00	3.37E-01	7.11E-01	2.34E-01	3.03E-01	9.99E-02	1.66E-02	5.46E-03
3.195	1.01E+00	3.32E-01	1.02E+00	3.37E-01	7.11E-01	2.34E-01	3.04E-01	1.00E-01	1.67E-02	5.49E-03
3.2	1.01E+00	3.32E-01	1.02E+00	3.37E-01	7.12E-01	2.35E-01	3.05E-01	1.01E-01	1.67E-02	5.51E-03
3.205	1.01E+00	3.32E-01	1.03E+00	3.38E-01	7.12E-01	2.35E-01	3.07E-01	1.01E-01	1.68E-02	5.54E-03
3.21	1.01E+00	3.32E-01	1.03E+00	3.38E-01	7.13E-01	2.35E-01	3.08E-01	1.01E-01	1.69E-02	5.56E-03
3.215	1.01E+00	3.33E-01	1.03E+00	3.38E-01	7.13E-01	2.35E-01	3.09E-01	1.02E-01	1.70E-02	5.59E-03
3.22	1.01E+00	3.33E-01	1.03E+00	3.39E-01	7.14E-01	2.35E-01	3.10E-01	1.02E-01	1.70E-02	5.61E-03
3.225	1.01E+00	3.33E-01	1.03E+00	3.39E-01	7.14E-01	2.35E-01	3.11E-01	1.02E-01	1.71E-02	5.64E-03
3.23	1.01E+00	3.33E-01	1.03E+00	3.39E-01	7.15E-01	2.35E-01	3.12E-01	1.03E-01	1.72E-02	5.66E-03
3.235	1.01E+00	3.33E-01	1.03E+00	3.39E-01	7.15E-01	2.36E-01	3.13E-01	1.03E-01	1.73E-02	5.69E-03
3.24	1.01E+00	3.33E-01	1.03E+00	3.40E-01	7.16E-01	2.36E-01	3.14E-01	1.04E-01	1.73E-02	5.71E-03
3.245	1.01E+00	3.34E-01	1.03E+00	3.40E-01	7.16E-01	2.36E-01	3.15E-01	1.04E-01	1.74E-02	5.74E-03
3.25	1.01E+00	3.34E-01	1.03E+00	3.40E-01	7.17E-01	2.36E-01	3.16E-01	1.04E-01	1.75E-02	5.76E-03
3.255	1.01E+00	3.34E-01	1.03E+00	3.41E-01	7.17E-01	2.36E-01	3.18E-01	1.05E-01	1.76E-02	5.79E-03
3.26	1.01E+00	3.34E-01	1.03E+00	3.41E-01	7.17E-01	2.36E-01	3.19E-01	1.05E-01	1.77E-02	5.82E-03
3.265	1.01E+00	3.34E-01	1.04E+00	3.41E-01	7.18E-01	2.36E-01	3.20E-01	1.05E-01	1.77E-02	5.84E-03
3.27	1.01E+00	3.34E-01	1.04E+00	3.42E-01	7.18E-01	2.37E-01	3.21E-01	1.06E-01	1.78E-02	5.87E-03
3.275	1.02E+00	3.34E-01	1.04E+00	3.42E-01	7.19E-01	2.37E-01	3.22E-01	1.06E-01	1.79E-02	5.89E-03
3.28	1.02E+00	3.35E-01	1.04E+00	3.42E-01	7.19E-01	2.37E-01	3.23E-01	1.06E-01	1.80E-02	5.92E-03
3.285	1.02E+00	3.35E-01	1.04E+00	3.42E-01	7.20E-01	2.37E-01	3.24E-01	1.07E-01	1.80E-02	5.95E-03
3.29	1.02E+00	3.35E-01	1.04E+00	3.43E-01	7.20E-01	2.37E-01	3.25E-01	1.07E-01	1.81E-02	5.97E-03
3.295	1.02E+00	3.35E-01	1.04E+00	3.43E-01	7.21E-01	2.37E-01	3.26E-01	1.08E-01	1.82E-02	6.00E-03

3.3	1.02E+00	3.35E-01	1.04E+00	3.43E-01	7.21E-01	2.38E-01	3.27E-01	1.08E-01	1.83E-02	6.02E-03
3.305	1.02E+00	3.35E-01	1.04E+00	3.44E-01	7.22E-01	2.38E-01	3.29E-01	1.08E-01	1.84E-02	6.05E-03
3.31	1.02E+00	3.36E-01	1.04E+00	3.44E-01	7.22E-01	2.38E-01	3.30E-01	1.09E-01	1.84E-02	6.08E-03
3.315	1.02E+00	3.36E-01	1.04E+00	3.44E-01	7.22E-01	2.38E-01	3.31E-01	1.09E-01	1.85E-02	6.10E-03
3.32	1.02E+00	3.36E-01	1.05E+00	3.44E-01	7.23E-01	2.38E-01	3.32E-01	1.09E-01	1.86E-02	6.13E-03
3.325	1.02E+00	3.36E-01	1.05E+00	3.45E-01	7.23E-01	2.38E-01	3.33E-01	1.10E-01	1.87E-02	6.15E-03
3.33	1.02E+00	3.36E-01	1.05E+00	3.45E-01	7.24E-01	2.38E-01	3.34E-01	1.10E-01	1.88E-02	6.18E-03
3.335	1.02E+00	3.36E-01	1.05E+00	3.45E-01	7.24E-01	2.39E-01	3.35E-01	1.10E-01	1.88E-02	6.21E-03
3.34	1.02E+00	3.36E-01	1.05E+00	3.46E-01	7.25E-01	2.39E-01	3.36E-01	1.11E-01	1.89E-02	6.23E-03
3.345	1.02E+00	3.37E-01	1.05E+00	3.46E-01	7.25E-01	2.39E-01	3.38E-01	1.11E-01	1.90E-02	6.26E-03
3.35	1.02E+00	3.37E-01	1.05E+00	3.46E-01	7.26E-01	2.39E-01	3.39E-01	1.12E-01	1.91E-02	6.29E-03
3.355	1.02E+00	3.37E-01	1.05E+00	3.46E-01	7.26E-01	2.39E-01	3.40E-01	1.12E-01	1.92E-02	6.31E-03
3.36	1.02E+00	3.37E-01	1.05E+00	3.47E-01	7.27E-01	2.39E-01	3.41E-01	1.12E-01	1.92E-02	6.34E-03
3.365	1.02E+00	3.37E-01	1.05E+00	3.47E-01	7.27E-01	2.39E-01	3.42E-01	1.13E-01	1.93E-02	6.37E-03
3.37	1.02E+00	3.37E-01	1.05E+00	3.47E-01	7.27E-01	2.40E-01	3.43E-01	1.13E-01	1.94E-02	6.39E-03
3.375	1.02E+00	3.38E-01	1.06E+00	3.48E-01	7.28E-01	2.40E-01	3.44E-01	1.13E-01	1.95E-02	6.42E-03
3.38	1.03E+00	3.38E-01	1.06E+00	3.48E-01	7.28E-01	2.40E-01	3.45E-01	1.14E-01	1.96E-02	6.45E-03
3.385	1.03E+00	3.38E-01	1.06E+00	3.48E-01	7.29E-01	2.40E-01	3.46E-01	1.14E-01	1.97E-02	6.47E-03
3.39	1.03E+00	3.38E-01	1.06E+00	3.48E-01	7.29E-01	2.40E-01	3.48E-01	1.15E-01	1.97E-02	6.50E-03
3.395	1.03E+00	3.38E-01	1.06E+00	3.49E-01	7.30E-01	2.40E-01	3.49E-01	1.15E-01	1.98E-02	6.53E-03
3.4	1.03E+00	3.38E-01	1.06E+00	3.49E-01	7.30E-01	2.41E-01	3.50E-01	1.15E-01	1.99E-02	6.56E-03
3.405	1.03E+00	3.38E-01	1.06E+00	3.49E-01	7.31E-01	2.41E-01	3.51E-01	1.16E-01	2.00E-02	6.58E-03
3.41	1.03E+00	3.39E-01	1.06E+00	3.50E-01	7.31E-01	2.41E-01	3.52E-01	1.16E-01	2.01E-02	6.61E-03
3.415	1.03E+00	3.39E-01	1.06E+00	3.50E-01	7.31E-01	2.41E-01	3.53E-01	1.16E-01	2.02E-02	6.64E-03
3.42	1.03E+00	3.39E-01	1.06E+00	3.50E-01	7.32E-01	2.41E-01	3.54E-01	1.17E-01	2.02E-02	6.67E-03
3.425	1.03E+00	3.39E-01	1.06E+00	3.50E-01	7.32E-01	2.41E-01	3.55E-01	1.17E-01	2.03E-02	6.69E-03
3.43	1.03E+00	3.39E-01	1.06E+00	3.51E-01	7.33E-01	2.41E-01	3.57E-01	1.17E-01	2.04E-02	6.72E-03
3.435	1.03E+00	3.39E-01	1.07E+00	3.51E-01	7.33E-01	2.42E-01	3.58E-01	1.18E-01	2.05E-02	6.75E-03
3.44	1.03E+00	3.39E-01	1.07E+00	3.51E-01	7.34E-01	2.42E-01	3.59E-01	1.18E-01	2.06E-02	6.77E-03
3.445	1.03E+00	3.40E-01	1.07E+00	3.52E-01	7.34E-01	2.42E-01	3.60E-01	1.19E-01	2.07E-02	6.80E-03
3.45	1.03E+00	3.40E-01	1.07E+00	3.52E-01	7.34E-01	2.42E-01	3.61E-01	1.19E-01	2.07E-02	6.83E-03
3.455	1.03E+00	3.40E-01	1.07E+00	3.52E-01	7.35E-01	2.42E-01	3.62E-01	1.19E-01	2.08E-02	6.86E-03
3.46	1.03E+00	3.40E-01	1.07E+00	3.52E-01	7.35E-01	2.42E-01	3.63E-01	1.20E-01	2.09E-02	6.89E-03
3.465	1.03E+00	3.40E-01	1.07E+00	3.53E-01	7.36E-01	2.42E-01	3.65E-01	1.20E-01	2.10E-02	6.91E-03
3.47	1.03E+00	3.40E-01	1.07E+00	3.53E-01	7.36E-01	2.43E-01	3.66E-01	1.20E-01	2.11E-02	6.94E-03

3.475	1.03E+00	3.41E-01	1.07E+00	3.53E-01	7.37E-01	2.43E-01	3.67E-01	1.21E-01	2.12E-02	6.97E-03
3.48	1.03E+00	3.41E-01	1.07E+00	3.54E-01	7.37E-01	2.43E-01	3.68E-01	1.21E-01	2.12E-02	7.00E-03
3.485	1.03E+00	3.41E-01	1.07E+00	3.54E-01	7.38E-01	2.43E-01	3.69E-01	1.22E-01	2.13E-02	7.03E-03
3.49	1.04E+00	3.41E-01	1.07E+00	3.54E-01	7.38E-01	2.43E-01	3.70E-01	1.22E-01	2.14E-02	7.05E-03
3.495	1.04E+00	3.41E-01	1.08E+00	3.54E-01	7.38E-01	2.43E-01	3.71E-01	1.22E-01	2.15E-02	7.08E-03
3.5	1.04E+00	3.41E-01	1.08E+00	3.55E-01	7.39E-01	2.43E-01	3.73E-01	1.23E-01	2.16E-02	7.11E-03
3.505	1.04E+00	3.41E-01	1.08E+00	3.55E-01	7.39E-01	2.44E-01	3.74E-01	1.23E-01	2.17E-02	7.14E-03
3.51	1.04E+00	3.42E-01	1.08E+00	3.55E-01	7.40E-01	2.44E-01	3.75E-01	1.23E-01	2.18E-02	7.17E-03
3.515	1.04E+00	3.42E-01	1.08E+00	3.55E-01	7.40E-01	2.44E-01	3.76E-01	1.24E-01	2.18E-02	7.19E-03
3.52	1.04E+00	3.42E-01	1.08E+00	3.56E-01	7.41E-01	2.44E-01	3.77E-01	1.24E-01	2.19E-02	7.22E-03
3.525	1.04E+00	3.42E-01	1.08E+00	3.56E-01	7.41E-01	2.44E-01	3.78E-01	1.25E-01	2.20E-02	7.25E-03
3.53	1.04E+00	3.42E-01	1.08E+00	3.56E-01	7.41E-01	2.44E-01	3.79E-01	1.25E-01	2.21E-02	7.28E-03
3.535	1.04E+00	3.42E-01	1.08E+00	3.57E-01	7.42E-01	2.44E-01	3.81E-01	1.25E-01	2.22E-02	7.31E-03
3.54	1.04E+00	3.42E-01	1.08E+00	3.57E-01	7.42E-01	2.44E-01	3.82E-01	1.26E-01	2.23E-02	7.34E-03
3.545	1.04E+00	3.43E-01	1.08E+00	3.57E-01	7.43E-01	2.45E-01	3.83E-01	1.26E-01	2.24E-02	7.37E-03
3.55	1.04E+00	3.43E-01	1.08E+00	3.57E-01	7.43E-01	2.45E-01	3.84E-01	1.26E-01	2.24E-02	7.39E-03
3.555	1.04E+00	3.43E-01	1.09E+00	3.58E-01	7.43E-01	2.45E-01	3.85E-01	1.27E-01	2.25E-02	7.42E-03
3.56	1.04E+00	3.43E-01	1.09E+00	3.58E-01	7.44E-01	2.45E-01	3.86E-01	1.27E-01	2.26E-02	7.45E-03
3.565	1.04E+00	3.43E-01	1.09E+00	3.58E-01	7.44E-01	2.45E-01	3.87E-01	1.28E-01	2.27E-02	7.48E-03
3.57	1.04E+00	3.43E-01	1.09E+00	3.58E-01	7.45E-01	2.45E-01	3.89E-01	1.28E-01	2.28E-02	7.51E-03
3.575	1.04E+00	3.43E-01	1.09E+00	3.59E-01	7.45E-01	2.45E-01	3.90E-01	1.28E-01	2.29E-02	7.54E-03
3.58	1.04E+00	3.44E-01	1.09E+00	3.59E-01	7.46E-01	2.46E-01	3.91E-01	1.29E-01	2.30E-02	7.57E-03
3.585	1.04E+00	3.44E-01	1.09E+00	3.59E-01	7.46E-01	2.46E-01	3.92E-01	1.29E-01	2.31E-02	7.60E-03
3.59	1.04E+00	3.44E-01	1.09E+00	3.60E-01	7.46E-01	2.46E-01	3.93E-01	1.29E-01	2.31E-02	7.62E-03
3.595	1.04E+00	3.44E-01	1.09E+00	3.60E-01	7.47E-01	2.46E-01	3.94E-01	1.30E-01	2.32E-02	7.65E-03
3.6	1.04E+00	3.44E-01	1.09E+00	3.60E-01	7.47E-01	2.46E-01	3.95E-01	1.30E-01	2.33E-02	7.68E-03
3.605	1.05E+00	3.44E-01	1.09E+00	3.60E-01	7.48E-01	2.46E-01	3.97E-01	1.31E-01	2.34E-02	7.71E-03
3.61	1.05E+00	3.44E-01	1.09E+00	3.61E-01	7.48E-01	2.46E-01	3.98E-01	1.31E-01	2.35E-02	7.74E-03
3.615	1.05E+00	3.45E-01	1.10E+00	3.61E-01	7.49E-01	2.47E-01	3.99E-01	1.31E-01	2.36E-02	7.77E-03
3.62	1.05E+00	3.45E-01	1.10E+00	3.61E-01	7.49E-01	2.47E-01	4.00E-01	1.32E-01	2.37E-02	7.80E-03
3.625	1.05E+00	3.45E-01	1.10E+00	3.61E-01	7.49E-01	2.47E-01	4.01E-01	1.32E-01	2.38E-02	7.83E-03
3.63	1.05E+00	3.45E-01	1.10E+00	3.62E-01	7.50E-01	2.47E-01	4.02E-01	1.33E-01	2.39E-02	7.86E-03
3.635	1.05E+00	3.45E-01	1.10E+00	3.62E-01	7.50E-01	2.47E-01	4.03E-01	1.33E-01	2.39E-02	7.89E-03
3.64	1.05E+00	3.45E-01	1.10E+00	3.62E-01	7.51E-01	2.47E-01	4.05E-01	1.33E-01	2.40E-02	7.92E-03
3.645	1.05E+00	3.45E-01	1.10E+00	3.63E-01	7.51E-01	2.47E-01	4.06E-01	1.34E-01	2.41E-02	7.95E-03

3.65	1.05E+00	3.46E-01	1.10E+00	3.63E-01	7.51E-01	2.48E-01	4.07E-01	1.34E-01	2.42E-02	7.98E-03
3.655	1.05E+00	3.46E-01	1.10E+00	3.63E-01	7.52E-01	2.48E-01	4.08E-01	1.34E-01	2.43E-02	8.01E-03
3.66	1.05E+00	3.46E-01	1.10E+00	3.63E-01	7.52E-01	2.48E-01	4.09E-01	1.35E-01	2.44E-02	8.04E-03
3.665	1.05E+00	3.46E-01	1.10E+00	3.64E-01	7.53E-01	2.48E-01	4.10E-01	1.35E-01	2.45E-02	8.07E-03
3.67	1.05E+00	3.46E-01	1.10E+00	3.64E-01	7.53E-01	2.48E-01	4.12E-01	1.36E-01	2.46E-02	8.10E-03
3.675	1.05E+00	3.46E-01	1.11E+00	3.64E-01	7.53E-01	2.48E-01	4.13E-01	1.36E-01	2.47E-02	8.13E-03
3.68	1.05E+00	3.46E-01	1.11E+00	3.64E-01	7.54E-01	2.48E-01	4.14E-01	1.36E-01	2.48E-02	8.16E-03
3.685	1.05E+00	3.47E-01	1.11E+00	3.65E-01	7.54E-01	2.48E-01	4.15E-01	1.37E-01	2.49E-02	8.19E-03
3.69	1.05E+00	3.47E-01	1.11E+00	3.65E-01	7.55E-01	2.49E-01	4.16E-01	1.37E-01	2.49E-02	8.22E-03
3.695	1.05E+00	3.47E-01	1.11E+00	3.65E-01	7.55E-01	2.49E-01	4.17E-01	1.37E-01	2.50E-02	8.25E-03
3.7	1.05E+00	3.47E-01	1.11E+00	3.65E-01	7.56E-01	2.49E-01	4.19E-01	1.38E-01	2.51E-02	8.28E-03
3.705	1.05E+00	3.47E-01	1.11E+00	3.66E-01	7.56E-01	2.49E-01	4.20E-01	1.38E-01	2.52E-02	8.31E-03
3.71	1.05E+00	3.47E-01	1.11E+00	3.66E-01	7.56E-01	2.49E-01	4.21E-01	1.39E-01	2.53E-02	8.34E-03
3.715	1.05E+00	3.47E-01	1.11E+00	3.66E-01	7.57E-01	2.49E-01	4.22E-01	1.39E-01	2.54E-02	8.37E-03
3.72	1.06E+00	3.48E-01	1.11E+00	3.67E-01	7.57E-01	2.49E-01	4.23E-01	1.39E-01	2.55E-02	8.40E-03
3.725	1.06E+00	3.48E-01	1.11E+00	3.67E-01	7.58E-01	2.50E-01	4.24E-01	1.40E-01	2.56E-02	8.43E-03
3.73	1.06E+00	3.48E-01	1.11E+00	3.67E-01	7.58E-01	2.50E-01	4.25E-01	1.40E-01	2.57E-02	8.46E-03
3.735	1.06E+00	3.48E-01	1.12E+00	3.67E-01	7.58E-01	2.50E-01	4.27E-01	1.41E-01	2.58E-02	8.49E-03
3.74	1.06E+00	3.48E-01	1.12E+00	3.68E-01	7.59E-01	2.50E-01	4.28E-01	1.41E-01	2.59E-02	8.52E-03
3.745	1.06E+00	3.48E-01	1.12E+00	3.68E-01	7.59E-01	2.50E-01	4.29E-01	1.41E-01	2.60E-02	8.55E-03
3.75	1.06E+00	3.48E-01	1.12E+00	3.68E-01	7.60E-01	2.50E-01	4.30E-01	1.42E-01	2.60E-02	8.58E-03
3.755	1.06E+00	3.48E-01	1.12E+00	3.68E-01	7.60E-01	2.50E-01	4.31E-01	1.42E-01	2.61E-02	8.61E-03
3.76	1.06E+00	3.49E-01	1.12E+00	3.69E-01	7.60E-01	2.50E-01	4.32E-01	1.42E-01	2.62E-02	8.64E-03
3.765	1.06E+00	3.49E-01	1.12E+00	3.69E-01	7.61E-01	2.51E-01	4.34E-01	1.43E-01	2.63E-02	8.67E-03
3.77	1.06E+00	3.49E-01	1.12E+00	3.69E-01	7.61E-01	2.51E-01	4.35E-01	1.43E-01	2.64E-02	8.70E-03
3.775	1.06E+00	3.49E-01	1.12E+00	3.69E-01	7.62E-01	2.51E-01	4.36E-01	1.44E-01	2.65E-02	8.73E-03
3.78	1.06E+00	3.49E-01	1.12E+00	3.70E-01	7.62E-01	2.51E-01	4.37E-01	1.44E-01	2.66E-02	8.76E-03
3.785	1.06E+00	3.49E-01	1.12E+00	3.70E-01	7.62E-01	2.51E-01	4.38E-01	1.44E-01	2.67E-02	8.80E-03
3.79	1.06E+00	3.49E-01	1.12E+00	3.70E-01	7.63E-01	2.51E-01	4.39E-01	1.45E-01	2.68E-02	8.83E-03
3.795	1.06E+00	3.50E-01	1.12E+00	3.70E-01	7.63E-01	2.51E-01	4.41E-01	1.45E-01	2.69E-02	8.86E-03
3.8	1.06E+00	3.50E-01	1.13E+00	3.71E-01	7.63E-01	2.52E-01	4.42E-01	1.46E-01	2.70E-02	8.89E-03
3.805	1.06E+00	3.50E-01	1.13E+00	3.71E-01	7.64E-01	2.52E-01	4.43E-01	1.46E-01	2.71E-02	8.92E-03
3.81	1.06E+00	3.50E-01	1.13E+00	3.71E-01	7.64E-01	2.52E-01	4.44E-01	1.46E-01	2.72E-02	8.95E-03
3.815	1.06E+00	3.50E-01	1.13E+00	3.71E-01	7.65E-01	2.52E-01	4.45E-01	1.47E-01	2.73E-02	8.98E-03
3.82	1.06E+00	3.50E-01	1.13E+00	3.72E-01	7.65E-01	2.52E-01	4.46E-01	1.47E-01	2.74E-02	9.01E-03

3.825	1.06E+00	3.50E-01	1.13E+00	3.72E-01	7.65E-01	2.52E-01	4.48E-01	1.47E-01	2.75E-02	9.04E-03
3.83	1.06E+00	3.50E-01	1.13E+00	3.72E-01	7.66E-01	2.52E-01	4.49E-01	1.48E-01	2.76E-02	9.08E-03
3.835	1.06E+00	3.51E-01	1.13E+00	3.73E-01	7.66E-01	2.52E-01	4.50E-01	1.48E-01	2.76E-02	9.11E-03
3.84	1.06E+00	3.51E-01	1.13E+00	3.73E-01	7.67E-01	2.53E-01	4.51E-01	1.49E-01	2.77E-02	9.14E-03
3.845	1.07E+00	3.51E-01	1.13E+00	3.73E-01	7.67E-01	2.53E-01	4.52E-01	1.49E-01	2.78E-02	9.17E-03
3.85	1.07E+00	3.51E-01	1.13E+00	3.73E-01	7.67E-01	2.53E-01	4.54E-01	1.49E-01	2.79E-02	9.20E-03
3.855	1.07E+00	3.51E-01	1.13E+00	3.74E-01	7.68E-01	2.53E-01	4.55E-01	1.50E-01	2.80E-02	9.23E-03
3.86	1.07E+00	3.51E-01	1.13E+00	3.74E-01	7.68E-01	2.53E-01	4.56E-01	1.50E-01	2.81E-02	9.27E-03
3.865	1.07E+00	3.51E-01	1.14E+00	3.74E-01	7.69E-01	2.53E-01	4.57E-01	1.51E-01	2.82E-02	9.30E-03
3.87	1.07E+00	3.52E-01	1.14E+00	3.74E-01	7.69E-01	2.53E-01	4.58E-01	1.51E-01	2.83E-02	9.33E-03
3.875	1.07E+00	3.52E-01	1.14E+00	3.75E-01	7.69E-01	2.53E-01	4.59E-01	1.51E-01	2.84E-02	9.36E-03
3.88	1.07E+00	3.52E-01	1.14E+00	3.75E-01	7.70E-01	2.54E-01	4.61E-01	1.52E-01	2.85E-02	9.39E-03
3.885	1.07E+00	3.52E-01	1.14E+00	3.75E-01	7.70E-01	2.54E-01	4.62E-01	1.52E-01	2.86E-02	9.42E-03
3.89	1.07E+00	3.52E-01	1.14E+00	3.75E-01	7.71E-01	2.54E-01	4.63E-01	1.52E-01	2.87E-02	9.46E-03
3.895	1.07E+00	3.52E-01	1.14E+00	3.76E-01	7.71E-01	2.54E-01	4.64E-01	1.53E-01	2.88E-02	9.49E-03
3.9	1.07E+00	3.52E-01	1.14E+00	3.76E-01	7.71E-01	2.54E-01	4.65E-01	1.53E-01	2.89E-02	9.52E-03
3.905	1.07E+00	3.52E-01	1.14E+00	3.76E-01	7.72E-01	2.54E-01	4.66E-01	1.54E-01	2.90E-02	9.55E-03
3.91	1.07E+00	3.53E-01	1.14E+00	3.76E-01	7.72E-01	2.54E-01	4.68E-01	1.54E-01	2.91E-02	9.58E-03
3.915	1.07E+00	3.53E-01	1.14E+00	3.77E-01	7.72E-01	2.54E-01	4.69E-01	1.54E-01	2.92E-02	9.62E-03
3.92	1.07E+00	3.53E-01	1.14E+00	3.77E-01	7.73E-01	2.55E-01	4.70E-01	1.55E-01	2.93E-02	9.65E-03
3.925	1.07E+00	3.53E-01	1.14E+00	3.77E-01	7.73E-01	2.55E-01	4.71E-01	1.55E-01	2.94E-02	9.68E-03
3.93	1.07E+00	3.53E-01	1.15E+00	3.77E-01	7.74E-01	2.55E-01	4.72E-01	1.56E-01	2.95E-02	9.71E-03
3.935	1.07E+00	3.53E-01	1.15E+00	3.78E-01	7.74E-01	2.55E-01	4.73E-01	1.56E-01	2.96E-02	9.75E-03
3.94	1.07E+00	3.53E-01	1.15E+00	3.78E-01	7.74E-01	2.55E-01	4.75E-01	1.56E-01	2.97E-02	9.78E-03
3.945	1.07E+00	3.54E-01	1.15E+00	3.78E-01	7.75E-01	2.55E-01	4.76E-01	1.57E-01	2.98E-02	9.81E-03
3.95	1.07E+00	3.54E-01	1.15E+00	3.78E-01	7.75E-01	2.55E-01	4.77E-01	1.57E-01	2.99E-02	9.84E-03
3.955	1.07E+00	3.54E-01	1.15E+00	3.79E-01	7.75E-01	2.55E-01	4.78E-01	1.58E-01	3.00E-02	9.88E-03
3.96	1.07E+00	3.54E-01	1.15E+00	3.79E-01	7.76E-01	2.56E-01	4.79E-01	1.58E-01	3.01E-02	9.91E-03
3.965	1.07E+00	3.54E-01	1.15E+00	3.79E-01	7.76E-01	2.56E-01	4.81E-01	1.58E-01	3.02E-02	9.94E-03
3.97	1.08E+00	3.54E-01	1.15E+00	3.79E-01	7.77E-01	2.56E-01	4.82E-01	1.59E-01	3.03E-02	9.97E-03
3.975	1.08E+00	3.54E-01	1.15E+00	3.80E-01	7.77E-01	2.56E-01	4.83E-01	1.59E-01	3.04E-02	1.00E-02
3.98	1.08E+00	3.54E-01	1.15E+00	3.80E-01	7.77E-01	2.56E-01	4.84E-01	1.59E-01	3.05E-02	1.00E-02
3.985	1.08E+00	3.55E-01	1.15E+00	3.80E-01	7.78E-01	2.56E-01	4.85E-01	1.60E-01	3.06E-02	1.01E-02
3.99	1.08E+00	3.55E-01	1.15E+00	3.80E-01	7.78E-01	2.56E-01	4.86E-01	1.60E-01	3.07E-02	1.01E-02
3.995	1.08E+00	3.55E-01	1.16E+00	3.81E-01	7.78E-01	2.56E-01	4.88E-01	1.61E-01	3.08E-02	1.01E-02

4	1.08E+00	3.55E-01	1.16E+00	3.81E-01	7.79E-01	2.57E-01	4.89E-01	1.61E-01	3.09E-02	1.02E-02
4.5	1.11E+00	3.67E-01	1.23E+00	4.04E-01	8.14E-01	2.68E-01	6.09E-01	2.01E-01	4.16E-02	1.37E-02
5	1.15E+00	3.77E-01	1.29E+00	4.25E-01	8.44E-01	2.78E-01	7.28E-01	2.40E-01	5.35E-02	1.76E-02
5.5	1.17E+00	3.86E-01	1.35E+00	4.44E-01	8.71E-01	2.87E-01	8.46E-01	2.79E-01	6.65E-02	2.19E-02
6	1.20E+00	3.94E-01	1.40E+00	4.61E-01	8.95E-01	2.95E-01	9.60E-01	3.16E-01	8.05E-02	2.65E-02
6.5	1.22E+00	4.02E-01	1.45E+00	4.77E-01	9.15E-01	3.02E-01	1.07E+00	3.52E-01	9.54E-02	3.14E-02
7	1.24E+00	4.08E-01	1.49E+00	4.91E-01	9.34E-01	3.08E-01	1.18E+00	3.87E-01	1.11E-01	3.66E-02
7.5	1.26E+00	4.13E-01	1.53E+00	5.04E-01	9.50E-01	3.13E-01	1.28E+00	4.20E-01	1.27E-01	4.20E-02
8	1.27E+00	4.18E-01	1.56E+00	5.16E-01	9.65E-01	3.18E-01	1.37E+00	4.52E-01	1.44E-01	4.76E-02
9	1.29E+00	4.20E-01	1.62E+00	5.20E-01	9.86E-01	3.20E-01	1.54E+00	4.65E-01	1.73E-01	4.98E-02
10	1.31E+00	4.22E-01	1.67E+00	5.24E-01	1.00E+00	3.21E-01	1.70E+00	4.76E-01	2.03E-01	5.21E-02
11	1.33E+00	4.23E-01	1.72E+00	5.27E-01	1.02E+00	3.22E-01	1.84E+00	4.87E-01	2.35E-01	5.45E-02
12	1.34E+00	4.24E-01	1.75E+00	5.30E-01	1.03E+00	3.23E-01	1.96E+00	4.97E-01	2.66E-01	5.69E-02
13	1.35E+00	4.25E-01	1.79E+00	5.33E-01	1.04E+00	3.24E-01	2.07E+00	5.05E-01	2.99E-01	5.94E-02
14	1.36E+00	4.26E-01	1.82E+00	5.35E-01	1.05E+00	3.25E-01	2.18E+00	5.14E-01	3.31E-01	6.19E-02
15	1.37E+00	4.26E-01	1.85E+00	5.37E-01	1.06E+00	3.25E-01	2.28E+00	5.21E-01	3.64E-01	6.44E-02
16	1.38E+00	4.27E-01	1.87E+00	5.39E-01	1.07E+00	3.26E-01	2.37E+00	5.28E-01	3.97E-01	6.69E-02
17	1.39E+00	4.28E-01	1.90E+00	5.41E-01	1.08E+00	3.27E-01	2.45E+00	5.34E-01	4.29E-01	6.93E-02
18	1.40E+00	4.28E-01	1.92E+00	5.43E-01	1.09E+00	3.27E-01	2.53E+00	5.40E-01	4.60E-01	7.17E-02
19	1.40E+00	4.29E-01	1.94E+00	5.44E-01	1.09E+00	3.28E-01	2.60E+00	5.46E-01	4.91E-01	7.41E-02
20	1.41E+00	4.29E-01	1.96E+00	5.46E-01	1.10E+00	3.28E-01	2.67E+00	5.51E-01	5.21E-01	7.64E-02
21	1.42E+00	4.30E-01	1.98E+00	5.47E-01	1.11E+00	3.29E-01	2.73E+00	5.56E-01	5.51E-01	7.86E-02
22	1.42E+00	4.30E-01	2.00E+00	5.49E-01	1.11E+00	3.29E-01	2.79E+00	5.60E-01	5.79E-01	8.08E-02
23	1.43E+00	4.31E-01	2.02E+00	5.50E-01	1.12E+00	3.30E-01	2.85E+00	5.65E-01	6.07E-01	8.30E-02
24	1.43E+00	4.31E-01	2.03E+00	5.51E-01	1.12E+00	3.30E-01	2.90E+00	5.69E-01	6.34E-01	8.50E-02
26	1.44E+00	4.31E-01	2.05E+00	5.52E-01	1.13E+00	3.30E-01	3.00E+00	5.71E-01	6.91E-01	8.64E-02
28	1.45E+00	4.31E-01	2.06E+00	5.52E-01	1.13E+00	3.30E-01	3.07E+00	5.73E-01	7.44E-01	8.77E-02
30	1.45E+00	4.31E-01	2.08E+00	5.52E-01	1.14E+00	3.30E-01	3.14E+00	5.75E-01	7.93E-01	8.90E-02
32	1.45E+00	4.32E-01	2.09E+00	5.53E-01	1.14E+00	3.31E-01	3.19E+00	5.76E-01	8.40E-01	9.01E-02
34	1.46E+00	4.32E-01	2.11E+00	5.53E-01	1.15E+00	3.31E-01	3.24E+00	5.77E-01	8.84E-01	9.12E-02
36	1.46E+00	4.32E-01	2.12E+00	5.53E-01	1.15E+00	3.31E-01	3.28E+00	5.78E-01	9.25E-01	9.22E-02
38	1.47E+00	4.32E-01	2.13E+00	5.54E-01	1.16E+00	3.31E-01	3.32E+00	5.79E-01	9.64E-01	9.32E-02
40	1.47E+00	4.32E-01	2.14E+00	5.54E-01	1.16E+00	3.31E-01	3.36E+00	5.80E-01	1.00E+00	9.41E-02
42	1.48E+00	4.32E-01	2.15E+00	5.54E-01	1.16E+00	3.31E-01	3.40E+00	5.81E-01	1.04E+00	9.50E-02
44	1.48E+00	4.32E-01	2.17E+00	5.55E-01	1.17E+00	3.31E-01	3.43E+00	5.82E-01	1.07E+00	9.58E-02

46	1.48E+00	4.32E-01	2.18E+00	5.55E-01	1.17E+00	3.31E-01	3.47E+00	5.83E-01	1.10E+00	9.65E-02
48	1.49E+00	4.32E-01	2.19E+00	5.55E-01	1.17E+00	3.31E-01	3.50E+00	5.84E-01	1.13E+00	9.73E-02
72	1.53E+00	4.33E-01	2.31E+00	5.58E-01	1.21E+00	3.32E-01	3.86E+00	5.92E-01	1.41E+00	1.04E-01
96	1.56E+00	4.34E-01	2.41E+00	5.61E-01	1.25E+00	3.33E-01	4.16E+00	6.00E-01	1.62E+00	1.09E-01
120	1.59E+00	4.34E-01	2.50E+00	5.61E-01	1.27E+00	3.33E-01	4.42E+00	6.01E-01	1.80E+00	1.10E-01
144	1.62E+00	4.34E-01	2.58E+00	5.61E-01	1.30E+00	3.33E-01	4.65E+00	6.02E-01	1.97E+00	1.11E-01
168	1.64E+00	4.35E-01	2.65E+00	5.62E-01	1.32E+00	3.33E-01	4.85E+00	6.03E-01	2.12E+00	1.12E-01
192	1.66E+00	4.35E-01	2.71E+00	5.62E-01	1.34E+00	3.34E-01	5.02E+00	6.04E-01	2.25E+00	1.13E-01
216	1.68E+00	4.35E-01	2.76E+00	5.62E-01	1.36E+00	3.34E-01	5.18E+00	6.05E-01	2.38E+00	1.13E-01
240	1.70E+00	4.35E-01	2.81E+00	5.63E-01	1.38E+00	3.34E-01	5.31E+00	6.06E-01	2.49E+00	1.14E-01
264	1.71E+00	4.35E-01	2.85E+00	5.63E-01	1.39E+00	3.34E-01	5.43E+00	6.07E-01	2.59E+00	1.15E-01
288	1.72E+00	4.35E-01	2.89E+00	5.63E-01	1.40E+00	3.34E-01	5.53E+00	6.07E-01	2.68E+00	1.15E-01
312	1.73E+00	4.35E-01	2.92E+00	5.63E-01	1.41E+00	3.34E-01	5.62E+00	6.08E-01	2.77E+00	1.15E-01
336	1.74E+00	4.35E-01	2.95E+00	5.63E-01	1.42E+00	3.34E-01	5.69E+00	6.08E-01	2.84E+00	1.16E-01
360	1.75E+00	4.35E-01	2.98E+00	5.64E-01	1.43E+00	3.34E-01	5.76E+00	6.08E-01	2.91E+00	1.16E-01
384	1.76E+00	4.35E-01	3.00E+00	5.64E-01	1.44E+00	3.34E-01	5.82E+00	6.09E-01	2.98E+00	1.17E-01
408	1.77E+00	4.35E-01	3.03E+00	5.64E-01	1.45E+00	3.34E-01	5.87E+00	6.09E-01	3.03E+00	1.17E-01
432	1.77E+00	4.35E-01	3.04E+00	5.64E-01	1.45E+00	3.34E-01	5.92E+00	6.09E-01	3.09E+00	1.17E-01
456	1.78E+00	4.35E-01	3.06E+00	5.64E-01	1.46E+00	3.34E-01	5.96E+00	6.09E-01	3.13E+00	1.17E-01
480	1.79E+00	4.35E-01	3.08E+00	5.64E-01	1.46E+00	3.34E-01	5.99E+00	6.10E-01	3.18E+00	1.18E-01
504	1.79E+00	4.35E-01	3.09E+00	5.64E-01	1.47E+00	3.34E-01	6.02E+00	6.10E-01	3.22E+00	1.18E-01
528	1.79E+00	4.35E-01	3.10E+00	5.64E-01	1.47E+00	3.34E-01	6.05E+00	6.10E-01	3.25E+00	1.18E-01
552	1.80E+00	4.35E-01	3.11E+00	5.64E-01	1.47E+00	3.34E-01	6.07E+00	6.10E-01	3.28E+00	1.18E-01
576	1.80E+00	4.35E-01	3.12E+00	5.64E-01	1.48E+00	3.34E-01	6.09E+00	6.10E-01	3.31E+00	1.18E-01
600	1.80E+00	4.35E-01	3.13E+00	5.64E-01	1.48E+00	3.34E-01	6.11E+00	6.10E-01	3.34E+00	1.18E-01
624	1.81E+00	4.35E-01	3.14E+00	5.64E-01	1.48E+00	3.34E-01	6.13E+00	6.10E-01	3.37E+00	1.19E-01
648	1.81E+00	4.35E-01	3.14E+00	5.64E-01	1.48E+00	3.34E-01	6.14E+00	6.10E-01	3.39E+00	1.19E-01
672	1.81E+00	4.35E-01	3.15E+00	5.64E-01	1.49E+00	3.34E-01	6.15E+00	6.10E-01	3.41E+00	1.19E-01
720	1.81E+00	4.35E-01	3.16E+00	5.65E-01	1.49E+00	3.34E-01	6.17E+00	6.10E-01	3.44E+00	1.19E-01

Table 2

	Combined Cumulative Offsite Dose (1f+2f+3f+4f+5f)		Dose Increments Over Each Time Step		Dose Increment Multipliers Due to Revised X/Qs		Revised Dose Increments Over Each Time Step		Revised Combined Cumulative Offsite Dose		Offsite Dose Summary		
Time (hr)	EAB (rem)	LPZ (rem)	Δ EAB (rem)	Δ LPZ (rem)	Multiplier EAB	Multiplier LPZ	Δ EAB' (rem)	Δ LPZ' (rem)	EAB' (rem)	LPZ' (rem)	Time (hr)	2-h EAB' (rem)	LPZ' (rem)
0.005	0.00E+00	0.000E+00	0.00E+00	0.00E+00	1.059	0.900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005	2.33E+00	0.00E+00
0.01	0.00E+00	0.000E+00	0.00E+00	0.00E+00	1.059	0.900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01	2.34E+00	0.00E+00
0.015	0.00E+00	0.000E+00	0.00E+00	0.00E+00	1.059	0.900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015	2.35E+00	0.00E+00
0.02	0.00E+00	0.000E+00	0.00E+00	0.00E+00	1.059	0.900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.02	2.36E+00	0.00E+00
0.025	0.00E+00	0.000E+00	0.00E+00	0.00E+00	1.059	0.900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.025	2.37E+00	0.00E+00
0.03	0.00E+00	0.000E+00	0.00E+00	0.00E+00	1.059	0.900	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.03	2.38E+00	0.00E+00
0.035	1.63E-05	5.358E-06	1.63E-05	5.36E-06	1.059	0.900	1.72E-05	4.82E-06	1.72E-05	4.82E-06	0.035	2.38E+00	4.82E-06
0.04	2.59E-04	8.546E-05	2.43E-04	8.01E-05	1.059	0.900	2.57E-04	7.21E-05	2.75E-04	7.69E-05	0.04	2.39E+00	7.69E-05
0.045	7.94E-04	2.616E-04	5.35E-04	1.76E-04	1.059	0.900	5.66E-04	1.58E-04	8.41E-04	2.35E-04	0.045	2.40E+00	2.35E-04
0.05	1.62E-03	5.336E-04	8.26E-04	2.72E-04	1.059	0.900	8.74E-04	2.45E-04	1.72E-03	4.80E-04	0.05	2.40E+00	4.80E-04
0.055	2.74E-03	9.015E-04	1.12E-03	3.68E-04	1.059	0.900	1.18E-03	3.31E-04	2.90E-03	8.11E-04	0.055	2.41E+00	8.11E-04
0.06	4.14E-03	1.365E-03	1.41E-03	4.64E-04	1.059	0.900	1.49E-03	4.17E-04	4.39E-03	1.23E-03	0.06	2.41E+00	1.23E-03
0.065	5.84E-03	1.925E-03	1.70E-03	5.60E-04	1.059	0.900	1.80E-03	5.04E-04	6.19E-03	1.73E-03	0.065	2.42E+00	1.73E-03
0.07	7.83E-03	2.580E-03	1.99E-03	6.55E-04	1.059	0.900	2.11E-03	5.90E-04	8.29E-03	2.32E-03	0.07	2.42E+00	2.32E-03
0.075	1.01E-02	3.331E-03	2.28E-03	7.51E-04	1.059	0.900	2.41E-03	6.76E-04	1.07E-02	3.00E-03	0.075	2.42E+00	3.00E-03
0.08	1.27E-02	4.178E-03	2.57E-03	8.47E-04	1.059	0.900	2.72E-03	7.62E-04	1.34E-02	3.76E-03	0.08	2.43E+00	3.76E-03
0.085	1.55E-02	5.120E-03	2.86E-03	9.42E-04	1.059	0.900	3.03E-03	8.48E-04	1.65E-02	4.61E-03	0.085	2.43E+00	4.61E-03
0.09	1.87E-02	6.157E-03	3.15E-03	1.04E-03	1.059	0.900	3.33E-03	9.34E-04	1.98E-02	5.54E-03	0.09	2.43E+00	5.54E-03
0.095	2.21E-02	7.291E-03	3.44E-03	1.13E-03	1.059	0.900	3.64E-03	1.02E-03	2.34E-02	6.56E-03	0.095	2.43E+00	6.56E-03
0.1	2.59E-02	8.519E-03	3.73E-03	1.23E-03	1.059	0.900	3.95E-03	1.11E-03	2.74E-02	7.67E-03	0.1	2.43E+00	7.67E-03
0.105	2.99E-02	9.843E-03	4.02E-03	1.32E-03	1.059	0.900	4.26E-03	1.19E-03	3.16E-02	8.86E-03	0.105	2.43E+00	8.86E-03
0.11	3.42E-02	1.126E-02	4.31E-03	1.42E-03	1.059	0.900	4.56E-03	1.28E-03	3.62E-02	1.01E-02	0.11	2.44E+00	1.01E-02
0.115	3.88E-02	1.278E-02	4.60E-03	1.51E-03	1.059	0.900	4.87E-03	1.36E-03	4.11E-02	1.15E-02	0.115	2.44E+00	1.15E-02
0.12	4.37E-02	1.439E-02	4.89E-03	1.61E-03	1.059	0.900	5.17E-03	1.45E-03	4.62E-02	1.29E-02	0.12	2.44E+00	1.29E-02
0.125	4.88E-02	1.609E-02	5.18E-03	1.70E-03	1.059	0.900	5.48E-03	1.53E-03	5.17E-02	1.45E-02	0.125	2.43E+00	1.45E-02
0.13	5.43E-02	1.789E-02	5.46E-03	1.80E-03	1.059	0.900	5.79E-03	1.62E-03	5.75E-02	1.61E-02	0.13	2.43E+00	1.61E-02
0.135	6.01E-02	1.979E-02	5.75E-03	1.89E-03	1.059	0.900	6.09E-03	1.71E-03	6.36E-02	1.78E-02	0.135	2.43E+00	1.78E-02
0.14	6.61E-02	2.178E-02	6.04E-03	1.99E-03	1.059	0.900	6.40E-03	1.79E-03	7.00E-02	1.96E-02	0.14	2.43E+00	1.96E-02

0.145	7.24E-02	2.386E-02	6.33E-03	2.09E-03	1.059	0.900	6.70E-03	1.88E-03	7.67E-02	2.15E-02	0.145	2.43E+00	2.15E-02
0.15	7.91E-02	2.604E-02	6.62E-03	2.18E-03	1.059	0.900	7.01E-03	1.96E-03	8.37E-02	2.34E-02	0.15	2.43E+00	2.34E-02
0.155	8.60E-02	2.832E-02	6.91E-03	2.28E-03	1.059	0.900	7.31E-03	2.05E-03	9.10E-02	2.55E-02	0.155	2.42E+00	2.55E-02
0.16	9.32E-02	3.069E-02	7.19E-03	2.37E-03	1.059	0.900	7.62E-03	2.13E-03	9.86E-02	2.76E-02	0.16	2.42E+00	2.76E-02
0.165	1.01E-01	3.315E-02	7.48E-03	2.46E-03	1.059	0.900	7.92E-03	2.22E-03	1.07E-01	2.98E-02	0.165	2.42E+00	2.98E-02
0.17	1.05E-01	3.453E-02	4.20E-03	1.38E-03	1.059	0.900	4.44E-03	1.24E-03	1.11E-01	3.11E-02	0.17	2.42E+00	3.11E-02
0.175	1.07E-01	3.517E-02	1.93E-03	6.37E-04	1.059	0.900	2.05E-03	5.73E-04	1.13E-01	3.17E-02	0.175	2.42E+00	3.17E-02
0.18	1.09E-01	3.583E-02	2.00E-03	6.59E-04	1.059	0.900	2.12E-03	5.93E-04	1.15E-01	3.22E-02	0.18	2.42E+00	3.22E-02
0.185	1.11E-01	3.651E-02	2.07E-03	6.82E-04	1.059	0.900	2.19E-03	6.14E-04	1.17E-01	3.29E-02	0.185	2.43E+00	3.29E-02
0.19	1.13E-01	3.721E-02	2.14E-03	7.04E-04	1.059	0.900	2.26E-03	6.33E-04	1.20E-01	3.35E-02	0.19	2.43E+00	3.35E-02
0.195	1.15E-01	3.794E-02	2.21E-03	7.28E-04	1.059	0.900	2.34E-03	6.55E-04	1.22E-01	3.41E-02	0.195	2.43E+00	3.41E-02
0.2	1.17E-01	3.869E-02	2.28E-03	7.50E-04	1.059	0.900	2.41E-03	6.75E-04	1.24E-01	3.48E-02	0.2	2.43E+00	3.48E-02
0.205	1.20E-01	3.946E-02	2.34E-03	7.72E-04	1.059	0.900	2.48E-03	6.95E-04	1.27E-01	3.55E-02	0.205	2.44E+00	3.55E-02
0.21	1.22E-01	4.026E-02	2.41E-03	7.95E-04	1.059	0.900	2.56E-03	7.16E-04	1.29E-01	3.62E-02	0.21	2.44E+00	3.62E-02
0.215	1.25E-01	4.108E-02	2.48E-03	8.17E-04	1.059	0.900	2.63E-03	7.36E-04	1.32E-01	3.70E-02	0.215	2.44E+00	3.70E-02
0.22	1.27E-01	4.192E-02	2.55E-03	8.41E-04	1.059	0.900	2.70E-03	7.57E-04	1.35E-01	3.77E-02	0.22	2.44E+00	3.77E-02
0.225	1.30E-01	4.278E-02	2.62E-03	8.63E-04	1.059	0.900	2.78E-03	7.77E-04	1.38E-01	3.85E-02	0.225	2.44E+00	3.85E-02
0.23	1.33E-01	4.367E-02	2.69E-03	8.86E-04	1.059	0.900	2.85E-03	7.97E-04	1.40E-01	3.93E-02	0.23	2.44E+00	3.93E-02
0.235	1.35E-01	4.457E-02	2.76E-03	9.08E-04	1.059	0.900	2.92E-03	8.17E-04	1.43E-01	4.01E-02	0.235	2.44E+00	4.01E-02
0.24	1.38E-01	4.551E-02	2.83E-03	9.31E-04	1.059	0.900	2.99E-03	8.38E-04	1.46E-01	4.10E-02	0.24	2.45E+00	4.10E-02
0.245	1.41E-01	4.646E-02	2.90E-03	9.55E-04	1.059	0.900	3.07E-03	8.59E-04	1.49E-01	4.18E-02	0.245	2.45E+00	4.18E-02
0.25	1.44E-01	4.744E-02	2.96E-03	9.76E-04	1.059	0.900	3.14E-03	8.78E-04	1.52E-01	4.27E-02	0.25	2.45E+00	4.27E-02
0.255	1.47E-01	4.842E-02	2.99E-03	9.84E-04	1.059	0.900	3.16E-03	8.86E-04	1.56E-01	4.36E-02	0.255	2.45E+00	4.36E-02
0.26	1.50E-01	4.940E-02	2.97E-03	9.78E-04	1.059	0.900	3.14E-03	8.81E-04	1.59E-01	4.45E-02	0.26	2.45E+00	4.45E-02
0.265	1.53E-01	5.037E-02	2.95E-03	9.70E-04	1.059	0.900	3.12E-03	8.73E-04	1.62E-01	4.53E-02	0.265	2.45E+00	4.53E-02
0.27	1.56E-01	5.133E-02	2.93E-03	9.64E-04	1.059	0.900	3.10E-03	8.68E-04	1.65E-01	4.62E-02	0.27	2.45E+00	4.62E-02
0.275	1.59E-01	5.229E-02	2.91E-03	9.59E-04	1.059	0.900	3.08E-03	8.63E-04	1.68E-01	4.71E-02	0.275	2.45E+00	4.71E-02
0.28	1.62E-01	5.324E-02	2.89E-03	9.53E-04	1.059	0.900	3.06E-03	8.57E-04	1.71E-01	4.79E-02	0.28	2.45E+00	4.79E-02
0.285	1.65E-01	5.419E-02	2.87E-03	9.46E-04	1.059	0.900	3.04E-03	8.52E-04	1.74E-01	4.88E-02	0.285	2.45E+00	4.88E-02
0.29	1.67E-01	5.513E-02	2.86E-03	9.41E-04	1.059	0.900	3.03E-03	8.47E-04	1.77E-01	4.96E-02	0.29	2.46E+00	4.96E-02
0.295	1.70E-01	5.607E-02	2.84E-03	9.36E-04	1.059	0.900	3.01E-03	8.42E-04	1.80E-01	5.05E-02	0.295	2.46E+00	5.05E-02
0.3	1.73E-01	5.700E-02	2.83E-03	9.31E-04	1.059	0.900	3.00E-03	8.38E-04	1.83E-01	5.13E-02	0.3	2.46E+00	5.13E-02
0.305	1.76E-01	5.792E-02	2.81E-03	9.25E-04	1.059	0.900	2.97E-03	8.32E-04	1.86E-01	5.21E-02	0.305	2.46E+00	5.21E-02
0.31	1.79E-01	5.885E-02	2.79E-03	9.22E-04	1.059	0.900	2.95E-03	8.30E-04	1.89E-01	5.30E-02	0.31	2.46E+00	5.30E-02

0.315	1.81E-01	5.976E-02	2.79E-03	9.16E-04	1.059	0.900	2.95E-03	8.24E-04	1.92E-01	5.38E-02	0.315	2.46E+00	5.38E-02
0.32	1.84E-01	6.067E-02	2.77E-03	9.12E-04	1.059	0.900	2.93E-03	8.21E-04	1.95E-01	5.46E-02	0.32	2.46E+00	5.46E-02
0.325	1.87E-01	6.158E-02	2.75E-03	9.08E-04	1.059	0.900	2.91E-03	8.17E-04	1.98E-01	5.54E-02	0.325	2.46E+00	5.54E-02
0.33	1.90E-01	6.249E-02	2.74E-03	9.03E-04	1.059	0.900	2.90E-03	8.13E-04	2.01E-01	5.62E-02	0.33	2.46E+00	5.62E-02
0.335	1.92E-01	6.338E-02	2.73E-03	8.99E-04	1.059	0.900	2.89E-03	8.09E-04	2.04E-01	5.70E-02	0.335	2.46E+00	5.70E-02
0.34	1.95E-01	6.428E-02	2.72E-03	8.95E-04	1.059	0.900	2.89E-03	8.05E-04	2.07E-01	5.79E-02	0.34	2.46E+00	5.79E-02
0.345	1.98E-01	6.517E-02	2.70E-03	8.92E-04	1.059	0.900	2.86E-03	8.03E-04	2.09E-01	5.87E-02	0.345	2.47E+00	5.87E-02
0.35	2.01E-01	6.606E-02	2.70E-03	8.89E-04	1.059	0.900	2.86E-03	8.00E-04	2.12E-01	5.95E-02	0.35	2.47E+00	5.95E-02
0.355	2.03E-01	6.694E-02	2.68E-03	8.85E-04	1.059	0.900	2.84E-03	7.96E-04	2.15E-01	6.03E-02	0.355	2.47E+00	6.03E-02
0.36	2.06E-01	6.783E-02	2.68E-03	8.81E-04	1.059	0.900	2.84E-03	7.93E-04	2.18E-01	6.10E-02	0.36	2.47E+00	6.10E-02
0.365	2.09E-01	6.870E-02	2.67E-03	8.77E-04	1.059	0.900	2.82E-03	7.89E-04	2.21E-01	6.18E-02	0.365	2.47E+00	6.18E-02
0.37	2.11E-01	6.958E-02	2.65E-03	8.76E-04	1.059	0.900	2.80E-03	7.89E-04	2.24E-01	6.26E-02	0.37	2.47E+00	6.26E-02
0.375	2.14E-01	7.045E-02	2.65E-03	8.71E-04	1.059	0.900	2.81E-03	7.84E-04	2.26E-01	6.34E-02	0.375	2.47E+00	6.34E-02
0.38	2.17E-01	7.132E-02	2.64E-03	8.69E-04	1.059	0.900	2.79E-03	7.82E-04	2.29E-01	6.42E-02	0.38	2.47E+00	6.42E-02
0.385	2.19E-01	7.219E-02	2.63E-03	8.67E-04	1.059	0.900	2.78E-03	7.80E-04	2.32E-01	6.50E-02	0.385	2.47E+00	6.50E-02
0.39	2.22E-01	7.305E-02	2.63E-03	8.64E-04	1.059	0.900	2.78E-03	7.77E-04	2.35E-01	6.57E-02	0.39	2.47E+00	6.57E-02
0.395	2.24E-01	7.391E-02	2.61E-03	8.61E-04	1.059	0.900	2.76E-03	7.75E-04	2.38E-01	6.65E-02	0.395	2.47E+00	6.65E-02
0.4	2.27E-01	7.477E-02	2.60E-03	8.59E-04	1.059	0.900	2.76E-03	7.73E-04	2.40E-01	6.73E-02	0.4	2.47E+00	6.73E-02
0.405	2.30E-01	7.562E-02	2.60E-03	8.55E-04	1.059	0.900	2.75E-03	7.70E-04	2.43E-01	6.81E-02	0.405	2.48E+00	6.81E-02
0.41	2.32E-01	7.648E-02	2.59E-03	8.54E-04	1.059	0.900	2.75E-03	7.69E-04	2.46E-01	6.88E-02	0.41	2.48E+00	6.88E-02
0.415	2.35E-01	7.733E-02	2.58E-03	8.52E-04	1.059	0.900	2.73E-03	7.67E-04	2.49E-01	6.96E-02	0.415	2.48E+00	6.96E-02
0.42	2.37E-01	7.818E-02	2.58E-03	8.49E-04	1.059	0.900	2.74E-03	7.64E-04	2.51E-01	7.04E-02	0.42	2.48E+00	7.04E-02
0.425	2.40E-01	7.903E-02	2.57E-03	8.49E-04	1.059	0.900	2.72E-03	7.64E-04	2.54E-01	7.11E-02	0.425	2.48E+00	7.11E-02
0.43	2.42E-01	7.987E-02	2.57E-03	8.45E-04	1.059	0.900	2.72E-03	7.60E-04	2.57E-01	7.19E-02	0.43	2.48E+00	7.19E-02
0.435	2.45E-01	8.072E-02	2.56E-03	8.44E-04	1.059	0.900	2.71E-03	7.60E-04	2.59E-01	7.26E-02	0.435	2.48E+00	7.26E-02
0.44	2.48E-01	8.156E-02	2.55E-03	8.41E-04	1.059	0.900	2.70E-03	7.57E-04	2.62E-01	7.34E-02	0.44	2.48E+00	7.34E-02
0.445	2.50E-01	8.240E-02	2.56E-03	8.40E-04	1.059	0.900	2.71E-03	7.56E-04	2.65E-01	7.42E-02	0.445	2.48E+00	7.42E-02
0.45	2.53E-01	8.324E-02	2.54E-03	8.39E-04	1.059	0.900	2.69E-03	7.55E-04	2.68E-01	7.49E-02	0.45	2.48E+00	7.49E-02
0.455	2.55E-01	8.407E-02	2.54E-03	8.36E-04	1.059	0.900	2.69E-03	7.53E-04	2.70E-01	7.57E-02	0.455	2.48E+00	7.57E-02
0.46	2.58E-01	8.491E-02	2.54E-03	8.36E-04	1.059	0.900	2.69E-03	7.52E-04	2.73E-01	7.64E-02	0.46	2.48E+00	7.64E-02
0.465	2.60E-01	8.574E-02	2.53E-03	8.33E-04	1.059	0.900	2.68E-03	7.49E-04	2.76E-01	7.72E-02	0.465	2.48E+00	7.72E-02
0.47	2.63E-01	8.658E-02	2.52E-03	8.34E-04	1.059	0.900	2.67E-03	7.50E-04	2.78E-01	7.79E-02	0.47	2.48E+00	7.79E-02
0.475	2.65E-01	8.741E-02	2.53E-03	8.32E-04	1.059	0.900	2.68E-03	7.49E-04	2.81E-01	7.87E-02	0.475	2.49E+00	7.87E-02
0.48	2.68E-01	8.824E-02	2.52E-03	8.29E-04	1.059	0.900	2.66E-03	7.46E-04	2.84E-01	7.94E-02	0.48	2.49E+00	7.94E-02

0.485	2.70E-01	8.907E-02	2.51E-03	8.28E-04	1.059	0.900	2.66E-03	7.45E-04	2.86E-01	8.02E-02	0.485	2.49E+00	8.02E-02
0.49	2.73E-01	8.989E-02	2.51E-03	8.27E-04	1.059	0.900	2.66E-03	7.45E-04	2.89E-01	8.09E-02	0.49	2.49E+00	8.09E-02
0.495	2.75E-01	9.072E-02	2.51E-03	8.27E-04	1.059	0.900	2.66E-03	7.44E-04	2.92E-01	8.16E-02	0.495	2.49E+00	8.16E-02
0.5	2.78E-01	9.155E-02	2.51E-03	8.26E-04	1.059	0.900	2.65E-03	7.43E-04	2.94E-01	8.24E-02	0.5	2.49E+00	8.24E-02
0.505	2.80E-01	9.237E-02	2.50E-03	8.25E-04	1.059	0.900	2.65E-03	7.42E-04	2.97E-01	8.31E-02	0.505	2.49E+00	8.31E-02
0.51	2.83E-01	9.319E-02	2.50E-03	8.22E-04	1.059	0.900	2.65E-03	7.40E-04	3.00E-01	8.39E-02	0.51	2.49E+00	8.39E-02
0.515	2.85E-01	9.402E-02	2.49E-03	8.23E-04	1.059	0.900	2.64E-03	7.41E-04	3.02E-01	8.46E-02	0.515	2.49E+00	8.46E-02
0.52	2.88E-01	9.484E-02	2.50E-03	8.21E-04	1.059	0.900	2.65E-03	7.39E-04	3.05E-01	8.54E-02	0.52	2.49E+00	8.54E-02
0.525	2.90E-01	9.566E-02	2.49E-03	8.21E-04	1.059	0.900	2.63E-03	7.39E-04	3.07E-01	8.61E-02	0.525	2.49E+00	8.61E-02
0.53	2.93E-01	9.648E-02	2.49E-03	8.20E-04	1.059	0.900	2.63E-03	7.38E-04	3.10E-01	8.68E-02	0.53	2.49E+00	8.68E-02
0.535	2.95E-01	9.730E-02	2.49E-03	8.20E-04	1.059	0.900	2.63E-03	7.38E-04	3.13E-01	8.76E-02	0.535	2.49E+00	8.76E-02
0.54	2.98E-01	9.813E-02	2.53E-03	8.34E-04	1.059	0.900	2.68E-03	7.50E-04	3.15E-01	8.83E-02	0.54	2.50E+00	8.83E-02
0.545	3.01E-01	9.900E-02	2.63E-03	8.67E-04	1.059	0.900	2.79E-03	7.80E-04	3.18E-01	8.91E-02	0.545	2.50E+00	8.91E-02
0.55	3.03E-01	9.990E-02	2.72E-03	8.96E-04	1.059	0.900	2.88E-03	8.07E-04	3.21E-01	8.99E-02	0.55	2.50E+00	8.99E-02
0.555	3.06E-01	1.008E-01	2.82E-03	9.26E-04	1.059	0.900	2.98E-03	8.34E-04	3.24E-01	9.07E-02	0.555	2.50E+00	9.07E-02
0.56	3.09E-01	1.018E-01	2.89E-03	9.54E-04	1.059	0.900	3.07E-03	8.59E-04	3.27E-01	9.16E-02	0.56	2.50E+00	9.16E-02
0.565	3.12E-01	1.028E-01	2.98E-03	9.83E-04	1.059	0.900	3.16E-03	8.84E-04	3.30E-01	9.25E-02	0.565	2.50E+00	9.25E-02
0.57	3.15E-01	1.038E-01	3.06E-03	1.01E-03	1.059	0.900	3.24E-03	9.09E-04	3.34E-01	9.34E-02	0.57	2.50E+00	9.34E-02
0.575	3.18E-01	1.048E-01	3.15E-03	1.04E-03	1.059	0.900	3.33E-03	9.33E-04	3.37E-01	9.43E-02	0.575	2.50E+00	9.43E-02
0.58	3.21E-01	1.059E-01	3.23E-03	1.06E-03	1.059	0.900	3.41E-03	9.56E-04	3.40E-01	9.53E-02	0.58	2.50E+00	9.53E-02
0.585	3.25E-01	1.070E-01	3.31E-03	1.09E-03	1.059	0.900	3.51E-03	9.79E-04	3.44E-01	9.63E-02	0.585	2.50E+00	9.63E-02
0.59	3.28E-01	1.081E-01	3.37E-03	1.11E-03	1.059	0.900	3.56E-03	1.00E-03	3.47E-01	9.73E-02	0.59	2.50E+00	9.73E-02
0.595	3.32E-01	1.092E-01	3.45E-03	1.14E-03	1.059	0.900	3.65E-03	1.02E-03	3.51E-01	9.83E-02	0.595	2.50E+00	9.83E-02
0.6	3.35E-01	1.104E-01	3.51E-03	1.16E-03	1.059	0.900	3.72E-03	1.04E-03	3.55E-01	9.93E-02	0.6	2.50E+00	9.93E-02
0.605	3.39E-01	1.115E-01	3.60E-03	1.18E-03	1.059	0.900	3.81E-03	1.06E-03	3.59E-01	1.00E-01	0.605	2.50E+00	1.00E-01
0.61	3.42E-01	1.127E-01	3.65E-03	1.20E-03	1.059	0.900	3.87E-03	1.08E-03	3.62E-01	1.01E-01	0.61	2.50E+00	1.01E-01
0.615	3.46E-01	1.140E-01	3.72E-03	1.23E-03	1.059	0.900	3.93E-03	1.10E-03	3.66E-01	1.03E-01	0.615	2.50E+00	1.03E-01
0.62	3.50E-01	1.152E-01	3.78E-03	1.25E-03	1.059	0.900	4.00E-03	1.12E-03	3.70E-01	1.04E-01	0.62	2.49E+00	1.04E-01
0.625	3.54E-01	1.165E-01	3.85E-03	1.27E-03	1.059	0.900	4.08E-03	1.14E-03	3.74E-01	1.05E-01	0.625	2.49E+00	1.05E-01
0.63	3.58E-01	1.178E-01	3.91E-03	1.29E-03	1.059	0.900	4.14E-03	1.16E-03	3.79E-01	1.06E-01	0.63	2.49E+00	1.06E-01
0.635	3.61E-01	1.191E-01	3.96E-03	1.31E-03	1.059	0.900	4.20E-03	1.18E-03	3.83E-01	1.07E-01	0.635	2.49E+00	1.07E-01
0.64	3.66E-01	1.204E-01	4.01E-03	1.32E-03	1.059	0.900	4.25E-03	1.19E-03	3.87E-01	1.08E-01	0.64	2.49E+00	1.08E-01
0.645	3.70E-01	1.217E-01	4.08E-03	1.34E-03	1.059	0.900	4.32E-03	1.21E-03	3.91E-01	1.10E-01	0.645	2.49E+00	1.10E-01
0.65	3.74E-01	1.231E-01	4.13E-03	1.36E-03	1.059	0.900	4.38E-03	1.22E-03	3.96E-01	1.11E-01	0.65	2.49E+00	1.11E-01

0.655	3.78E-01	1.245E-01	4.19E-03	1.38E-03	1.059	0.900	4.44E-03	1.24E-03	4.00E-01	1.12E-01	0.655	2.49E+00	1.12E-01
0.66	3.82E-01	1.259E-01	4.23E-03	1.40E-03	1.059	0.900	4.48E-03	1.26E-03	4.05E-01	1.13E-01	0.66	2.49E+00	1.13E-01
0.665	3.86E-01	1.273E-01	4.29E-03	1.41E-03	1.059	0.900	4.54E-03	1.27E-03	4.09E-01	1.15E-01	0.665	2.49E+00	1.15E-01
0.67	3.91E-01	1.287E-01	4.33E-03	1.43E-03	1.059	0.900	4.58E-03	1.29E-03	4.14E-01	1.16E-01	0.67	2.48E+00	1.16E-01
0.675	3.95E-01	1.302E-01	4.39E-03	1.45E-03	1.059	0.900	4.65E-03	1.30E-03	4.18E-01	1.17E-01	0.675	2.48E+00	1.17E-01
0.68	4.00E-01	1.316E-01	4.43E-03	1.46E-03	1.059	0.900	4.70E-03	1.31E-03	4.23E-01	1.18E-01	0.68	2.48E+00	1.18E-01
0.685	4.04E-01	1.331E-01	4.48E-03	1.48E-03	1.059	0.900	4.75E-03	1.33E-03	4.28E-01	1.20E-01	0.685	2.48E+00	1.20E-01
0.69	4.09E-01	1.346E-01	4.52E-03	1.49E-03	1.059	0.900	4.79E-03	1.34E-03	4.33E-01	1.21E-01	0.69	2.48E+00	1.21E-01
0.695	4.13E-01	1.361E-01	4.58E-03	1.50E-03	1.059	0.900	4.85E-03	1.35E-03	4.37E-01	1.22E-01	0.695	2.48E+00	1.22E-01
0.7	4.18E-01	1.376E-01	4.61E-03	1.52E-03	1.059	0.900	4.88E-03	1.37E-03	4.42E-01	1.24E-01	0.7	2.48E+00	1.24E-01
0.705	4.22E-01	1.392E-01	4.65E-03	1.53E-03	1.059	0.900	4.93E-03	1.38E-03	4.47E-01	1.25E-01	0.705	2.47E+00	1.25E-01
0.71	4.27E-01	1.407E-01	4.68E-03	1.55E-03	1.059	0.900	4.96E-03	1.39E-03	4.52E-01	1.27E-01	0.71	2.47E+00	1.27E-01
0.715	4.32E-01	1.423E-01	4.75E-03	1.56E-03	1.059	0.900	5.02E-03	1.40E-03	4.57E-01	1.28E-01	0.715	2.47E+00	1.28E-01
0.72	4.37E-01	1.438E-01	4.77E-03	1.57E-03	1.059	0.900	5.05E-03	1.42E-03	4.62E-01	1.29E-01	0.72	2.47E+00	1.29E-01
0.725	4.41E-01	1.454E-01	4.82E-03	1.59E-03	1.059	0.900	5.10E-03	1.43E-03	4.67E-01	1.31E-01	0.725	2.47E+00	1.31E-01
0.73	4.46E-01	1.470E-01	4.85E-03	1.60E-03	1.059	0.900	5.13E-03	1.44E-03	4.73E-01	1.32E-01	0.73	2.47E+00	1.32E-01
0.735	4.51E-01	1.486E-01	4.88E-03	1.61E-03	1.059	0.900	5.17E-03	1.45E-03	4.78E-01	1.34E-01	0.735	2.46E+00	1.34E-01
0.74	4.56E-01	1.503E-01	4.93E-03	1.62E-03	1.059	0.900	5.22E-03	1.46E-03	4.83E-01	1.35E-01	0.74	2.46E+00	1.35E-01
0.745	4.61E-01	1.519E-01	4.95E-03	1.63E-03	1.059	0.900	5.24E-03	1.47E-03	4.88E-01	1.37E-01	0.745	2.46E+00	1.37E-01
0.75	4.66E-01	1.535E-01	5.00E-03	1.64E-03	1.059	0.900	5.30E-03	1.48E-03	4.93E-01	1.38E-01	0.75	2.46E+00	1.38E-01
0.755	4.71E-01	1.552E-01	5.02E-03	1.66E-03	1.059	0.900	5.31E-03	1.49E-03	4.99E-01	1.40E-01	0.755	2.46E+00	1.40E-01
0.76	4.76E-01	1.569E-01	5.06E-03	1.67E-03	1.059	0.900	5.35E-03	1.50E-03	5.04E-01	1.41E-01	0.76	2.45E+00	1.41E-01
0.765	4.81E-01	1.585E-01	5.10E-03	1.68E-03	1.059	0.900	5.40E-03	1.51E-03	5.10E-01	1.43E-01	0.765	2.45E+00	1.43E-01
0.77	4.86E-01	1.602E-01	5.13E-03	1.69E-03	1.059	0.900	5.43E-03	1.52E-03	5.15E-01	1.44E-01	0.77	2.45E+00	1.44E-01
0.775	4.92E-01	1.619E-01	5.15E-03	1.70E-03	1.059	0.900	5.45E-03	1.53E-03	5.20E-01	1.46E-01	0.775	2.45E+00	1.46E-01
0.78	4.97E-01	1.636E-01	5.18E-03	1.71E-03	1.059	0.900	5.49E-03	1.54E-03	5.26E-01	1.47E-01	0.78	2.45E+00	1.47E-01
0.785	5.02E-01	1.653E-01	5.21E-03	1.72E-03	1.059	0.900	5.52E-03	1.55E-03	5.31E-01	1.49E-01	0.785	2.44E+00	1.49E-01
0.79	5.07E-01	1.671E-01	5.23E-03	1.73E-03	1.059	0.900	5.54E-03	1.56E-03	5.37E-01	1.50E-01	0.79	2.44E+00	1.50E-01
0.795	5.12E-01	1.688E-01	5.29E-03	1.74E-03	1.059	0.900	5.60E-03	1.56E-03	5.43E-01	1.52E-01	0.795	2.44E+00	1.52E-01
0.8	5.18E-01	1.705E-01	5.29E-03	1.75E-03	1.059	0.900	5.60E-03	1.57E-03	5.48E-01	1.53E-01	0.8	2.44E+00	1.53E-01
0.805	5.23E-01	1.723E-01	5.34E-03	1.75E-03	1.059	0.900	5.65E-03	1.58E-03	5.54E-01	1.55E-01	0.805	2.43E+00	1.55E-01
0.81	5.28E-01	1.741E-01	5.34E-03	1.76E-03	1.059	0.900	5.65E-03	1.59E-03	5.59E-01	1.57E-01	0.81	2.43E+00	1.57E-01
0.815	5.34E-01	1.758E-01	5.39E-03	1.77E-03	1.059	0.900	5.71E-03	1.60E-03	5.65E-01	1.58E-01	0.815	2.43E+00	1.58E-01
0.82	5.39E-01	1.776E-01	5.41E-03	1.78E-03	1.059	0.900	5.73E-03	1.60E-03	5.71E-01	1.60E-01	0.82	2.43E+00	1.60E-01

0.825	5.45E-01	1.794E-01	5.43E-03	1.79E-03	1.059	0.900	5.74E-03	1.61E-03	5.77E-01	1.61E-01	0.825	2.43E+00	1.61E-01
0.83	5.50E-01	1.812E-01	5.47E-03	1.80E-03	1.059	0.900	5.79E-03	1.62E-03	5.82E-01	1.63E-01	0.83	2.42E+00	1.63E-01
0.835	5.56E-01	1.830E-01	5.48E-03	1.81E-03	1.059	0.900	5.80E-03	1.62E-03	5.88E-01	1.65E-01	0.835	2.42E+00	1.65E-01
0.84	5.61E-01	1.848E-01	5.51E-03	1.82E-03	1.059	0.900	5.83E-03	1.63E-03	5.94E-01	1.66E-01	0.84	2.42E+00	1.66E-01
0.845	5.67E-01	1.867E-01	5.52E-03	1.82E-03	1.059	0.900	5.85E-03	1.64E-03	6.00E-01	1.68E-01	0.845	2.42E+00	1.68E-01
0.85	5.72E-01	1.885E-01	5.56E-03	1.83E-03	1.059	0.900	5.89E-03	1.65E-03	6.06E-01	1.70E-01	0.85	2.41E+00	1.70E-01
0.855	5.78E-01	1.903E-01	5.56E-03	1.84E-03	1.059	0.900	5.89E-03	1.65E-03	6.12E-01	1.71E-01	0.855	2.41E+00	1.71E-01
0.86	5.83E-01	1.922E-01	5.61E-03	1.85E-03	1.059	0.900	5.94E-03	1.66E-03	6.18E-01	1.73E-01	0.86	2.41E+00	1.73E-01
0.865	5.89E-01	1.940E-01	5.62E-03	1.85E-03	1.059	0.900	5.95E-03	1.67E-03	6.24E-01	1.75E-01	0.865	2.40E+00	1.75E-01
0.87	5.95E-01	1.959E-01	5.65E-03	1.86E-03	1.059	0.900	5.98E-03	1.67E-03	6.30E-01	1.76E-01	0.87	2.40E+00	1.76E-01
0.875	6.00E-01	1.977E-01	5.66E-03	1.87E-03	1.059	0.900	5.99E-03	1.68E-03	6.36E-01	1.78E-01	0.875	2.40E+00	1.78E-01
0.88	6.06E-01	1.996E-01	5.68E-03	1.87E-03	1.059	0.900	6.02E-03	1.69E-03	6.42E-01	1.80E-01	0.88	2.40E+00	1.80E-01
0.885	6.12E-01	2.015E-01	5.71E-03	1.88E-03	1.059	0.900	6.05E-03	1.69E-03	6.48E-01	1.81E-01	0.885	2.39E+00	1.81E-01
0.89	6.17E-01	2.034E-01	5.73E-03	1.89E-03	1.059	0.900	6.06E-03	1.70E-03	6.54E-01	1.83E-01	0.89	2.39E+00	1.83E-01
0.895	6.23E-01	2.053E-01	5.75E-03	1.89E-03	1.059	0.900	6.09E-03	1.70E-03	6.60E-01	1.85E-01	0.895	2.39E+00	1.85E-01
0.9	6.29E-01	2.072E-01	5.77E-03	1.90E-03	1.059	0.900	6.11E-03	1.71E-03	6.66E-01	1.86E-01	0.9	2.39E+00	1.86E-01
0.905	6.35E-01	2.091E-01	5.79E-03	1.91E-03	1.059	0.900	6.13E-03	1.72E-03	6.72E-01	1.88E-01	0.905	2.38E+00	1.88E-01
0.91	6.41E-01	2.110E-01	5.80E-03	1.91E-03	1.059	0.900	6.14E-03	1.72E-03	6.78E-01	1.90E-01	0.91	2.38E+00	1.90E-01
0.915	6.46E-01	2.129E-01	5.82E-03	1.92E-03	1.059	0.900	6.17E-03	1.73E-03	6.84E-01	1.92E-01	0.915	2.38E+00	1.92E-01
0.92	6.52E-01	2.148E-01	5.86E-03	1.93E-03	1.059	0.900	6.20E-03	1.73E-03	6.91E-01	1.93E-01	0.92	2.37E+00	1.93E-01
0.925	6.58E-01	2.168E-01	5.86E-03	1.93E-03	1.059	0.900	6.20E-03	1.74E-03	6.97E-01	1.95E-01	0.925	2.37E+00	1.95E-01
0.93	6.64E-01	2.187E-01	5.89E-03	1.94E-03	1.059	0.900	6.24E-03	1.74E-03	7.03E-01	1.97E-01	0.93	2.37E+00	1.97E-01
0.935	6.70E-01	2.207E-01	5.90E-03	1.94E-03	1.059	0.900	6.25E-03	1.75E-03	7.09E-01	1.99E-01	0.935	2.37E+00	1.99E-01
0.94	6.76E-01	2.226E-01	5.90E-03	1.95E-03	1.059	0.900	6.25E-03	1.75E-03	7.15E-01	2.00E-01	0.94	2.36E+00	2.00E-01
0.945	6.82E-01	2.246E-01	5.95E-03	1.96E-03	1.059	0.900	6.29E-03	1.76E-03	7.22E-01	2.02E-01	0.945	2.36E+00	2.02E-01
0.95	6.88E-01	2.265E-01	5.95E-03	1.96E-03	1.059	0.900	6.30E-03	1.77E-03	7.28E-01	2.04E-01	0.95	2.36E+00	2.04E-01
0.955	6.94E-01	2.285E-01	5.98E-03	1.97E-03	1.059	0.900	6.33E-03	1.77E-03	7.34E-01	2.06E-01	0.955	2.35E+00	2.06E-01
0.96	7.00E-01	2.305E-01	5.98E-03	1.97E-03	1.059	0.900	6.33E-03	1.77E-03	7.41E-01	2.07E-01	0.96	2.35E+00	2.07E-01
0.965	7.06E-01	2.324E-01	6.00E-03	1.98E-03	1.059	0.900	6.36E-03	1.78E-03	7.47E-01	2.09E-01	0.965	2.35E+00	2.09E-01
0.97	7.12E-01	2.344E-01	6.02E-03	1.98E-03	1.059	0.900	6.38E-03	1.79E-03	7.53E-01	2.11E-01	0.97	2.34E+00	2.11E-01
0.975	7.18E-01	2.364E-01	6.04E-03	1.99E-03	1.059	0.900	6.39E-03	1.79E-03	7.60E-01	2.13E-01	0.975	2.34E+00	2.13E-01
0.98	7.24E-01	2.384E-01	6.06E-03	1.99E-03	1.059	0.900	6.41E-03	1.80E-03	7.66E-01	2.15E-01	0.98	2.34E+00	2.15E-01
0.985	7.30E-01	2.404E-01	6.06E-03	2.00E-03	1.059	0.900	6.42E-03	1.80E-03	7.73E-01	2.16E-01	0.985	2.33E+00	2.16E-01
0.99	7.36E-01	2.424E-01	6.09E-03	2.00E-03	1.059	0.900	6.45E-03	1.80E-03	7.79E-01	2.18E-01	0.99	2.33E+00	2.18E-01

0.995	7.42E-01	2.444E-01	6.09E-03	2.01E-03	1.059	0.900	6.45E-03	1.81E-03	7.86E-01	2.20E-01	0.995	2.33E+00	2.20E-01
1	7.48E-01	2.464E-01	6.12E-03	2.01E-03	1.059	0.900	6.48E-03	1.81E-03	7.92E-01	2.22E-01	1	2.33E+00	2.22E-01
1.005	7.54E-01	2.484E-01	6.13E-03	2.02E-03	1.059	0.900	6.49E-03	1.82E-03	7.99E-01	2.24E-01	1.005	2.32E+00	2.24E-01
1.01	7.60E-01	2.505E-01	6.16E-03	2.02E-03	1.059	0.900	6.52E-03	1.82E-03	8.05E-01	2.25E-01	1.01	2.32E+00	2.25E-01
1.015	7.67E-01	2.525E-01	6.15E-03	2.03E-03	1.059	0.900	6.51E-03	1.83E-03	8.12E-01	2.27E-01	1.015	2.32E+00	2.27E-01
1.02	7.73E-01	2.545E-01	6.18E-03	2.03E-03	1.059	0.900	6.55E-03	1.83E-03	8.18E-01	2.29E-01	1.02	2.31E+00	2.29E-01
1.025	7.79E-01	2.566E-01	6.19E-03	2.04E-03	1.059	0.900	6.55E-03	1.84E-03	8.25E-01	2.31E-01	1.025	2.31E+00	2.31E-01
1.03	7.85E-01	2.586E-01	6.20E-03	2.04E-03	1.059	0.900	6.56E-03	1.84E-03	8.31E-01	2.33E-01	1.03	2.31E+00	2.33E-01
1.035	7.91E-01	2.607E-01	6.23E-03	2.05E-03	1.059	0.900	6.60E-03	1.84E-03	8.38E-01	2.35E-01	1.035	2.30E+00	2.35E-01
1.04	7.98E-01	2.627E-01	6.22E-03	2.06E-03	1.059	0.900	6.59E-03	1.85E-03	8.44E-01	2.36E-01	1.04	2.30E+00	2.36E-01
1.045	8.04E-01	2.648E-01	6.25E-03	2.05E-03	1.059	0.900	6.62E-03	1.85E-03	8.51E-01	2.38E-01	1.045	2.30E+00	2.38E-01
1.05	8.10E-01	2.668E-01	6.27E-03	2.06E-03	1.059	0.900	6.63E-03	1.86E-03	8.58E-01	2.40E-01	1.05	2.29E+00	2.40E-01
1.055	8.16E-01	2.689E-01	6.28E-03	2.07E-03	1.059	0.900	6.65E-03	1.86E-03	8.64E-01	2.42E-01	1.055	2.29E+00	2.42E-01
1.06	8.23E-01	2.710E-01	6.29E-03	2.07E-03	1.059	0.900	6.66E-03	1.86E-03	8.71E-01	2.44E-01	1.06	2.29E+00	2.44E-01
1.065	8.29E-01	2.731E-01	6.31E-03	2.08E-03	1.059	0.900	6.68E-03	1.87E-03	8.78E-01	2.46E-01	1.065	2.28E+00	2.46E-01
1.07	8.35E-01	2.751E-01	6.30E-03	2.09E-03	1.059	0.900	6.68E-03	1.88E-03	8.84E-01	2.48E-01	1.07	2.28E+00	2.48E-01
1.075	8.42E-01	2.772E-01	6.33E-03	2.08E-03	1.059	0.900	6.70E-03	1.87E-03	8.91E-01	2.50E-01	1.075	2.27E+00	2.50E-01
1.08	8.48E-01	2.793E-01	6.36E-03	2.09E-03	1.059	0.900	6.73E-03	1.88E-03	8.98E-01	2.51E-01	1.08	2.27E+00	2.51E-01
1.085	8.54E-01	2.814E-01	6.34E-03	2.10E-03	1.059	0.900	6.71E-03	1.89E-03	9.05E-01	2.53E-01	1.085	2.27E+00	2.53E-01
1.09	8.61E-01	2.835E-01	6.37E-03	2.09E-03	1.059	0.900	6.75E-03	1.88E-03	9.11E-01	2.55E-01	1.09	2.26E+00	2.55E-01
1.095	8.67E-01	2.856E-01	6.39E-03	2.11E-03	1.059	0.900	6.76E-03	1.90E-03	9.18E-01	2.57E-01	1.095	2.26E+00	2.57E-01
1.1	8.73E-01	2.877E-01	6.41E-03	2.11E-03	1.059	0.900	6.78E-03	1.90E-03	9.25E-01	2.59E-01	1.1	2.26E+00	2.59E-01
1.105	8.80E-01	2.898E-01	6.40E-03	2.11E-03	1.059	0.900	6.78E-03	1.90E-03	9.32E-01	2.61E-01	1.105	2.25E+00	2.61E-01
1.11	8.86E-01	2.919E-01	6.42E-03	2.12E-03	1.059	0.900	6.80E-03	1.90E-03	9.38E-01	2.63E-01	1.11	2.25E+00	2.63E-01
1.115	8.93E-01	2.941E-01	6.44E-03	2.12E-03	1.059	0.900	6.82E-03	1.91E-03	9.45E-01	2.65E-01	1.115	2.25E+00	2.65E-01
1.12	8.99E-01	2.962E-01	6.45E-03	2.12E-03	1.059	0.900	6.83E-03	1.91E-03	9.52E-01	2.67E-01	1.12	2.24E+00	2.67E-01
1.125	9.06E-01	2.983E-01	6.46E-03	2.12E-03	1.059	0.900	6.84E-03	1.91E-03	9.59E-01	2.68E-01	1.125	2.24E+00	2.68E-01
1.13	9.12E-01	3.005E-01	6.47E-03	2.14E-03	1.059	0.900	6.85E-03	1.93E-03	9.66E-01	2.70E-01	1.13	2.24E+00	2.70E-01
1.135	9.19E-01	3.026E-01	6.49E-03	2.13E-03	1.059	0.900	6.87E-03	1.92E-03	9.73E-01	2.72E-01	1.135	2.23E+00	2.72E-01
1.14	9.25E-01	3.047E-01	6.50E-03	2.15E-03	1.059	0.900	6.88E-03	1.93E-03	9.79E-01	2.74E-01	1.14	2.23E+00	2.74E-01
1.145	9.32E-01	3.069E-01	6.51E-03	2.14E-03	1.059	0.900	6.89E-03	1.92E-03	9.86E-01	2.76E-01	1.145	2.22E+00	2.76E-01
1.15	9.38E-01	3.090E-01	6.52E-03	2.15E-03	1.059	0.900	6.90E-03	1.94E-03	9.93E-01	2.78E-01	1.15	2.22E+00	2.78E-01
1.155	9.45E-01	3.112E-01	6.54E-03	2.15E-03	1.059	0.900	6.93E-03	1.94E-03	1.00E+00	2.80E-01	1.155	2.22E+00	2.80E-01
1.16	9.51E-01	3.133E-01	6.54E-03	2.16E-03	1.059	0.900	6.93E-03	1.94E-03	1.01E+00	2.82E-01	1.16	2.21E+00	2.82E-01

1.165	9.58E-01	3.155E-01	6.56E-03	2.16E-03	1.059	0.900	6.94E-03	1.95E-03	1.01E+00	2.84E-01	1.165	2.21E+00	2.84E-01
1.17	9.64E-01	3.177E-01	6.57E-03	2.16E-03	1.059	0.900	6.96E-03	1.95E-03	1.02E+00	2.86E-01	1.17	2.21E+00	2.86E-01
1.175	9.71E-01	3.198E-01	6.59E-03	2.17E-03	1.059	0.900	6.98E-03	1.95E-03	1.03E+00	2.88E-01	1.175	2.20E+00	2.88E-01
1.18	9.77E-01	3.220E-01	6.58E-03	2.17E-03	1.059	0.900	6.97E-03	1.95E-03	1.03E+00	2.90E-01	1.18	2.20E+00	2.90E-01
1.185	9.84E-01	3.242E-01	6.61E-03	2.17E-03	1.059	0.900	6.99E-03	1.96E-03	1.04E+00	2.92E-01	1.185	2.20E+00	2.92E-01
1.19	9.91E-01	3.264E-01	6.62E-03	2.19E-03	1.059	0.900	7.01E-03	1.97E-03	1.05E+00	2.94E-01	1.19	2.19E+00	2.94E-01
1.195	9.97E-01	3.285E-01	6.63E-03	2.18E-03	1.059	0.900	7.02E-03	1.96E-03	1.06E+00	2.96E-01	1.195	2.19E+00	2.96E-01
1.2	1.00E+00	3.307E-01	6.64E-03	2.19E-03	1.059	0.900	7.03E-03	1.97E-03	1.06E+00	2.98E-01	1.2	2.18E+00	2.98E-01
1.205	1.01E+00	3.329E-01	6.65E-03	2.19E-03	1.059	0.900	7.05E-03	1.97E-03	1.07E+00	3.00E-01	1.205	2.18E+00	3.00E-01
1.21	1.02E+00	3.351E-01	6.65E-03	2.19E-03	1.059	0.900	7.04E-03	1.97E-03	1.08E+00	3.02E-01	1.21	2.18E+00	3.02E-01
1.215	1.02E+00	3.373E-01	6.69E-03	2.19E-03	1.059	0.900	7.08E-03	1.97E-03	1.08E+00	3.04E-01	1.215	2.17E+00	3.04E-01
1.22	1.03E+00	3.395E-01	6.68E-03	2.21E-03	1.059	0.900	7.07E-03	1.99E-03	1.09E+00	3.06E-01	1.22	2.17E+00	3.06E-01
1.225	1.04E+00	3.417E-01	6.70E-03	2.21E-03	1.059	0.900	7.10E-03	1.99E-03	1.10E+00	3.08E-01	1.225	2.16E+00	3.08E-01
1.23	1.04E+00	3.439E-01	6.70E-03	2.21E-03	1.059	0.900	7.09E-03	1.99E-03	1.11E+00	3.10E-01	1.23	2.16E+00	3.10E-01
1.235	1.05E+00	3.461E-01	6.71E-03	2.20E-03	1.059	0.900	7.10E-03	1.98E-03	1.11E+00	3.12E-01	1.235	2.16E+00	3.12E-01
1.24	1.06E+00	3.484E-01	6.73E-03	2.22E-03	1.059	0.900	7.13E-03	2.00E-03	1.12E+00	3.14E-01	1.24	2.15E+00	3.14E-01
1.245	1.06E+00	3.506E-01	6.75E-03	2.21E-03	1.059	0.900	7.15E-03	1.99E-03	1.13E+00	3.16E-01	1.245	2.15E+00	3.16E-01
1.25	1.07E+00	3.528E-01	6.75E-03	2.23E-03	1.059	0.900	7.14E-03	2.01E-03	1.13E+00	3.18E-01	1.25	2.14E+00	3.18E-01
1.255	1.08E+00	3.550E-01	6.76E-03	2.22E-03	1.059	0.900	7.16E-03	1.99E-03	1.14E+00	3.20E-01	1.255	2.14E+00	3.20E-01
1.26	1.08E+00	3.573E-01	6.78E-03	2.25E-03	1.059	0.900	7.18E-03	2.02E-03	1.15E+00	3.22E-01	1.26	2.14E+00	3.22E-01
1.265	1.09E+00	3.595E-01	6.77E-03	2.24E-03	1.059	0.900	7.17E-03	2.01E-03	1.16E+00	3.24E-01	1.265	2.13E+00	3.24E-01
1.27	1.10E+00	3.617E-01	6.81E-03	2.24E-03	1.059	0.900	7.21E-03	2.01E-03	1.16E+00	3.26E-01	1.27	2.13E+00	3.26E-01
1.275	1.10E+00	3.640E-01	6.81E-03	2.24E-03	1.059	0.900	7.21E-03	2.01E-03	1.17E+00	3.28E-01	1.275	2.12E+00	3.28E-01
1.28	1.11E+00	3.662E-01	6.80E-03	2.25E-03	1.059	0.900	7.20E-03	2.02E-03	1.18E+00	3.30E-01	1.28	2.12E+00	3.30E-01
1.285	1.12E+00	3.685E-01	6.83E-03	2.24E-03	1.059	0.900	7.24E-03	2.02E-03	1.18E+00	3.32E-01	1.285	2.12E+00	3.32E-01
1.29	1.13E+00	3.707E-01	6.85E-03	2.25E-03	1.059	0.900	7.25E-03	2.03E-03	1.19E+00	3.34E-01	1.29	2.11E+00	3.34E-01
1.295	1.13E+00	3.730E-01	6.85E-03	2.26E-03	1.059	0.900	7.25E-03	2.04E-03	1.20E+00	3.36E-01	1.295	2.11E+00	3.36E-01
1.3	1.14E+00	3.752E-01	6.86E-03	2.25E-03	1.059	0.900	7.27E-03	2.03E-03	1.21E+00	3.38E-01	1.3	2.10E+00	3.38E-01
1.305	1.15E+00	3.775E-01	6.87E-03	2.27E-03	1.059	0.900	7.28E-03	2.05E-03	1.21E+00	3.40E-01	1.305	2.10E+00	3.40E-01
1.31	1.15E+00	3.798E-01	6.88E-03	2.26E-03	1.059	0.900	7.28E-03	2.04E-03	1.22E+00	3.42E-01	1.31	2.10E+00	3.42E-01
1.315	1.16E+00	3.820E-01	6.90E-03	2.28E-03	1.059	0.900	7.31E-03	2.05E-03	1.23E+00	3.44E-01	1.315	2.09E+00	3.44E-01
1.32	1.17E+00	3.843E-01	6.89E-03	2.27E-03	1.059	0.900	7.30E-03	2.04E-03	1.24E+00	3.46E-01	1.32	2.09E+00	3.46E-01
1.325	1.17E+00	3.866E-01	6.90E-03	2.28E-03	1.059	0.900	7.31E-03	2.05E-03	1.24E+00	3.48E-01	1.325	2.08E+00	3.48E-01
1.33	1.18E+00	3.889E-01	6.94E-03	2.29E-03	1.059	0.900	7.35E-03	2.06E-03	1.25E+00	3.50E-01	1.33	2.08E+00	3.50E-01

1.335	1.19E+00	3.912E-01	6.93E-03	2.29E-03	1.059	0.900	7.34E-03	2.06E-03	1.26E+00	3.52E-01	1.335	2.08E+00	3.52E-01
1.34	1.19E+00	3.934E-01	6.94E-03	2.28E-03	1.059	0.900	7.35E-03	2.05E-03	1.26E+00	3.54E-01	1.34	2.07E+00	3.54E-01
1.345	1.20E+00	3.957E-01	6.96E-03	2.28E-03	1.059	0.900	7.36E-03	2.05E-03	1.27E+00	3.56E-01	1.345	2.07E+00	3.56E-01
1.35	1.21E+00	3.980E-01	6.97E-03	2.30E-03	1.059	0.900	7.38E-03	2.07E-03	1.28E+00	3.58E-01	1.35	2.06E+00	3.58E-01
1.355	1.22E+00	4.003E-01	6.98E-03	2.29E-03	1.059	0.900	7.39E-03	2.06E-03	1.29E+00	3.60E-01	1.355	2.06E+00	3.60E-01
1.36	1.22E+00	4.026E-01	6.98E-03	2.31E-03	1.059	0.900	7.39E-03	2.08E-03	1.29E+00	3.62E-01	1.36	2.05E+00	3.62E-01
1.365	1.23E+00	4.049E-01	6.99E-03	2.29E-03	1.059	0.900	7.41E-03	2.06E-03	1.30E+00	3.64E-01	1.365	2.05E+00	3.64E-01
1.37	1.24E+00	4.072E-01	7.01E-03	2.31E-03	1.059	0.900	7.42E-03	2.08E-03	1.31E+00	3.67E-01	1.37	2.05E+00	3.67E-01
1.375	1.24E+00	4.095E-01	7.02E-03	2.31E-03	1.059	0.900	7.43E-03	2.08E-03	1.32E+00	3.69E-01	1.375	2.04E+00	3.69E-01
1.38	1.25E+00	4.119E-01	7.02E-03	2.32E-03	1.059	0.900	7.44E-03	2.08E-03	1.32E+00	3.71E-01	1.38	2.04E+00	3.71E-01
1.385	1.26E+00	4.142E-01	7.03E-03	2.32E-03	1.059	0.900	7.44E-03	2.09E-03	1.33E+00	3.73E-01	1.385	2.03E+00	3.73E-01
1.39	1.26E+00	4.165E-01	7.05E-03	2.33E-03	1.059	0.900	7.46E-03	2.10E-03	1.34E+00	3.75E-01	1.39	2.03E+00	3.75E-01
1.395	1.27E+00	4.188E-01	7.06E-03	2.32E-03	1.059	0.900	7.48E-03	2.09E-03	1.35E+00	3.77E-01	1.395	2.02E+00	3.77E-01
1.4	1.28E+00	4.212E-01	7.06E-03	2.34E-03	1.059	0.900	7.48E-03	2.11E-03	1.35E+00	3.79E-01	1.4	2.02E+00	3.79E-01
1.405	1.29E+00	4.235E-01	7.08E-03	2.32E-03	1.059	0.900	7.49E-03	2.09E-03	1.36E+00	3.81E-01	1.405	2.02E+00	3.81E-01
1.41	1.29E+00	4.258E-01	7.09E-03	2.34E-03	1.059	0.900	7.51E-03	2.11E-03	1.37E+00	3.83E-01	1.41	2.01E+00	3.83E-01
1.415	1.30E+00	4.282E-01	7.09E-03	2.33E-03	1.059	0.900	7.51E-03	2.10E-03	1.38E+00	3.85E-01	1.415	2.01E+00	3.85E-01
1.42	1.31E+00	4.305E-01	7.11E-03	2.34E-03	1.059	0.900	7.52E-03	2.11E-03	1.38E+00	3.87E-01	1.42	2.00E+00	3.87E-01
1.425	1.31E+00	4.329E-01	7.12E-03	2.34E-03	1.059	0.900	7.54E-03	2.11E-03	1.39E+00	3.90E-01	1.425	2.00E+00	3.90E-01
1.43	1.32E+00	4.352E-01	7.13E-03	2.34E-03	1.059	0.900	7.55E-03	2.10E-03	1.40E+00	3.92E-01	1.43	1.99E+00	3.92E-01
1.435	1.33E+00	4.376E-01	7.13E-03	2.37E-03	1.059	0.900	7.55E-03	2.13E-03	1.41E+00	3.94E-01	1.435	1.99E+00	3.94E-01
1.44	1.34E+00	4.399E-01	7.15E-03	2.35E-03	1.059	0.900	7.57E-03	2.11E-03	1.41E+00	3.96E-01	1.44	1.98E+00	3.96E-01
1.445	1.34E+00	4.422E-01	7.16E-03	2.35E-03	1.059	0.900	7.58E-03	2.11E-03	1.42E+00	3.98E-01	1.445	1.98E+00	3.98E-01
1.45	1.35E+00	4.446E-01	7.16E-03	2.37E-03	1.059	0.900	7.58E-03	2.13E-03	1.43E+00	4.00E-01	1.45	1.98E+00	4.00E-01
1.455	1.36E+00	4.470E-01	7.18E-03	2.36E-03	1.059	0.900	7.61E-03	2.12E-03	1.44E+00	4.02E-01	1.455	1.97E+00	4.02E-01
1.46	1.36E+00	4.493E-01	7.19E-03	2.37E-03	1.059	0.900	7.61E-03	2.13E-03	1.44E+00	4.04E-01	1.46	1.97E+00	4.04E-01
1.465	1.37E+00	4.517E-01	7.19E-03	2.37E-03	1.059	0.900	7.61E-03	2.13E-03	1.45E+00	4.07E-01	1.465	1.96E+00	4.07E-01
1.47	1.38E+00	4.541E-01	7.20E-03	2.37E-03	1.059	0.900	7.63E-03	2.14E-03	1.46E+00	4.09E-01	1.47	1.96E+00	4.09E-01
1.475	1.39E+00	4.565E-01	7.22E-03	2.37E-03	1.059	0.900	7.65E-03	2.14E-03	1.47E+00	4.11E-01	1.475	1.95E+00	4.11E-01
1.48	1.39E+00	4.588E-01	7.21E-03	2.37E-03	1.059	0.900	7.63E-03	2.14E-03	1.47E+00	4.13E-01	1.48	1.95E+00	4.13E-01
1.485	1.40E+00	4.612E-01	7.25E-03	2.38E-03	1.059	0.900	7.68E-03	2.15E-03	1.48E+00	4.15E-01	1.485	1.94E+00	4.15E-01
1.49	1.41E+00	4.636E-01	7.23E-03	2.39E-03	1.059	0.900	7.66E-03	2.15E-03	1.49E+00	4.17E-01	1.49	1.94E+00	4.17E-01
1.495	1.41E+00	4.660E-01	7.26E-03	2.39E-03	1.059	0.900	7.68E-03	2.15E-03	1.50E+00	4.19E-01	1.495	1.94E+00	4.19E-01
1.5	1.42E+00	4.684E-01	7.27E-03	2.40E-03	1.059	0.900	7.70E-03	2.16E-03	1.51E+00	4.22E-01	1.5	1.93E+00	4.22E-01

1.505	1.43E+00	4.708E-01	7.27E-03	2.39E-03	1.059	0.900	7.70E-03	2.15E-03	1.51E+00	4.24E-01	1.505	1.93E+00	4.24E-01
1.51	1.44E+00	4.732E-01	7.27E-03	2.41E-03	1.059	0.900	7.70E-03	2.17E-03	1.52E+00	4.26E-01	1.51	1.92E+00	4.26E-01
1.515	1.44E+00	4.756E-01	7.30E-03	2.40E-03	1.059	0.900	7.73E-03	2.16E-03	1.53E+00	4.28E-01	1.515	1.92E+00	4.28E-01
1.52	1.45E+00	4.780E-01	7.29E-03	2.40E-03	1.059	0.900	7.72E-03	2.16E-03	1.54E+00	4.30E-01	1.52	1.91E+00	4.30E-01
1.525	1.46E+00	4.804E-01	7.32E-03	2.40E-03	1.059	0.900	7.75E-03	2.16E-03	1.54E+00	4.32E-01	1.525	1.91E+00	4.32E-01
1.53	1.47E+00	4.828E-01	7.32E-03	2.40E-03	1.059	0.900	7.75E-03	2.16E-03	1.55E+00	4.35E-01	1.53	1.90E+00	4.35E-01
1.535	1.47E+00	4.852E-01	7.33E-03	2.43E-03	1.059	0.900	7.76E-03	2.19E-03	1.56E+00	4.37E-01	1.535	1.90E+00	4.37E-01
1.54	1.48E+00	4.877E-01	7.34E-03	2.42E-03	1.059	0.900	7.77E-03	2.17E-03	1.57E+00	4.39E-01	1.54	1.89E+00	4.39E-01
1.545	1.49E+00	4.901E-01	7.34E-03	2.41E-03	1.059	0.900	7.78E-03	2.17E-03	1.58E+00	4.41E-01	1.545	1.89E+00	4.41E-01
1.55	1.50E+00	4.925E-01	7.35E-03	2.43E-03	1.059	0.900	7.78E-03	2.18E-03	1.58E+00	4.43E-01	1.55	1.88E+00	4.43E-01
1.555	1.50E+00	4.949E-01	7.38E-03	2.43E-03	1.059	0.900	7.81E-03	2.19E-03	1.59E+00	4.45E-01	1.555	1.88E+00	4.45E-01
1.56	1.51E+00	4.974E-01	7.37E-03	2.44E-03	1.059	0.900	7.81E-03	2.20E-03	1.60E+00	4.48E-01	1.56	1.88E+00	4.48E-01
1.565	1.52E+00	4.998E-01	7.39E-03	2.42E-03	1.059	0.900	7.82E-03	2.18E-03	1.61E+00	4.50E-01	1.565	1.87E+00	4.50E-01
1.57	1.52E+00	5.022E-01	7.40E-03	2.45E-03	1.059	0.900	7.83E-03	2.21E-03	1.61E+00	4.52E-01	1.57	1.87E+00	4.52E-01
1.575	1.53E+00	5.047E-01	7.40E-03	2.42E-03	1.059	0.900	7.84E-03	2.18E-03	1.62E+00	4.54E-01	1.575	1.86E+00	4.54E-01
1.58	1.54E+00	5.071E-01	7.41E-03	2.45E-03	1.059	0.900	7.85E-03	2.21E-03	1.63E+00	4.56E-01	1.58	1.86E+00	4.56E-01
1.585	1.55E+00	5.095E-01	7.44E-03	2.44E-03	1.059	0.900	7.88E-03	2.20E-03	1.64E+00	4.59E-01	1.585	1.85E+00	4.59E-01
1.59	1.55E+00	5.120E-01	7.42E-03	2.44E-03	1.059	0.900	7.86E-03	2.20E-03	1.65E+00	4.61E-01	1.59	1.85E+00	4.61E-01
1.595	1.56E+00	5.144E-01	7.44E-03	2.45E-03	1.059	0.900	7.88E-03	2.20E-03	1.65E+00	4.63E-01	1.595	1.84E+00	4.63E-01
1.6	1.57E+00	5.169E-01	7.45E-03	2.47E-03	1.059	0.900	7.88E-03	2.22E-03	1.66E+00	4.65E-01	1.6	1.84E+00	4.65E-01
1.605	1.58E+00	5.194E-01	7.46E-03	2.45E-03	1.059	0.900	7.90E-03	2.20E-03	1.67E+00	4.67E-01	1.605	1.83E+00	4.67E-01
1.61	1.58E+00	5.218E-01	7.47E-03	2.47E-03	1.059	0.900	7.91E-03	2.22E-03	1.68E+00	4.70E-01	1.61	1.83E+00	4.70E-01
1.615	1.59E+00	5.243E-01	7.48E-03	2.47E-03	1.059	0.900	7.92E-03	2.22E-03	1.69E+00	4.72E-01	1.615	1.82E+00	4.72E-01
1.62	1.60E+00	5.267E-01	7.48E-03	2.45E-03	1.059	0.900	7.92E-03	2.21E-03	1.69E+00	4.74E-01	1.62	1.82E+00	4.74E-01
1.625	1.61E+00	5.292E-01	7.50E-03	2.48E-03	1.059	0.900	7.94E-03	2.23E-03	1.70E+00	4.76E-01	1.625	1.81E+00	4.76E-01
1.63	1.61E+00	5.317E-01	7.50E-03	2.47E-03	1.059	0.900	7.95E-03	2.23E-03	1.71E+00	4.79E-01	1.63	1.81E+00	4.79E-01
1.635	1.62E+00	5.342E-01	7.53E-03	2.46E-03	1.059	0.900	7.97E-03	2.22E-03	1.72E+00	4.81E-01	1.635	1.80E+00	4.81E-01
1.64	1.63E+00	5.366E-01	7.52E-03	2.48E-03	1.059	0.900	7.96E-03	2.24E-03	1.72E+00	4.83E-01	1.64	1.80E+00	4.83E-01
1.645	1.64E+00	5.391E-01	7.52E-03	2.48E-03	1.059	0.900	7.96E-03	2.23E-03	1.73E+00	4.85E-01	1.645	1.79E+00	4.85E-01
1.65	1.64E+00	5.416E-01	7.56E-03	2.50E-03	1.059	0.900	8.00E-03	2.25E-03	1.74E+00	4.87E-01	1.65	1.79E+00	4.87E-01
1.655	1.65E+00	5.441E-01	7.56E-03	2.49E-03	1.059	0.900	8.00E-03	2.24E-03	1.75E+00	4.90E-01	1.655	1.78E+00	4.90E-01
1.66	1.66E+00	5.466E-01	7.55E-03	2.48E-03	1.059	0.900	8.00E-03	2.23E-03	1.76E+00	4.92E-01	1.66	1.78E+00	4.92E-01
1.665	1.67E+00	5.491E-01	7.57E-03	2.50E-03	1.059	0.900	8.02E-03	2.25E-03	1.76E+00	4.94E-01	1.665	1.77E+00	4.94E-01
1.67	1.67E+00	5.516E-01	7.58E-03	2.49E-03	1.059	0.900	8.02E-03	2.24E-03	1.77E+00	4.96E-01	1.67	1.77E+00	4.96E-01

1.675	1.68E+00	5.541E-01	7.59E-03	2.51E-03	1.059	0.900	8.04E-03	2.26E-03	1.78E+00	4.99E-01	1.675	1.76E+00	4.99E-01
1.68	1.69E+00	5.566E-01	7.59E-03	2.49E-03	1.059	0.900	8.04E-03	2.24E-03	1.79E+00	5.01E-01	1.68	1.76E+00	5.01E-01
1.685	1.70E+00	5.591E-01	7.62E-03	2.51E-03	1.059	0.900	8.06E-03	2.26E-03	1.80E+00	5.03E-01	1.685	1.75E+00	5.03E-01
1.69	1.70E+00	5.616E-01	7.61E-03	2.50E-03	1.059	0.900	8.06E-03	2.25E-03	1.81E+00	5.05E-01	1.69	1.75E+00	5.05E-01
1.695	1.71E+00	5.641E-01	7.63E-03	2.51E-03	1.059	0.900	8.08E-03	2.26E-03	1.81E+00	5.08E-01	1.695	1.74E+00	5.08E-01
1.7	1.72E+00	5.666E-01	7.63E-03	2.51E-03	1.059	0.900	8.07E-03	2.26E-03	1.82E+00	5.10E-01	1.7	1.74E+00	5.10E-01
1.705	1.73E+00	5.691E-01	7.65E-03	2.52E-03	1.059	0.900	8.10E-03	2.27E-03	1.83E+00	5.12E-01	1.705	1.73E+00	5.12E-01
1.71	1.74E+00	5.717E-01	7.65E-03	2.53E-03	1.059	0.900	8.10E-03	2.28E-03	1.84E+00	5.14E-01	1.71	1.73E+00	5.14E-01
1.715	1.74E+00	5.742E-01	7.66E-03	2.52E-03	1.059	0.900	8.12E-03	2.27E-03	1.85E+00	5.17E-01	1.715	1.72E+00	5.17E-01
1.72	1.75E+00	5.767E-01	7.66E-03	2.53E-03	1.059	0.900	8.11E-03	2.28E-03	1.85E+00	5.19E-01	1.72	1.72E+00	5.19E-01
1.725	1.76E+00	5.792E-01	7.68E-03	2.52E-03	1.059	0.900	8.13E-03	2.27E-03	1.86E+00	5.21E-01	1.725	1.71E+00	5.21E-01
1.73	1.77E+00	5.818E-01	7.68E-03	2.54E-03	1.059	0.900	8.14E-03	2.29E-03	1.87E+00	5.24E-01	1.73	1.71E+00	5.24E-01
1.735	1.77E+00	5.843E-01	7.70E-03	2.53E-03	1.059	0.900	8.15E-03	2.28E-03	1.88E+00	5.26E-01	1.735	1.70E+00	5.26E-01
1.74	1.78E+00	5.868E-01	7.71E-03	2.53E-03	1.059	0.900	8.16E-03	2.28E-03	1.89E+00	5.28E-01	1.74	1.70E+00	5.28E-01
1.745	1.79E+00	5.894E-01	7.72E-03	2.54E-03	1.059	0.900	8.18E-03	2.28E-03	1.89E+00	5.30E-01	1.745	1.69E+00	5.30E-01
1.75	1.80E+00	5.919E-01	7.71E-03	2.55E-03	1.059	0.900	8.16E-03	2.29E-03	1.90E+00	5.33E-01	1.75	1.69E+00	5.33E-01
1.755	1.80E+00	5.945E-01	7.74E-03	2.55E-03	1.059	0.900	8.19E-03	2.29E-03	1.91E+00	5.35E-01	1.755	1.68E+00	5.35E-01
1.76	1.81E+00	5.970E-01	7.75E-03	2.56E-03	1.059	0.900	8.21E-03	2.30E-03	1.92E+00	5.37E-01	1.76	1.68E+00	5.37E-01
1.765	1.82E+00	5.996E-01	7.75E-03	2.55E-03	1.059	0.900	8.20E-03	2.29E-03	1.93E+00	5.40E-01	1.765	1.67E+00	5.40E-01
1.77	1.83E+00	6.021E-01	7.75E-03	2.56E-03	1.059	0.900	8.20E-03	2.30E-03	1.94E+00	5.42E-01	1.77	1.67E+00	5.42E-01
1.775	1.84E+00	6.047E-01	7.77E-03	2.55E-03	1.059	0.900	8.23E-03	2.30E-03	1.94E+00	5.44E-01	1.775	1.66E+00	5.44E-01
1.78	1.84E+00	6.073E-01	7.77E-03	2.56E-03	1.059	0.900	8.23E-03	2.31E-03	1.95E+00	5.47E-01	1.78	1.66E+00	5.47E-01
1.785	1.85E+00	6.098E-01	7.79E-03	2.56E-03	1.059	0.900	8.25E-03	2.31E-03	1.96E+00	5.49E-01	1.785	1.65E+00	5.49E-01
1.79	1.86E+00	6.124E-01	7.79E-03	2.56E-03	1.059	0.900	8.25E-03	2.31E-03	1.97E+00	5.51E-01	1.79	1.65E+00	5.51E-01
1.795	1.87E+00	6.150E-01	7.81E-03	2.58E-03	1.059	0.900	8.27E-03	2.32E-03	1.98E+00	5.53E-01	1.795	1.64E+00	5.53E-01
1.8	1.87E+00	6.175E-01	7.81E-03	2.57E-03	1.059	0.900	8.27E-03	2.31E-03	1.98E+00	5.56E-01	1.8	1.64E+00	5.56E-01
1.805	1.88E+00	6.201E-01	7.81E-03	2.59E-03	1.059	0.900	8.27E-03	2.33E-03	1.99E+00	5.58E-01	1.805	1.63E+00	5.58E-01
1.81	1.89E+00	6.227E-01	7.84E-03	2.57E-03	1.059	0.900	8.30E-03	2.31E-03	2.00E+00	5.60E-01	1.81	1.62E+00	5.60E-01
1.815	1.90E+00	6.253E-01	7.84E-03	2.59E-03	1.059	0.900	8.30E-03	2.33E-03	2.01E+00	5.63E-01	1.815	1.62E+00	5.63E-01
1.82	1.91E+00	6.278E-01	7.85E-03	2.57E-03	1.059	0.900	8.31E-03	2.31E-03	2.02E+00	5.65E-01	1.82	1.61E+00	5.65E-01
1.825	1.91E+00	6.304E-01	7.84E-03	2.59E-03	1.059	0.900	8.30E-03	2.33E-03	2.03E+00	5.67E-01	1.825	1.61E+00	5.67E-01
1.83	1.92E+00	6.330E-01	7.87E-03	2.59E-03	1.059	0.900	8.33E-03	2.33E-03	2.03E+00	5.70E-01	1.83	1.60E+00	5.70E-01
1.835	1.93E+00	6.356E-01	7.87E-03	2.59E-03	1.059	0.900	8.33E-03	2.34E-03	2.04E+00	5.72E-01	1.835	1.60E+00	5.72E-01
1.84	1.94E+00	6.382E-01	7.88E-03	2.59E-03	1.059	0.900	8.34E-03	2.34E-03	2.05E+00	5.74E-01	1.84	1.59E+00	5.74E-01

1.845	1.95E+00	6.408E-01	7.90E-03	2.60E-03	1.059	0.900	8.36E-03	2.34E-03	2.06E+00	5.77E-01	1.845	1.59E+00	5.77E-01
1.85	1.95E+00	6.434E-01	7.89E-03	2.61E-03	1.059	0.900	8.35E-03	2.35E-03	2.07E+00	5.79E-01	1.85	1.58E+00	5.79E-01
1.855	1.96E+00	6.460E-01	7.91E-03	2.60E-03	1.059	0.900	8.38E-03	2.34E-03	2.08E+00	5.81E-01	1.855	1.58E+00	5.81E-01
1.86	1.97E+00	6.486E-01	7.91E-03	2.60E-03	1.059	0.900	8.38E-03	2.34E-03	2.08E+00	5.84E-01	1.86	1.57E+00	5.84E-01
1.865	1.98E+00	6.512E-01	7.92E-03	2.62E-03	1.059	0.900	8.38E-03	2.36E-03	2.09E+00	5.86E-01	1.865	1.57E+00	5.86E-01
1.87	1.98E+00	6.539E-01	7.93E-03	2.61E-03	1.059	0.900	8.40E-03	2.35E-03	2.10E+00	5.88E-01	1.87	1.56E+00	5.88E-01
1.875	1.99E+00	6.565E-01	7.94E-03	2.62E-03	1.059	0.900	8.41E-03	2.36E-03	2.11E+00	5.91E-01	1.875	1.56E+00	5.91E-01
1.88	2.00E+00	6.591E-01	7.95E-03	2.61E-03	1.059	0.900	8.41E-03	2.35E-03	2.12E+00	5.93E-01	1.88	1.55E+00	5.93E-01
1.885	2.01E+00	6.617E-01	7.97E-03	2.61E-03	1.059	0.900	8.44E-03	2.35E-03	2.13E+00	5.96E-01	1.885	1.54E+00	5.96E-01
1.89	2.02E+00	6.643E-01	7.95E-03	2.63E-03	1.059	0.900	8.42E-03	2.36E-03	2.14E+00	5.98E-01	1.89	1.54E+00	5.98E-01
1.895	2.02E+00	6.670E-01	7.98E-03	2.64E-03	1.059	0.900	8.45E-03	2.37E-03	2.14E+00	6.00E-01	1.895	1.53E+00	6.00E-01
1.9	2.03E+00	6.696E-01	7.99E-03	2.63E-03	1.059	0.900	8.46E-03	2.36E-03	2.15E+00	6.03E-01	1.9	1.53E+00	6.03E-01
1.905	2.04E+00	6.722E-01	7.98E-03	2.64E-03	1.059	0.900	8.45E-03	2.37E-03	2.16E+00	6.05E-01	1.905	1.52E+00	6.05E-01
1.91	2.05E+00	6.749E-01	8.01E-03	2.63E-03	1.059	0.900	8.48E-03	2.37E-03	2.17E+00	6.07E-01	1.91	1.52E+00	6.07E-01
1.915	2.06E+00	6.775E-01	8.01E-03	2.65E-03	1.059	0.900	8.48E-03	2.39E-03	2.18E+00	6.10E-01	1.915	1.51E+00	6.10E-01
1.92	2.06E+00	6.801E-01	8.02E-03	2.63E-03	1.059	0.900	8.49E-03	2.37E-03	2.19E+00	6.12E-01	1.92	1.51E+00	6.12E-01
1.925	2.07E+00	6.828E-01	8.01E-03	2.64E-03	1.059	0.900	8.49E-03	2.38E-03	2.19E+00	6.15E-01	1.925	1.50E+00	6.15E-01
1.93	2.08E+00	6.854E-01	8.04E-03	2.65E-03	1.059	0.900	8.51E-03	2.39E-03	2.20E+00	6.17E-01	1.93	1.50E+00	6.17E-01
1.935	2.09E+00	6.881E-01	8.04E-03	2.64E-03	1.059	0.900	8.51E-03	2.38E-03	2.21E+00	6.19E-01	1.935	1.49E+00	6.19E-01
1.94	2.10E+00	6.907E-01	8.04E-03	2.65E-03	1.059	0.900	8.52E-03	2.38E-03	2.22E+00	6.22E-01	1.94	1.48E+00	6.22E-01
1.945	2.10E+00	6.934E-01	8.06E-03	2.66E-03	1.059	0.900	8.53E-03	2.39E-03	2.23E+00	6.24E-01	1.945	1.48E+00	6.24E-01
1.95	2.11E+00	6.960E-01	8.07E-03	2.66E-03	1.059	0.900	8.55E-03	2.39E-03	2.24E+00	6.26E-01	1.95	1.47E+00	6.26E-01
1.955	2.12E+00	6.987E-01	8.07E-03	2.66E-03	1.059	0.900	8.55E-03	2.39E-03	2.25E+00	6.29E-01	1.955	1.47E+00	6.29E-01
1.96	2.13E+00	7.014E-01	8.08E-03	2.67E-03	1.059	0.900	8.55E-03	2.40E-03	2.25E+00	6.31E-01	1.96	1.46E+00	6.31E-01
1.965	2.14E+00	7.040E-01	8.10E-03	2.65E-03	1.059	0.900	8.58E-03	2.39E-03	2.26E+00	6.34E-01	1.965	1.46E+00	6.34E-01
1.97	2.15E+00	7.067E-01	8.09E-03	2.67E-03	1.059	0.900	8.57E-03	2.40E-03	2.27E+00	6.36E-01	1.97	1.45E+00	6.36E-01
1.975	2.15E+00	7.094E-01	8.11E-03	2.67E-03	1.059	0.900	8.58E-03	2.40E-03	2.28E+00	6.38E-01	1.975	1.44E+00	6.38E-01
1.98	2.16E+00	7.120E-01	8.12E-03	2.67E-03	1.059	0.900	8.60E-03	2.41E-03	2.29E+00	6.41E-01	1.98	1.44E+00	6.41E-01
1.985	2.17E+00	7.147E-01	8.12E-03	2.68E-03	1.059	0.900	8.60E-03	2.41E-03	2.30E+00	6.43E-01	1.985	1.43E+00	6.43E-01
1.99	2.18E+00	7.174E-01	8.14E-03	2.69E-03	1.059	0.900	8.62E-03	2.42E-03	2.31E+00	6.46E-01	1.99	1.43E+00	6.46E-01
1.995	2.19E+00	7.201E-01	8.14E-03	2.68E-03	1.059	0.900	8.62E-03	2.41E-03	2.31E+00	6.48E-01	1.995	1.42E+00	6.48E-01
2	2.19E+00	7.228E-01	8.14E-03	2.69E-03	1.059	0.900	8.62E-03	2.42E-03	2.32E+00	6.50E-01	2	1.42E+00	6.50E-01
2.005	2.20E+00	7.255E-01	8.17E-03	2.69E-03	1.059	0.900	8.65E-03	2.42E-03	2.33E+00	6.53E-01	2.005		6.53E-01
2.01	2.21E+00	7.281E-01	8.17E-03	2.68E-03	1.059	0.900	8.65E-03	2.41E-03	2.34E+00	6.55E-01	2.01		6.55E-01

2.015	2.22E+00	7.308E-01	8.17E-03	2.70E-03	1.059	0.900	8.65E-03	2.43E-03	2.35E+00	6.58E-01	2.015	6.58E-01
2.02	2.23E+00	7.335E-01	8.18E-03	2.69E-03	1.059	0.900	8.66E-03	2.42E-03	2.36E+00	6.60E-01	2.02	6.60E-01
2.025	2.23E+00	7.362E-01	8.19E-03	2.69E-03	1.059	0.900	8.67E-03	2.42E-03	2.37E+00	6.63E-01	2.025	6.63E-01
2.03	2.24E+00	7.389E-01	8.20E-03	2.71E-03	1.059	0.900	8.69E-03	2.44E-03	2.38E+00	6.65E-01	2.03	6.65E-01
2.035	2.25E+00	7.416E-01	8.14E-03	2.68E-03	1.059	0.900	8.61E-03	2.41E-03	2.38E+00	6.67E-01	2.035	6.67E-01
2.04	2.26E+00	7.440E-01	7.30E-03	2.40E-03	1.059	0.900	7.73E-03	2.16E-03	2.39E+00	6.70E-01	2.04	6.70E-01
2.045	2.27E+00	7.462E-01	6.55E-03	2.16E-03	1.059	0.900	6.94E-03	1.94E-03	2.40E+00	6.72E-01	2.045	6.72E-01
2.05	2.27E+00	7.482E-01	6.06E-03	2.00E-03	1.059	0.900	6.42E-03	1.80E-03	2.40E+00	6.73E-01	2.05	6.73E-01
2.055	2.28E+00	7.501E-01	5.79E-03	1.90E-03	1.059	0.900	6.13E-03	1.71E-03	2.41E+00	6.75E-01	2.055	6.75E-01
2.06	2.28E+00	7.519E-01	5.57E-03	1.84E-03	1.059	0.900	5.90E-03	1.66E-03	2.42E+00	6.77E-01	2.06	6.77E-01
2.065	2.29E+00	7.537E-01	5.45E-03	1.79E-03	1.059	0.900	5.78E-03	1.61E-03	2.42E+00	6.78E-01	2.065	6.78E-01
2.07	2.29E+00	7.555E-01	5.34E-03	1.75E-03	1.059	0.900	5.65E-03	1.58E-03	2.43E+00	6.80E-01	2.07	6.80E-01
2.075	2.30E+00	7.572E-01	5.25E-03	1.74E-03	1.059	0.900	5.56E-03	1.57E-03	2.43E+00	6.81E-01	2.075	6.81E-01
2.08	2.30E+00	7.589E-01	5.20E-03	1.72E-03	1.059	0.900	5.51E-03	1.54E-03	2.44E+00	6.83E-01	2.08	6.83E-01
2.085	2.31E+00	7.606E-01	5.13E-03	1.70E-03	1.059	0.900	5.43E-03	1.53E-03	2.44E+00	6.85E-01	2.085	6.85E-01
2.09	2.31E+00	7.623E-01	5.08E-03	1.67E-03	1.059	0.900	5.38E-03	1.50E-03	2.45E+00	6.86E-01	2.09	6.86E-01
2.095	2.32E+00	7.639E-01	5.04E-03	1.66E-03	1.059	0.900	5.34E-03	1.49E-03	2.46E+00	6.88E-01	2.095	6.88E-01
2.1	2.32E+00	7.656E-01	5.00E-03	1.64E-03	1.059	0.900	5.29E-03	1.48E-03	2.46E+00	6.89E-01	2.1	6.89E-01
2.105	2.33E+00	7.672E-01	4.94E-03	1.62E-03	1.059	0.900	5.23E-03	1.46E-03	2.47E+00	6.90E-01	2.105	6.90E-01
2.11	2.33E+00	7.688E-01	4.90E-03	1.62E-03	1.059	0.900	5.19E-03	1.46E-03	2.47E+00	6.92E-01	2.11	6.92E-01
2.115	2.34E+00	7.704E-01	4.85E-03	1.60E-03	1.059	0.900	5.13E-03	1.44E-03	2.48E+00	6.93E-01	2.115	6.93E-01
2.12	2.34E+00	7.720E-01	4.81E-03	1.59E-03	1.059	0.900	5.09E-03	1.43E-03	2.48E+00	6.95E-01	2.12	6.95E-01
2.125	2.35E+00	7.736E-01	4.78E-03	1.56E-03	1.059	0.900	5.06E-03	1.41E-03	2.49E+00	6.96E-01	2.125	6.96E-01
2.13	2.35E+00	7.751E-01	4.73E-03	1.55E-03	1.059	0.900	5.01E-03	1.40E-03	2.49E+00	6.98E-01	2.13	6.98E-01
2.135	2.36E+00	7.767E-01	4.70E-03	1.55E-03	1.059	0.900	4.97E-03	1.39E-03	2.50E+00	6.99E-01	2.135	6.99E-01
2.14	2.36E+00	7.782E-01	4.66E-03	1.54E-03	1.059	0.900	4.93E-03	1.38E-03	2.50E+00	7.00E-01	2.14	7.00E-01
2.145	2.37E+00	7.797E-01	4.61E-03	1.52E-03	1.059	0.900	4.88E-03	1.37E-03	2.51E+00	7.02E-01	2.145	7.02E-01
2.15	2.37E+00	7.812E-01	4.58E-03	1.51E-03	1.059	0.900	4.85E-03	1.36E-03	2.51E+00	7.03E-01	2.15	7.03E-01
2.155	2.38E+00	7.827E-01	4.53E-03	1.49E-03	1.059	0.900	4.79E-03	1.34E-03	2.52E+00	7.04E-01	2.155	7.04E-01
2.16	2.38E+00	7.842E-01	4.51E-03	1.48E-03	1.059	0.900	4.77E-03	1.33E-03	2.52E+00	7.06E-01	2.16	7.06E-01
2.165	2.39E+00	7.857E-01	4.46E-03	1.48E-03	1.059	0.900	4.72E-03	1.33E-03	2.53E+00	7.07E-01	2.165	7.07E-01
2.17	2.39E+00	7.871E-01	4.43E-03	1.44E-03	1.059	0.900	4.69E-03	1.30E-03	2.53E+00	7.08E-01	2.17	7.08E-01
2.175	2.39E+00	7.886E-01	4.40E-03	1.45E-03	1.059	0.900	4.66E-03	1.31E-03	2.53E+00	7.10E-01	2.175	7.10E-01
2.18	2.40E+00	7.900E-01	4.36E-03	1.45E-03	1.059	0.900	4.62E-03	1.30E-03	2.54E+00	7.11E-01	2.18	7.11E-01

2.185	2.40E+00	7.915E-01	4.34E-03	1.43E-03	1.059	0.900	4.59E-03	1.28E-03	2.54E+00	7.12E-01	2.185	7.12E-01
2.19	2.41E+00	7.929E-01	4.29E-03	1.41E-03	1.059	0.900	4.54E-03	1.27E-03	2.55E+00	7.14E-01	2.19	7.14E-01
2.195	2.41E+00	7.943E-01	4.27E-03	1.41E-03	1.059	0.900	4.52E-03	1.27E-03	2.55E+00	7.15E-01	2.195	7.15E-01
2.2	2.42E+00	7.957E-01	4.22E-03	1.40E-03	1.059	0.900	4.47E-03	1.26E-03	2.56E+00	7.16E-01	2.2	7.16E-01
2.205	2.42E+00	7.970E-01	4.20E-03	1.37E-03	1.059	0.900	4.45E-03	1.23E-03	2.56E+00	7.17E-01	2.205	7.17E-01
2.21	2.42E+00	7.984E-01	4.17E-03	1.38E-03	1.059	0.900	4.42E-03	1.24E-03	2.57E+00	7.19E-01	2.21	7.19E-01
2.215	2.43E+00	7.998E-01	4.14E-03	1.37E-03	1.059	0.900	4.38E-03	1.23E-03	2.57E+00	7.20E-01	2.215	7.20E-01
2.22	2.43E+00	8.011E-01	4.11E-03	1.35E-03	1.059	0.900	4.35E-03	1.22E-03	2.58E+00	7.21E-01	2.22	7.21E-01
2.225	2.44E+00	8.025E-01	4.09E-03	1.34E-03	1.059	0.900	4.33E-03	1.21E-03	2.58E+00	7.22E-01	2.225	7.22E-01
2.23	2.44E+00	8.038E-01	4.04E-03	1.33E-03	1.059	0.900	4.28E-03	1.20E-03	2.58E+00	7.23E-01	2.23	7.23E-01
2.235	2.44E+00	8.051E-01	4.03E-03	1.32E-03	1.059	0.900	4.27E-03	1.19E-03	2.59E+00	7.25E-01	2.235	7.25E-01
2.24	2.45E+00	8.065E-01	4.00E-03	1.32E-03	1.059	0.900	4.24E-03	1.18E-03	2.59E+00	7.26E-01	2.24	7.26E-01
2.245	2.45E+00	8.078E-01	3.96E-03	1.32E-03	1.059	0.900	4.19E-03	1.18E-03	2.60E+00	7.27E-01	2.245	7.27E-01
2.25	2.46E+00	8.091E-01	3.95E-03	1.30E-03	1.059	0.900	4.18E-03	1.17E-03	2.60E+00	7.28E-01	2.25	7.28E-01
2.255	2.46E+00	8.104E-01	3.92E-03	1.29E-03	1.059	0.900	4.15E-03	1.16E-03	2.60E+00	7.29E-01	2.255	7.29E-01
2.26	2.46E+00	8.116E-01	3.87E-03	1.28E-03	1.059	0.900	4.10E-03	1.15E-03	2.61E+00	7.30E-01	2.26	7.30E-01
2.265	2.47E+00	8.129E-01	3.88E-03	1.28E-03	1.059	0.900	4.11E-03	1.15E-03	2.61E+00	7.32E-01	2.265	7.32E-01
2.27	2.47E+00	8.142E-01	3.84E-03	1.27E-03	1.059	0.900	4.07E-03	1.14E-03	2.62E+00	7.33E-01	2.27	7.33E-01
2.275	2.48E+00	8.155E-01	3.82E-03	1.26E-03	1.059	0.900	4.05E-03	1.14E-03	2.62E+00	7.34E-01	2.275	7.34E-01
2.28	2.48E+00	8.167E-01	3.78E-03	1.24E-03	1.059	0.900	4.01E-03	1.12E-03	2.63E+00	7.35E-01	2.28	7.35E-01
2.285	2.48E+00	8.179E-01	3.77E-03	1.24E-03	1.059	0.900	4.00E-03	1.12E-03	2.63E+00	7.36E-01	2.285	7.36E-01
2.29	2.49E+00	8.192E-01	3.74E-03	1.23E-03	1.059	0.900	3.96E-03	1.11E-03	2.63E+00	7.37E-01	2.29	7.37E-01
2.295	2.49E+00	8.204E-01	3.73E-03	1.22E-03	1.059	0.900	3.95E-03	1.10E-03	2.64E+00	7.38E-01	2.295	7.38E-01
2.3	2.49E+00	8.216E-01	3.70E-03	1.23E-03	1.059	0.900	3.92E-03	1.10E-03	2.64E+00	7.39E-01	2.3	7.39E-01
2.305	2.50E+00	8.228E-01	3.68E-03	1.21E-03	1.059	0.900	3.90E-03	1.09E-03	2.64E+00	7.41E-01	2.305	7.41E-01
2.31	2.50E+00	8.240E-01	3.67E-03	1.22E-03	1.059	0.900	3.89E-03	1.10E-03	2.65E+00	7.42E-01	2.31	7.42E-01
2.315	2.51E+00	8.252E-01	3.62E-03	1.20E-03	1.059	0.900	3.84E-03	1.08E-03	2.65E+00	7.43E-01	2.315	7.43E-01
2.32	2.51E+00	8.264E-01	3.62E-03	1.19E-03	1.059	0.900	3.84E-03	1.07E-03	2.66E+00	7.44E-01	2.32	7.44E-01
2.325	2.51E+00	8.276E-01	3.59E-03	1.19E-03	1.059	0.900	3.81E-03	1.07E-03	2.66E+00	7.45E-01	2.325	7.45E-01
2.33	2.52E+00	8.288E-01	3.59E-03	1.18E-03	1.059	0.900	3.80E-03	1.06E-03	2.66E+00	7.46E-01	2.33	7.46E-01
2.335	2.52E+00	8.300E-01	3.56E-03	1.17E-03	1.059	0.900	3.76E-03	1.05E-03	2.67E+00	7.47E-01	2.335	7.47E-01
2.34	2.52E+00	8.311E-01	3.54E-03	1.17E-03	1.059	0.900	3.74E-03	1.05E-03	2.67E+00	7.48E-01	2.34	7.48E-01
2.345	2.53E+00	8.323E-01	3.53E-03	1.15E-03	1.059	0.900	3.73E-03	1.04E-03	2.68E+00	7.49E-01	2.345	7.49E-01
2.35	2.53E+00	8.334E-01	3.50E-03	1.15E-03	1.059	0.900	3.70E-03	1.04E-03	2.68E+00	7.50E-01	2.35	7.50E-01

2.355	2.53E+00	8.346E-01	3.50E-03	1.15E-03	1.059	0.900	3.70E-03	1.04E-03	2.68E+00	7.51E-01	2.355	7.51E-01
2.36	2.54E+00	8.357E-01	3.47E-03	1.14E-03	1.059	0.900	3.67E-03	1.02E-03	2.69E+00	7.52E-01	2.36	7.52E-01
2.365	2.54E+00	8.369E-01	3.45E-03	1.14E-03	1.059	0.900	3.65E-03	1.02E-03	2.69E+00	7.53E-01	2.365	7.53E-01
2.37	2.54E+00	8.380E-01	3.43E-03	1.14E-03	1.059	0.900	3.63E-03	1.02E-03	2.69E+00	7.54E-01	2.37	7.54E-01
2.375	2.55E+00	8.391E-01	3.41E-03	1.12E-03	1.059	0.900	3.61E-03	1.01E-03	2.70E+00	7.55E-01	2.375	7.55E-01
2.38	2.55E+00	8.402E-01	3.41E-03	1.12E-03	1.059	0.900	3.61E-03	1.01E-03	2.70E+00	7.56E-01	2.38	7.56E-01
2.385	2.55E+00	8.414E-01	3.38E-03	1.12E-03	1.059	0.900	3.58E-03	1.01E-03	2.70E+00	7.57E-01	2.385	7.57E-01
2.39	2.56E+00	8.425E-01	3.37E-03	1.11E-03	1.059	0.900	3.57E-03	9.99E-04	2.71E+00	7.58E-01	2.39	7.58E-01
2.395	2.56E+00	8.436E-01	3.35E-03	1.10E-03	1.059	0.900	3.54E-03	9.90E-04	2.71E+00	7.59E-01	2.395	7.59E-01
2.4	2.56E+00	8.447E-01	3.33E-03	1.10E-03	1.059	0.900	3.52E-03	9.91E-04	2.72E+00	7.60E-01	2.4	7.60E-01
2.405	2.57E+00	8.458E-01	3.33E-03	1.09E-03	1.059	0.900	3.52E-03	9.83E-04	2.72E+00	7.61E-01	2.405	7.61E-01
2.41	2.57E+00	8.469E-01	3.31E-03	1.09E-03	1.059	0.900	3.50E-03	9.84E-04	2.72E+00	7.62E-01	2.41	7.62E-01
2.415	2.57E+00	8.479E-01	3.28E-03	1.08E-03	1.059	0.900	3.47E-03	9.75E-04	2.73E+00	7.63E-01	2.415	7.63E-01
2.42	2.58E+00	8.490E-01	3.27E-03	1.07E-03	1.059	0.900	3.46E-03	9.67E-04	2.73E+00	7.64E-01	2.42	7.64E-01
2.425	2.58E+00	8.501E-01	3.27E-03	1.07E-03	1.059	0.900	3.46E-03	9.67E-04	2.73E+00	7.65E-01	2.425	7.65E-01
2.43	2.58E+00	8.512E-01	3.26E-03	1.08E-03	1.059	0.900	3.45E-03	9.68E-04	2.74E+00	7.66E-01	2.43	7.66E-01
2.435	2.59E+00	8.522E-01	3.22E-03	1.07E-03	1.059	0.900	3.41E-03	9.60E-04	2.74E+00	7.67E-01	2.435	7.67E-01
2.44	2.59E+00	8.533E-01	3.23E-03	1.06E-03	1.059	0.900	3.42E-03	9.51E-04	2.74E+00	7.68E-01	2.44	7.68E-01
2.445	2.59E+00	8.543E-01	3.21E-03	1.06E-03	1.059	0.900	3.40E-03	9.52E-04	2.75E+00	7.69E-01	2.445	7.69E-01
2.45	2.60E+00	8.554E-01	3.22E-03	1.06E-03	1.059	0.900	3.41E-03	9.52E-04	2.75E+00	7.70E-01	2.45	7.70E-01
2.455	2.60E+00	8.565E-01	3.22E-03	1.06E-03	1.059	0.900	3.41E-03	9.53E-04	2.75E+00	7.71E-01	2.455	7.71E-01
2.46	2.60E+00	8.575E-01	3.21E-03	1.07E-03	1.059	0.900	3.40E-03	9.63E-04	2.76E+00	7.72E-01	2.46	7.72E-01
2.465	2.61E+00	8.586E-01	3.22E-03	1.05E-03	1.059	0.900	3.41E-03	9.45E-04	2.76E+00	7.73E-01	2.465	7.73E-01
2.47	2.61E+00	8.596E-01	3.22E-03	1.06E-03	1.059	0.900	3.41E-03	9.55E-04	2.76E+00	7.74E-01	2.47	7.74E-01
2.475	2.61E+00	8.607E-01	3.21E-03	1.06E-03	1.059	0.900	3.40E-03	9.56E-04	2.77E+00	7.75E-01	2.475	7.75E-01
2.48	2.62E+00	8.618E-01	3.21E-03	1.06E-03	1.059	0.900	3.40E-03	9.57E-04	2.77E+00	7.76E-01	2.48	7.76E-01
2.485	2.62E+00	8.628E-01	3.22E-03	1.04E-03	1.059	0.900	3.41E-03	9.39E-04	2.77E+00	7.77E-01	2.485	7.77E-01
2.49	2.62E+00	8.639E-01	3.22E-03	1.07E-03	1.059	0.900	3.41E-03	9.66E-04	2.78E+00	7.77E-01	2.49	7.77E-01
2.495	2.63E+00	8.649E-01	3.20E-03	1.06E-03	1.059	0.900	3.39E-03	9.58E-04	2.78E+00	7.78E-01	2.495	7.78E-01
2.5	2.63E+00	8.660E-01	3.21E-03	1.06E-03	1.059	0.900	3.40E-03	9.50E-04	2.78E+00	7.79E-01	2.5	7.79E-01
2.505	2.63E+00	8.671E-01	3.21E-03	1.06E-03	1.059	0.900	3.40E-03	9.50E-04	2.79E+00	7.80E-01	2.505	7.80E-01
2.51	2.64E+00	8.681E-01	3.21E-03	1.06E-03	1.059	0.900	3.40E-03	9.50E-04	2.79E+00	7.81E-01	2.51	7.81E-01
2.515	2.64E+00	8.692E-01	3.20E-03	1.06E-03	1.059	0.900	3.39E-03	9.51E-04	2.79E+00	7.82E-01	2.515	7.82E-01
2.52	2.64E+00	8.702E-01	3.22E-03	1.06E-03	1.059	0.900	3.41E-03	9.52E-04	2.80E+00	7.83E-01	2.52	7.83E-01

2.525	2.64E+00	8.713E-01	3.19E-03	1.05E-03	1.059	0.900	3.38E-03	9.43E-04	2.80E+00	7.84E-01	2.525	7.84E-01
2.53	2.65E+00	8.723E-01	3.21E-03	1.05E-03	1.059	0.900	3.40E-03	9.44E-04	2.80E+00	7.85E-01	2.53	7.85E-01
2.535	2.65E+00	8.734E-01	3.20E-03	1.07E-03	1.059	0.900	3.39E-03	9.62E-04	2.81E+00	7.86E-01	2.535	7.86E-01
2.54	2.65E+00	8.744E-01	3.20E-03	1.05E-03	1.059	0.900	3.39E-03	9.45E-04	2.81E+00	7.87E-01	2.54	7.87E-01
2.545	2.66E+00	8.755E-01	3.19E-03	1.06E-03	1.059	0.900	3.38E-03	9.55E-04	2.81E+00	7.88E-01	2.545	7.88E-01
2.55	2.66E+00	8.765E-01	3.21E-03	1.04E-03	1.059	0.900	3.40E-03	9.37E-04	2.82E+00	7.89E-01	2.55	7.89E-01
2.555	2.66E+00	8.776E-01	3.19E-03	1.06E-03	1.059	0.900	3.38E-03	9.56E-04	2.82E+00	7.90E-01	2.555	7.90E-01
2.56	2.67E+00	8.787E-01	3.19E-03	1.05E-03	1.059	0.900	3.38E-03	9.48E-04	2.82E+00	7.91E-01	2.56	7.91E-01
2.565	2.67E+00	8.797E-01	3.19E-03	1.05E-03	1.059	0.900	3.38E-03	9.48E-04	2.83E+00	7.92E-01	2.565	7.92E-01
2.57	2.67E+00	8.808E-01	3.20E-03	1.05E-03	1.059	0.900	3.39E-03	9.48E-04	2.83E+00	7.93E-01	2.57	7.93E-01
2.575	2.68E+00	8.818E-01	3.18E-03	1.05E-03	1.059	0.900	3.37E-03	9.49E-04	2.83E+00	7.94E-01	2.575	7.94E-01
2.58	2.68E+00	8.829E-01	3.19E-03	1.05E-03	1.059	0.900	3.38E-03	9.41E-04	2.84E+00	7.95E-01	2.58	7.95E-01
2.585	2.68E+00	8.839E-01	3.20E-03	1.05E-03	1.059	0.900	3.39E-03	9.41E-04	2.84E+00	7.96E-01	2.585	7.96E-01
2.59	2.69E+00	8.850E-01	3.18E-03	1.05E-03	1.059	0.900	3.36E-03	9.41E-04	2.84E+00	7.96E-01	2.59	7.96E-01
2.595	2.69E+00	8.860E-01	3.19E-03	1.07E-03	1.059	0.900	3.37E-03	9.60E-04	2.85E+00	7.97E-01	2.595	7.97E-01
2.6	2.69E+00	8.871E-01	3.19E-03	1.04E-03	1.059	0.900	3.37E-03	9.34E-04	2.85E+00	7.98E-01	2.6	7.98E-01
2.605	2.70E+00	8.881E-01	3.19E-03	1.06E-03	1.059	0.900	3.37E-03	9.52E-04	2.85E+00	7.99E-01	2.605	7.99E-01
2.61	2.70E+00	8.892E-01	3.20E-03	1.05E-03	1.059	0.900	3.38E-03	9.44E-04	2.86E+00	8.00E-01	2.61	8.00E-01
2.615	2.70E+00	8.902E-01	3.19E-03	1.05E-03	1.059	0.900	3.37E-03	9.45E-04	2.86E+00	8.01E-01	2.615	8.01E-01
2.62	2.71E+00	8.913E-01	3.19E-03	1.05E-03	1.059	0.900	3.37E-03	9.45E-04	2.86E+00	8.02E-01	2.62	8.02E-01
2.625	2.71E+00	8.923E-01	3.19E-03	1.04E-03	1.059	0.900	3.37E-03	9.36E-04	2.87E+00	8.03E-01	2.625	8.03E-01
2.63	2.71E+00	8.934E-01	3.19E-03	1.05E-03	1.059	0.900	3.37E-03	9.46E-04	2.87E+00	8.04E-01	2.63	8.04E-01
2.635	2.72E+00	8.944E-01	3.18E-03	1.05E-03	1.059	0.900	3.36E-03	9.47E-04	2.87E+00	8.05E-01	2.635	8.05E-01
2.64	2.72E+00	8.955E-01	3.17E-03	1.04E-03	1.059	0.900	3.35E-03	9.38E-04	2.88E+00	8.06E-01	2.64	8.06E-01
2.645	2.72E+00	8.965E-01	3.19E-03	1.03E-03	1.059	0.900	3.37E-03	9.30E-04	2.88E+00	8.07E-01	2.645	8.07E-01
2.65	2.72E+00	8.976E-01	3.19E-03	1.06E-03	1.059	0.900	3.37E-03	9.57E-04	2.89E+00	8.08E-01	2.65	8.08E-01
2.655	2.73E+00	8.986E-01	3.18E-03	1.04E-03	1.059	0.900	3.36E-03	9.40E-04	2.89E+00	8.09E-01	2.655	8.09E-01
2.66	2.73E+00	8.996E-01	3.17E-03	1.04E-03	1.059	0.900	3.35E-03	9.40E-04	2.89E+00	8.10E-01	2.66	8.10E-01
2.665	2.73E+00	9.007E-01	3.18E-03	1.05E-03	1.059	0.900	3.36E-03	9.41E-04	2.90E+00	8.11E-01	2.665	8.11E-01
2.67	2.74E+00	9.017E-01	3.17E-03	1.04E-03	1.059	0.900	3.35E-03	9.32E-04	2.90E+00	8.12E-01	2.67	8.12E-01
2.675	2.74E+00	9.028E-01	3.16E-03	1.05E-03	1.059	0.900	3.34E-03	9.42E-04	2.90E+00	8.13E-01	2.675	8.13E-01
2.68	2.74E+00	9.038E-01	3.17E-03	1.05E-03	1.059	0.900	3.35E-03	9.42E-04	2.91E+00	8.13E-01	2.68	8.13E-01
2.685	2.75E+00	9.049E-01	3.18E-03	1.04E-03	1.059	0.900	3.37E-03	9.34E-04	2.91E+00	8.14E-01	2.685	8.14E-01
2.69	2.75E+00	9.059E-01	3.16E-03	1.05E-03	1.059	0.900	3.34E-03	9.44E-04	2.91E+00	8.15E-01	2.69	8.15E-01

2.695	2.75E+00	9.070E-01	3.18E-03	1.04E-03	1.059	0.900	3.37E-03	9.35E-04	2.92E+00	8.16E-01	2.695		8.16E-01
2.7	2.76E+00	9.080E-01	3.15E-03	1.04E-03	1.059	0.900	3.33E-03	9.35E-04	2.92E+00	8.17E-01	2.7		8.17E-01
2.705	2.76E+00	9.090E-01	3.18E-03	1.05E-03	1.059	0.900	3.37E-03	9.45E-04	2.92E+00	8.18E-01	2.705		8.18E-01
2.71	2.76E+00	9.101E-01	3.15E-03	1.04E-03	1.059	0.900	3.33E-03	9.36E-04	2.93E+00	8.19E-01	2.71		8.19E-01
2.715	2.77E+00	9.111E-01	3.16E-03	1.04E-03	1.059	0.900	3.35E-03	9.37E-04	2.93E+00	8.20E-01	2.715		8.20E-01
2.72	2.77E+00	9.122E-01	3.16E-03	1.04E-03	1.059	0.900	3.34E-03	9.38E-04	2.93E+00	8.21E-01	2.72		8.21E-01
2.725	2.77E+00	9.132E-01	3.16E-03	1.03E-03	1.059	0.900	3.35E-03	9.29E-04	2.94E+00	8.22E-01	2.725		8.22E-01
2.73	2.78E+00	9.142E-01	3.16E-03	1.04E-03	1.059	0.900	3.35E-03	9.38E-04	2.94E+00	8.23E-01	2.73		8.23E-01
2.735	2.78E+00	9.153E-01	3.16E-03	1.04E-03	1.059	0.900	3.35E-03	9.40E-04	2.94E+00	8.24E-01	2.735		8.24E-01
2.74	2.78E+00	9.163E-01	3.15E-03	1.04E-03	1.059	0.900	3.34E-03	9.40E-04	2.95E+00	8.25E-01	2.74		8.25E-01
2.745	2.78E+00	9.174E-01	3.15E-03	1.03E-03	1.059	0.900	3.34E-03	9.23E-04	2.95E+00	8.26E-01	2.745		8.26E-01
2.75	2.79E+00	9.184E-01	3.15E-03	1.04E-03	1.059	0.900	3.34E-03	9.40E-04	2.95E+00	8.27E-01	2.75		8.27E-01
2.755	2.79E+00	9.194E-01	3.15E-03	1.03E-03	1.059	0.900	3.34E-03	9.23E-04	2.96E+00	8.27E-01	2.755		8.27E-01
2.76	2.79E+00	9.205E-01	3.16E-03	1.05E-03	1.059	0.900	3.35E-03	9.41E-04	2.96E+00	8.28E-01	2.76		8.28E-01
2.765	2.80E+00	9.215E-01	3.14E-03	1.05E-03	1.059	0.900	3.33E-03	9.42E-04	2.96E+00	8.29E-01	2.765		8.29E-01
2.77	2.80E+00	9.225E-01	3.15E-03	1.03E-03	1.059	0.900	3.34E-03	9.24E-04	2.97E+00	8.30E-01	2.77		8.30E-01
2.775	2.80E+00	9.236E-01	3.15E-03	1.04E-03	1.059	0.900	3.34E-03	9.34E-04	2.97E+00	8.31E-01	2.775		8.31E-01
2.78	2.81E+00	9.246E-01	3.14E-03	1.03E-03	1.059	0.900	3.33E-03	9.26E-04	2.97E+00	8.32E-01	2.78		8.32E-01
2.785	2.81E+00	9.257E-01	3.14E-03	1.04E-03	1.059	0.900	3.33E-03	9.35E-04	2.98E+00	8.33E-01	2.785		8.33E-01
2.79	2.81E+00	9.267E-01	3.13E-03	1.03E-03	1.059	0.900	3.32E-03	9.27E-04	2.98E+00	8.34E-01	2.79		8.34E-01
2.795	2.82E+00	9.277E-01	3.14E-03	1.04E-03	1.059	0.900	3.33E-03	9.36E-04	2.98E+00	8.35E-01	2.795		8.35E-01
2.8	2.82E+00	9.288E-01	3.14E-03	1.03E-03	1.059	0.900	3.33E-03	9.28E-04	2.99E+00	8.36E-01	2.8		8.36E-01
2.805	2.82E+00	9.298E-01	3.13E-03	1.03E-03	1.059	0.900	3.32E-03	9.28E-04	2.99E+00	8.37E-01	2.805		8.37E-01
2.81	2.83E+00	9.308E-01	3.14E-03	1.04E-03	1.059	0.900	3.33E-03	9.38E-04	2.99E+00	8.38E-01	2.81		8.38E-01
2.815	2.83E+00	9.319E-01	3.13E-03	1.03E-03	1.059	0.900	3.32E-03	9.29E-04	3.00E+00	8.39E-01	2.815		8.39E-01
2.82	2.83E+00	9.329E-01	3.14E-03	1.02E-03	1.059	0.900	3.33E-03	9.21E-04	3.00E+00	8.40E-01	2.82		8.40E-01
2.825	2.84E+00	9.339E-01	3.12E-03	1.04E-03	1.059	0.900	3.31E-03	9.39E-04	3.00E+00	8.41E-01	2.825		8.41E-01
2.83	2.84E+00	9.350E-01	3.14E-03	1.03E-03	1.059	0.900	3.33E-03	9.31E-04	3.01E+00	8.41E-01	2.83		8.41E-01
2.835	2.84E+00	9.360E-01	3.12E-03	1.03E-03	1.059	0.900	3.31E-03	9.31E-04	3.01E+00	8.42E-01	2.835		8.42E-01
2.84	2.84E+00	9.370E-01	3.12E-03	1.02E-03	1.059	0.900	3.31E-03	9.14E-04	3.01E+00	8.43E-01	2.84		8.43E-01
2.845	2.85E+00	9.380E-01	3.12E-03	1.04E-03	1.059	0.900	3.31E-03	9.32E-04	3.02E+00	8.44E-01	2.845		8.44E-01
2.85	2.85E+00	9.391E-01	3.13E-03	1.03E-03	1.059	0.900	3.32E-03	9.23E-04	3.02E+00	8.45E-01	2.85		8.45E-01
2.855	2.85E+00	9.401E-01	3.13E-03	1.05E-03	1.059	0.900	3.31E-03	9.42E-04	3.02E+00	8.46E-01	2.855		8.46E-01
2.86	2.86E+00	9.411E-01	3.12E-03	1.02E-03	1.059	0.900	3.31E-03	9.15E-04	3.03E+00	8.47E-01	2.86		8.47E-01

2.865	2.86E+00	9.422E-01	3.12E-03	1.04E-03	1.059	0.900	3.31E-03	9.34E-04	3.03E+00	8.48E-01	2.865	8.48E-01
2.87	2.86E+00	9.432E-01	3.12E-03	1.03E-03	1.059	0.900	3.30E-03	9.25E-04	3.03E+00	8.49E-01	2.87	8.49E-01
2.875	2.87E+00	9.442E-01	3.12E-03	1.02E-03	1.059	0.900	3.31E-03	9.17E-04	3.03E+00	8.50E-01	2.875	8.50E-01
2.88	2.87E+00	9.453E-01	3.11E-03	1.04E-03	1.059	0.900	3.30E-03	9.35E-04	3.04E+00	8.51E-01	2.88	8.51E-01
2.885	2.87E+00	9.463E-01	3.13E-03	1.02E-03	1.059	0.900	3.31E-03	9.18E-04	3.04E+00	8.52E-01	2.885	8.52E-01
2.89	2.88E+00	9.473E-01	3.12E-03	1.03E-03	1.059	0.900	3.30E-03	9.27E-04	3.04E+00	8.53E-01	2.89	8.53E-01
2.895	2.88E+00	9.483E-01	3.11E-03	1.02E-03	1.059	0.900	3.29E-03	9.19E-04	3.05E+00	8.53E-01	2.895	8.53E-01
2.9	2.88E+00	9.493E-01	3.12E-03	1.02E-03	1.059	0.900	3.30E-03	9.19E-04	3.05E+00	8.54E-01	2.9	8.54E-01
2.905	2.89E+00	9.504E-01	3.11E-03	1.03E-03	1.059	0.900	3.29E-03	9.28E-04	3.05E+00	8.55E-01	2.905	8.55E-01
2.91	2.89E+00	9.514E-01	3.12E-03	1.03E-03	1.059	0.900	3.30E-03	9.29E-04	3.06E+00	8.56E-01	2.91	8.56E-01
2.915	2.89E+00	9.524E-01	3.12E-03	1.02E-03	1.059	0.900	3.30E-03	9.20E-04	3.06E+00	8.57E-01	2.915	8.57E-01
2.92	2.89E+00	9.535E-01	3.10E-03	1.03E-03	1.059	0.900	3.28E-03	9.29E-04	3.06E+00	8.58E-01	2.92	8.58E-01
2.925	2.90E+00	9.545E-01	3.11E-03	1.00E-03	1.059	0.900	3.29E-03	9.03E-04	3.07E+00	8.59E-01	2.925	8.59E-01
2.93	2.90E+00	9.555E-01	3.12E-03	1.02E-03	1.059	0.900	3.30E-03	9.22E-04	3.07E+00	8.60E-01	2.93	8.60E-01
2.935	2.90E+00	9.565E-01	3.10E-03	1.03E-03	1.059	0.900	3.28E-03	9.30E-04	3.07E+00	8.61E-01	2.935	8.61E-01
2.94	2.91E+00	9.575E-01	3.11E-03	1.03E-03	1.059	0.900	3.29E-03	9.23E-04	3.08E+00	8.62E-01	2.94	8.62E-01
2.945	2.91E+00	9.586E-01	3.10E-03	1.01E-03	1.059	0.900	3.28E-03	9.13E-04	3.08E+00	8.63E-01	2.945	8.63E-01
2.95	2.91E+00	9.596E-01	3.10E-03	1.03E-03	1.059	0.900	3.28E-03	9.23E-04	3.08E+00	8.64E-01	2.95	8.64E-01
2.955	2.92E+00	9.606E-01	3.10E-03	1.01E-03	1.059	0.900	3.28E-03	9.05E-04	3.09E+00	8.65E-01	2.955	8.65E-01
2.96	2.92E+00	9.616E-01	3.09E-03	1.04E-03	1.059	0.900	3.27E-03	9.33E-04	3.09E+00	8.65E-01	2.96	8.65E-01
2.965	2.92E+00	9.627E-01	3.11E-03	1.03E-03	1.059	0.900	3.29E-03	9.24E-04	3.09E+00	8.66E-01	2.965	8.66E-01
2.97	2.93E+00	9.637E-01	3.09E-03	1.01E-03	1.059	0.900	3.27E-03	9.07E-04	3.10E+00	8.67E-01	2.97	8.67E-01
2.975	2.93E+00	9.647E-01	3.10E-03	1.03E-03	1.059	0.900	3.28E-03	9.25E-04	3.10E+00	8.68E-01	2.975	8.68E-01
2.98	2.93E+00	9.657E-01	3.09E-03	1.01E-03	1.059	0.900	3.27E-03	9.07E-04	3.10E+00	8.69E-01	2.98	8.69E-01
2.985	2.93E+00	9.667E-01	3.10E-03	1.03E-03	1.059	0.900	3.28E-03	9.26E-04	3.11E+00	8.70E-01	2.985	8.70E-01
2.99	2.94E+00	9.677E-01	3.09E-03	1.01E-03	1.059	0.900	3.27E-03	9.08E-04	3.11E+00	8.71E-01	2.99	8.71E-01
2.995	2.94E+00	9.688E-01	3.08E-03	1.02E-03	1.059	0.900	3.26E-03	9.17E-04	3.11E+00	8.72E-01	2.995	8.72E-01
3	2.94E+00	9.698E-01	3.09E-03	1.02E-03	1.059	0.900	3.27E-03	9.18E-04	3.12E+00	8.73E-01	3	8.73E-01
3.005	2.95E+00	9.708E-01	3.09E-03	1.01E-03	1.059	0.900	3.27E-03	9.09E-04	3.12E+00	8.74E-01	3.005	8.74E-01
3.01	2.95E+00	9.718E-01	3.07E-03	1.02E-03	1.059	0.900	3.25E-03	9.19E-04	3.12E+00	8.75E-01	3.01	8.75E-01
3.015	2.95E+00	9.728E-01	3.10E-03	1.02E-03	1.059	0.900	3.28E-03	9.19E-04	3.13E+00	8.76E-01	3.015	8.76E-01
3.02	2.96E+00	9.738E-01	3.07E-03	1.01E-03	1.059	0.900	3.25E-03	9.10E-04	3.13E+00	8.76E-01	3.02	8.76E-01
3.025	2.96E+00	9.748E-01	3.09E-03	1.00E-03	1.059	0.900	3.27E-03	9.02E-04	3.13E+00	8.77E-01	3.025	8.77E-01
3.03	2.96E+00	9.759E-01	3.06E-03	1.02E-03	1.059	0.900	3.24E-03	9.20E-04	3.14E+00	8.78E-01	3.03	8.78E-01

3.035	2.97E+00	9.769E-01	3.09E-03	1.01E-03	1.059	0.900	3.27E-03	9.11E-04	3.14E+00	8.79E-01	3.035	8.79E-01
3.04	2.97E+00	9.779E-01	3.08E-03	1.01E-03	1.059	0.900	3.26E-03	9.12E-04	3.14E+00	8.80E-01	3.04	8.80E-01
3.045	2.97E+00	9.789E-01	3.07E-03	1.01E-03	1.059	0.900	3.25E-03	9.12E-04	3.15E+00	8.81E-01	3.045	8.81E-01
3.05	2.97E+00	9.799E-01	3.06E-03	1.00E-03	1.059	0.900	3.24E-03	9.04E-04	3.15E+00	8.82E-01	3.05	8.82E-01
3.055	2.98E+00	9.809E-01	3.08E-03	1.01E-03	1.059	0.900	3.26E-03	9.12E-04	3.15E+00	8.83E-01	3.055	8.83E-01
3.06	2.98E+00	9.819E-01	3.06E-03	1.03E-03	1.059	0.900	3.24E-03	9.23E-04	3.16E+00	8.84E-01	3.06	8.84E-01
3.065	2.98E+00	9.829E-01	3.06E-03	1.00E-03	1.059	0.900	3.24E-03	9.04E-04	3.16E+00	8.85E-01	3.065	8.85E-01
3.07	2.99E+00	9.840E-01	3.08E-03	1.02E-03	1.059	0.900	3.26E-03	9.14E-04	3.16E+00	8.86E-01	3.07	8.86E-01
3.075	2.99E+00	9.850E-01	3.03E-03	1.02E-03	1.059	0.900	3.21E-03	9.14E-04	3.17E+00	8.86E-01	3.075	8.86E-01
3.08	2.99E+00	9.860E-01	3.12E-03	9.97E-04	1.059	0.900	3.31E-03	8.97E-04	3.17E+00	8.87E-01	3.08	8.87E-01
3.085	3.00E+00	9.870E-01	3.04E-03	1.02E-03	1.059	0.900	3.22E-03	9.15E-04	3.17E+00	8.88E-01	3.085	8.88E-01
3.09	3.00E+00	9.880E-01	3.02E-03	1.01E-03	1.059	0.900	3.20E-03	9.06E-04	3.18E+00	8.89E-01	3.09	8.89E-01
3.095	3.00E+00	9.890E-01	3.14E-03	1.01E-03	1.059	0.900	3.33E-03	9.06E-04	3.18E+00	8.90E-01	3.095	8.90E-01
3.1	3.01E+00	9.900E-01	3.02E-03	1.01E-03	1.059	0.900	3.20E-03	9.07E-04	3.18E+00	8.91E-01	3.1	8.91E-01
3.105	3.01E+00	9.910E-01	3.03E-03	9.99E-04	1.059	0.900	3.21E-03	8.99E-04	3.19E+00	8.92E-01	3.105	8.92E-01
3.11	3.01E+00	9.920E-01	3.02E-03	1.01E-03	1.059	0.900	3.20E-03	9.07E-04	3.19E+00	8.93E-01	3.11	8.93E-01
3.115	3.01E+00	9.930E-01	3.12E-03	9.99E-04	1.059	0.900	3.31E-03	8.99E-04	3.19E+00	8.94E-01	3.115	8.94E-01
3.12	3.02E+00	9.940E-01	3.07E-03	1.02E-03	1.059	0.900	3.25E-03	9.17E-04	3.20E+00	8.95E-01	3.12	8.95E-01
3.125	3.02E+00	9.950E-01	3.03E-03	1.00E-03	1.059	0.900	3.21E-03	9.00E-04	3.20E+00	8.96E-01	3.125	8.96E-01
3.13	3.02E+00	9.960E-01	3.03E-03	1.00E-03	1.059	0.900	3.21E-03	9.00E-04	3.20E+00	8.96E-01	3.13	8.96E-01
3.135	3.03E+00	9.971E-01	3.03E-03	1.01E-03	1.059	0.900	3.21E-03	9.09E-04	3.20E+00	8.97E-01	3.135	8.97E-01
3.14	3.03E+00	9.981E-01	3.03E-03	1.00E-03	1.059	0.900	3.21E-03	9.01E-04	3.21E+00	8.98E-01	3.14	8.98E-01
3.145	3.03E+00	9.991E-01	3.03E-03	1.01E-03	1.059	0.900	3.21E-03	9.09E-04	3.21E+00	8.99E-01	3.145	8.99E-01
3.15	3.04E+00	1.000E+00	3.04E-03	1.00E-03	1.059	0.900	3.21E-03	9.02E-04	3.21E+00	9.00E-01	3.15	9.00E-01
3.155	3.04E+00	1.001E+00	3.03E-03	1.00E-03	1.059	0.900	3.21E-03	9.01E-04	3.22E+00	9.01E-01	3.155	9.01E-01
3.16	3.04E+00	1.002E+00	3.03E-03	1.00E-03	1.059	0.900	3.21E-03	9.02E-04	3.22E+00	9.02E-01	3.16	9.02E-01
3.165	3.05E+00	1.003E+00	3.13E-03	9.93E-04	1.059	0.900	3.32E-03	8.93E-04	3.22E+00	9.03E-01	3.165	9.03E-01
3.17	3.05E+00	1.004E+00	3.05E-03	1.00E-03	1.059	0.900	3.22E-03	9.02E-04	3.23E+00	9.04E-01	3.17	9.04E-01
3.175	3.05E+00	1.005E+00	3.03E-03	9.94E-04	1.059	0.900	3.21E-03	8.94E-04	3.23E+00	9.05E-01	3.175	9.05E-01
3.18	3.05E+00	1.006E+00	3.04E-03	1.00E-03	1.059	0.900	3.21E-03	9.04E-04	3.23E+00	9.05E-01	3.18	9.05E-01
3.185	3.06E+00	1.007E+00	3.04E-03	9.94E-04	1.059	0.900	3.21E-03	8.94E-04	3.24E+00	9.06E-01	3.185	9.06E-01
3.19	3.06E+00	1.008E+00	2.94E-03	1.02E-03	1.059	0.900	3.11E-03	9.14E-04	3.24E+00	9.07E-01	3.19	9.07E-01
3.195	3.06E+00	1.009E+00	3.04E-03	9.95E-04	1.059	0.900	3.21E-03	8.95E-04	3.24E+00	9.08E-01	3.195	9.08E-01
3.2	3.07E+00	1.010E+00	3.04E-03	1.01E-03	1.059	0.900	3.21E-03	9.05E-04	3.25E+00	9.09E-01	3.2	9.09E-01

3.205	3.07E+00	1.011E+00	3.05E-03	9.85E-04	1.059	0.900	3.23E-03	8.87E-04	3.25E+00	9.10E-01	3.205		9.10E-01
3.21	3.07E+00	1.012E+00	3.04E-03	1.01E-03	1.059	0.900	3.21E-03	9.05E-04	3.25E+00	9.11E-01	3.21		9.11E-01
3.215	3.08E+00	1.013E+00	3.04E-03	9.85E-04	1.059	0.900	3.21E-03	8.87E-04	3.26E+00	9.12E-01	3.215		9.12E-01
3.22	3.08E+00	1.014E+00	3.05E-03	9.95E-04	1.059	0.900	3.23E-03	8.96E-04	3.26E+00	9.13E-01	3.22		9.13E-01
3.225	3.08E+00	1.015E+00	2.95E-03	1.02E-03	1.059	0.900	3.12E-03	9.14E-04	3.26E+00	9.14E-01	3.225		9.14E-01
3.23	3.08E+00	1.016E+00	3.03E-03	9.85E-04	1.059	0.900	3.21E-03	8.87E-04	3.27E+00	9.14E-01	3.23		9.14E-01
3.235	3.09E+00	1.017E+00	3.05E-03	9.95E-04	1.059	0.900	3.23E-03	8.96E-04	3.27E+00	9.15E-01	3.235		9.15E-01
3.24	3.09E+00	1.018E+00	3.05E-03	9.95E-04	1.059	0.900	3.23E-03	8.96E-04	3.27E+00	9.16E-01	3.24		9.16E-01
3.245	3.09E+00	1.019E+00	3.04E-03	9.96E-04	1.059	0.900	3.22E-03	8.96E-04	3.28E+00	9.17E-01	3.245		9.17E-01
3.25	3.10E+00	1.020E+00	2.94E-03	9.86E-04	1.059	0.900	3.11E-03	8.87E-04	3.28E+00	9.18E-01	3.25		9.18E-01
3.255	3.10E+00	1.021E+00	3.05E-03	9.96E-04	1.059	0.900	3.23E-03	8.96E-04	3.28E+00	9.19E-01	3.255		9.19E-01
3.26	3.10E+00	1.022E+00	3.05E-03	1.01E-03	1.059	0.900	3.23E-03	9.05E-04	3.29E+00	9.20E-01	3.26		9.20E-01
3.265	3.11E+00	1.023E+00	3.04E-03	9.86E-04	1.059	0.900	3.22E-03	8.87E-04	3.29E+00	9.21E-01	3.265		9.21E-01
3.27	3.11E+00	1.024E+00	2.95E-03	9.86E-04	1.059	0.900	3.12E-03	8.87E-04	3.29E+00	9.22E-01	3.27		9.22E-01
3.275	3.11E+00	1.025E+00	3.03E-03	9.96E-04	1.059	0.900	3.21E-03	8.96E-04	3.29E+00	9.22E-01	3.275		9.22E-01
3.28	3.11E+00	1.026E+00	3.05E-03	9.86E-04	1.059	0.900	3.23E-03	8.87E-04	3.30E+00	9.23E-01	3.28		9.23E-01
3.285	3.12E+00	1.027E+00	3.05E-03	9.96E-04	1.059	0.900	3.23E-03	8.96E-04	3.30E+00	9.24E-01	3.285		9.24E-01
3.29	3.12E+00	1.028E+00	2.95E-03	9.76E-04	1.059	0.900	3.12E-03	8.78E-04	3.30E+00	9.25E-01	3.29		9.25E-01
3.295	3.12E+00	1.029E+00	2.94E-03	9.96E-04	1.059	0.900	3.11E-03	8.96E-04	3.31E+00	9.26E-01	3.295		9.26E-01
3.3	3.13E+00	1.030E+00	3.05E-03	9.96E-04	1.059	0.900	3.23E-03	8.96E-04	3.31E+00	9.27E-01	3.3		9.27E-01
3.305	3.13E+00	1.031E+00	3.04E-03	9.86E-04	1.059	0.900	3.22E-03	8.88E-04	3.31E+00	9.28E-01	3.305		9.28E-01
3.31	3.13E+00	1.032E+00	2.95E-03	9.96E-04	1.059	0.900	3.12E-03	8.97E-04	3.32E+00	9.29E-01	3.31		9.29E-01
3.315	3.14E+00	1.033E+00	3.05E-03	9.76E-04	1.059	0.900	3.23E-03	8.79E-04	3.32E+00	9.30E-01	3.315		9.30E-01
3.32	3.14E+00	1.034E+00	3.04E-03	9.86E-04	1.059	0.900	3.22E-03	8.88E-04	3.32E+00	9.30E-01	3.32		9.30E-01
3.325	3.14E+00	1.035E+00	2.85E-03	9.96E-04	1.059	0.900	3.02E-03	8.97E-04	3.33E+00	9.31E-01	3.325		9.31E-01
3.33	3.14E+00	1.036E+00	3.05E-03	9.86E-04	1.059	0.900	3.23E-03	8.88E-04	3.33E+00	9.32E-01	3.33		9.32E-01
3.335	3.15E+00	1.037E+00	3.05E-03	9.76E-04	1.059	0.900	3.23E-03	8.79E-04	3.33E+00	9.33E-01	3.335		9.33E-01
3.34	3.15E+00	1.038E+00	2.94E-03	9.76E-04	1.059	0.900	3.11E-03	8.79E-04	3.34E+00	9.34E-01	3.34		9.34E-01
3.345	3.15E+00	1.039E+00	2.95E-03	9.87E-04	1.059	0.900	3.12E-03	8.88E-04	3.34E+00	9.35E-01	3.345		9.35E-01
3.35	3.16E+00	1.040E+00	3.05E-03	9.97E-04	1.059	0.900	3.23E-03	8.97E-04	3.34E+00	9.36E-01	3.35		9.36E-01
3.355	3.16E+00	1.041E+00	2.95E-03	9.87E-04	1.059	0.900	3.12E-03	8.88E-04	3.35E+00	9.37E-01	3.355		9.37E-01
3.36	3.16E+00	1.042E+00	3.04E-03	9.77E-04	1.059	0.900	3.22E-03	8.79E-04	3.35E+00	9.38E-01	3.36		9.38E-01
3.365	3.17E+00	1.043E+00	2.85E-03	9.77E-04	1.059	0.900	3.02E-03	8.79E-04	3.35E+00	9.38E-01	3.365		9.38E-01
3.37	3.17E+00	1.044E+00	3.05E-03	9.87E-04	1.059	0.900	3.23E-03	8.88E-04	3.35E+00	9.39E-01	3.37		9.39E-01

3.375	3.17E+00	1.045E+00	3.04E-03	9.77E-04	1.059	0.900	3.22E-03	8.79E-04	3.36E+00	9.40E-01	3.375	9.40E-01
3.38	3.17E+00	1.046E+00	2.85E-03	9.77E-04	1.059	0.900	3.02E-03	8.79E-04	3.36E+00	9.41E-01	3.38	9.41E-01
3.385	3.18E+00	1.047E+00	3.05E-03	9.87E-04	1.059	0.900	3.23E-03	8.88E-04	3.36E+00	9.42E-01	3.385	9.42E-01
3.39	3.18E+00	1.048E+00	3.05E-03	9.77E-04	1.059	0.900	3.23E-03	8.79E-04	3.37E+00	9.43E-01	3.39	9.43E-01
3.395	3.18E+00	1.049E+00	2.85E-03	9.87E-04	1.059	0.900	3.02E-03	8.88E-04	3.37E+00	9.44E-01	3.395	9.44E-01
3.4	3.19E+00	1.050E+00	3.04E-03	9.87E-04	1.059	0.900	3.22E-03	8.88E-04	3.37E+00	9.45E-01	3.4	9.45E-01
3.405	3.19E+00	1.051E+00	2.95E-03	9.67E-04	1.059	0.900	3.13E-03	8.70E-04	3.38E+00	9.46E-01	3.405	9.46E-01
3.41	3.19E+00	1.052E+00	2.95E-03	9.87E-04	1.059	0.900	3.13E-03	8.88E-04	3.38E+00	9.46E-01	3.41	9.46E-01
3.415	3.20E+00	1.053E+00	2.95E-03	9.67E-04	1.059	0.900	3.13E-03	8.71E-04	3.38E+00	9.47E-01	3.415	9.47E-01
3.42	3.20E+00	1.054E+00	2.94E-03	9.77E-04	1.059	0.900	3.12E-03	8.80E-04	3.39E+00	9.48E-01	3.42	9.48E-01
3.425	3.20E+00	1.054E+00	2.95E-03	9.77E-04	1.059	0.900	3.13E-03	8.80E-04	3.39E+00	9.49E-01	3.425	9.49E-01
3.43	3.20E+00	1.055E+00	3.05E-03	9.87E-04	1.059	0.900	3.23E-03	8.89E-04	3.39E+00	9.50E-01	3.43	9.50E-01
3.435	3.21E+00	1.056E+00	2.95E-03	9.68E-04	1.059	0.900	3.13E-03	8.71E-04	3.40E+00	9.51E-01	3.435	9.51E-01
3.44	3.21E+00	1.057E+00	2.95E-03	9.68E-04	1.059	0.900	3.13E-03	8.71E-04	3.40E+00	9.52E-01	3.44	9.52E-01
3.445	3.21E+00	1.058E+00	2.95E-03	9.78E-04	1.059	0.900	3.13E-03	8.80E-04	3.40E+00	9.53E-01	3.445	9.53E-01
3.45	3.22E+00	1.059E+00	2.95E-03	9.78E-04	1.059	0.900	3.13E-03	8.80E-04	3.41E+00	9.53E-01	3.45	9.53E-01
3.455	3.22E+00	1.060E+00	2.95E-03	9.78E-04	1.059	0.900	3.13E-03	8.80E-04	3.41E+00	9.54E-01	3.455	9.54E-01
3.46	3.22E+00	1.061E+00	2.95E-03	9.68E-04	1.059	0.900	3.13E-03	8.71E-04	3.41E+00	9.55E-01	3.46	9.55E-01
3.465	3.22E+00	1.062E+00	2.95E-03	9.78E-04	1.059	0.900	3.13E-03	8.80E-04	3.41E+00	9.56E-01	3.465	9.56E-01
3.47	3.23E+00	1.063E+00	2.95E-03	9.78E-04	1.059	0.900	3.12E-03	8.80E-04	3.42E+00	9.57E-01	3.47	9.57E-01
3.475	3.23E+00	1.064E+00	2.95E-03	9.68E-04	1.059	0.900	3.13E-03	8.71E-04	3.42E+00	9.58E-01	3.475	9.58E-01
3.48	3.23E+00	1.065E+00	2.96E-03	9.68E-04	1.059	0.900	3.13E-03	8.71E-04	3.42E+00	9.59E-01	3.48	9.59E-01
3.485	3.24E+00	1.066E+00	2.95E-03	9.58E-04	1.059	0.900	3.13E-03	8.62E-04	3.43E+00	9.60E-01	3.485	9.60E-01
3.49	3.24E+00	1.067E+00	2.96E-03	9.78E-04	1.059	0.900	3.13E-03	8.80E-04	3.43E+00	9.60E-01	3.49	9.60E-01
3.495	3.24E+00	1.068E+00	2.86E-03	9.68E-04	1.059	0.900	3.02E-03	8.71E-04	3.43E+00	9.61E-01	3.495	9.61E-01
3.5	3.25E+00	1.069E+00	3.06E-03	9.78E-04	1.059	0.900	3.23E-03	8.80E-04	3.44E+00	9.62E-01	3.5	9.62E-01
3.505	3.25E+00	1.070E+00	2.86E-03	9.58E-04	1.059	0.900	3.02E-03	8.62E-04	3.44E+00	9.63E-01	3.505	9.63E-01
3.51	3.25E+00	1.071E+00	2.95E-03	9.68E-04	1.059	0.900	3.13E-03	8.71E-04	3.44E+00	9.64E-01	3.51	9.64E-01
3.515	3.25E+00	1.072E+00	2.95E-03	9.78E-04	1.059	0.900	3.12E-03	8.80E-04	3.45E+00	9.65E-01	3.515	9.65E-01
3.52	3.26E+00	1.073E+00	2.96E-03	9.58E-04	1.059	0.900	3.13E-03	8.63E-04	3.45E+00	9.66E-01	3.52	9.66E-01
3.525	3.26E+00	1.074E+00	2.96E-03	9.68E-04	1.059	0.900	3.13E-03	8.72E-04	3.45E+00	9.67E-01	3.525	9.67E-01
3.53	3.26E+00	1.075E+00	2.85E-03	9.58E-04	1.059	0.900	3.01E-03	8.63E-04	3.45E+00	9.67E-01	3.53	9.67E-01
3.535	3.27E+00	1.076E+00	2.97E-03	9.68E-04	1.059	0.900	3.14E-03	8.72E-04	3.46E+00	9.68E-01	3.535	9.68E-01
3.54	3.27E+00	1.077E+00	2.95E-03	9.69E-04	1.059	0.900	3.12E-03	8.72E-04	3.46E+00	9.69E-01	3.54	9.69E-01

3.545	3.27E+00	1.078E+00	2.97E-03	9.59E-04	1.059	0.900	3.14E-03	8.63E-04	3.46E+00	9.70E-01	3.545	9.70E-01
3.55	3.27E+00	1.079E+00	2.85E-03	9.69E-04	1.059	0.900	3.01E-03	8.72E-04	3.47E+00	9.71E-01	3.55	9.71E-01
3.555	3.28E+00	1.080E+00	2.97E-03	9.69E-04	1.059	0.900	3.14E-03	8.72E-04	3.47E+00	9.72E-01	3.555	9.72E-01
3.56	3.28E+00	1.081E+00	2.95E-03	9.69E-04	1.059	0.900	3.12E-03	8.72E-04	3.47E+00	9.73E-01	3.56	9.73E-01
3.565	3.28E+00	1.082E+00	2.86E-03	9.49E-04	1.059	0.900	3.03E-03	8.54E-04	3.48E+00	9.73E-01	3.565	9.73E-01
3.57	3.29E+00	1.083E+00	3.05E-03	9.69E-04	1.059	0.900	3.23E-03	8.72E-04	3.48E+00	9.74E-01	3.57	9.74E-01
3.575	3.29E+00	1.084E+00	2.86E-03	9.69E-04	1.059	0.900	3.03E-03	8.72E-04	3.48E+00	9.75E-01	3.575	9.75E-01
3.58	3.29E+00	1.085E+00	2.86E-03	9.69E-04	1.059	0.900	3.03E-03	8.72E-04	3.49E+00	9.76E-01	3.58	9.76E-01
3.585	3.30E+00	1.085E+00	2.96E-03	9.49E-04	1.059	0.900	3.13E-03	8.54E-04	3.49E+00	9.77E-01	3.585	9.77E-01
3.59	3.30E+00	1.086E+00	2.96E-03	9.49E-04	1.059	0.900	3.13E-03	8.54E-04	3.49E+00	9.78E-01	3.59	9.78E-01
3.595	3.30E+00	1.087E+00	2.86E-03	9.59E-04	1.059	0.900	3.03E-03	8.63E-04	3.50E+00	9.79E-01	3.595	9.79E-01
3.6	3.30E+00	1.088E+00	2.96E-03	9.79E-04	1.059	0.900	3.13E-03	8.81E-04	3.50E+00	9.80E-01	3.6	9.80E-01
3.605	3.31E+00	1.089E+00	2.85E-03	9.59E-04	1.059	0.900	3.02E-03	8.63E-04	3.50E+00	9.80E-01	3.605	9.80E-01
3.61	3.31E+00	1.090E+00	2.96E-03	9.49E-04	1.059	0.900	3.13E-03	8.54E-04	3.50E+00	9.81E-01	3.61	9.81E-01
3.615	3.31E+00	1.091E+00	2.96E-03	9.59E-04	1.059	0.900	3.13E-03	8.63E-04	3.51E+00	9.82E-01	3.615	9.82E-01
3.62	3.32E+00	1.092E+00	2.85E-03	9.59E-04	1.059	0.900	3.02E-03	8.63E-04	3.51E+00	9.83E-01	3.62	9.83E-01
3.625	3.32E+00	1.093E+00	2.87E-03	9.59E-04	1.059	0.900	3.04E-03	8.63E-04	3.51E+00	9.84E-01	3.625	9.84E-01
3.63	3.32E+00	1.094E+00	2.85E-03	9.60E-04	1.059	0.900	3.02E-03	8.64E-04	3.52E+00	9.85E-01	3.63	9.85E-01
3.635	3.32E+00	1.095E+00	2.95E-03	9.59E-04	1.059	0.900	3.12E-03	8.63E-04	3.52E+00	9.86E-01	3.635	9.86E-01
3.64	3.33E+00	1.096E+00	2.97E-03	9.40E-04	1.059	0.900	3.14E-03	8.46E-04	3.52E+00	9.86E-01	3.64	9.86E-01
3.645	3.33E+00	1.097E+00	2.85E-03	9.60E-04	1.059	0.900	3.02E-03	8.64E-04	3.53E+00	9.87E-01	3.645	9.87E-01
3.65	3.33E+00	1.098E+00	2.96E-03	9.50E-04	1.059	0.900	3.13E-03	8.55E-04	3.53E+00	9.88E-01	3.65	9.88E-01
3.655	3.34E+00	1.099E+00	2.85E-03	9.60E-04	1.059	0.900	3.02E-03	8.64E-04	3.53E+00	9.89E-01	3.655	9.89E-01
3.66	3.34E+00	1.100E+00	2.86E-03	9.50E-04	1.059	0.900	3.03E-03	8.55E-04	3.54E+00	9.90E-01	3.66	9.90E-01
3.665	3.34E+00	1.101E+00	2.86E-03	9.50E-04	1.059	0.900	3.03E-03	8.55E-04	3.54E+00	9.91E-01	3.665	9.91E-01
3.67	3.34E+00	1.102E+00	2.85E-03	9.50E-04	1.059	0.900	3.02E-03	8.55E-04	3.54E+00	9.92E-01	3.67	9.92E-01
3.675	3.35E+00	1.103E+00	2.96E-03	9.70E-04	1.059	0.900	3.14E-03	8.73E-04	3.54E+00	9.92E-01	3.675	9.92E-01
3.68	3.35E+00	1.104E+00	2.96E-03	9.40E-04	1.059	0.900	3.14E-03	8.46E-04	3.55E+00	9.93E-01	3.68	9.93E-01
3.685	3.35E+00	1.105E+00	2.86E-03	9.60E-04	1.059	0.900	3.03E-03	8.64E-04	3.55E+00	9.94E-01	3.685	9.94E-01
3.69	3.36E+00	1.106E+00	2.85E-03	9.40E-04	1.059	0.900	3.02E-03	8.46E-04	3.55E+00	9.95E-01	3.69	9.95E-01
3.695	3.36E+00	1.106E+00	2.96E-03	9.50E-04	1.059	0.900	3.14E-03	8.55E-04	3.56E+00	9.96E-01	3.695	9.96E-01
3.7	3.36E+00	1.107E+00	2.86E-03	9.40E-04	1.059	0.900	3.03E-03	8.46E-04	3.56E+00	9.97E-01	3.7	9.97E-01
3.705	3.36E+00	1.108E+00	2.85E-03	9.60E-04	1.059	0.900	3.02E-03	8.64E-04	3.56E+00	9.98E-01	3.705	9.98E-01
3.71	3.37E+00	1.109E+00	2.86E-03	9.50E-04	1.059	0.900	3.03E-03	8.55E-04	3.57E+00	9.98E-01	3.71	9.98E-01

3.715	3.37E+00	1.110E+00	2.85E-03	9.50E-04	1.059	0.900	3.02E-03	8.55E-04	3.57E+00	9.99E-01	3.715	9.99E-01
3.72	3.37E+00	1.111E+00	2.95E-03	9.30E-04	1.059	0.900	3.13E-03	8.37E-04	3.57E+00	1.00E+00	3.72	1.00E+00
3.725	3.38E+00	1.112E+00	2.86E-03	9.50E-04	1.059	0.900	3.03E-03	8.55E-04	3.57E+00	1.00E+00	3.725	1.00E+00
3.73	3.38E+00	1.113E+00	2.86E-03	9.61E-04	1.059	0.900	3.03E-03	8.64E-04	3.58E+00	1.00E+00	3.73	1.00E+00
3.735	3.38E+00	1.114E+00	2.85E-03	9.40E-04	1.059	0.900	3.02E-03	8.46E-04	3.58E+00	1.00E+00	3.735	1.00E+00
3.74	3.38E+00	1.115E+00	2.85E-03	9.41E-04	1.059	0.900	3.02E-03	8.46E-04	3.58E+00	1.00E+00	3.74	1.00E+00
3.745	3.39E+00	1.116E+00	2.86E-03	9.51E-04	1.059	0.900	3.03E-03	8.56E-04	3.59E+00	1.00E+00	3.745	1.00E+00
3.75	3.39E+00	1.117E+00	2.85E-03	9.51E-04	1.059	0.900	3.02E-03	8.56E-04	3.59E+00	1.01E+00	3.75	1.01E+00
3.755	3.39E+00	1.118E+00	2.96E-03	9.41E-04	1.059	0.900	3.14E-03	8.47E-04	3.59E+00	1.01E+00	3.755	1.01E+00
3.76	3.40E+00	1.119E+00	2.85E-03	9.41E-04	1.059	0.900	3.02E-03	8.47E-04	3.60E+00	1.01E+00	3.76	1.01E+00
3.765	3.40E+00	1.120E+00	2.76E-03	9.31E-04	1.059	0.900	2.93E-03	8.38E-04	3.60E+00	1.01E+00	3.765	1.01E+00
3.77	3.40E+00	1.121E+00	2.85E-03	9.51E-04	1.059	0.900	3.02E-03	8.56E-04	3.60E+00	1.01E+00	3.77	1.01E+00
3.775	3.40E+00	1.122E+00	2.86E-03	9.41E-04	1.059	0.900	3.03E-03	8.47E-04	3.61E+00	1.01E+00	3.775	1.01E+00
3.78	3.41E+00	1.123E+00	2.84E-03	9.41E-04	1.059	0.900	3.01E-03	8.47E-04	3.61E+00	1.01E+00	3.78	1.01E+00
3.785	3.41E+00	1.124E+00	2.86E-03	9.41E-04	1.059	0.900	3.03E-03	8.47E-04	3.61E+00	1.01E+00	3.785	1.01E+00
3.79	3.41E+00	1.124E+00	2.85E-03	9.41E-04	1.059	0.900	3.02E-03	8.47E-04	3.61E+00	1.01E+00	3.79	1.01E+00
3.795	3.42E+00	1.125E+00	2.97E-03	9.41E-04	1.059	0.900	3.14E-03	8.47E-04	3.62E+00	1.01E+00	3.795	1.01E+00
3.8	3.42E+00	1.126E+00	2.84E-03	9.41E-04	1.059	0.900	3.01E-03	8.47E-04	3.62E+00	1.01E+00	3.8	1.01E+00
3.805	3.42E+00	1.127E+00	2.86E-03	9.31E-04	1.059	0.900	3.03E-03	8.38E-04	3.62E+00	1.01E+00	3.805	1.01E+00
3.81	3.42E+00	1.128E+00	2.76E-03	9.51E-04	1.059	0.900	2.92E-03	8.56E-04	3.63E+00	1.02E+00	3.81	1.02E+00
3.815	3.43E+00	1.129E+00	2.85E-03	9.21E-04	1.059	0.900	3.02E-03	8.29E-04	3.63E+00	1.02E+00	3.815	1.02E+00
3.82	3.43E+00	1.130E+00	2.86E-03	9.51E-04	1.059	0.900	3.03E-03	8.56E-04	3.63E+00	1.02E+00	3.82	1.02E+00
3.825	3.43E+00	1.131E+00	2.85E-03	9.31E-04	1.059	0.900	3.02E-03	8.38E-04	3.64E+00	1.02E+00	3.825	1.02E+00
3.83	3.44E+00	1.132E+00	2.86E-03	9.41E-04	1.059	0.900	3.02E-03	8.47E-04	3.64E+00	1.02E+00	3.83	1.02E+00
3.835	3.44E+00	1.133E+00	2.75E-03	9.31E-04	1.059	0.900	2.92E-03	8.38E-04	3.64E+00	1.02E+00	3.835	1.02E+00
3.84	3.44E+00	1.134E+00	2.86E-03	9.41E-04	1.059	0.900	3.02E-03	8.47E-04	3.64E+00	1.02E+00	3.84	1.02E+00
3.845	3.44E+00	1.135E+00	2.86E-03	9.32E-04	1.059	0.900	3.02E-03	8.38E-04	3.65E+00	1.02E+00	3.845	1.02E+00
3.85	3.45E+00	1.136E+00	2.87E-03	9.32E-04	1.059	0.900	3.03E-03	8.38E-04	3.65E+00	1.02E+00	3.85	1.02E+00
3.855	3.45E+00	1.137E+00	2.86E-03	9.42E-04	1.059	0.900	3.02E-03	8.47E-04	3.65E+00	1.02E+00	3.855	1.02E+00
3.86	3.45E+00	1.138E+00	2.75E-03	9.22E-04	1.059	0.900	2.91E-03	8.29E-04	3.66E+00	1.02E+00	3.86	1.02E+00
3.865	3.46E+00	1.138E+00	2.86E-03	9.42E-04	1.059	0.900	3.02E-03	8.48E-04	3.66E+00	1.02E+00	3.865	1.02E+00
3.87	3.46E+00	1.139E+00	2.86E-03	9.12E-04	1.059	0.900	3.03E-03	8.21E-04	3.66E+00	1.03E+00	3.87	1.03E+00
3.875	3.46E+00	1.140E+00	2.77E-03	9.52E-04	1.059	0.900	2.93E-03	8.57E-04	3.67E+00	1.03E+00	3.875	1.03E+00
3.88	3.46E+00	1.141E+00	2.85E-03	9.32E-04	1.059	0.900	3.01E-03	8.39E-04	3.67E+00	1.03E+00	3.88	1.03E+00

3.885	3.47E+00	1.142E+00	2.87E-03	9.22E-04	1.059	0.900	3.03E-03	8.30E-04	3.67E+00	1.03E+00	3.885		1.03E+00
3.89	3.47E+00	1.143E+00	2.85E-03	9.32E-04	1.059	0.900	3.01E-03	8.39E-04	3.67E+00	1.03E+00	3.89		1.03E+00
3.895	3.47E+00	1.144E+00	2.75E-03	9.32E-04	1.059	0.900	2.91E-03	8.39E-04	3.68E+00	1.03E+00	3.895		1.03E+00
3.9	3.48E+00	1.145E+00	2.87E-03	9.22E-04	1.059	0.900	3.04E-03	8.30E-04	3.68E+00	1.03E+00	3.9		1.03E+00
3.905	3.48E+00	1.146E+00	2.85E-03	9.32E-04	1.059	0.900	3.02E-03	8.39E-04	3.68E+00	1.03E+00	3.905		1.03E+00
3.91	3.48E+00	1.147E+00	2.76E-03	9.32E-04	1.059	0.900	2.92E-03	8.39E-04	3.69E+00	1.03E+00	3.91		1.03E+00
3.915	3.48E+00	1.148E+00	2.87E-03	9.22E-04	1.059	0.900	3.04E-03	8.30E-04	3.69E+00	1.03E+00	3.915		1.03E+00
3.92	3.49E+00	1.149E+00	2.85E-03	9.22E-04	1.059	0.900	3.02E-03	8.30E-04	3.69E+00	1.03E+00	3.92		1.03E+00
3.925	3.49E+00	1.150E+00	2.76E-03	9.22E-04	1.059	0.900	2.92E-03	8.30E-04	3.70E+00	1.03E+00	3.925		1.03E+00
3.93	3.49E+00	1.151E+00	2.85E-03	9.32E-04	1.059	0.900	3.02E-03	8.39E-04	3.70E+00	1.04E+00	3.93		1.04E+00
3.935	3.50E+00	1.151E+00	2.76E-03	9.32E-04	1.059	0.900	2.92E-03	8.39E-04	3.70E+00	1.04E+00	3.935		1.04E+00
3.94	3.50E+00	1.152E+00	2.86E-03	9.22E-04	1.059	0.900	3.03E-03	8.30E-04	3.70E+00	1.04E+00	3.94		1.04E+00
3.945	3.50E+00	1.153E+00	2.86E-03	9.22E-04	1.059	0.900	3.03E-03	8.30E-04	3.71E+00	1.04E+00	3.945		1.04E+00
3.95	3.50E+00	1.154E+00	2.74E-03	9.32E-04	1.059	0.900	2.90E-03	8.39E-04	3.71E+00	1.04E+00	3.95		1.04E+00
3.955	3.51E+00	1.155E+00	2.76E-03	9.22E-04	1.059	0.900	2.92E-03	8.30E-04	3.71E+00	1.04E+00	3.955		1.04E+00
3.96	3.51E+00	1.156E+00	2.76E-03	9.33E-04	1.059	0.900	2.92E-03	8.39E-04	3.72E+00	1.04E+00	3.96		1.04E+00
3.965	3.51E+00	1.157E+00	2.86E-03	9.03E-04	1.059	0.900	3.03E-03	8.12E-04	3.72E+00	1.04E+00	3.965		1.04E+00
3.97	3.52E+00	1.158E+00	2.75E-03	9.23E-04	1.059	0.900	2.91E-03	8.30E-04	3.72E+00	1.04E+00	3.97		1.04E+00
3.975	3.52E+00	1.159E+00	2.86E-03	9.22E-04	1.059	0.900	3.03E-03	8.30E-04	3.72E+00	1.04E+00	3.975		1.04E+00
3.98	3.52E+00	1.160E+00	2.85E-03	9.23E-04	1.059	0.900	3.02E-03	8.31E-04	3.73E+00	1.04E+00	3.98		1.04E+00
3.985	3.52E+00	1.161E+00	2.75E-03	9.33E-04	1.059	0.900	2.91E-03	8.40E-04	3.73E+00	1.04E+00	3.985		1.04E+00
3.99	3.53E+00	1.162E+00	2.85E-03	9.23E-04	1.059	0.900	3.02E-03	8.31E-04	3.73E+00	1.05E+00	3.99		1.05E+00
3.995	3.53E+00	1.163E+00	2.65E-03	9.03E-04	1.059	0.900	2.81E-03	8.13E-04	3.74E+00	1.05E+00	3.995		1.05E+00
4	3.53E+00	1.163E+00	2.86E-03	9.13E-04	1.059	0.900	3.03E-03	8.22E-04	3.74E+00	1.05E+00	4		1.05E+00
4.5	3.81E+00	1.253E+00	2.73E-01	9.00E-02	1.059	0.900	2.89E-01	8.10E-02	4.03E+00	1.13E+00	4.5		1.13E+00
5	4.06E+00	1.338E+00	2.58E-01	8.49E-02	1.059	0.900	2.73E-01	7.64E-02	4.30E+00	1.20E+00	5		1.20E+00
5.5	4.31E+00	1.418E+00	2.42E-01	7.99E-02	1.059	0.900	2.57E-01	7.19E-02	4.56E+00	1.28E+00	5.5		1.28E+00
6	4.53E+00	1.493E+00	2.28E-01	7.51E-02	1.059	0.900	2.41E-01	6.76E-02	4.80E+00	1.34E+00	6		1.34E+00
6.5	4.75E+00	1.564E+00	2.14E-01	7.05E-02	1.059	0.900	2.27E-01	6.35E-02	5.03E+00	1.41E+00	6.5		1.41E+00
7	4.95E+00	1.630E+00	2.01E-01	6.63E-02	1.059	0.900	2.13E-01	5.96E-02	5.24E+00	1.47E+00	7		1.47E+00
7.5	5.14E+00	1.692E+00	1.89E-01	6.23E-02	1.059	0.900	2.00E-01	5.61E-02	5.44E+00	1.52E+00	7.5		1.52E+00
8	5.32E+00	1.751E+00	1.78E-01	5.86E-02	1.059	0.900	1.88E-01	5.28E-02	5.63E+00	1.58E+00	8		1.58E+00
9	5.62E+00	1.774E+00	3.03E-01	2.31E-02	1.059	2.892	3.21E-01	6.69E-02	5.95E+00	1.64E+00	9		1.64E+00
10	5.89E+00	1.795E+00	2.71E-01	2.07E-02	1.059	2.892	2.87E-01	5.99E-02	6.24E+00	1.70E+00	10		1.70E+00

11	6.13E+00	1.813E+00	2.44E-01	1.86E-02	1.059	2.892	2.58E-01	5.39E-02	6.49E+00	1.76E+00	11	1.76E+00
12	6.35E+00	1.830E+00	2.21E-01	1.69E-02	1.059	2.892	2.34E-01	4.89E-02	6.73E+00	1.81E+00	12	1.81E+00
13	6.56E+00	1.846E+00	2.03E-01	1.55E-02	1.059	2.892	2.15E-01	4.49E-02	6.94E+00	1.85E+00	13	1.85E+00
14	6.75E+00	1.861E+00	1.93E-01	1.48E-02	1.059	2.892	2.05E-01	4.28E-02	7.15E+00	1.89E+00	14	1.89E+00
15	6.93E+00	1.874E+00	1.78E-01	1.36E-02	1.059	2.892	1.89E-01	3.95E-02	7.34E+00	1.93E+00	15	1.93E+00
16	7.09E+00	1.887E+00	1.66E-01	1.27E-02	1.059	2.892	1.75E-01	3.66E-02	7.51E+00	1.97E+00	16	1.97E+00
17	7.25E+00	1.899E+00	1.55E-01	1.18E-02	1.059	2.892	1.64E-01	3.43E-02	7.68E+00	2.00E+00	17	2.00E+00
18	7.39E+00	1.910E+00	1.45E-01	1.11E-02	1.059	2.892	1.54E-01	3.21E-02	7.83E+00	2.04E+00	18	2.04E+00
19	7.53E+00	1.920E+00	1.37E-01	1.05E-02	1.059	2.892	1.45E-01	3.04E-02	7.98E+00	2.07E+00	19	2.07E+00
20	7.66E+00	1.930E+00	1.30E-01	9.99E-03	1.059	2.892	1.38E-01	2.89E-02	8.11E+00	2.10E+00	20	2.10E+00
21	7.79E+00	1.940E+00	1.24E-01	9.51E-03	1.059	2.892	1.32E-01	2.75E-02	8.24E+00	2.12E+00	21	2.12E+00
22	7.91E+00	1.949E+00	1.19E-01	9.08E-03	1.059	2.892	1.26E-01	2.63E-02	8.37E+00	2.15E+00	22	2.15E+00
23	8.02E+00	1.958E+00	1.14E-01	8.73E-03	1.059	2.892	1.21E-01	2.52E-02	8.49E+00	2.17E+00	23	2.17E+00
24	8.13E+00	1.966E+00	1.09E-01	8.38E-03	1.059	2.892	1.16E-01	2.42E-02	8.61E+00	2.20E+00	24	2.20E+00
26	8.31E+00	1.971E+00	1.78E-01	4.39E-03	1.059	4.738	1.88E-01	2.08E-02	8.80E+00	2.22E+00	26	2.22E+00
28	8.46E+00	1.974E+00	1.53E-01	3.78E-03	1.059	4.738	1.62E-01	1.79E-02	8.96E+00	2.24E+00	28	2.24E+00
30	8.60E+00	1.978E+00	1.36E-01	3.36E-03	1.059	4.738	1.44E-01	1.59E-02	9.10E+00	2.25E+00	30	2.25E+00
32	8.72E+00	1.981E+00	1.23E-01	3.05E-03	1.059	4.738	1.30E-01	1.44E-02	9.23E+00	2.27E+00	32	2.27E+00
34	8.83E+00	1.984E+00	1.14E-01	2.82E-03	1.059	4.738	1.21E-01	1.33E-02	9.35E+00	2.28E+00	34	2.28E+00
36	8.94E+00	1.986E+00	1.07E-01	2.62E-03	1.059	4.738	1.13E-01	1.24E-02	9.47E+00	2.29E+00	36	2.29E+00
38	9.04E+00	1.989E+00	1.00E-01	2.49E-03	1.059	4.738	1.06E-01	1.18E-02	9.57E+00	2.30E+00	38	2.30E+00
40	9.14E+00	1.991E+00	9.56E-02	2.37E-03	1.059	4.738	1.01E-01	1.12E-02	9.67E+00	2.32E+00	40	2.32E+00
42	9.23E+00	1.993E+00	9.13E-02	2.25E-03	1.059	4.738	9.67E-02	1.07E-02	9.77E+00	2.33E+00	42	2.33E+00
44	9.31E+00	1.995E+00	8.76E-02	2.15E-03	1.059	4.738	9.28E-02	1.02E-02	9.86E+00	2.34E+00	44	2.34E+00
46	9.40E+00	1.998E+00	8.45E-02	2.09E-03	1.059	4.738	8.95E-02	9.88E-03	9.95E+00	2.35E+00	46	2.35E+00
48	9.48E+00	2.000E+00	8.14E-02	2.03E-03	1.059	4.738	8.62E-02	9.61E-03	1.00E+01	2.36E+00	48	2.36E+00
72	1.03E+01	2.020E+00	8.32E-01	2.05E-02	1.059	4.738	8.81E-01	9.73E-02	1.09E+01	2.45E+00	72	2.45E+00
96	1.10E+01	2.037E+00	6.82E-01	1.69E-02	1.059	4.738	7.22E-01	7.98E-02	1.16E+01	2.53E+00	96	2.53E+00
120	1.16E+01	2.040E+00	5.94E-01	3.16E-03	1.059	8.856	6.29E-01	2.80E-02	1.23E+01	2.56E+00	120	2.56E+00
144	1.21E+01	2.043E+00	5.25E-01	2.77E-03	1.059	8.856	5.55E-01	2.45E-02	1.28E+01	2.59E+00	144	2.59E+00
168	1.26E+01	2.045E+00	4.65E-01	2.46E-03	1.059	8.856	4.92E-01	2.18E-02	1.33E+01	2.61E+00	168	2.61E+00
192	1.30E+01	2.048E+00	4.12E-01	2.19E-03	1.059	8.856	4.37E-01	1.94E-02	1.38E+01	2.63E+00	192	2.63E+00
216	1.34E+01	2.049E+00	3.66E-01	1.93E-03	1.059	8.856	3.88E-01	1.71E-02	1.41E+01	2.64E+00	216	2.64E+00
240	1.37E+01	2.051E+00	3.25E-01	1.73E-03	1.059	8.856	3.44E-01	1.53E-02	1.45E+01	2.66E+00	240	2.66E+00

264	1.40E+01	2.053E+00	2.89E-01	1.52E-03	1.059	8.856	3.06E-01	1.35E-02	1.48E+01	2.67E+00	264	2.67E+00
288	1.42E+01	2.054E+00	2.57E-01	1.37E-03	1.059	8.856	2.72E-01	1.21E-02	1.51E+01	2.69E+00	288	2.69E+00
312	1.45E+01	2.055E+00	2.29E-01	1.21E-03	1.059	8.856	2.42E-01	1.07E-02	1.53E+01	2.70E+00	312	2.70E+00
336	1.47E+01	2.056E+00	2.04E-01	1.07E-03	1.059	8.856	2.16E-01	9.48E-03	1.55E+01	2.71E+00	336	2.71E+00
360	1.48E+01	2.057E+00	1.81E-01	9.50E-04	1.059	8.856	1.92E-01	8.41E-03	1.57E+01	2.71E+00	360	2.71E+00
384	1.50E+01	2.058E+00	1.62E-01	8.70E-04	1.059	8.856	1.71E-01	7.70E-03	1.59E+01	2.72E+00	384	2.72E+00
408	1.51E+01	2.059E+00	1.44E-01	7.60E-04	1.059	8.856	1.53E-01	6.73E-03	1.60E+01	2.73E+00	408	2.73E+00
432	1.53E+01	2.060E+00	1.28E-01	6.90E-04	1.059	8.856	1.36E-01	6.11E-03	1.62E+01	2.73E+00	432	2.73E+00
456	1.54E+01	2.060E+00	1.15E-01	6.10E-04	1.059	8.856	1.21E-01	5.40E-03	1.63E+01	2.74E+00	456	2.74E+00
480	1.55E+01	2.061E+00	1.03E-01	5.40E-04	1.059	8.856	1.09E-01	4.78E-03	1.64E+01	2.74E+00	480	2.74E+00
504	1.56E+01	2.061E+00	9.16E-02	4.70E-04	1.059	8.856	9.70E-02	4.16E-03	1.65E+01	2.75E+00	504	2.75E+00
528	1.57E+01	2.062E+00	8.20E-02	4.40E-04	1.059	8.856	8.68E-02	3.90E-03	1.66E+01	2.75E+00	528	2.75E+00
552	1.57E+01	2.062E+00	7.33E-02	3.90E-04	1.059	8.856	7.76E-02	3.45E-03	1.67E+01	2.76E+00	552	2.76E+00
576	1.58E+01	2.062E+00	6.57E-02	3.40E-04	1.059	8.856	6.96E-02	3.01E-03	1.67E+01	2.76E+00	576	2.76E+00
600	1.59E+01	2.063E+00	5.88E-02	3.20E-04	1.059	8.856	6.23E-02	2.83E-03	1.68E+01	2.76E+00	600	2.76E+00
624	1.59E+01	2.063E+00	5.27E-02	2.80E-04	1.059	8.856	5.58E-02	2.48E-03	1.69E+01	2.76E+00	624	2.76E+00
648	1.60E+01	2.063E+00	4.74E-02	2.50E-04	1.059	8.856	5.02E-02	2.21E-03	1.69E+01	2.77E+00	648	2.77E+00
672	1.60E+01	2.063E+00	4.26E-02	2.20E-04	1.059	8.856	4.51E-02	1.95E-03	1.69E+01	2.77E+00	672	2.77E+00
720	1.61E+01	2.064E+00	7.25E-02	3.80E-04	1.059	8.856	7.68E-02	3.37E-03	1.70E+01	2.77E+00	720	2.77E+00

APPENDIX L

Conservatism of MSIV Leak Rates

Proprietary information deleted.

Proprietary information deleted.

Proprietary information deleted.

Attachment 1
Input Summary for the LOCA Dose Simplified Analysis using the Alternate Source Term and RADTRAD Methodology

- Core Power - 3556 MWt (Reference 1, Table 15.6-9)

  The T.S. value was increased by 2% to account for power measurement uncertainties in accordance with SRP 15.6.5.

- Core Inventory @ t=0 (Reference 2)

Nuclide	Ci/MWt	Nuclide	Ci/MWt	Nuclide	Ci/MWt
Kr83m	3.57E+03	I134Part	6.03E+04	Y93	3.56E+04
Kr85m	7.35E+03	I135Part	5.03E+04	Zr95	4.27E+04
Kr85	4.11E+02	Rb86	4.47E+01	Zr97	4.33E+04
Kr87	1.34E+04	Cs134	6.27E+03	Nb95	4.27E+04
Kr88	1.90E+04	Cs136	1.39E+03	La140	4.71E+04
Kr89	2.20E+04	Cs137	5.05E+03	La141	4.36E+04
Xe131m	2.79E+02	Sb127	3.31E+03	La142	4.17E+04
Xe133m	1.66E+03	Sb129	9.48E+03	Pr143	3.78E+04
Xe133	5.43E+04	Te127m	4.66E+02	Nd147	1.71E+04
Xe135m	1.11E+04	Te127	3.31E+03	Am241	7.67E+00
Xe135	1.31E+04	Te129m	1.39E+03	Cm242	1.74E+03
Xe137	4.65E+04	Te129	8.90E+03	Cm244	1.41E+02
Xe138	3.59E+04	Te131m	4.20E+03	Ce141	4.43E+04
I131Org	2.79E+04	Te132	3.99E+04	Ce143	4.01E+04
I132Org	3.94E+04	Ba137m	3.01E+03	Ce144	3.25E+04
I133Org	5.44E+04	Ba139	4.72E+04	Np239	7.01E+05
I134Org	6.03E+04	Ba140	4.58E+04	Pu238	9.56E+01
I135Org	5.03E+04	Mo99	4.90E+04	Pu239	1.89E+01
I131Elem	2.79E+04	Tc99m	4.34E+04	Pu240	3.11E+01
I132Elem	3.94E+04	Ru103	4.70E+04	Pu241	8.85E+03
I133Elem	5.44E+04	Ru105	3.46E+04	Sr89	2.02E+04
I134Elem	6.03E+04	Ru106	2.04E+04	Sr90	3.34E+03
I135Elem	5.03E+04	Rh105	3.27E+04	Sr91	2.59E+04
I131Part	2.79E+04	Y90	2.04E+03	Sr92	3.01E+04
I132Part	3.94E+04	Y91	2.73E+04		
I133Part	5.44E+04	Y92	2.90E+04		

- Volume of Drywell – 200,540 ft3 (Reference 1, Table 6.2-1)

- Volume of Wetwell – Vapor: 144,184 ft3 (Reference 1, Table 6.2-1)

- Volume of Wetwell – Water: 137,262 ft3* (Reference 1, Table 6.2-1)

*Includes water in pedestal and water lower than 12' below vent exit

- Volume of Control Room (free volume) – 214,000 ft3 (Reference 3)
- Volume of One Main Steam Line between MSIVs – 64.8 ft3 (Reference 4)
- Approximate Secondary Containment Volume – 3.48E6 ft3 (Reference 5)
- Secondary Containment Mixing Fraction – 40% (Reference 5)
- Secondary Containment Drawdown time – 10 Minutes (Client Input)
- Volumetric Flowrate, Drywell to Environment, Non-MSIV
  Secondary Containment Bypass (after drawdown)
  0.04 % DW Volume per Day (Reference 5)
  Other DW to Environment Leakage (before drawdown)
  0.54 % DW Volume per Day (Reference 5)
- Volumetric Flowrate, Wetwell to Environment
  Secondary Containment Bypass (after drawdown)
  0.04 % WW Volume per Day (Reference 5)
  Other DW to Environment Leakage (before drawdown)
  0.54 % WW Volume per Day (Reference 5)
- Volumetric Flowrate, Drywell to Secondary Containment: (Reference 5)
  0 % DW Volume per Day (before drawdown)
  0.5 % DW Volume per Day (after drawdown)
- Volumetric Flowrate, Wetwell to Secondary Containment: (Reference 5)
  0 % WW Volume per Day (before drawdown)
  0.5 % WW Volume per Day (after drawdown)
- Volumetric Flowrate, Sec. Cont. to Enviro. – Through SGTS (Reference 3 & 11)
  5000 cfm (before drawdown), see filter bypass
  5000 cfm (after drawdown), see filter bypass
- Volumetric Flowrate, Sec. Cont. to Enviro. – Bypassing SGTS (Reference 4)
  50 cfm (before drawdown)
  50 cfm (after drawdown)
- Filter Efficiency - Standard Gas Treatment System (Client Input)
  99% efficiency for all species except noble gases

- Volumetric Flowrate, ESF Leakage – 1 gpm (0.134 cfm) (Reference 3)

- Vol. Flowrate, Environment to CR (Unfiltered) (Client Input)
  250 cfm then 125 cfm after 30min

- Vol. Flowrate, Environment to CR (Charcoal Filter): (Reference 8)
  1800 cfm (before 30 minutes)
  900 cfm (after 30 minutes)

- Filter Efficiency - CR Intake Filter (Client Input)
  Elemental: 95% efficient
  Particulate: 99%
  Organic: 95%

- Vol. Flowrate, DW to All Main Steam Lines : 11.5 scfh per valve (Client Input)

- MSIV Test Conditions: Test Pressure > 25 psig (Reference 6)

- Assumed Drywell Conditions for Converting Bypass SCFH to CFH (including MSIV):
  Calc Pressure = 37.4 psig, Calc Temp. = 283 F (Reference 7)

- X/Q (sec/m^3)
  X/Qs for Control Room (Reference 8)

	Filtered			Unfiltered		
	Turbine Building	SCN Bypass	SGT Roofline	Turbine Building	SCN Bypass	SGT Roofline
0 - 0.5 hrs	7.03E-04	4.13E-04	2.41E-04	3.17E-03	6.80E-04	5.79E-04
0.5 - 2 hrs	6.13E-04	4.03E-04	2.29E-04	3.17E-03	6.80E-04	5.79E-04
2 - 8 hrs	4.71E-04	1.70E-04	9.47E-05	2.40E-03	4.92E-04	2.86E-04
8 - 24 hrs	2.42E-04	8.21E-05	5.17E-05	1.19E-03	2.53E-04	1.79E-04
1 - 4 days	1.66E-04	5.77E-05	3.97E-05	7.91E-04	1.45E-04	1.25E-04
4 - 30 days	1.25E-04	4.87E-05	3.05E-05	5.87E-04	1.19E-04	9.15E-05

X/Qs for EAB (Reference 12)

0 – 30 days	1.8E-4

X/Qs for LPZ (Reference 12)

0 – 8 hr	5.04E-5
8 – 24 hr	3.76E-5
1 – 4 days	1.99E-5
4 – 30 days	7.97E-6

- Breathing rates (Reference 9)

  CR Breathing Rates (m^3/s)

0 – 30 days	3.5E-4

  EAB, LPZ and Environment Breathing rates (m^3/s)

0 – 8 hr	3.5E-4
8 – 24 hr	1.8E-4
1 – 30 days	2.3E-4

- CR Occupancy Factors (Reference 9)

  Values in fractions:

0 – 24 hr	1.0
1 –4 days	0.6
4 – 30 days	0.4

- Normal Operational Steam Line Temperature - 544 F (Reference 5)

- DW Spray flow rate – 7450 gpm/train (2 trains available) (Reference 1, Table 6.2-2)

- Spray Initiation Time – 15 minutes (conservative value based on the radiological criteria of item below)

- Drywell Spray Initiation Based on Radiation – 14,000 R/Hr in Drywell (Reference 10)

References

1. Columbia Generating Station Final Safety Analysis Report (FSAR) Amendment 53, November 1998
2. Energy Northwest's Technical Memorandum TM-2128, Rev. 0 "Core Inventory Comparison", October 3, 2000, Enclosure 3 to Letter EN2-PE-00-0045 from EnergyNW (Mostala) to Polestar (Leaver) dated October 13, 2000
3. "MSLC Deactivation Input Table", Enclosure 1 to Letter EN2-PE-00-0054 from EnergyNW (Mostala) to Polestar (Leaver) dated December 20, 2000
4. NE-02-01-13 Appendix M
5. NE-02-01-13 Appendix K
6. Surveillance Requirement SR 3.6.1.3.11
7. GE-NE-208-17-0993 Rev. 1
8. NE-02-99-13
9. NRC Regulatory Guide 1.183, July 2000
10. TSG-Operations Manager, TM-2118, Revision 0, Page 152
11. NE-02-01-05
12. NE-02-01-15

Attachment 2
Loss of Spray Droplets in the Columbia Drywell

Proprietary information deleted.

Proprietary information deleted.

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Proprietary information deleted.

Proprietary information deleted.

Proprietary information deleted.

ATTACHMENT 2 – Appendix A
Columbia Drywell Structures
Involved in Spray Droplet Impingement

Proprietary information deleted.

Proprietary information deleted.

ATTACHMENT 2 – Appendix B
Spray Droplet Impingement Ratio Calculation

Proprietary information deleted.

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Attachment 3
STARDOSE Benchmark for Current (TID-14844) DBA-LOCA Dose With and Without Impact of CST Leakage

Purpose

This benchmark is intended to reproduce the dose calculation presented in the FSAR using the TID-14844 source term. In addition, the existing study estimating the potential dose contribution from CST backleakage (liquid leakage bypass of the secondary containment as analyzed in Energy Northwest Calculation, NE-02-99-12, Revision 0, 4/25/00) is verified in terms of having only minimal dose impact.

Approach and Inputs

The first step is to identify the inputs and results for the current FSAR analysis. In FSAR Sections 6.4 and 15.6.5, the following model is described or inferred:

- Primary containment volume (assumed to be 3.4504E5 ft^3) leaks at 0.5 %/day. Of this, 0.32 %/day or 0.7668 cfm leaks to the secondary containment after drawdown and 0.18%/day or 0.4313 cfm leaks down the steam lines. The steam line leakage is collected by the MSIV-LCS and is routed to the SGTS after drawdown. Therefore, after drawdown, all containment leakage is processed by the SGTS.
- The SGTS has filters with 99% efficiency. The maximum filtered flowrate is 4457 cfm per train, and a bypass of 14 cfm may exist. The 99% efficiency is applied to the 4457 cfm yielding an unfiltered flow of 44.57 cfm. Adding the bypass to both the total and the unfiltered flow yields a total flow of 4471 cfm and an unfiltered flow of 58.57 cfm. This would give an effective filter efficiency of 98.69% except that the secondary containment is assumed to be completely bypassed prior to drawdown, and the maximum flow (with bypass) of 4471 cfm is assumed to exist only prior to drawdown. After drawdown, an SGTS flowrate of 2500 cfm is assumed to exist, still with a filter efficiency of 99% and still with a bypass of 14 cfm. This yields an effective filter efficiency of 98.44% applied to 2514 cfm. The filter efficiency does not apply to noble gas.
- The secondary containment is assumed to provide no holdup, so the volume is set to one minute of post-drawdown SGTS flow for a volume of 2514 ft^3.
- The source term is based on 3556 MW(thermal) and consists of iodine and noble gas. The chemical form of the iodine is 91% elemental, 4% organic, and 5% particulate. 100% of the noble gases is released to the primary containment atmosphere, 25% of the iodine is assumed to be released to the primary containment atmosphere, and 50% of the iodine is assumed to be released to the suppression pool (pool volume = 1.373E5 ft^3).
- The ECCS is assumed to leak at a rate of one gpm. 10% of the iodine in the ECCS leakage is assumed to be released to the secondary containment atmosphere and to be immediately collected and processed by the SGTS. 95.8% of this released iodine is assumed to elemental and 4.2% organic; therefore, 9.58% of the elemental iodine (out of 91% in the ECCS leakage) and 0.42% of the organic iodine (out of 4% in the

ECCS leakage) must be released. This can be accomplished with a 89.5% efficient "imaginary" filter in the ECCS leakage flowpath to the secondary containment for the elemental and organic iodine. A 99.99% efficient imaginary filter is applied to the particulate iodine to prevent any of this form from being released. (This same scheme is applied to the CST leakage for the CST leakage cases, except that the leak rate is 0.48 gpm and the released iodine is held-up in the CST prior to being released to the environment rather than being released immediately to the SGTS).

- As previously noted, the secondary containment is completely bypassed until drawdown is complete. After that, a bypass of 0.74 scfh (0.0048 cfm) is assumed to continue. The bypass flow of 0.0048 cfm is added to the primary containment leakage of 0.7668 cfm prior to drawdown for a total of 0.7716 cfm.
- The control room has a volume of 2.0E5 ft^3. The filtered makeup is 1100 cfm and the unfiltered inleakage is 10.55 cfm. The filter efficency is 99% for particulate iodine and 95% for the gaseous forms of iodine. The control room occupancy factors are 1, 0.6, and 0.4 for 0-24 hours, 24-96 hours, and 96-720 hours, respectively. The assumed breathing rate for the control room operator is 3.47E-4 m^3/sec.
- The assumed breathing rates for members of the public are as follows: 3.47E-4 m^3/sec for the first 8 hours, 1.75E-4 m^3/sec for 8-24 hours, and 2.32E-4 m^3/sec for the remainder.
- Control room, EAB, and LPZ X/Qs are taken from the FSAR.
- Additional radionuclide and dose calculation information is contained in "Radiological Accident Evaluation - the CONAC03 Code", NEDO-21143-1. Since this document is not available, Polestar has made the following assumptions for its STARDOSE LIBFILE1.TXT file: (1) DCFs are left the same as those in the main body of this calculation. This is known to be most likely incorrect, and the potential impact of that probable discrepancy is addressed in the Results section of this attachment. (2) The core inventory is taken from the "MSLC Deletion Design Input Table" based on GE-NE-208-17-0993, Rev 1. The values given are divided by the 3556 MWt power level to obtain the Ci/MWt inputs.

The second step is to prepare the input files based on the above for STARDOSE. The STARDOSE model also includes the following description of the CST release pathway:

- CST Volume = 135,000 gallons
- Leak Rate to CST = 0.48 gpm for 30 days*
- Re-evolution fraction of radioiodine in tank = 10%*

*Note that the "Current" results in the table below are based on 1.2 gpm for 30 days with 1.6% re-evolution fraction of radioiodine in tank. This is described in Energy Northwest Calculation, NE-02-99-12, Revision 0 as being equivalent to the model being evaluated using STARDOSE.

Appendix 3-A is the base STARDOSE INPUT.DAT file for the model described above with a drawdown time of 5 minutes. To obtain the model for a drawdown time of 2.5 minutes, all 0.0833 hour entries must be changed to 0.0417 hour entries. Similarly, for a

drawdown time of 10 minutes, the entries must be changed to 0.1667 hours. When the CST release is desired, the zero value for the CST-to-the-environment junction is changed to 0.064 cfm (0.48 gpm).

The last step is to make two STARDOSE runs with a 5 minute drawdown (one with CST release and one without), as well as two more STARDOSE runs with no CST release, one with a 10 minute drawdown and one with a 2.5 minute drawdown.

Calculation and Results

The offsite and control room doses are as follows from the FSAR, Energy Northwest Calculation, NE-02-99-12, Revision 0, and the four STARDOSE runs described above:

Case/Dose in rem	2-Hr EAB	2-Hr EAB(1)	30-D LPZ	30-D LPZ(1)	30-D CR	30-D CR(1)
Current(2)(3)						
WB	5.7	N/A	4.1		0.4	N/A
Thyroid	86.3	N/A	95.8	95.8+9.58(4)	15.4 19.8(5)	15.4+9.58(4) <
Skin					3.5	N/A
STARDOSE(2)						
WB	3.95 3.83(6)	3.95	2.71 2.66(6)	2.71	0.214 0.211(5)	0.214
Thyroid	82.7 53.4(6)	82.7	86.8 74.9(6)	88.2	13.5 16.3(5)	13.8
Skin					3.62 3.58(5)	3.62

(1) With CST Leakage Included
(2) Unless Otherwise Noted - 5 Minute Drawdown
(3) Offsite Doses Could be 2.5 Minute Drawdown - FSAR Not Clear
(4) Estimated in Energy Northwest Calculation, NE-02-99-12, Revision 0, 4/25/00
(5) 10 Minute Drawdown
(6) 2.5 Minute Drawdown

Discussion of Results

The current FSAR analysis (with the offsite dose results given on Page 15.6-32 of the FSAR) appears to have been done with an assumed drawdown time of 5 minutes (i.e., Tables 15.6-11 and 15.6-12 are labeled as such). Therefore, the 5-minute drawdown case is taken to be the "base". However, Page 15.6-27 of the FSAR gives a drawdown time of 150 seconds (2.5 minutes); therefore, that case has been calculated, as well, for the offsite doses.

The EAB whole body dose is largely insensitive to drawdown (noble gas is not filtered by the SGTS), and the current FSAR analysis produces doses about 1.5 times those of the

STARDOSE analysis. This would be typical of current whole body dose conversion factors as compared to those used to perform the "current" analysis. The current FSAR EAB thyroid dose exceeds the STARDOSE EAB thyroid dose result by 4% (for an assumed 5 minute drawdown time) or 62% (for an assumed 2.5 minute drawdown time). If the 2.5 minute drawdown is correct, then the TID-14844 thyroid dose conversion factor (37% greater for the dominant I-131 than that in Appendix 3-B) could explain a large part of the difference. However, it is not clear if the TID-14844 DCFs are part of the methodology described in GE-NE-208-17-0993, Rev 1; they may well not be.

For the impact of CST leakage, one can see that there is no impact on the EAB dose because of the short duration of the dose integration period (two hours).

For the LPZ whole body dose, the same factor of 1.5 is seen between the current FSAR results and those obtained with STARDOSE. For the LPZ thyroid dose, the current FSAR analysis is 10% higher than the STARDOSE 5-minute drawdown case and 28% higher than the STARDOSE 2.5-minute drawdown case. Here again, the DCFs are not given.

The LPZ thyroid dose was estimated in the current analysis to increase by 10% with consideration of the CST release. The STARDOSE-calculated result is about a 1.6% increase. The difference is due to the fact that the current evaluation model does not consider iodine decay within the CST. This is a substantial conservatism.

The current FSAR control room doses (from Page 6.4-11 of the FSAR) are about 90% greater than those of STARDOSE for whole body, about the same for skin, and about 15-20% greater for thyroid. Note that two cases were explicitly analyzed for the control room, one with a 5 minute drawdown time and one with a 10 minute drawdown time. The fact that the skin doses were the same while the whole body dose for the FSAR was so much higher points to a whole body DCF discrepancy (since both doses are dominated by noble gas).

The current CST evaluation estimated that the control room dose impact would be less than the 9.58 rem thyroid impact estimated for the LPZ. This would have left the control room thyroid dose just under the 25-rem limit. The STARDOSE result shows that thyroid dose impact is only 0.3 rem for the 5-minute drawdown case, raising the dose from 13.5 rem to 13.8 rem thyroid.

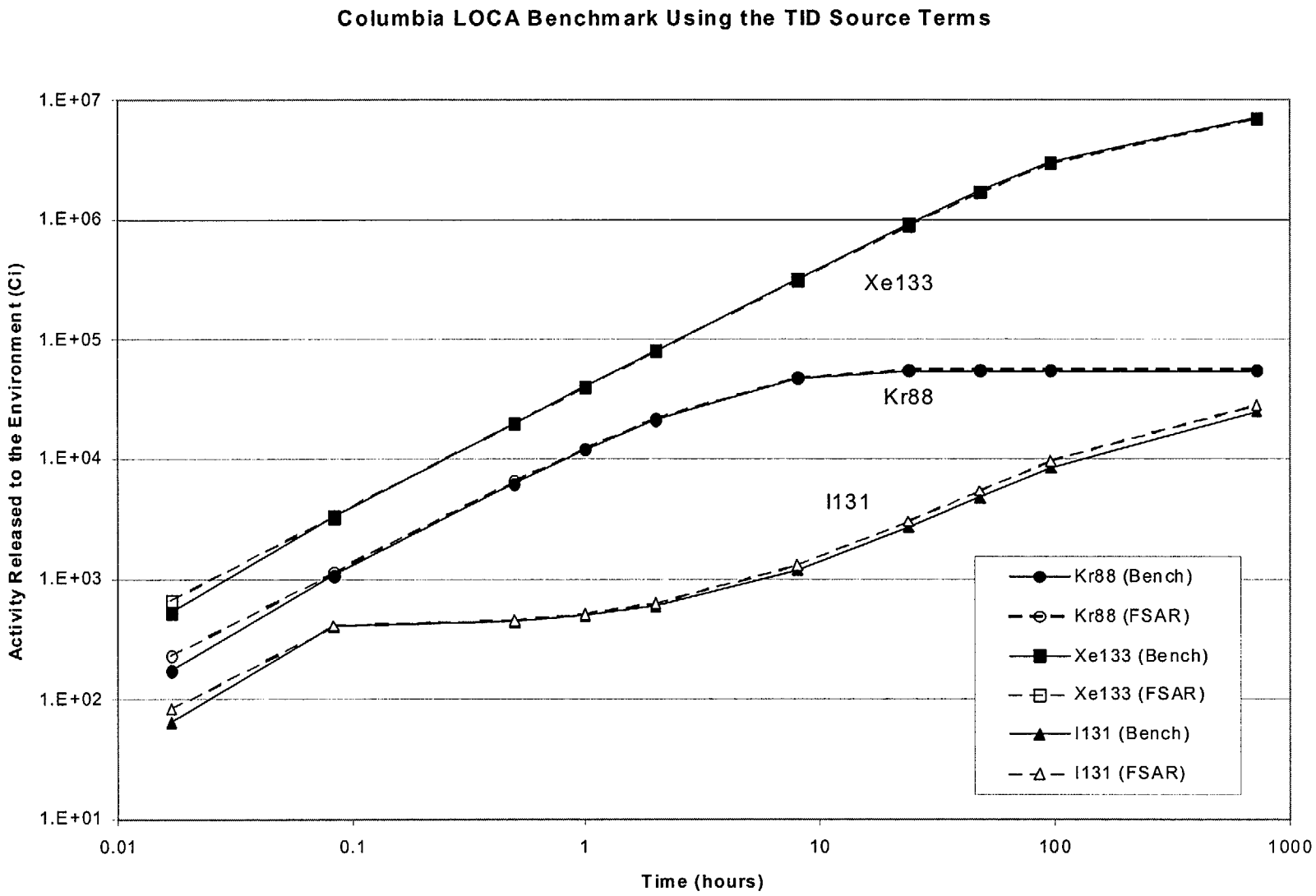
Because of the uncertainty regarding DCFs, it was decided to compare the STARDOSE results directly for activity released as a function of time. This was done for the 5-minute drawdown case, using Kr-88, Xe-133, and I-131. The "current" data come from Table 15.6-12 of the FSAR. As one can see from the chart presented on the next page, the agreement is excellent, although the FSAR releases do appear to be very slightly higher.

Conclusions

The conclusions of this assessment are as follows:

1. The STARDOSE code can reproduce the current FSAR results, and

2. The impact of the CST release (liquid leakage bypass) is small (no impact on the EAB dose and about a 2% increase for the LPZ and control room thyroid doses).


Columbia LOCA Benchmark Using the TID Source Terms
Activity Released to the Environment (Ci)
1.E+07
1.E+06
1.E+05
1.E+04
1.E+03
1.E+02
1.E+01
0.01
0.1
1
10
100
1000
Time (hours)
Xe133
Kr88
I131
Kr88 (Bench)
Kr88 (FSAR)
Xe133 (Bench)
Xe133 (FSAR)
I131 (Bench)
I131 (FSAR)

Non-Proprietary Version

INPUT.DAT file for TID-14844 Benchmark

```
edit_time
0 0.017 0.0833 0.5 1 2 8 24 48 96 720
end_edit_time

participating_isotopes
Kr83m  Kr85m  Kr85   Kr87   Kr88   Kr89
Xe131m Xe133m Xe133  Xe135m Xe135  Xe137  Xe138
I131Org I131Elem     I131Part
I132Org I132Elem     I132Part
I133Org I133Elem     I133Part
I134Org I134Elem     I134Part
I135Org I135Elem     I135Part
end_participating_isotopes

core
thermal_power                3556
elemental_iodine_frac        0.91
organic_iodine_frac          0.04
particulate_iodine_frac      0.05
release_frac
to_control_volume PriCont
Time N_Gas I_Grp CsGrp TeGrp BaGrp NMtls CeGrp LaGrp SrGrp
0.00833 120 30 0 0 0 0 0 0 0
720 0 0 0 0 0 0 0 0 0
end_to_control_volume
to_control_volume Pool
Time N_Gas I_Grp CsGrp TeGrp BaGrp NMtls CeGrp LaGrp SrGrp
0.00833 0 60 0 0 0 0 0 0 0
720 0 0 0 0 0 0 0 0 0
end_to_control_volume
end_release_frac
end_core

control_volume
obj_type                     OBJ_CV
name                         PriCont
air_volume                   3.4504e+005
water_volume                 0
surface_area                 0
has_recirc_filter            false
end_control_volume
```

Non-Proprietary Version

```
control_volume
obj_type                OBJ_CV
name                    SecCont
air_volume              2514
water_volume            0
surface_area            0
has_recirc_filter       false
end_control_volume

control_volume
obj_type                OBJ_CV
name                    Pool
air_volume              1.373e+005
water_volume            0
surface_area            0
has_recirc_filter       false
end_control_volume

control_volume
obj_type                OBJ_CV
name                    CST
air_volume              18048
water_volume            0
surface_area            0
has_recirc_filter       false
end_control_volume

control_volume
obj_type                OBJ_CR
name                    Control_Room
air_volume              2.0e+005
water_volume            0
surface_area            0
has_recirc_filter       false
breathing_rate
Time (hr)   Value (cms)
720         0.000347
end_breathing_rate
occupancy_factor
Time (hr)   Value (frac)
24          1
96          0.6
720         0.4
end_occupancy_factor
end_control_volume
```

Non-Proprietary Version

```
junction
junction_type                AIR_JUNCTION
downstream_location          AIR_SPACE
upstream                          CORE
downstream                        PriCont
flow_rate
Time   (hr)    Value  (cfm)
720    1
end_flow_rate
has_filter                        false
end_junction

junction
junction_type                AIR_JUNCTION
downstream_location          AIR_SPACE
upstream                          CORE
downstream                        Pool
flow_rate
Time   (hr)    Value  (cfm)
720    1
end_flow_rate
has_filter                        false
end_junction

junction
junction_type                AIR_JUNCTION
downstream_location          AIR_SPACE
upstream                          PriCont
downstream                        environment
has_filter                        false
flow_rate
Time   (hr)    Value  (cfm)
0.0833 0.7716
720    0.0048
end_flow_rate
X_over_Q_4_ctrl_room
Time   (hr)    Value  (s/m*3)
2      2.17e-4
3      5.43e-5
8      4.49e-5
24     3.55e-5
720    1.67e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
```

Non-Proprietary Version

```
Time  (hr)   Value  (s/m*3)
2      2.62e-4
720    0
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)   Value  (s/m*3)
2      1.06e-4
8      4.47e-5
24     2.91e-5
96     1.14e-5
720    2.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type              AIR_JUNCTION
downstream_location        AIR_SPACE
upstream                        PriCont
downstream                      environment
has_filter                      true
flow_rate
Time  (hr)   Value  (cfm)
720          0.4313
end_flow_rate
filter_efficiency
Time  NobleGas     ElemIodine   OrgIodine    PartIodine    Solubles
      Insolubles
0.0833 0     0     0     0     0     0
720    0     0.9844 0.9844 0.9844 0     0
end_filter_efficiency
X_over_Q_4_ctrl_room
Time  (hr)   Value  (s/m*3)
0.0833 2.17e-4
2      3.77e-4
3      9.43e-5
8      7.80e-5
24     6.17e-5
720    2.90e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)   Value  (s/m*3)
2      2.62e-4
720    0
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
```

Non-Proprietary Version

```
Time  (hr)   Value  (s/m*3)
2      1.06e-4
8      4.47e-5
24     2.91e-5
96     1.14e-5
720    2.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type              AIR_JUNCTION
downstream_location        AIR_SPACE
upstream                         PriCont
downstream                       SecCont
has_filter                       false
flow_rate
Time  (hr)   Value  (cfm)
0.0833       0
720          0.7668
end_flow_rate
end_junction

junction
junction_type              AIR_JUNCTION
downstream_location        AIR_SPACE
upstream                         Pool
downstream                       SecCont
has_filter                       true
flow_rate
Time  (hr)   Value  (cfm)
720    0.134
end_flow_rate
filter_efficiency
Time  NobleGas     ElemIodine    OrgIodine     PartIodine     Solubles
      Insolubles
720   0      0.895  0.895  0.9999 0      0
end_filter_efficiency
end_junction

junction
junction_type              AIR_JUNCTION
downstream_location        AIR_SPACE
upstream                         SecCont
downstream                       environment
has_filter                       true
```

Non-Proprietary Version

flow_rate
Time (hr) Value (cfm)
0.0833 4471
720 2514
end_flow_rate
filter_efficiency

Time	NobleGas	ElemIodine	OrgIodine	PartIodine	Solubles	Insolubles
0.0833	0	0	0	0	0	0
720	0	0.9844	0.9844	0.9844	0	0

end_filter_efficiency
X_over_Q_4_ctrl_room
Time (hr) Value (s/m*3)
2 3.77e-4
3 9.43e-5
8 7.80e-5
24 6.17e-5
720 2.90e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time (hr) Value (s/m*3)
2 2.62e-4
720 0
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time (hr) Value (s/m*3)
2 1.06e-4
8 4.47e-5
24 2.91e-5
96 1.14e-5
720 2.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type AIR_JUNCTION
downstream_location AIR_SPACE
upstream Pool
downstream CST
has_filter true
flow_rate
Time (hr) Value (cfm)
720 0.064
end_flow_rate
filter_efficiency

Non-Proprietary Version

Time NobleGas ElemIodine OrgIodine PartIodine Solubles
Insolubles
720 0 0.895 0.895 0.9999 0 0
end_filter_efficiency
end_junction

junction
junction_type AIR_JUNCTION
downstream_location AIR_SPACE
upstream CST
downstream environment
has_filter false
flow_rate
Time (hr) Value (cfm)
720 0
end_flow_rate
X_over_Q_4_ctrl_room
Time (hr) Value (s/m*3)
2 2.17e-4
3 5.43e-5
8 4.49e-5
24 3.55e-5
720 1.67e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time (hr) Value (s/m*3)
2 2.62e-4
720 0
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time (hr) Value (s/m*3)
2 1.06e-4
8 4.47e-5
24 2.91e-5
96 1.14e-5
720 2.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type AIR_JUNCTION
downstream_location AIR_SPACE
upstream environment
downstream Control_Room
has_filter true

Non-Proprietary Version

```
flow_rate
Time  (hr)    Value  (cfm)
720   1100
end_flow_rate
filter_efficiency
Time  NobleGas     ElemIodine    OrgIodine     PartIodine     Solubles
      Insolubles
720   0      0.95   0.95   0.99   0      0
end_filter_efficiency
end_junction

junction
junction_type              AIR_JUNCTION
downstream_location        AIR_SPACE
upstream                         environment
downstream                       Control_Room
has_filter                       false
flow_rate
Time  (hr)    Value  (cfm)
720   10.55
end_flow_rate
end_junction

junction
junction_type              AIR_JUNCTION
downstream_location        AIR_SPACE
upstream                         Control_Room
downstream                       environment
has_filter                       false
flow_rate
Time  (hr)    Value  (cfm)
720   1110.55
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)    Value  (s/m*3)
720   0
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)    Value  (s/m*3)
720   0
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)    Value  (s/m*3)
720   0
end_X_over_Q_4_low_population_zone
```

Non-Proprietary Version

end_junction

environment
breathing_rate_sb

Time (hr)	Value (cms)
8	0.000347
24	0.0
720	0.0

end_breathing_rate_sb
breathing_rate_lpz

Time (hr)	Value (cms)
8	0.000347
24	0.000175
720	0.000232

end_breathing_rate_lpz
end_environment

Non-Proprietary Version

LIBFILE1.TXT file for TID-14844 Benchmark

```
n_isotopes 28 n_isotope_groups 4
Kr83m   N_Gas NONE    NONE    3.14E+03    1.04E-04    0    4.2E-06 0    0
0    0    0    0    0    0    0    0
Kr85m   N_Gas NONE    NONE    6.74E+03    4.39E-05    0    0.03069 0    0
0.05   0    0.22   0    0    0    0    0
Kr85    N_Gas NONE    NONE    3.01E+02    2.04E-09    0    0.00048 0    0
0.05   0    0.22   0    0    0    0    0
Kr87    N_Gas NONE    NONE    1.29E+04    1.52E-04    0    0.14626 0    0
0.34   0    1.48   0    0    0    0    0
Kr88    N_Gas NONE    NONE    1.83E+04    6.88E-05    0    0.3708  0    0
0.08   0    0.35   0    0    0    0    0
Kr89    N_Gas NONE    NONE    2.28E+04    3.63E-03    0    0.303   0    0
0.35   0    1.52   0    0    0    0    0
Xe131m  N_Gas NONE    NONE    1.58E+02    6.68E-07    0    0.00152 0    0
0.02   0    0.04   0    0    0    0    0
Xe133m  N_Gas NONE    NONE    2.31E+03    3.49E-06    0    0.00554 0    0
0.03   0    0.13   0    0    0    0    0
Xe133   N_Gas NONE    NONE    5.53E+04    1.52E-06    0    0.00625 0    0
0.01   0    0.04   0    0    0    0    0
Xe135m  N_Gas NONE    NONE    1.04E+04    7.40E-04    0    0.07756 0    0
0.02   0    0.09   0    0    0    0    0
Xe135   N_Gas NONE    NONE    7.15E+03    2.09E-05    0    0.0482  0    0
0.06   0    0.26   0    0    0    0    0
Xe137   N_Gas NONE    NONE    4.85E+04    2.96E-03    0    0.0283  0    0
0.46   0    2      0    0    0    0    0
Xe138   N_Gas NONE    NONE    4.61E+04    6.80E-04    0    0.19776 0    0
0.15   0    0.65   0    0    0    0    0
I131Org Org_I NONE    NONE    2.63E+04    9.96E-07    1080400 0.0559  0    0
0.03   32893  0.13   0    0    0    0    0
I132Org Org_I NONE    NONE    3.85E+04    8.27E-05    6438    0.355   0    0
0.11   381.1  0.48   0    0    0    0    0
I133Org Org_I NONE    NONE    5.50E+04    9.22E-06    179820  0.0911  0    0
0.09   5846   0.39   0    0    0    0    0
I134Org Org_I NONE    NONE    6.06E+04    2.23E-04    1065.6  0.411   0    0
0.14   131.35 0.61   0    0    0    0    0
I135Org Org_I NONE    NONE    5.20E+04    2.86E-05    31302   0.249   0    0
0.08   1228.4 0.35   0    0    0    0    0
I131Elem Elm_I NONE    NONE    2.63E+04    9.96E-07    1080400 0.0559  0
0    0.03   32893  0.13   0    0    0    0    0
I132Elem Elm_I NONE    NONE    3.85E+04    8.27E-05    6438    0.355   0
0    0.11   381.1  0.48   0    0    0    0    0
```

Non-Proprietary Version

I133Elem Elm_I NONE NONE 5.50E+04 9.22E-06 179820 0.0911 0 0
0.09 5846 0.39 0 0 0 0 0
I134Elem Elm_I NONE NONE 6.06E+04 2.23E-04 1065.6 0.411 0 0
0.14 131.35 0.61 0 0 0 0 0
I135Elem Elm_I NONE NONE 5.20E+04 2.86E-05 31302 0.249 0 0
0.08 1228.4 0.35 0 0 0 0 0
I131Part Prt_I NONE NONE 2.63E+04 9.96E-07 1080400 0.0559 0 0
0.03 32893 0.13 0 0 0 0 0
I132Part Prt_I NONE NONE 3.85E+04 8.27E-05 6438 0.355 0 0
0.11 381.1 0.48 0 0 0 0 0
I133Part Prt_I NONE NONE 5.50E+04 9.22E-06 179820 0.0911 0 0
0.09 5846 0.39 0 0 0 0 0
I134Part Prt_I NONE NONE 6.06E+04 2.23E-04 1065.6 0.411 0 0
0.14 131.35 0.61 0 0 0 0 0
I135Part Prt_I NONE NONE 5.20E+04 2.86E-05 31302 0.249 0 0
0.08 1228.4 0.35 0 0 0 0 0

–

Attachment 4
Liquid Leakage Bypass Analysis

Potential liquid leakage bypass exists due to contaminated suppression pool water being re-circulated through ECCS piping by HPCS and RCIC pumps that can leak into the Condensate Storage Tanks (CST) through the HPCS and RCIC CST suctions and test returns. With iodine transferred to the CST water, some iodine partitioning will occur (equilibrium assumed to exist between the aqueous and gas phases), and iodine activity will be released from the CST atmosphere into the environment.

The purpose of this attachment is to add the liquid leakage bypass to the plant model so as to evaluate its impact on offsite and control room doses.

Proprietary information deleted.

Figure 4-1 - Updated Plant Model

Proprietary information deleted.

The liquid leakage bypass results are compared to those of the main calculation in Table 4-1. The INPUT.DAT files for both the CR filtered intake and the CR unfiltered inleakage runs (as well as 720-hour CR and LPZ dose excerpts from the RESULTS.OUT files for both runs) are included at the end this attachment.

Table 4-1
Results with and without CST

Cases	CST Leakage (Y/N)	30-d CR TEDE (rem)	Max 2-h EAB TEDE (rem)	30-d LPZ TEDE (rem)
Fig 1 – Main Calc	N			
Fig 4-1	Y			

These results show that the impact of the added liquid leakage bypass is

Proprietary information deleted.

Another major conservatism of this calculation is that the turbine building dispersion characteristics (X/Qs) are used in this analysis to represent the CST release point. This is a substantial conservatism.

References for Attachment 4 are as follows:

4-1 Energy Northwest Calculation, NE-02-99-12, Revision 0, 4/25/00

4-2 PSAT 206.QA.01.07, "Calculation of Columbia Generating Station Engineered Safety Feature Component Leakage Iodine Release", Rev. 0, 2/13/01

Input file – INPUT.DAT – Filtered Intake

```
edit_time
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9
1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9
2.0 2.1 2.2 2.3 2.4 2.44 2.5 2.6 2.7 2.8 2.9
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9
4.0 6.0 8.0 24.0 96.0 720.0
end_edit_time

participating_isotopes
Kr83m   Kr85m   Kr85    Kr87    Kr88    Kr89
Xe131m  Xe133m  Xe133   Xe135m  Xe135   Xe137   Xe138
I131Org I131Elem        I131Part
I132Org I132Elem        I132Part
I133Org I133Elem        I133Part
I134Org I134Elem        I134Part
I135Org I135Elem        I135Part
Rb86    Cs134   Cs136   Cs137
Sb127   Sb129   Te127m  Te127   Te129m  Te129   Te131m  Te132
Ba137m  Ba139   Ba140
Mo99    Tc99m   Ru103   Ru105   Ru106   Rh105
Y90     Y91     Y92     Y93     Zr95    Zr97    Nb95
La140   La141   La142   Pr143   Nd147   Am241   Cm242   Cm244
Ce141   Ce143   Ce144   Np239   Pu238   Pu239   Pu240   Pu241
Sr89    Sr90    Sr91    Sr92
end_participating_isotopes

core
thermal_power                   3556
elemental_iodine_frac           0.0485
organic_iodine_frac             0.0015
particulate_iodine_frac         0.95
release_frac
to_control_volume DW
Time N_Gas I_Grp CsGrp TeGrp BaGrp NMtls CeGrp LaGrp SrGrp
0.033 0     0     0     0     0     0     0     0     0
0.533 0.1   0.1   0.1   0     0     0     0     0     0
2.033 0.633 0.167 0.133 0.033 0.0133      0.00167 0.00033 0.00013 0.0133
720   0     0     0     0     0     0     0     0     0
end_to_control_volume
to_control_volume SP
Time N_Gas I_Grp CsGrp TeGrp BaGrp NMtls CeGrp LaGrp SrGrp
0.033 0     0     0     0     0     0     0     0     0
0.533 0     0.2   0     0     0     0     0     0     0
2.033 0     0.334 0     0     0     0     0     0     0
720   0     0     0     0     0     0     0     0     0
end_to_control_volume
end_release_frac
end_core

control_volume
obj_type                        OBJ_CV
name                            DW
air_volume                      2.0054e+005
water_volume                    0
```

```
surface_area                    1
has_recirc_filter               false
removal_rate_to_surface
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
0.25  0.00  0.001 0.00  0.001 0.001 0.001
2.44  0.00  6.20  0.00  6.20  6.20  6.20
24.00 0.00  0.62  0.00  0.62  0.62  0.62
720.0 0.00  0.00  0.00  0.00  0.00  0.00
end_removal_rate_to_surface
frac_4_daughter_resusp_from_surface
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     0     0     0     0     0
end_frac_4_daughter_resusp_from_surface
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            WW
air_volume                      1.442e+005
water_volume                    1.373e+005
surface_area                    0
has_recirc_filter               false
removal_rate_to_waterpool
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   0     0     0     0     0     0
end_removal_rate_to_waterpool
frac_4_daughter_resusp_from_water
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   0     0     0     0     0     0
end_frac_4_daughter_resusp_from_water
decontamination_factor
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     1     1     1     1     1
end_decontamination_factor
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            RB
air_volume                      1.392e+006
water_volume                    0
surface_area                    0
has_recirc_filter               false
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            SP
air_volume                      1.373e+005
water_volume                    0
surface_area                    0
has_recirc_filter               false
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            CST
```

```
air_volume                    18048
water_volume                  0
surface_area                  0
has_recirc_filter             false
end_control_volume

control_volume
obj_type                      OBJ_CR
name                          Control_Room
air_volume                    2.14e+005
water_volume                  0
surface_area                  0
has_recirc_filter             false
breathing_rate
Time   (hr)   Value (cms)
720           0.00035
end_breathing_rate
occupancy_factor
Time   (hr)   Value (frac)
24            1
96            0.6
720           0.4
end_occupancy_factor
end_control_volume

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      CORE
downstream                    DW
has_filter                    false
flow_rate
Time   (hr)   Value (cfm)
720    1
end_flow_rate
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      CORE
downstream                    SP
has_filter                    false
flow_rate
Time   (hr)   Value (cfm)
720    1
end_flow_rate
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           WATER_POOL
upstream                      DW
downstream                    WW
has_filter                    false
flow_rate
Time   (hr)   Value (cfm)
```

```
2.033        0
720          1.442e5
end_flow_rate
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       WW
downstream                     DW
has_filter                     false
flow_rate
Time  (hr)  Value (cfm)
2.033        0
720          1.442e5
end_flow_rate
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       DW
downstream                     environment
has_filter                     false
flow_rate
Time  (hr)  Value (cfm)
24     0.0995
720    0.0498
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
0.5    7.03e-4
2      6.13e-4
8      4.71e-4
24     2.42e-4
96     1.66e-4
720    1.25e-4
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720    1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8      5.04e-5
24     3.76e-5
96     1.99e-5
720    7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       DW
downstream                     environment
has_filter                     true
```

```
flow_rate
Time  (hr)  Value (cfm)
24    0.299
720   0.149
end_flow_rate
filter_efficiency
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   0           0.648       0.001       0.804       0.804       0.804
end_filter_efficiency
frac_4_daughter_resusp
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     0     0     0     0     0
end_frac_4_daughter_resusp
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
0.5   7.03e-4
2     6.13e-4
8     4.71e-4
24    2.42e-4
96    1.66e-4
720   1.25e-4
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720   1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8     5.04e-5
24    3.76e-5
96    1.99e-5
720   7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      DW
downstream                    RB
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
0.167       0
24          0.696
720         0.348
end_flow_rate
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      WW
downstream                    RB
has_filter                    false
flow_rate
Time (hr) Value (cfm)
```

```
0.167        0
24           0.5
720          0.25
end_flow_rate
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       DW
downstream                     environment
has_filter                     false
flow_rate
Time  (hr)  Value (cfm)
0.167        0.752
24           0.056
720          0.028
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
0.5   4.13e-4
2     4.03e-4
8     1.70e-4
24    8.21e-5
96    5.77e-5
720   4.87e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720   1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8     5.04e-5
24    3.76e-5
96    1.99e-5
720   7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       WW
downstream                     environment
has_filter                     false
flow_rate
Time (hr) Value (cfm)
0.167        0.541
24           0.04
720          0.02
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
0.5   4.13e-4
2     4.03e-4
8     1.70e-4
```

```
24     8.21e-5
96     5.77e-5
720    4.87e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time   (hr)   Value (s/m*3)
720    1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time   (hr)   Value (s/m*3)
8      5.04e-5
24     3.76e-5
96     1.99e-5
720    7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       SP
downstream                     RB
has_filter                     true
flow_rate
Time   (hr)   Value (cfm)
0.25   0
720    0.268
end_flow_rate
filter_efficiency
Time   NobleGas    ElemIodine   OrgIodine    PartIodine   Solubles     Insolubles
720    0.5    0      0      0.99999      0      0
end_filter_efficiency
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       SP
downstream                     CST
has_filter                     true
flow_rate
Time   (hr)   Value (cfm)
0.25   0
720    0.064
end_flow_rate
filter_efficiency
Time   NobleGas    ElemIodine   OrgIodine    PartIodine   Solubles     Insolubles
720    0.5    0      0      0.99999      0      0
end_filter_efficiency
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       RB
downstream                     environment
has_filter                     true
```

```
flow_rate
Time  (hr)  Value (cfm)
720   5000
end_flow_rate
filter_efficiency
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
0.167 0     0     0     0     0     0
720   0     0.98  0.98  0.98  0.98  0.98
end_filter_efficiency
frac_4_daughter_resusp
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     1     0     0     0     0
end_frac_4_daughter_resusp
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
0.5   2.41e-4
2     2.29e-4
8     9.47e-5
24    5.17e-5
96    3.97e-5
720   3.05e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720   1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8     5.04e-5
24    3.76e-5
96    1.99e-5
720   7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      CST
downstream                    environment
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
0.25  0
720   0.064
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
0.5   7.03e-4
2     6.13e-4
8     4.71e-4
24    2.42e-4
96    1.66e-4
720   1.25e-4
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
```

```
720   1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8     5.04e-5
24    3.76e-5
96    1.99e-5
720   7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      environment
downstream                    Control_Room
has_filter                    true
flow_rate
Time  (hr)  Value (cfm)
0.5   1800
720   900
end_flow_rate
filter_efficiency
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   0     0.95  0.95  0.99  0.99  0.99
end_filter_efficiency
frac_4_daughter_resusp
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     1     0     0     0     0
end_frac_4_daughter_resusp
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      Control_Room
downstream                    environment
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
0.5   2050
720   1025
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
720   0
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720   0
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
720   0
end_X_over_Q_4_low_population_zone
end_junction
```

```
environment
breathing_rate_sb
Time (hr)   Value (cms)
8     0.00035
720   0.0
end_breathing_rate_sb
breathing_rate_lpz
Time (hr)   Value (cms)
8     0.00035
24    0.00018
720   0.00023
end_breathing_rate_lpz
end_environment
```

Output File Excerpt – 720 Hour CR and LPZ TEDE - Filtered Intake

Control_Room

	thyroid	wbody	skin	CEDE
Total dose:	4.74E+000	2.62E-001	5.37E+000	1.68E-001
Noble gas	0.00E+000	2.61E-001	5.36E+000	0.00E+000
Org iodine	9.37E-001	2.75E-005	2.88E-004	2.88E-002
Elem iodine	2.77E+000	2.70E-004	1.75E-003	8.53E-002
Part iodine	9.95E-001	8.47E-005	7.34E-004	3.10E-002
Cesium	9.59E-003	0.00E+000	0.00E+000	1.07E-002
Tellurium	3.32E-002	0.00E+000	0.00E+000	1.60E-003
Barium	6.16E-005	0.00E+000	0.00E+000	2.44E-004
Noble metal	3.29E-005	0.00E+000	0.00E+000	1.87E-003
Lanthanides	4.10E-006	0.00E+000	0.00E+000	1.40E-003
Cerium	2.14E-006	0.00E+000	0.00E+000	5.20E-003
Strontinum	9.63E-005	0.00E+000	0.00E+000	1.37E-003

environment

	thyroid	wbody	skin	CEDE
LPZ dose:	2.24E+001	2.11E+000	2.40E+000	9.25E-001
Noble gas	0.00E+000	2.08E+000	2.38E+000	0.00E+000
Org iodine	2.79E+000	2.24E-003	1.24E-003	8.59E-002
Elem iodine	8.60E+000	7.07E-003	3.39E-003	2.64E-001
Part iodine	1.05E+001	2.55E-002	1.08E-002	3.30E-001
Cesium	9.60E-002	0.00E+000	0.00E+000	1.07E-001
Tellurium	4.11E-001	0.00E+000	0.00E+000	1.98E-002
Barium	7.47E-004	0.00E+000	0.00E+000	2.99E-003
Noble metal	4.00E-004	0.00E+000	0.00E+000	2.26E-002
Lanthanides	4.59E-005	0.00E+000	0.00E+000	1.33E-002
Cerium	2.59E-005	0.00E+000	0.00E+000	6.28E-002
Strontinum	1.18E-003	0.00E+000	0.00E+000	1.66E-002

STARDOSE 1.0 (c) 1996 Polestar Applied Technology, Inc.
01:49:18 PM October 13, 2001
Total elapsed hours: 00, mins: 05, secs: 25

Input file – INPUT.DAT – Unfiltered Inleakage

```
edit_time
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9
1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9
2.0 2.1 2.2 2.3 2.4 2.44 2.5 2.6 2.7 2.8 2.9
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9
4.0 6.0 8.0 24.0 96.0 720.0
end_edit_time

participating_isotopes
Kr83m   Kr85m   Kr85    Kr87    Kr88    Kr89
Xe131m  Xe133m  Xe133   Xe135m  Xe135   Xe137   Xe138
I131Org I131Elem        I131Part
I132Org I132Elem        I132Part
I133Org I133Elem        I133Part
I134Org I134Elem        I134Part
I135Org I135Elem        I135Part
Rb86    Cs134   Cs136   Cs137
Sb127   Sb129   Te127m  Te127   Te129m  Te129   Te131m  Te132
Ba137m  Ba139   Ba140
Mo99    Tc99m   Ru103   Ru105   Ru106   Rh105
Y90     Y91     Y92     Y93     Zr95    Zr97    Nb95
La140   La141   La142   Pr143   Nd147   Am241   Cm242   Cm244
Ce141   Ce143   Ce144   Np239   Pu238   Pu239   Pu240   Pu241
Sr89    Sr90    Sr91    Sr92
end_participating_isotopes

core
thermal_power                   3556
elemental_iodine_frac           0.0485
organic_iodine_frac             0.0015
particulate_iodine_frac         0.95
release_frac
to_control_volume DW
Time N_Gas I_Grp CsGrp TeGrp BaGrp NMtls CeGrp LaGrp SrGrp
0.033 0     0     0     0     0     0     0     0     0
0.533 0.1   0.1   0.1   0     0     0     0     0     0
2.033 0.633 0.167 0.133 0.033 0.0133      0.00167 0.00033 0.00013 0.0133
720   0     0     0     0     0     0     0     0     0
end_to_control_volume
to_control_volume SP
Time N_Gas I_Grp CsGrp TeGrp BaGrp NMtls CeGrp LaGrp SrGrp
0.033 0     0     0     0     0     0     0     0     0
0.533 0     0.2   0     0     0     0     0     0     0
2.033 0     0.334 0     0     0     0     0     0     0
720   0     0     0     0     0     0     0     0     0
end_to_control_volume
end_release_frac
end_core

control_volume
obj_type                        OBJ_CV
name                            DW
air_volume                      2.0054e+005
water_volume                    0
```

```
surface_area                    1
has_recirc_filter               false
removal_rate_to_surface
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
0.25  0.00  0.001 0.00  0.001 0.001 0.001
2.44  0.00  6.20  0.00  6.20  6.20  6.20
24.00 0.00  0.62  0.00  0.62  0.62  0.62
720.0 0.00  0.00  0.00  0.00  0.00  0.00
end_removal_rate_to_surface
frac_4_daughter_resusp_from_surface
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     0     0     0     0     0
end_frac_4_daughter_resusp_from_surface
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            WW
air_volume                      1.442e+005
water_volume                    1.373e+005
surface_area                    0
has_recirc_filter               false
removal_rate_to_waterpool
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   0     0     0     0     0     0
end_removal_rate_to_waterpool
frac_4_daughter_resusp_from_water
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   0     0     0     0     0     0
end_frac_4_daughter_resusp_from_water
decontamination_factor
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     1     1     1     1     1
end_decontamination_factor
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            RB
air_volume                      1.392e+006
water_volume                    0
surface_area                    0
has_recirc_filter               false
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            SP
air_volume                      1.373e+005
water_volume                    0
surface_area                    0
has_recirc_filter               false
end_control_volume

control_volume
obj_type                        OBJ_CV
name                            CST
```

```
air_volume                    18048
water_volume                  0
surface_area                  0
has_recirc_filter             false
end_control_volume

control_volume
obj_type                      OBJ_CR
name                          Control_Room
air_volume                    2.14e+005
water_volume                  0
surface_area                  0
has_recirc_filter             false
breathing_rate
Time  (hr)  Value (cms)
720         0.00035
end_breathing_rate
occupancy_factor
Time  (hr)  Value (frac)
24          1
96          0.6
720         0.4
end_occupancy_factor
end_control_volume

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      CORE
downstream                    DW
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
720   1
end_flow_rate
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      CORE
downstream                    SP
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
720   1
end_flow_rate
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           WATER_POOL
upstream                      DW
downstream                    WW
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
```

```
2.033        0
720          1.442e5
end_flow_rate
end_junction

junction
junction_type                    AIR_JUNCTION
downstream_location              AIR_SPACE
upstream                         WW
downstream                       DW
has_filter                       false
flow_rate
Time  (hr)  Value (cfm)
2.033        0
720          1.442e5
end_flow_rate
end_junction

junction
junction_type                    AIR_JUNCTION
downstream_location              AIR_SPACE
upstream                         DW
downstream                       environment
has_filter                       false
flow_rate
Time  (hr)  Value (cfm)
24     0.0995
720    0.0498
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
2      3.17e-3
8      2.4e-3
24     1.19e-3
96     7.91e-4
720    5.87e-4
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720    1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8      5.04e-5
24     3.76e-5
96     1.99e-5
720    7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                    AIR_JUNCTION
downstream_location              AIR_SPACE
upstream                         DW
downstream                       environment
has_filter                       true
flow_rate
```

```
Time  (hr)  Value (cfm)
24    0.299
720   0.149
end_flow_rate
filter_efficiency
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   0           0.648       0.001       0.804       0.804       0.804
end_filter_efficiency
frac_4_daughter_resusp
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     0     0     0     0     0
end_frac_4_daughter_resusp
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
2     3.17e-3
8     2.4e-3
24    1.19e-3
96    7.91e-4
720   5.87e-4
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720   1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8     5.04e-5
24    3.76e-5
96    1.99e-5
720   7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      DW
downstream                    RB
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
0.167       0
24          0.696
720         0.348
end_flow_rate
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      WW
downstream                    RB
has_filter                    false
flow_rate
Time (hr) Value (cfm)
0.167       0
24          0.5
```

```
720          0.25
end_flow_rate
end_junction

junction
junction_type                    AIR_JUNCTION
downstream_location              AIR_SPACE
upstream                         DW
downstream                       environment
has_filter                       false
flow_rate
Time  (hr)  Value (cfm)
0.167        0.752
24           0.056
720          0.028
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
2      6.8e-4
8      4.92e-4
24     2.53e-4
96     1.45e-4
720    1.19e-4
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720    1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8      5.04e-5
24     3.76e-5
96     1.99e-5
720    7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                    AIR_JUNCTION
downstream_location              AIR_SPACE
upstream                         WW
downstream                       environment
has_filter                       false
flow_rate
Time (hr) Value (cfm)
0.167        0.541
24           0.04
720          0.02
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
2      6.8e-4
8      4.92e-4
24     2.53e-4
96     1.45e-4
720    1.19e-4
end_X_over_Q_4_ctrl_room
```

```
X_over_Q_4_site_boundary
Time   (hr)   Value (s/m*3)
720    1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time   (hr)   Value (s/m*3)
8      5.04e-5
24     3.76e-5
96     1.99e-5
720    7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       SP
downstream                     RB
has_filter                     true
flow_rate
Time   (hr)   Value (cfm)
0.25   0
720    0.268
end_flow_rate
filter_efficiency
Time   NobleGas    ElemIodine   OrgIodine    PartIodine   Solubles     Insolubles
720    0.5    0      0      0.99999      0      0
end_filter_efficiency
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       SP
downstream                     CST
has_filter                     true
flow_rate
Time   (hr)   Value (cfm)
0.25   0
720    0.064
end_flow_rate
filter_efficiency
Time   NobleGas    ElemIodine   OrgIodine    PartIodine   Solubles     Insolubles
720    0.5    0      0      0.99999      0      0
end_filter_efficiency
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       RB
downstream                     environment
has_filter                     true
flow_rate
Time   (hr)   Value (cfm)
720    5000
end_flow_rate
```

```
filter_efficiency
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
0.167 0     0     0     0     0     0
720   0     0.98  0.98  0.98  0.98  0.98
end_filter_efficiency
frac_4_daughter_resusp
Time  NobleGas    ElemIodine  OrgIodine   PartIodine  Solubles    Insolubles
720   1     1     0     0     0     0
end_frac_4_daughter_resusp
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
2     5.79e-4
8     2.86e-4
24    1.79e-4
96    1.25e-4
720   9.15e-5
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720   1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8     5.04e-5
24    3.76e-5
96    1.99e-5
720   7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                 AIR_JUNCTION
downstream_location           AIR_SPACE
upstream                      CST
downstream                    environment
has_filter                    false
flow_rate
Time  (hr)  Value (cfm)
0.25  0
720   0.064
end_flow_rate
X_over_Q_4_ctrl_room
Time  (hr)  Value (s/m*3)
2     3.17e-3
8     2.4e-3
24    1.19e-3
96    7.91e-4
720   5.87e-4
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time  (hr)  Value (s/m*3)
720   1.8e-4
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time  (hr)  Value (s/m*3)
8     5.04e-5
24    3.76e-5
```

```
96     1.99e-5
720    7.97e-6
end_X_over_Q_4_low_population_zone
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       environment
downstream                     Control_Room
has_filter                     false
flow_rate
Time   (hr)   Value (cfm)
0.5    250
720    125
end_flow_rate
end_junction

junction
junction_type                  AIR_JUNCTION
downstream_location            AIR_SPACE
upstream                       Control_Room
downstream                     environment
has_filter                     false
flow_rate
Time   (hr)   Value (cfm)
0.5    2050
720    1025
end_flow_rate
X_over_Q_4_ctrl_room
Time   (hr)   Value (s/m*3)
720    0
end_X_over_Q_4_ctrl_room
X_over_Q_4_site_boundary
Time   (hr)   Value (s/m*3)
720    0
end_X_over_Q_4_site_boundary
X_over_Q_4_low_population_zone
Time   (hr)   Value (s/m*3)
720    0
end_X_over_Q_4_low_population_zone
end_junction

environment
breathing_rate_sb
Time (hr)    Value (cms)
8      0.00035
720    0.0
end_breathing_rate_sb
breathing_rate_lpz
Time (hr)    Value (cms)
8      0.00035
24     0.00018
720    0.00023
end_breathing_rate_lpz
end_environment
```

Output File Excerpts – 720 Hour CR and LPZ TEDE - Unfiltered Inleakage

Control_Room

	thyroid	wbody	skin	CEDE
Total dose:	9.27E+001	1.64E-001	3.21E+000	4.15E+000
Noble gas	0.00E+000	1.58E-001	3.16E+000	0.00E+000
Org iodine	1.21E+001	3.65E-004	3.81E-003	3.73E-001
Elem iodine	1.92E+001	5.29E-004	4.88E-003	5.87E-001
Part iodine	5.87E+001	4.92E-003	4.28E-002	1.83E+000
Cesium	5.60E-001	0.00E+000	0.00E+000	6.24E-001
Tellurium	2.09E+000	0.00E+000	0.00E+000	1.01E-001
Barium	3.88E-003	0.00E+000	0.00E+000	1.54E-002
Noble metal	2.07E-003	0.00E+000	0.00E+000	1.18E-001
Lanthanides	2.58E-004	0.00E+000	0.00E+000	8.80E-002
Cerium	1.35E-004	0.00E+000	0.00E+000	3.28E-001
Strontinum	6.07E-003	0.00E+000	0.00E+000	8.62E-002

environment

	thyroid	wbody	skin	CEDE
LPZ dose:	2.24E+001	2.11E+000	2.40E+000	9.25E-001
Noble gas	0.00E+000	2.08E+000	2.38E+000	0.00E+000
Org iodine	2.79E+000	2.24E-003	1.24E-003	8.59E-002
Elem iodine	8.60E+000	7.07E-003	3.39E-003	2.64E-001
Part iodine	1.05E+001	2.55E-002	1.08E-002	3.30E-001
Cesium	9.60E-002	0.00E+000	0.00E+000	1.07E-001
Tellurium	4.11E-001	0.00E+000	0.00E+000	1.98E-002
Barium	7.47E-004	0.00E+000	0.00E+000	2.99E-003
Noble metal	4.00E-004	0.00E+000	0.00E+000	2.26E-002
Lanthanides	4.59E-005	0.00E+000	0.00E+000	1.33E-002
Cerium	2.59E-005	0.00E+000	0.00E+000	6.28E-002
Strontinum	1.18E-003	0.00E+000	0.00E+000	1.66E-002

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01:57:10 PM October 13, 2001
Total elapsed hours: 00, mins: 05, secs: 25